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SEISMIC VULNERABILITY OF ESSENTIAL FACILITIES IN THE WEST TENNESSEE
REGION

by

Abdurahman Abdulhadi

A Thesis

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- Advisor: Dr. Shahram Pezeshk, P.E., F.ASCE
- Co-advisor: Dr. Charles Camp
- Committee member: Dr. Roger Meier

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- Dyer County
- Lake County
- Lauderdale County
- Madison County
- Tipton County

I understand accommodating researchers is difficult and even more so during a global pandemic, and that is why I would like to thank everyone, especially my advisor, for all their patience.

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Executive Summary

The goal of this study is to update the study conducted by the Mid-America Earthquake Center (MAEC) in 2008 for five counties in Tennessee. This study focused Dyer, Lake, Lauderdale, Madison, and Tipton counties. A program developed by Federal Emergency Management Agency (FEMA) was utilized in this study which is called Hazard United States - Multi-Hazard (Hazus-MH). This study is based on Hazus-MH 5.1. The inventory used in Hazus was updated for essential facilities (fire stations, police stations, schools, and hospitals) and bridges. The essential facilities was updated using a procedure that was developed by the Applied Technology Council (ATC) and is referred to as the Rapid Visual Screening (RVS) method. The method was developed to quickly determine if a structure is at risk of sustaining major damage due to a seismic event. Hazus can utilize user-defined ground motion maps and the predefined database to produce results with five damage categories: none, slight, moderate, extensive, and complete. These damage categories can be used to determine economic losses and estimate whether the damages are structural or nonstructural. The results will then be compared to the Mid-America Earthquake Center (MAEC) report published in 2008 and USGS 2014 Hazards to determine the impact on Dyer, Lake, Lauderdale, Tipton, and Madison counties in West Tennessee.

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1. Introduction

The goal of this study is to update the study conducted by the Mid-America Earthquake Center (MAEC) in 2008 for five counties in Tennessee. As shown in Figure 1.1, the region studied has seismic levels ranging from Moderately High to Very High. Earthquakes recorded in this region date back centuries; three earthquakes ranging from M7.2 to M7.5, occurred between 1811 and 1812. The concern about earthquakes in this region mostly stems from the New Madrid fault. Significant earthquakes in the United States do not only occur on the West coast, and “the crustal structure in the Central US which efficiently propagates seismic energy, shaking from earthquakes in this part of the country are felt at a much greater distance from the epicenters than similar size quakes in the Western US” (USGS, n.d.).

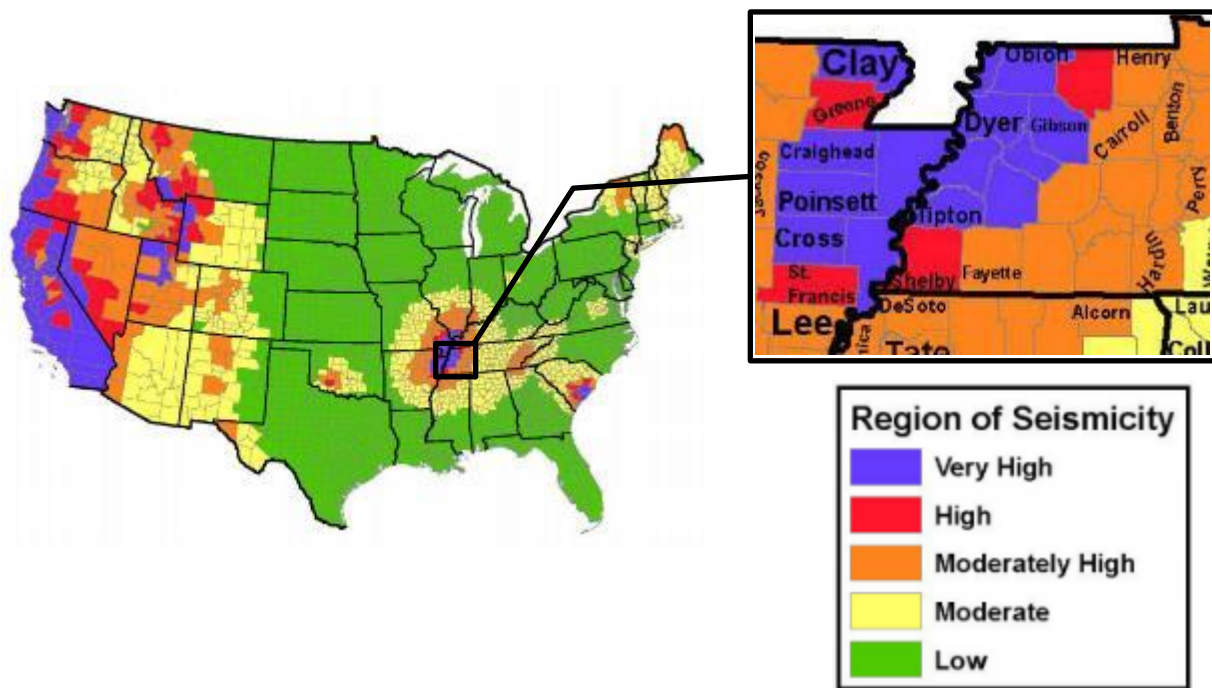


Figure 1.1 Seismicity Regions (FEMA P-154, 2015)

This study assesses the potential seismic hazards for fire stations, police stations, hospitals, schools, and bridges in five counties in West Tennessee. These counties are Dyer, Lake,

Lauderdale, Madison, and Tipton. All these counties, except for Madison, are considered to be in a “Very High” region of seismicity. Figure 1.2 shows the locations of the counties included in this study. Dyer, Lake, Lauderdale, and Tipton counties all border the Mississippi River and are subject to earthquake-induced liquefaction. This condition may lead to ground failure, potentially increasing structural damage; however, this study does not consider local liquefaction. Elnashai et al. (2008), in the report *Impact of Earthquakes on the Central USA*, stated that over 250,000 buildings in 37 counties in West Tennessee were susceptible to moderate or more severe damage due to an M7.7 earthquake, with an estimated total direct economic losses were greater than \$56 billion.

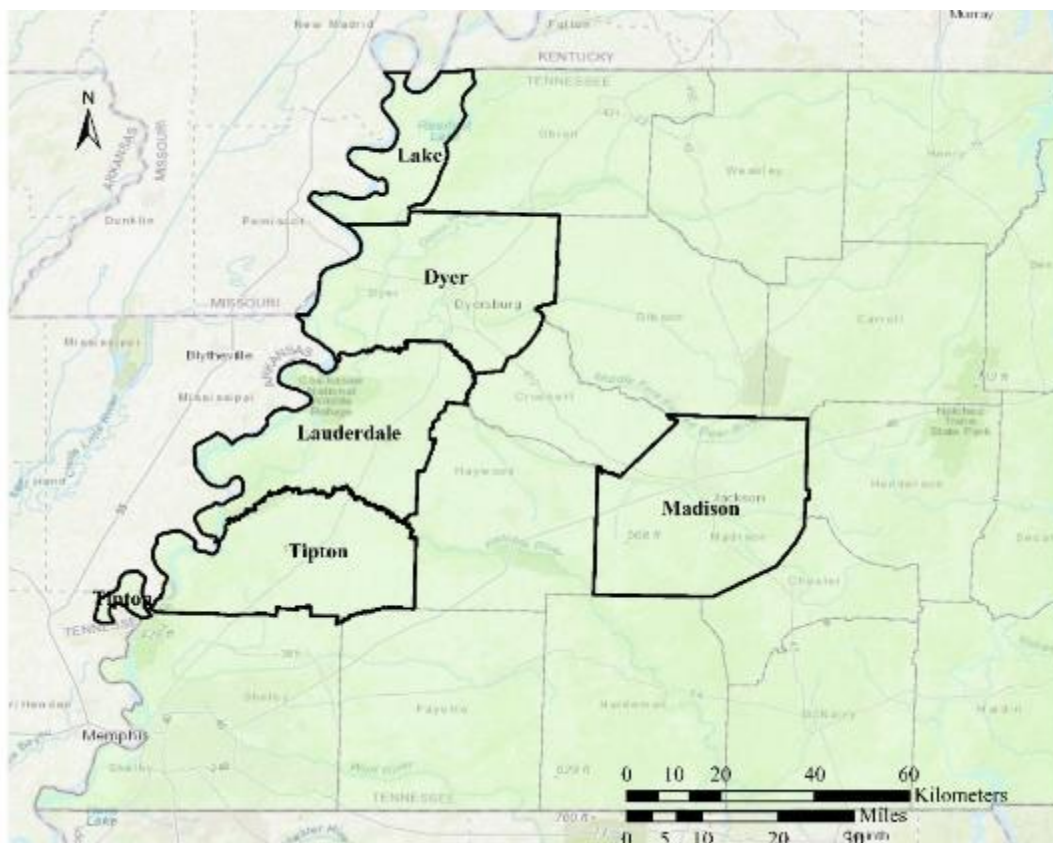


Figure 1.2 West Tennessee Region with 5 Counties of Interest

1.1. Project Objectives

This study aims to update the 2008 MAEC study for five counties in the West Tennessee region. This was completed by using the latest version of Hazus at the time this study was completed (Hazus-MH 5.1). In this study, two main sets of inventory/structures were assessed: essential facilities and bridges. Essential facilities assessed in this study were: fire stations, police stations, hospitals, and schools. Rapid Visual Screening (RVS) (FEMA, 2022) and Hazus-MH 5.1 were used to assess essential facilities, while only Hazus-MH 5.1 was used to assess bridges. Although visual surveys can sometimes be performed on non-building structures, the RVS procedure does not cover bridges. The RVS method was a way to collect the necessary information to complete the Hazus analysis for essential facilities, but bridge information had to be obtained through another format because the RVS method is not compatible with assessing bridges.

For this study, we considered seismic hazard maps developed by USGS and by Cramer et al. (2021). The comparisons were made using the same inventory, so the difference was solely a result of the seismic hazards. Correlations between the two hazards were made, and rankings between all the counties were made to determine the percentages of each county within a certain quartile. This was done for both essential facilities and bridges.

For this study, we used user-supplied seismic hazard and probabilistic hazard types instead of the deterministic hazard (historical epicenter event, source event, or arbitrary event) or United States Geological Survey (USGS) ShakeMap. The user-supplied seismic hazard type is defined by ground motion data provided by the University of Memphis Center for Earthquake Research and Information (CERI) (Cramer et al., 2022) [hereafter will be referred to as CERI]. The probabilistic hazard type is a built-in feature of Hazus where USGS Hazard curves are used, which were developed from USGS hazard maps. Hazus-MH 5.1 utilizes 2014 USGS hazard

curves (Petersen et al., 2014). CERI hazard maps developed for 2% probability of exceedance (POE) in 50 years were used for this study. Hazus also utilizes a 2% POE in 50 years.

1.2. Mid-America Earthquake Center (MAEC)

The report *Impact of Earthquakes on the Central USA*, published by the Mid-America Earthquake Center (MAEC), commonly referred to as MAEC report/study, was used as a comparison of hazard results and improvement on inventory data. General inventory data differences between this study and the MAEC report can be seen in the Study Region Characteristics Section of this report. The MAEC report was a study done on eight different states surrounding the New Madrid region. The states studied were Alabama, Arkansas, Illinois, Indiana, Kentucky, Mississippi, Missouri, and Tennessee. Since the study was spread out over several states getting local and more accurate information on structures was not feasible, so general building stock provided by Hazus was used in the MAEC study. The default datasets that are provided by Hazus are information associated with the Homeland Security Infrastructure Program (HSIP) 2007. However, the MAEC study went further than this study by not only assessing essential facilities and bridges but by assessing utility lifelines, transportation lines, and high potential-loss facilities.

The MAEC study used deterministic hazard and provided three events (Eastern, Western, and Middle), and each event had three segments (Northeastern, Central, and Western). The hazard was based on an M7.7, and dependent on the location being assessed, the hazard would be shifted from one location to another to produce the most extreme case for each state studied. This can be seen in Figure 1.3, where the original hazard for Tennessee would have been the bottom image MAEC shifted the whole hazard to the Eastern event/fault line and used the Southwestern

segment. Segments are split between fault end points, as seen in Figure 1.3. The specific hazards used for each state can be found in the MAEC report.

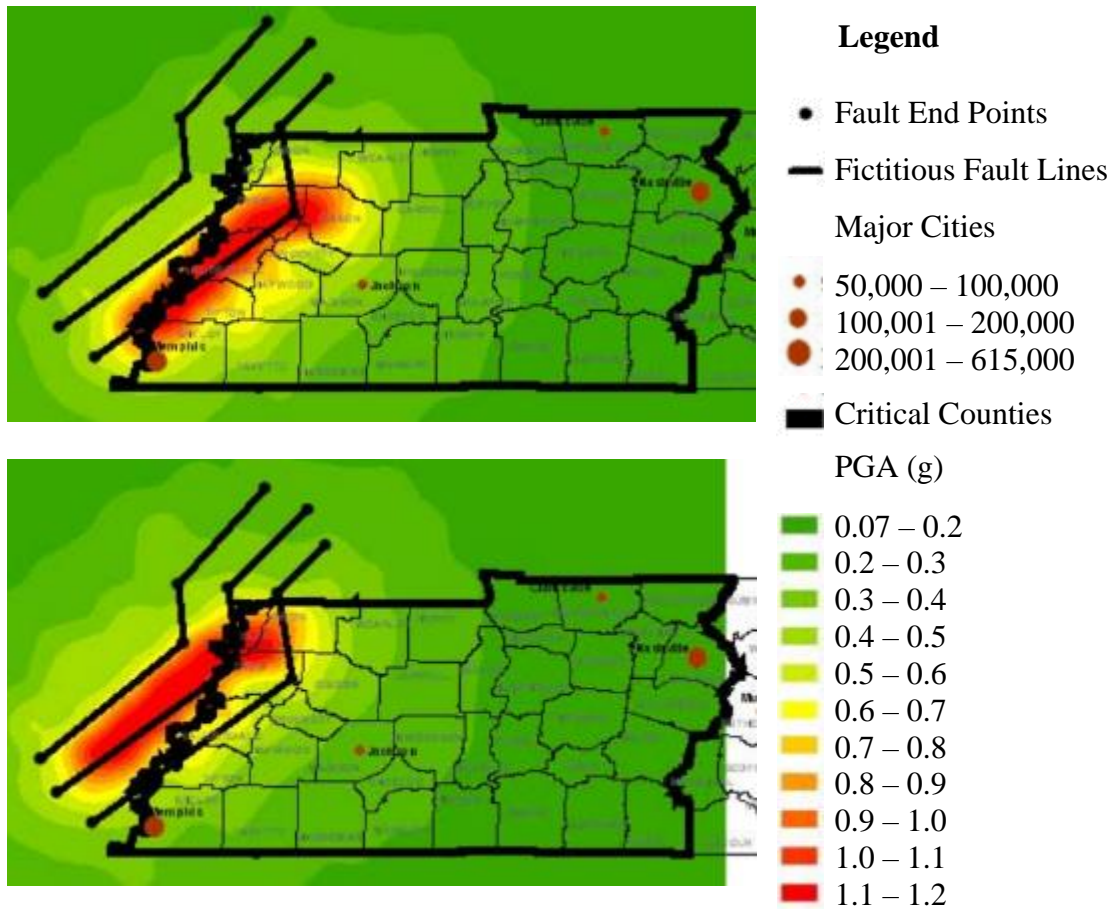


Figure 1.3 Mid- America Earthquake Center (MAEC) PGA Hazard Map

1.3. Hazus-MH 5.1 and Comprehensive Data Management System (CDMS)

Hazus-MH 5.1 can use information from the RVS procedure, and the bridge information was obtained using the website described in the Bridge Data Section of this report. The website to obtain information for the bridges is from bridge inspection reports done periodically by the Tennessee Department of Transportation (TDOT) that are then digitized into a friendly user website, but this website is a database not only for Tennessee but a national database. Before any results are obtained using Hazus-MH 5.1, the inventory, both essential facilities and bridges, has

to be updated based on the current information obtained, which take a substantially longer time compared to the RVS procedure.

Hazus-MH 5.1 produces probabilities for five damage states: none, slight, moderate, extensive, and complete. These probabilities can then be used to determine economic losses, casualties, and functionality. This study includes damage probabilities, functionality, economic losses, and casualties for bridges and essential facilities. Some damage and functionality comparisons between this study and the MAEC study were made in this report.

This study reports the damage probabilities as a cumulative format for the five damage states, so once a structure passes a probability of 50%, then it is considered to experience that damage state. This format ensures each structure is represented in a damage state. In contrast, the MAEC reported most, if not all, damages in two categories: complete or at least moderate damage with 50% or greater probability. The term at least moderate means damage that the sum of probability for complete, extensive, and moderate must be equal to or greater than 50%.

The MAEC study also produced damage states for general occupancy, pipeline, and communication facilities. The general occupancy is categorized into single-family, other residential, commercial, and industrial. Damage for the building types of the general occupancy categories is shown in the MAEC report. The pipelines were categorized into potable water, wastewater, natural gas, and oil. The MAEC study also produced functionalities to determine service interruptions for items like potable water and electric power. The amount of the population displaced and seeking shelter and the number of casualties incurred. The MAEC report also showed economic losses, and all the results were outputted by the Hazus software for each state.

1.4. Rapid Visual Screening (RVS)

Rapid Visual Screening (RVS) (FEMA, 2022) was used to assess essential facilities but not bridges. Although visual surveys can sometimes be performed on non-building structures, the RVS procedure does not cover bridges. The RVS method designates a score for a building based on its structural aspects and the site at which it is located. If the score is less than a predetermined cut-off score, the building may suffer extensive damage, resulting in loss of life, the delayed response of first responders, and economic loss.

The Applied Technology Council (ATC) developed the RVS method for the Federal Emergency Management Agency (FEMA). The RVS method was developed so that personnel could be trained relatively fast and efficiently to determine if a structure should be considered hazardous due to seismic events. If a structure is deemed hazardous based on the RVS method, then the structure should undergo further detailed structural assessment. Each building has an assessed score, S_{L1} , which is compared to a cut-off score, S_{co} . If the assessed score is below the cut-off, the structure is considered hazardous.

The RVS method requires data collection and site visits of each facility location when applicable. Information that is obtained during the RVS procedure includes but is not limited to the following:

- Determination of shear wave velocity at 30 meters V_{s30} ,
- Soil classification
- Seismicity level (short and long periods at each building location)
- Vertical and plan irregularity

- Year built/Remodeled
- Building type
- Building sketches and photos were taken if necessary

1.5. Bridge Data

The bridges assessed in this study were not visited physically like most essential facilities were. Information on bridges was obtained from <http://bridgereports.com/tn/> (Baughn, 2020). There are around 40 different types of bridges. Things like the number of spans, pier type, span continuity, and if the bridge was designed for seismic are needed to determine each bridge type. When the bridge was built or repaired, bridge length, maximum span length, and skew angle are also needed to complete the bridge inventory for Hazus analysis. Luckily, the website mentioned provides all the needed information that is the most up-to-date because the website utilizes TDOT bridge reports and inspections.

1.6. Study Region Characteristics

In this study, a total of 17 hospitals, 294 schools, 70 fire stations, and 30 police station structures were assessed in the five counties. Hazus-MH was used to estimate losses for both essential facilities and bridges; however, RVS was only completed for essential facilities. Over 1,000 bridges were included in this study.

Table 1.1. compare the number of fire stations assessed between the MAEC study and this study.

A total of 70 fire structures were assessed in this study, compared to 47 in the MAEC study.

Numbers shown in parenthesis in this paper represent the total number of structures within each facility.

Table 1.1 Number of Fire Station Facilities (Structures) Assessed

Fire Stations Assessed			
County	MAEC	This Study	% Change
Dyer	6	14 (17)	133%
Lake	2	2 (3)	0%
Lauderdale	7	7 (8)	0%
Madison	22	25 (29)	14%
Tipton	10	13 (13)	30%
All 5 Counties	47	61 (70)	30%

Table 1.2. compares the number of hospital structures assessed by the MAEC study and this study. A total of 17 hospital structures were assessed in this study, compared to 6 in the MAEC study.

Table 1.2 Number of Hospital Facilities (Structures) Assessed

Hospitals Assessed			
County	MAEC	This Study	% Change
Dyer	1	1 (6)	0%
Lake	-	-	-
Lauderdale	1	1 (3)	0%
Madison	3	3 (3)	0%
Tipton	1	1 (5)	0%
All 5 Counties	6	6 (17)	0%

Table 1.3. compares the number of police station structures assessed by the MAEC study and this study. A total of 30 total police station structures were assessed in this study, compared to 24 in the MAEC study.

Table 1.3 Number of Police Station Facilities (Structures) Assessed

Police Stations Assessed			
County	MAEC	This Study	% Change
Dyer	7	4 (4)	-43%

Table 1.3 Number of Police Station Facilities (Structures) Assessed

Police Stations Assessed			
County	MAEC	This Study	% Change
Lake	3	3 (5)	0%
Lauderdale	5	5 (7)	0%
Madison	3	4 (8)	33%
Tipton	6	6 (6)	0%
All 5 Counties	24	22 (30)	-8%

Table 1.4. compares the number of school structures in the MAEC study and this study. A total of 294 school structures were assessed in this study, compared to 88 in the MAEC study.

Table 1.4 Number of School Structures Assessed

Schools Assessed			
County	MAEC	This Study	% Change
Dyer	17	14 (27)	-18%
Lake	3	3 (12)	0%
Lauderdale	10	8 (16)	-20%
Madison	44	48 (203)	9%
Tipton	14	17 (36)	21%
All 5 Counties	88	90 (294)	2%

Table 1.5. compares the number of bridges assessed in the MAEC study and this study. A total of 1,169 bridge structures were assessed in this study, compared to 428 in the MAEC study.

Table 1.5 Number of Bridges Assessed

Bridges Assessed			
County	MAEC	This Study	% Change
Dyer	121	242	100%
Lake	14	30	114%
Lauderdale	94	269	186%
Madison	145	422	191%
Tipton	54	206	281%
All 5 Counties	428	1169	173%

The population of each county affects the number of casualties that could occur due to an earthquake, and the populations for each county (see Table 1.6). These populations are distributed into categories based on occupancy type, and then casualties are determined using this and damage state of buildings.

Table 1.6 Populations of Counties (U.S. Census Bureau, 2019)

County	In 2019	% Change since 2010
Dyer	37,159	-3.1%
Lake	7,016	-10.4%
Lauderdale	25,633	-7.9%
Madison	97,984	-0.3%
Tipton	61,599	1.0%

The highway bridges assessed are shown in relation to the Freight Analysis Framework (FAF) and secondary county roads. The FAF is a network developed by the United States Department of Transportation (USDOT) that identifies major highways, interstates, and roads used throughout the United States.

1.6.1. Dyer County

Figure 1.4 and Figure 1.5 show the locations of 242 bridges and 54 essential facilities in Dyer County. 54 essential facilities include 6 hospitals, 27 schools, 4 police stations, and 17 fire stations. Approximately 1,634,500 ft² of essential facilities in Dyer County were included in this studied.

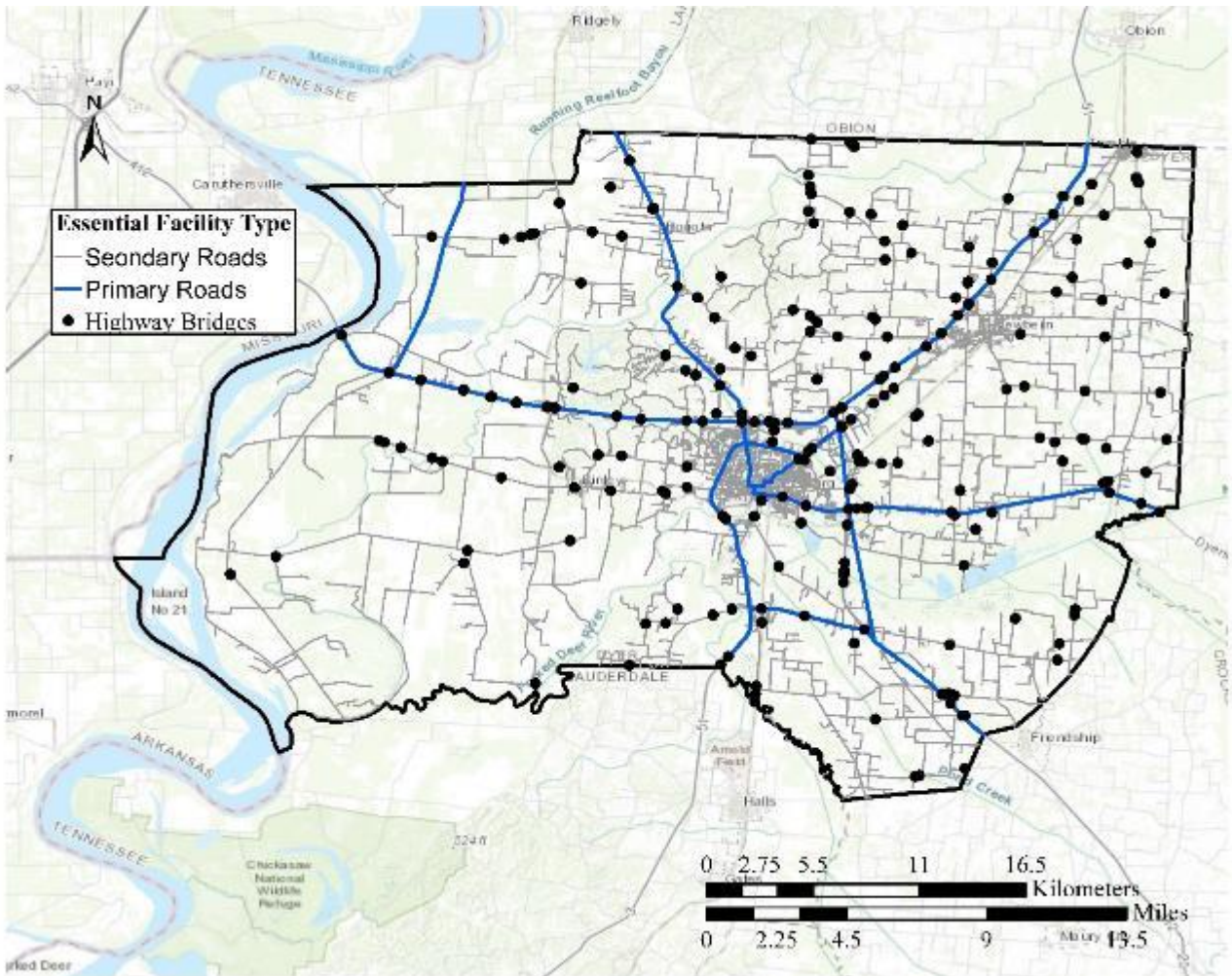


Figure 1.4 Bridges in relation to FAF3.4 Network, Dyer County

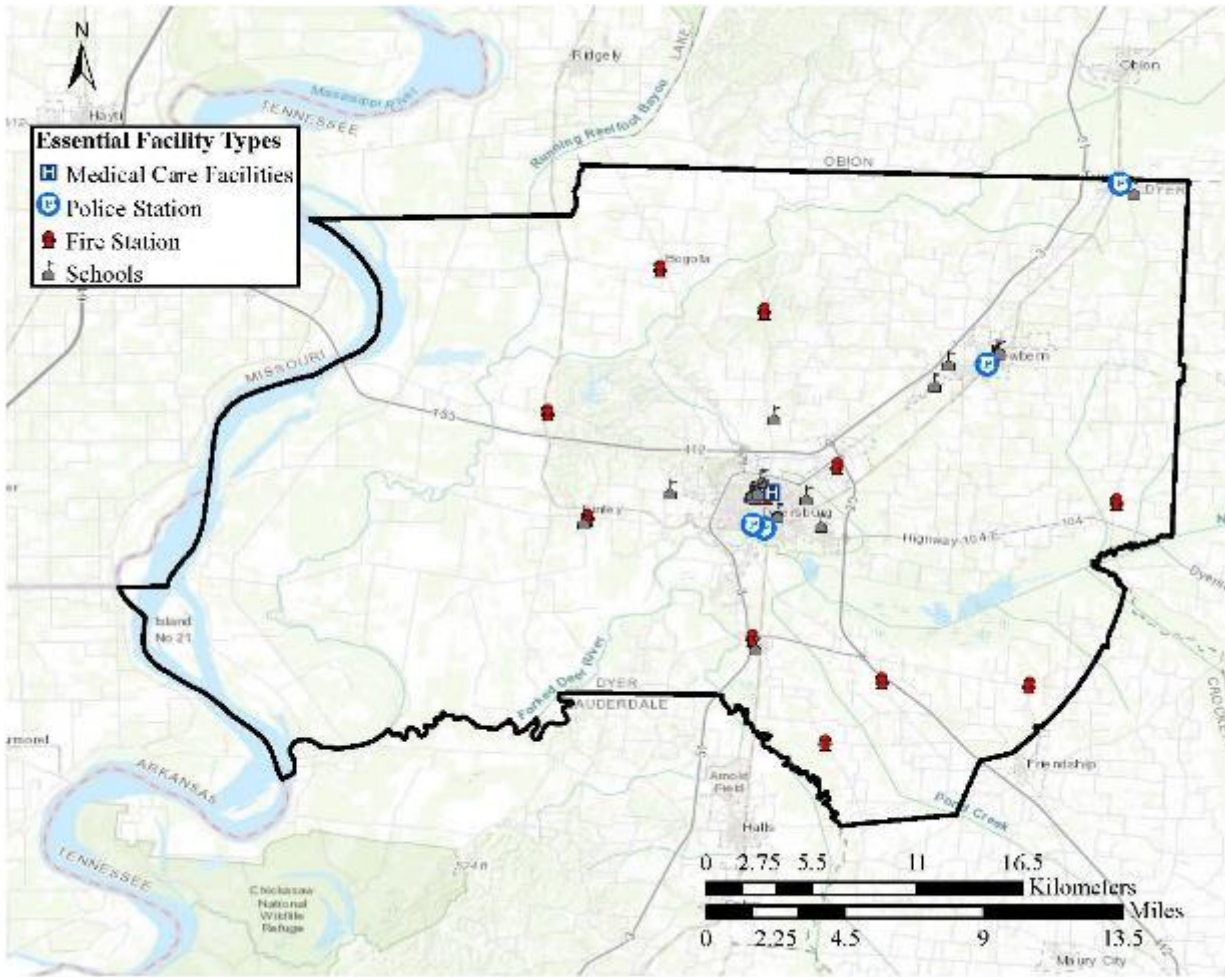


Figure 1.5 Site Locations of Essential Facilities, Dyer County

1.6.2. Lake County

Figure 1.6 and Figure 1.7 show the locations of 30 bridges and 20 essential facilities in Lake County. The 20 essential facilities included 12 schools, 5 police stations, and 3 fire stations. Approximately 258,900 ft² of essential facilities in Lake County were studied.

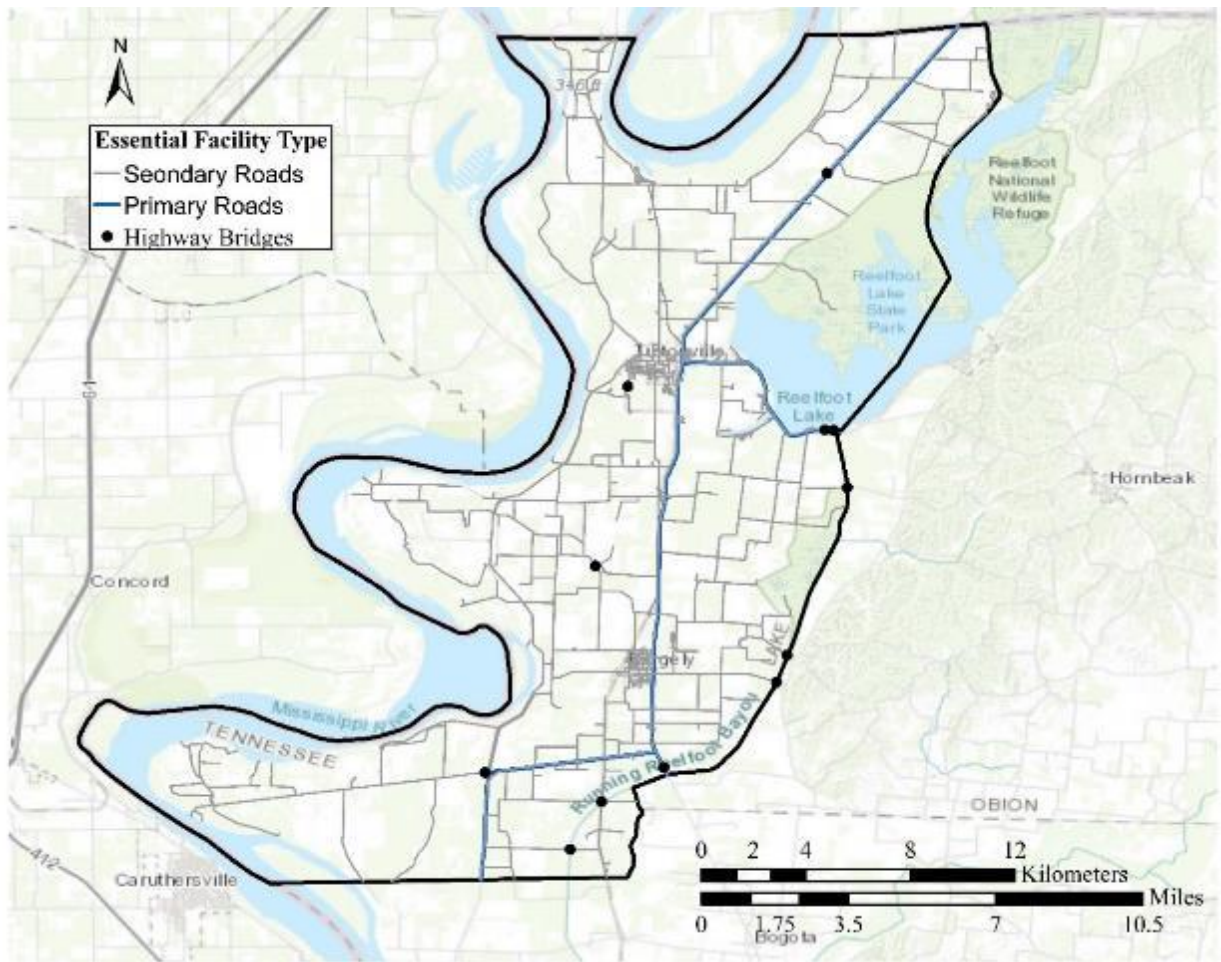


Figure 1.6 Bridges in relation to FAF3.4 Network, Lake County

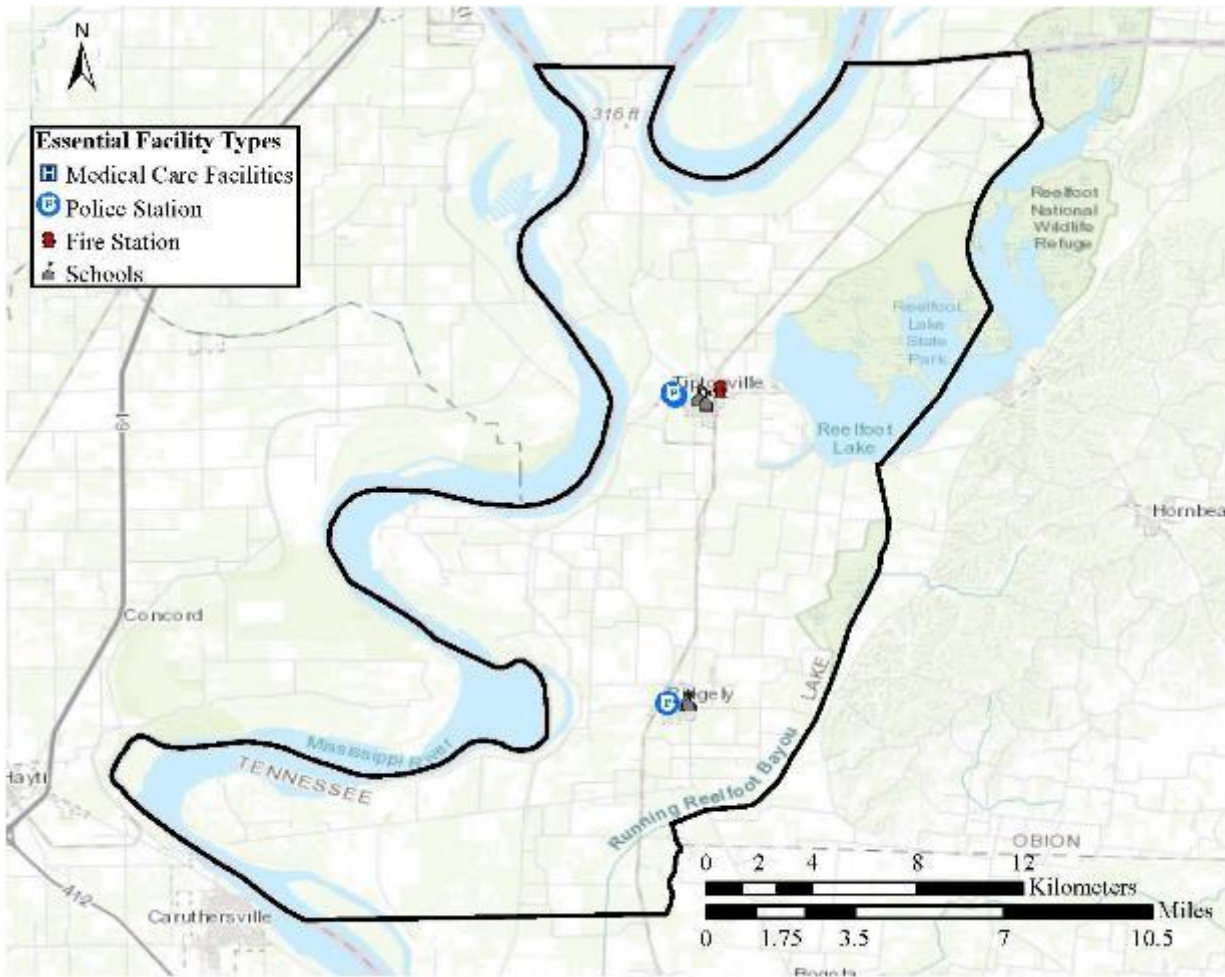


Figure 1.7 Site Locations of Essential Facilities, Lake County

1.6.3. Lauderdale County

Lauderdale County contains 34 essential facilities structures and 269 bridges, which can be seen in Figure 1.8 and Figure 1.9. Of the 34 essential facilities, 3 were hospitals, 16 were schools, 7 were police stations, and 8 were fire stations. Around 1,608,200 ft² of essential facilities were studied in Lauderdale County.

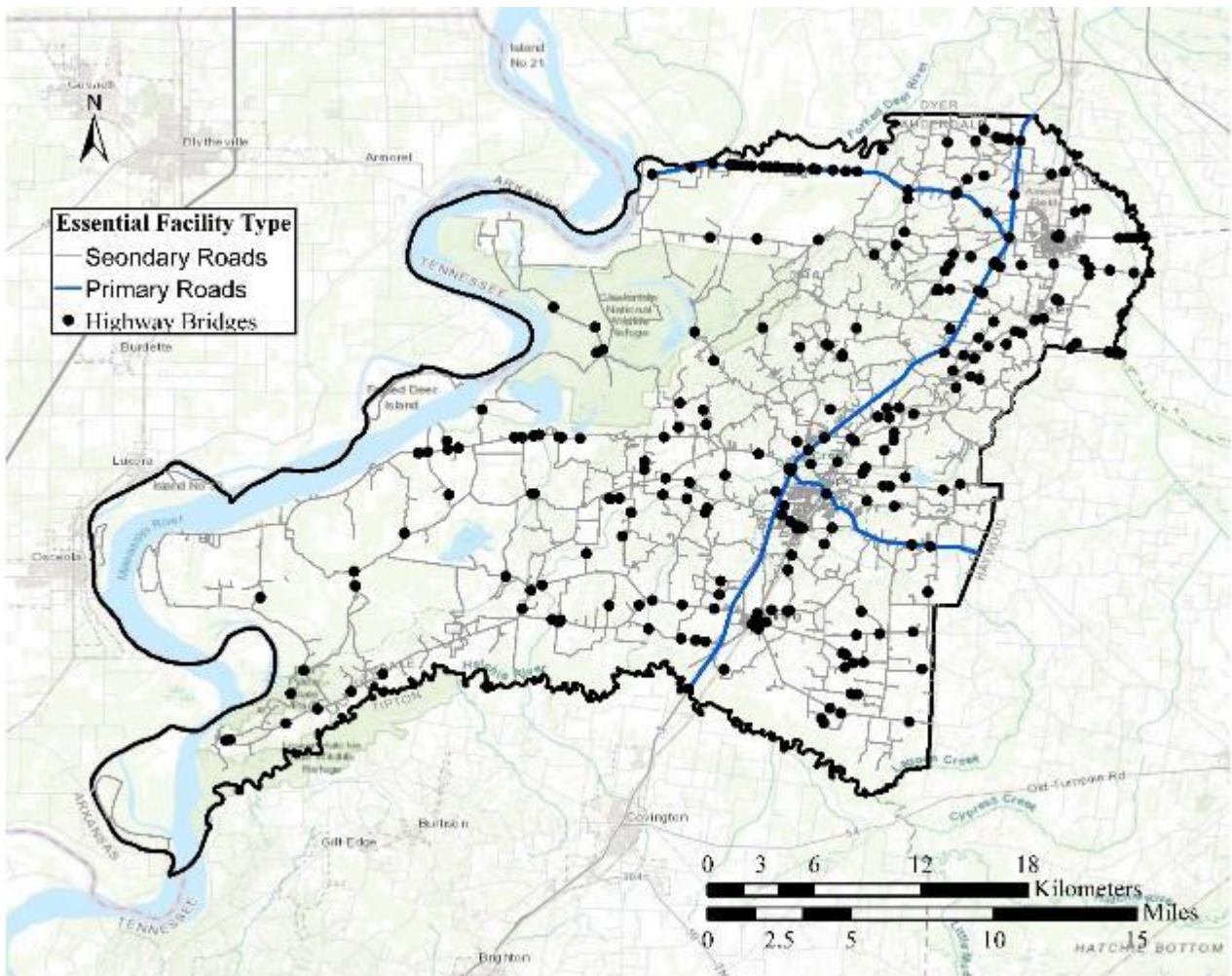


Figure 1.8 Bridges in relation to FAF3.4 Network, Lauderdale County

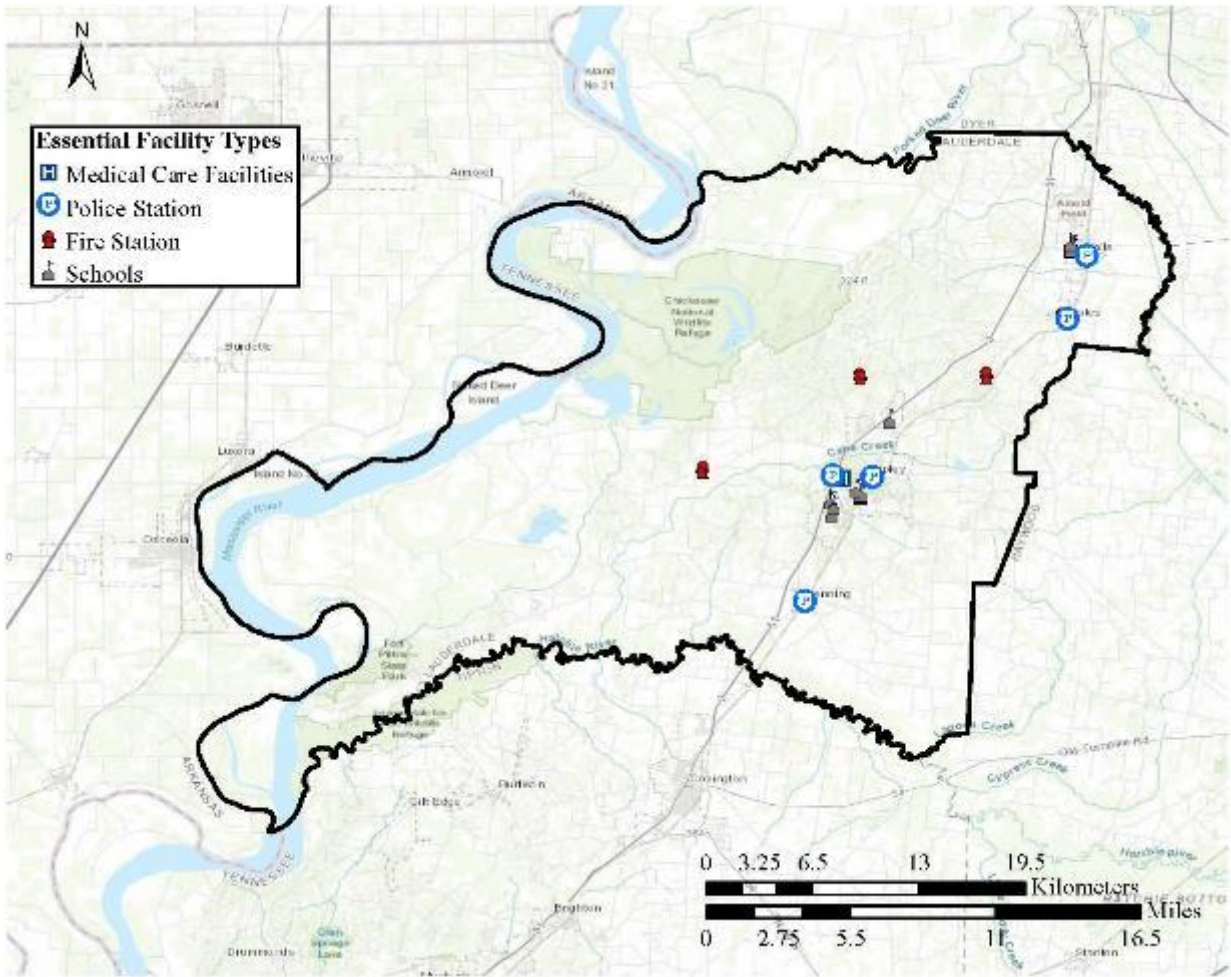


Figure 1.9 Site Locations of Essential Facilities, Lauderdale County

1.6.4. Madison County

Madison County contains 24 essential facilities structures and 422 bridges, as shown in Figure 1.10 and Figure 1.11. Of the 243 essential facilities, 3 were hospitals, 203 were schools, 8 were police stations, and 29 were fire stations. About 6,163,500 ft² of Essential Facilities were studied in Madison County.

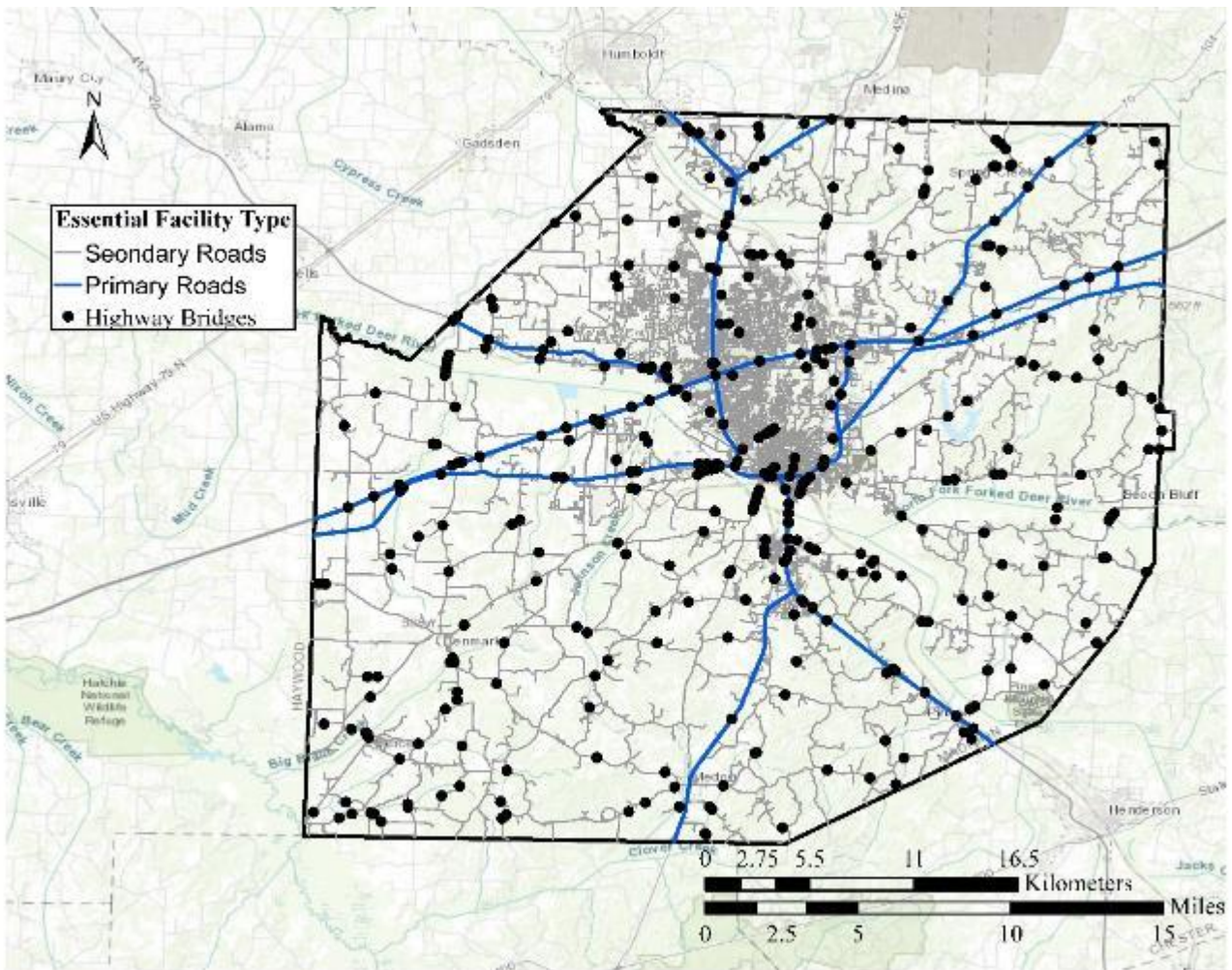


Figure 1.10 Bridges in relation to FAF3.4 Network, Madison County

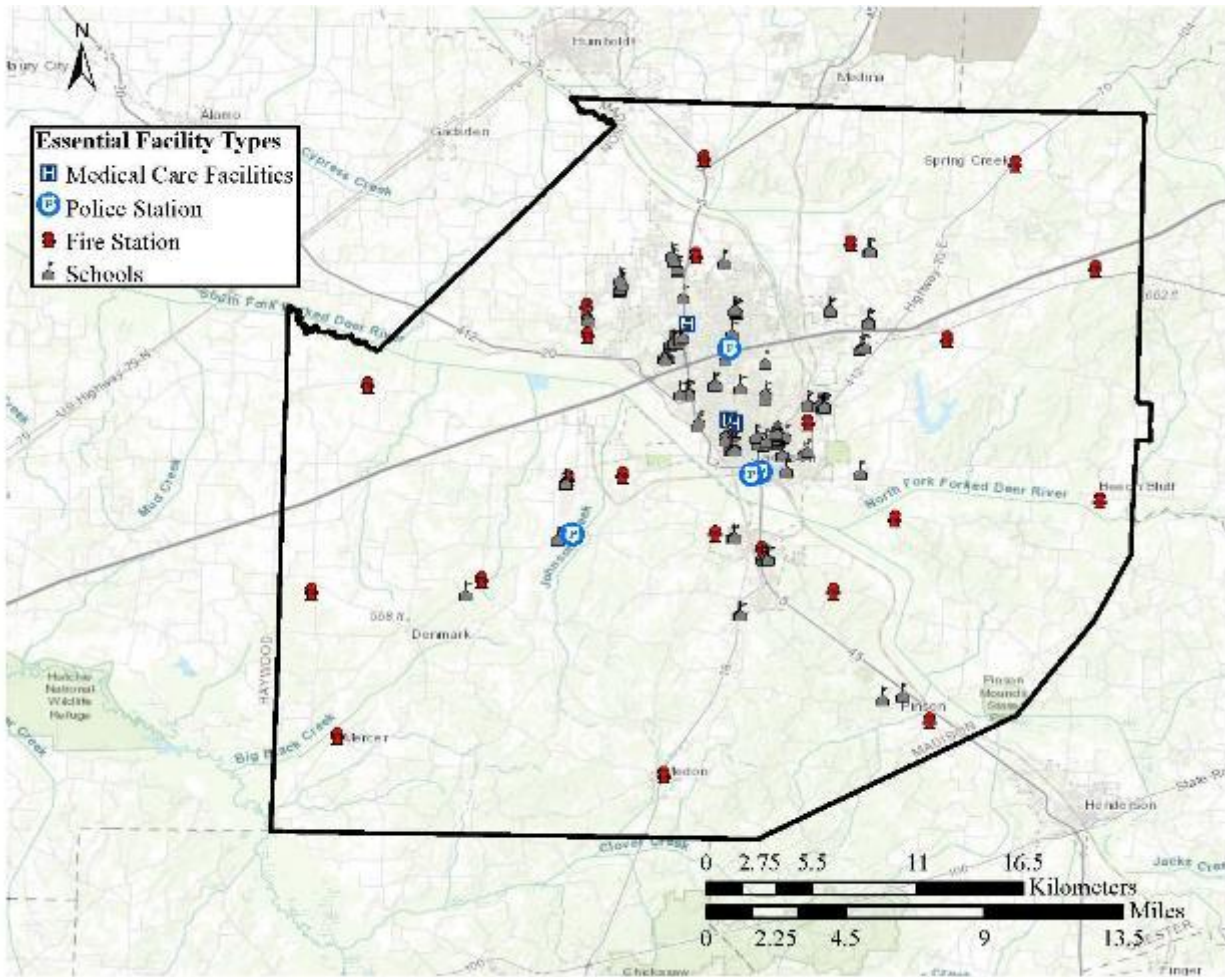


Figure 1.11 Site Locations of Essential Facilities, Madison County

1.6.5. Tipton County

Tipton County contains 62 essential facilities structures and 206 bridges, which can be seen in Figure 1.12 and Figure 1.13. Of the 60 essential facilities, 5 were hospitals, 36 were schools, 6 were police stations, and 13 were fire stations. Near 1,978,800 ft² of essential facilities were studied in Tipton County.

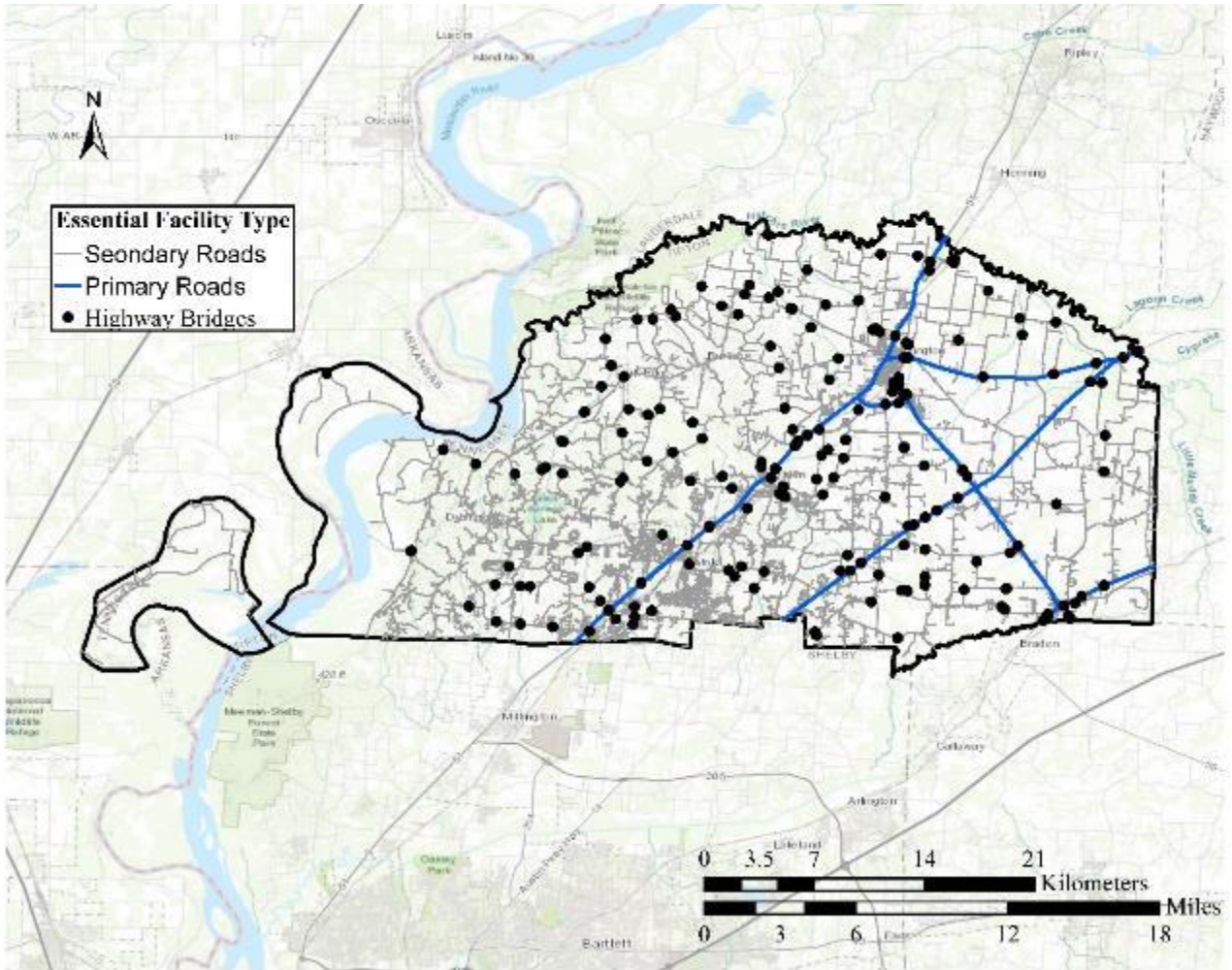


Figure 1.12 Bridges in relation to FAF3.4 Network, Tipton County

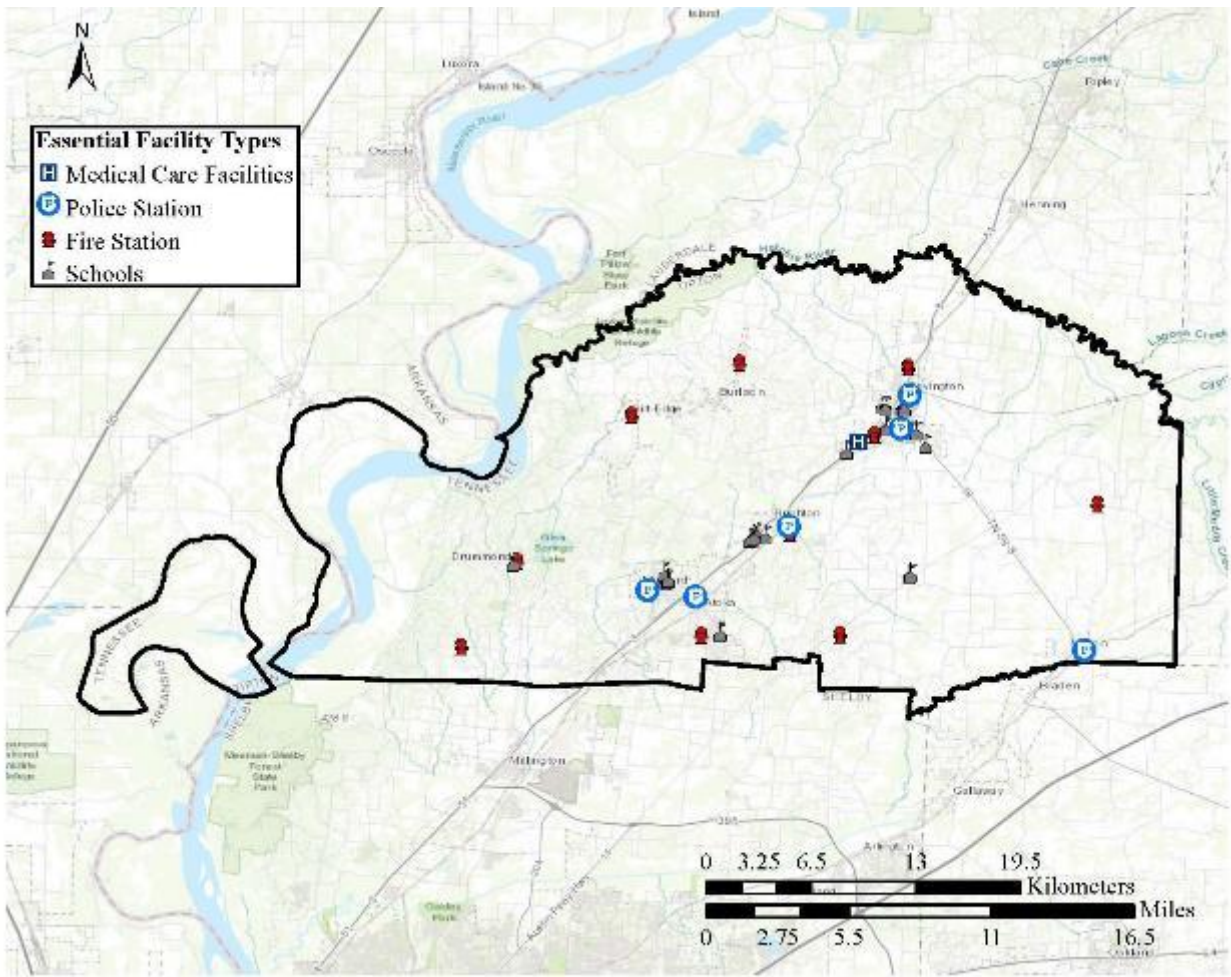


Figure 1.13 Site Locations of Essential Facilities, Tipton County

2. Literature Review

The completion of this study was done by referring to several different papers to help with comprehension and analysis. How to complete an RVS form and how to use the RVS results are explained in FEMA P-154 (2015) and FEMA P-155 (2015). Hazus-MH 5.1 was utilized in this study. The Hazus Earthquake Model User Guidance for Hazus-MH 5.1 (FEMA, 2022) and 4.2 (FEMA, 2019) were used. The most current Hazus Earthquake Model Technical Manual was for Hazus-MH 5.1, and 4.2 was used as a preparation guide.

2.1. FEMA P-154 and FEMA P-155

FEMA P-154 has guidance on how to plan and manage a successful rapid visual screening (RVS) program. There are two data collection forms described in FEMA P-154, which are level 1 and optional level 2. The level 2 data collection form should only be filled out by someone with more expertise in seismic background and design of buildings because level 2 requires more detailed information in most scenarios. The large number of facilities being assessed and not having detailed information in every case led this study to be solely conducted using level 1 data collection forms. FEMA P-154 provides informative information to fill out the level 1 form. FEMA P-154 describes the information that can be gathered before the site visit is conducted, such as location, seismicity, and soil type. FEMA P-154 also mentions the information that need to be collected during the site visit, such as vertical and plan irregularities, the number of stories, and the year built. It also mentions how to calculate the RVS score and discusses its significance.

2.2. Previous Studies

There were several papers that were used as a guide to conduct this study. Assessment of the Seismic Vulnerability of West Tennessee School Buildings (Assadollahi C. M., 2019), Statistical Assessment of the Seismic Vulnerability of Mid-South Building Structures (Assadollahi A. M., 2010), and Impact of Earthquakes on the Central USA MAE Center Report No. 08 (Elnashai et al., 2008) were all used as either guide for how to conduct this study or a form of comparing results. This study builds off the Assessment of the Seismic Vulnerability of West Tennessee School Buildings, where some schools were reincorporated in this study; however, in this study, structures were assessed in Hazus-MH 5.1 as Essential Facilities and Advanced Engineering Building Model.

3. Methodologies

3.1. Hazus-MH 5.1 Analysis

Hazus-MH 5.1 can analyze several types of natural disasters, such as earthquakes, floods, hurricanes, and tsunamis. This study is focused on the earthquake portion of the software. Hazus has a default inventory of types of buildings and facilities; Hazus divides the buildings/structures into seven categories: general building stock, essential facilities, high potential loss facilities, user-defined facilities, Advanced Engineering Building Module (AEBM), transportation systems, and utility systems. For this study, essential facilities, AEBM, and transportation systems were used.

Hazus-MH 5.1 is split between two different types of analysis, which are basic and advanced. The basic level is an analysis done using the baseline databases built into Hazus, and for the earthquake scenarios, a general source may be used, such as USGS shakemaps or probabilistic hazards. This study was considered an advanced analysis because local probabilistic ground motion data was used as well as building off of the baseline inventory provided by Hazus. The modification to the baseline inventory can be made in an Excel spreadsheet and then imported using the Comprehensive Data Management System (CDMS). Further descriptions of the different analysis levels can be found in Chapter 2 of the Hazus Earthquake Model User Guidance. Chapters 3 and 4 of the Earthquake Model User Guidance are great references for how to open a study region and conduct a basic level analysis.

Hazus requires certain information pertaining to each building and structure. Most of the information obtained in the RVS method can also be utilized in Hazus, but the building type needs to correspond to a building type provided in Table B.1. The structure type for bridges

should correspond with a structure type provided in Table B.3. Bridge information that helps classify the bridges and is used in the Hazus analysis is as follows:

- Seismic Design
- Number of spans: single vs. multiple span bridges
- Structure type: concrete, steel, and others
- Pier type: multiple column bents, single column bents, and pier walls
- Abutment type and bearing type: monolithic vs. non-monolithic, high rocker bearings, low steel bearings, and neoprene rubber bearings
- Span continuity: continuous, discontinuous (in-span hinges), and simply supported.
- Year built/remodeled, Length, Maximum Span length, Skew angle (FEMA, 2020a)

For the essential facilities in this study, the seismic design level needs to be determined. Using Table 3.1, along with the seismic zones provided in the 1994 Uniform Building Code, will help determine the seismic design level for each structure. For all structures built before 1941, the seismic design level is Pre-Code, and all other structures in this study were either Moderate-Code or Low-Code based on the location of the facility/structure.

Table 3.1 UBC Seismic Zone (FEMA, 2020a)

UBC Seismic Zone (NEHRP Map Area)	Post-1975	1941-1975	Pre-1941
Zone 4 (Map Area 7)	High-Code	Moderate-Code	Pre-Code
Zone 3 (Map Area 6)	Moderate-Code	Moderate-Code	Pre-Code
Zone 2B (Map Area 5)	Moderate-Code	Low-Code	Pre-Code
Zone 2A (Map Area 4)	Low-Code	Low-Code	Pre-Code
Zone 1 (Map Area 2/3)	Low-Code	Pre-Code	Pre-Code
Zone 0 (Map Area 1)	Pre-Code	Pre-Code	Pre-Code

The most common seismic design level encountered in the study region was Moderate-Code, then Low-Code, and Pre-Code, respectively. The number of structures under each seismic design level is provided in Table 3.2. About 54% of all the structures were Moderate-Code seismic design level, and Low-Code was about 39% of all essential facilities assessed in this study.

Table 3.2 Seismic Design Levels for Study Region Counties

Seismic Design Level	County				
	Dyer	Lake	Lauderdale	Madison	Tipton
Pre-Code	1	2	1	23	1
Low-Code	26	6	7	112	9
Moderate- Code	27	12	26	106	52

The next step in completing a Hazus analysis is selecting an earthquake scenario. Hazus allows three different types of earthquake ground shaking hazards. The three types are a deterministic hazard, a probabilistic hazard, and a user-supplied hazard. It is better to complete the analysis using a probabilistic hazard because deterministic is dependent on a certain scenario of an earthquake; therefore, the analysis is based on a certain earthquake which could favor some structures over others. If a deterministic study is completed, then the relevance of that study is

solely to that magnitude and earthquake location, whereas probabilistic hazards are based on the probability of a certain earthquake reoccurring over a specified time frame. This study used a user-supplied hazard and a probabilistic; ground motion data for a 2% in 50-year probability of exceedance (POE). Hazus requires user-supplied hazard maps for 0.3s spectral acceleration, 1.0s spectral acceleration, Peak Ground Velocity (PGV), and Peak Ground Acceleration (PGA). The probabilistic hazard within Hazus utilizes USGS hazard curves preprogrammed in the software, which are developed from USGS hazard maps. The corresponding maps can be found in USGS Data and CERI sections of this paper.

Fragility curves are defined by a median and a lognormal standard deviation (β). Fragility curves show the probability of a structure falling into a damaged state given a spectral displacement. Spectral displacement is for both structural and nonstructural damage for drift-sensitive components of a structure, whereas spectral acceleration is just nonstructural damage for acceleration-sensitive components of a structure. The probability of being in or exceeding a damaged state given a spectral displacement for structural damage can be calculated using Equation 1. Example figures of fragility curves with various β values and final fragility curves can be found in Assessment of the Seismic Vulnerability of West Tennessee School Buildings (Assadollahi C. M., 2019).

$$P(ds|d_s)=\Phi\left(\frac{1}{\beta}\ln\left(\frac{d_s}{\bar{d}_{s,ds}}\right)\right) \quad (1)$$

where:

$P(ds|d_s)$ = probability of a specific damage state for a given spectral displacement

ds = damage state (None, Slight, Moderate, Extensive, and Complete)

Φ = is the standard normal cumulative distribution function

β = is the standard deviation of the natural logarithm of spectral displacement

d_s = spectral displacement

$\bar{d}_{s,ds}$ = is the median value of spectral displacement at which the building reaches a particular damaged state

Ultimately the fragility curves are completed for each building type and for each category of damage: slight, moderate, extensive, and damage. Hazus develops fragility curves for each structure based on the building type and seismic design level. A general example of the fragility curves produced in the Hazus software can be seen in Figure 3.1.

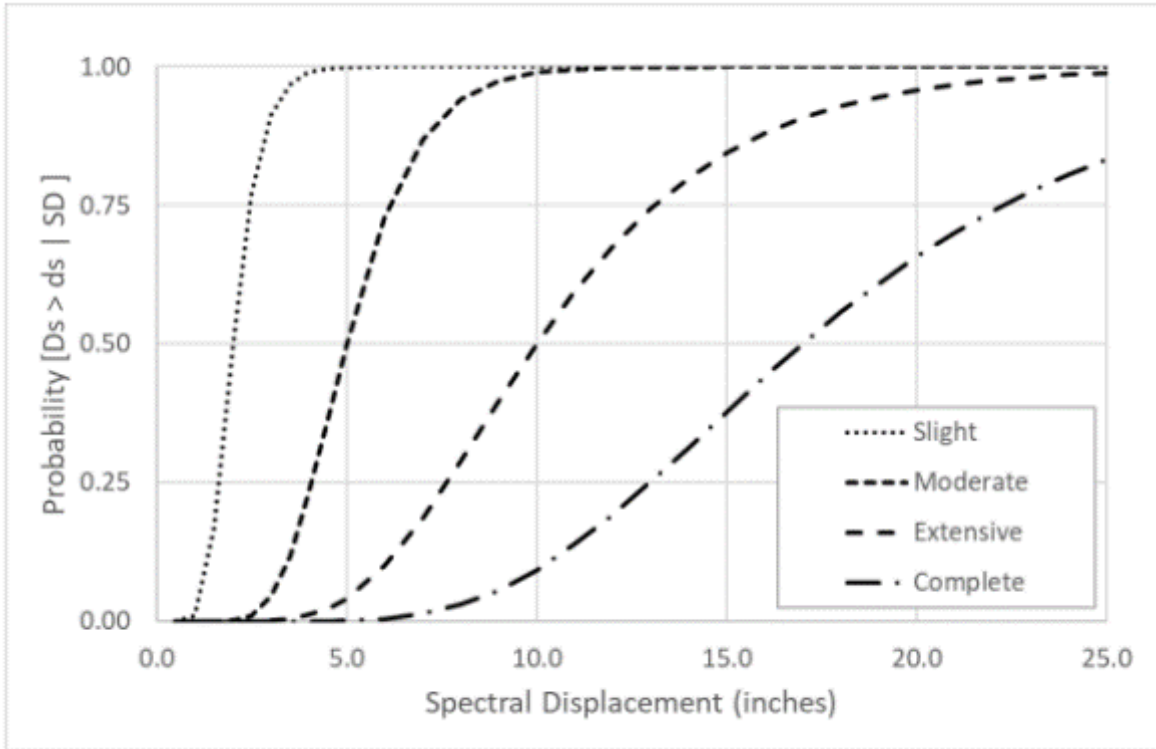


Figure 3.1 Example Fragility Curves for Essential Facilities (FEMA, 2022)

Bridges damage states and fragility curves are calculated using multiple equations and factors dependent on different aspect of each bridge. Each bridge had modification factors applied, and there are three types of modification factors that are applied. The first modification factor is due to bridge skewness, and the second is a shape factor based on the spectral accelerations at 0.3s and 1s. The Hazus technical manual further states, “The Kshape factor is the modifier that converts cases for short periods to an equivalent spectral amplitude at T=1.0 second. When $I_{shape} = 0$, the Kshape factor does not apply. When $I_{shape} = 1$, the Kshape factor applies” (FEMA, 2022). Note I_{shape} is defined for each bridge, which are provided in Table B.3 Hazus Bridge Classification (FEMA, 2020a). The third modification factor is referred to as the K_{3D} factor; there are a total of 7 different possible equation for the K_{3D} factor based on the bridge type. The Hazus technical manual mentions that the K_{3D} factor is to convert the bridges piers’ 2D

capacity for 3D arch action in the deck. Further explanations and example calculations done within the Hazus software can be found in Chapter 7.1.6 in Hazus Technical Manual 5.1. Examples of fragility curves for bridges can be seen in Figure 3.2 and Figure 3.3, and when the two figure are compared there is a notable difference in the probability of damage for a the same bridge type when it is conventionally designed versus when it is seismically designed. The determination of whether a bridge is seismically designed or not is determined by when the bridge was built/remodeled.

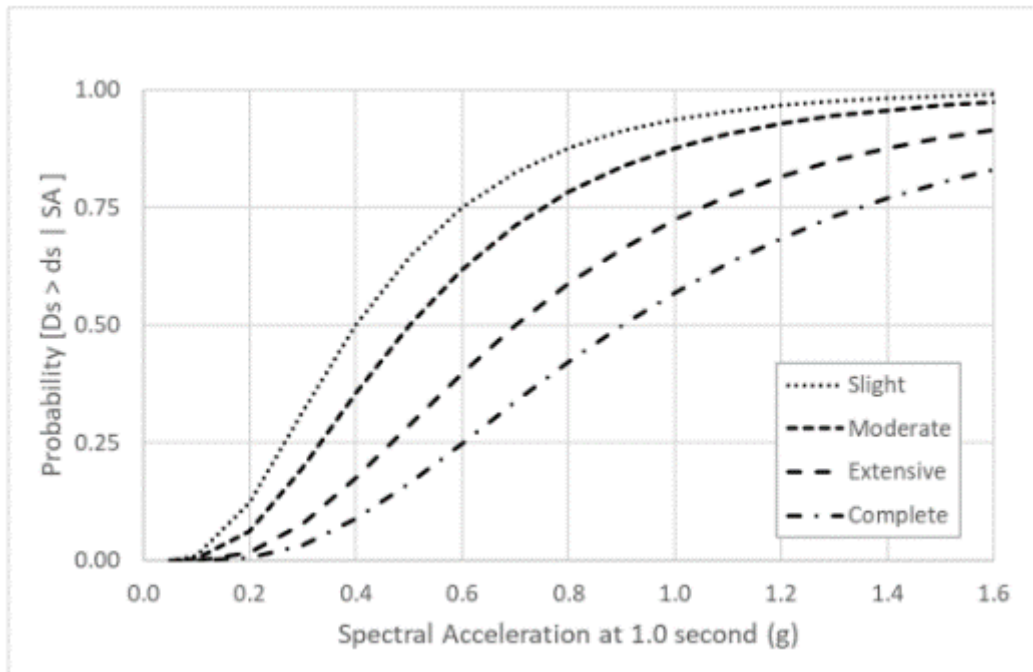


Figure 3.2 Fragility Curves for Conventionally Designed HWB1 (FEMA, 2022)

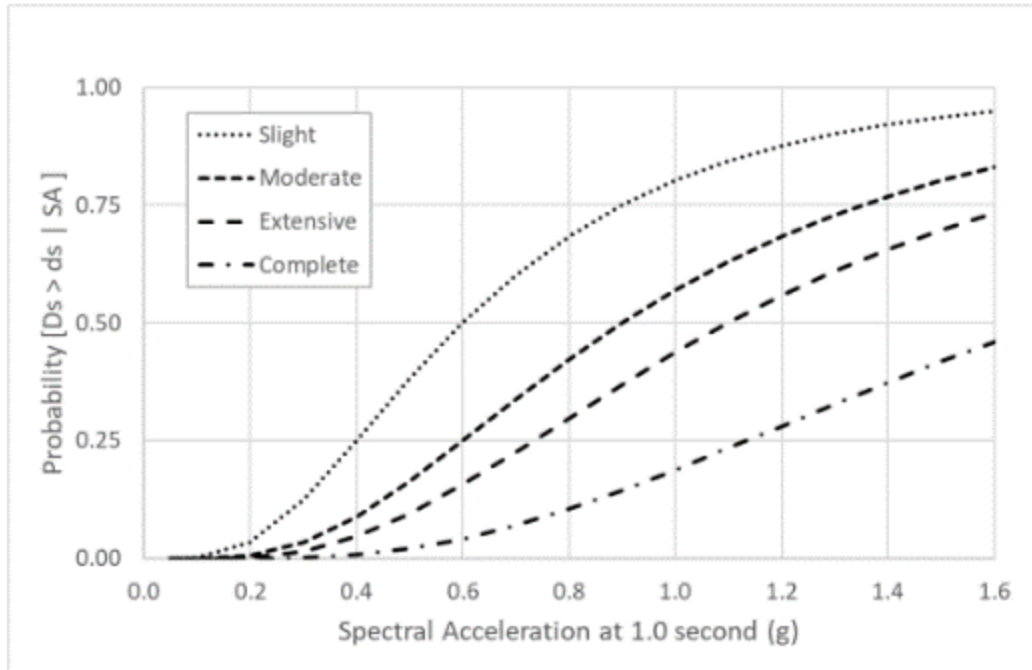


Figure 3.3 Fragility Curves for Seismically Designed HWB2 (FEMA, 2022)

For both bridges and essential facilities there are a total of 5 damage states, but only four damage states impact economic loss, functionality, and casualties. For essential facilities slight damage means small cracks at openings, like doors and windows, will occur. Moderate damage is large cracks in nonstructural components and small cracks in structural components. Extensive damage is associated with large cracks across structural components and permanent lateral movement in the structure. Complete damage is where the structure is collapse or near collapse, and all these damage states are illustrated in Figure 3.4. When the AEBM module is used the probability of damage states are separated into structural, nonstructural due to acceleration, and nonstructural due to drift. For bridges, slight damage is minor spalling and cracks, and moderate damage is when moderate cracks occur, approach settlement, or rocker bearing failure. Extensive damage is when the structure is unsafe but not collapse whereas complete damage is a collapsed bridge. Examples of the damage states for bridges can be seen in Figure 3.5. After the software

determines the probability of each damage states then the software calculates the building replacement cost (BRC) these calculation can be found in Chapter 11 of the Hazus Technical Manual 5.1. A similar process is done in the software to determine the damage ratio (DR) for bridges which is the equivalent of the BRC for bridges, these calculations can also be found in Chapter 11 of the Hazus Technical Manual 5.1. Immediate Occupancy Factor (IO) and Major Damage Factor (MD) are simply the addition of damage states, where IO is the addition of the none and slight damage state. MD is the addition of the extensive and complete damage states, and statistical graphs created with these factor can be seen in [Appendix I](#).

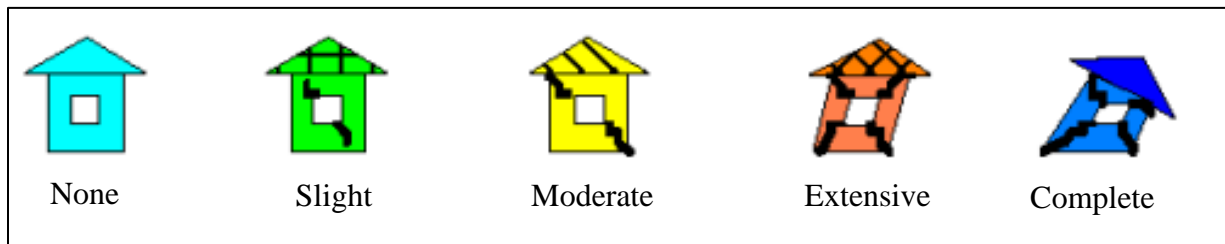


Figure 3.4 Essential Facility Damage States (FEMA, 2022)



Figure 3.5 Bridges Damage States

After probability of damage states are determined, then casualties due to essential facilities can be calculated within the software. There is a total of four different type of casualties levels:

- Severity 1 – requires basic medical attention
- Severity 2 – Injury requires medical attention but not life threatening
- Severity 3 – Immediate life-threatening condition
- Severity 4 – Killed or mortally injured

Equation 2 shows how the probability of each causality level is calculated. It is calculated by

multiplying certain factor against each damage state and adding those probabilities together. For the complete damage state, it separates between the probability of a causality happening if collapse occurs and if no collapse occurs as shown in Figure 3.6. Based on the type of analysis ran, this may alter the casualties results slightly. In the AEBM analysis, the number of occupants in that structure at the day and nighttime is entered and known, but if the user does not know the occupants of that structure then the software can default to using the census tract information prebuilt in the software along with predetermined factors to get an estimate amount of occupant in such facility. The software then output a total amount of casualties incurred for each level for the entire study region or county assessed. The number of occupants that have a certain causality level is calculated by equation 3.

$$P_{\text{causality}} = (P_A \times P_E) + (P_B \times P_F) + (P_C \times P_G) + P_D \times [(P_H \times P_J) + (P_I \times P_K)] \quad (2)$$

where:

$P_{\text{causality}}$ = probability that a certain causality level will occur

$P_{(A,B,C,D)}$ = probability of damage state (Slight, Moderate, Extensive, and Complete)

$P_{(E,F,G,H,J,I,K)}$ = probability of causality level given a particular damage state

$$EN_{\text{occupants}} = N_{\text{occupants}} \times P_{\text{causality}} \quad (3)$$

where:

$EN_{\text{occupants}}$ = Number of occupants causality level is inflicted on in facility

$P_{\text{causality}}$ = probability that a certain causality level will occur

$N_{\text{occupants}}$ = Number of occupants in facility

$P_{(E,F,G,H,I,K)}$ = probability of causality level given a particular damage state

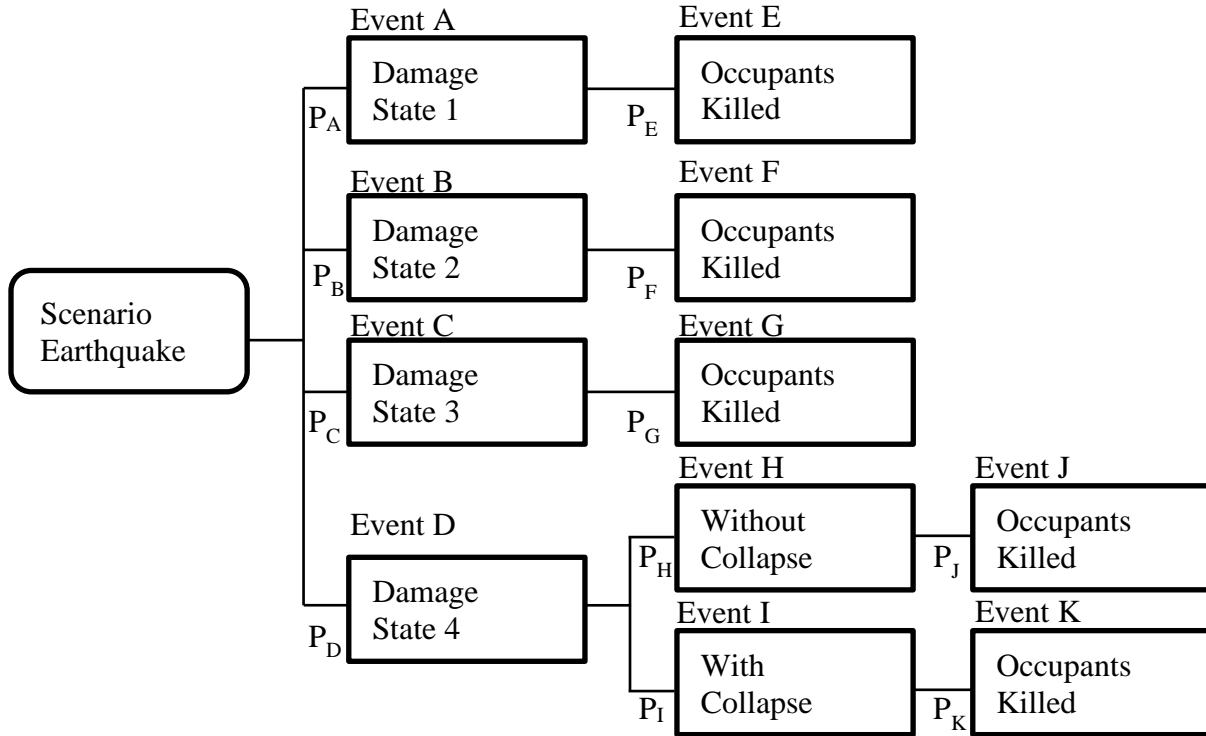


Figure 3.6 Casualty Tree for Fatalities (FEMA, 2022)

3.1.1. USGS Data

The 0.3s spectral acceleration, shown in Figure 3.7, for the USGS map is similar to what would have been used in the MAE Center Report (Elnashai et al., 2008). The USGS figure also shows what Hazus would use to produce hazard curves to determine probabilistic hazards.

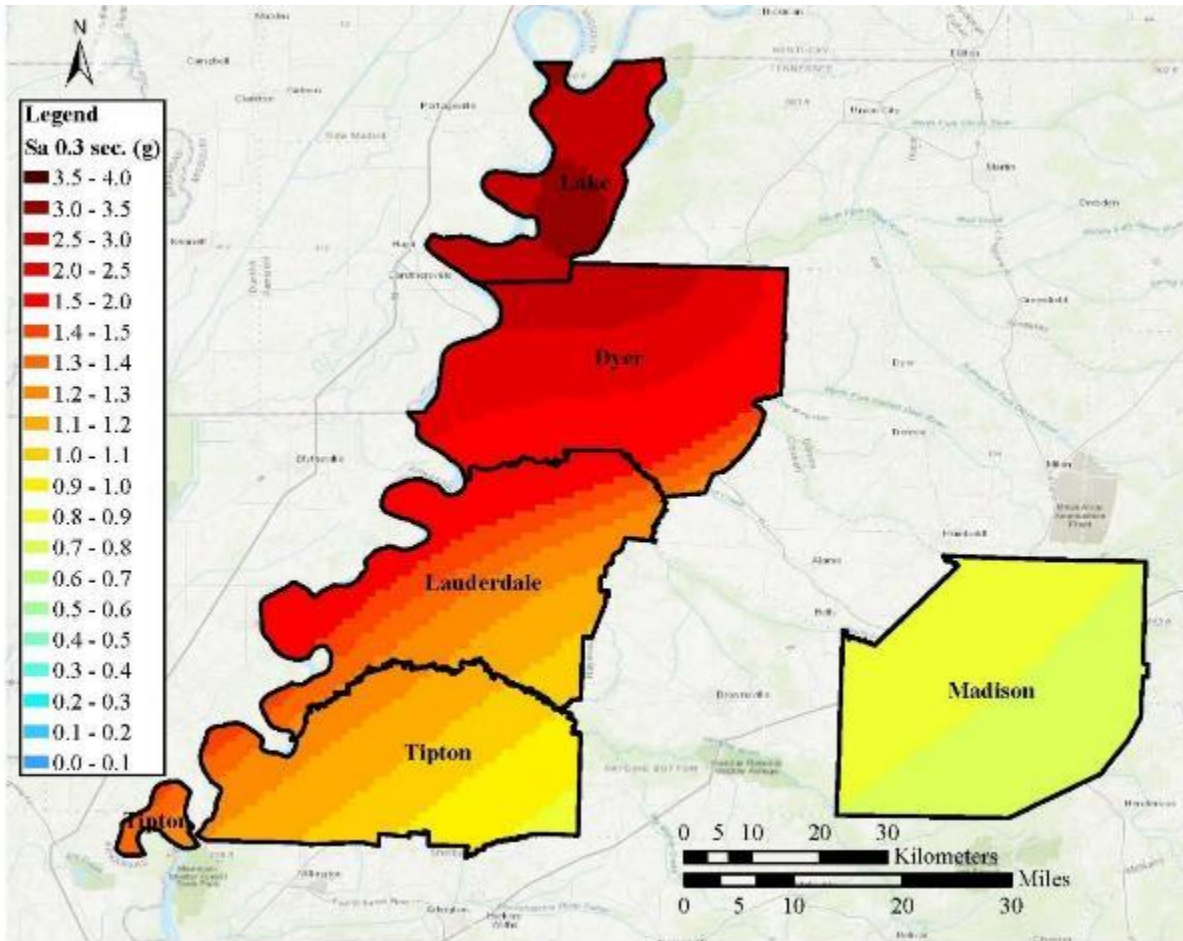


Figure 3.7 USGS S_a 0.3 sec for 2% in 50-year POE (2014)

The 1.0s spectral acceleration in Figure 3.8 for the USGS map is similar to what would have been used in the MAE Center Report (Elnashai et al., 2008). The USGS figure also shows what Hazus would use to produce hazard curves to determine probabilistic hazards.

The PGV map in Figure 3.9 for the USGS map is similar to what would have been used in the MAE Center Report (Elnashai et al., 2008). The USGS figure also shows what Hazus would use to produce hazard curves to determine probabilistic hazards.

The PGA in Figure 3.10 for the USGS map is similar to what would have been used in the MAE Center Report (Elnashai et al., 2008). The USGS figure also shows what Hazus would use to produce hazard curves to determine probabilistic hazards.

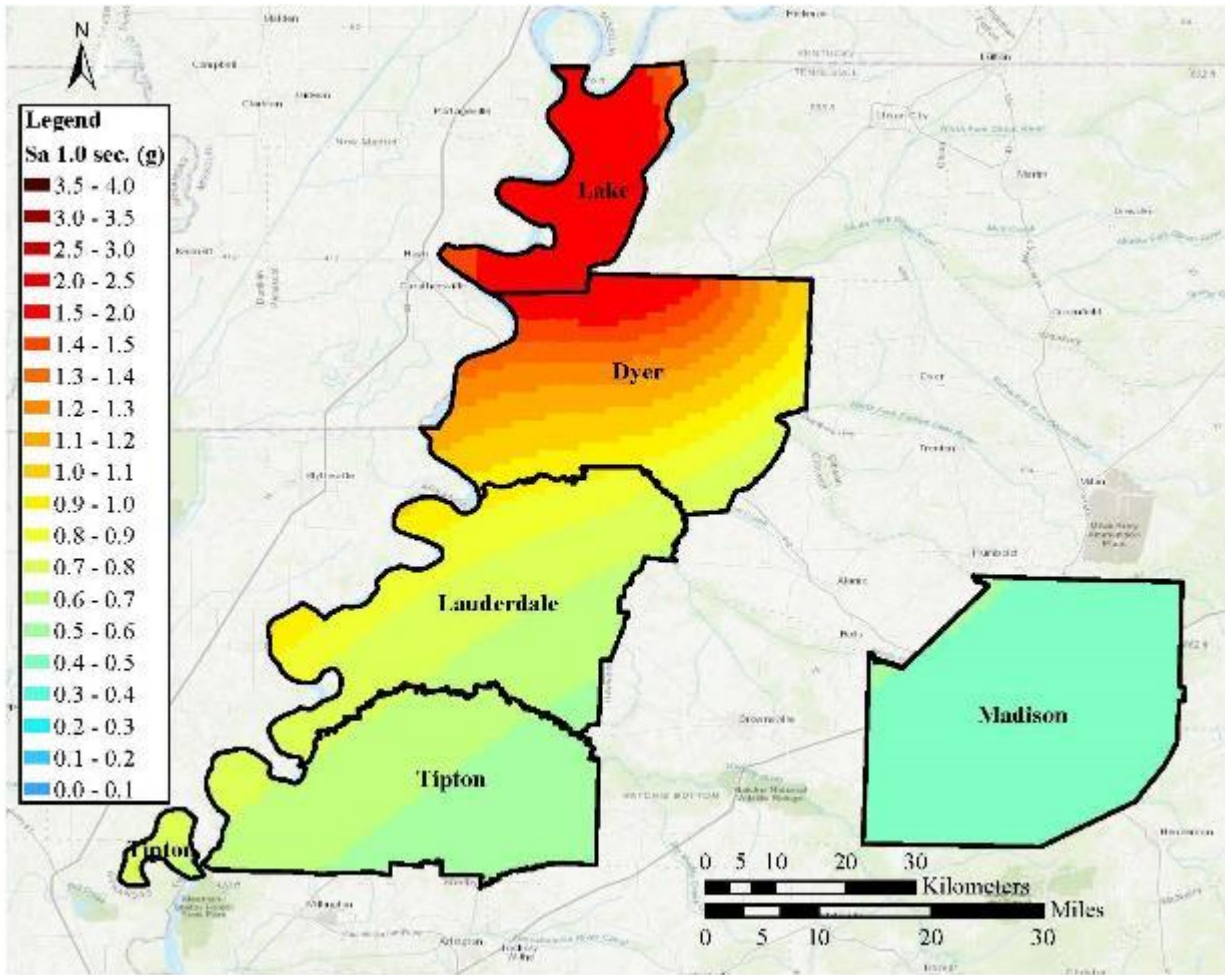


Figure 3.8 USGS S_a 1.0 sec for 2% in 50-year POE (2014)

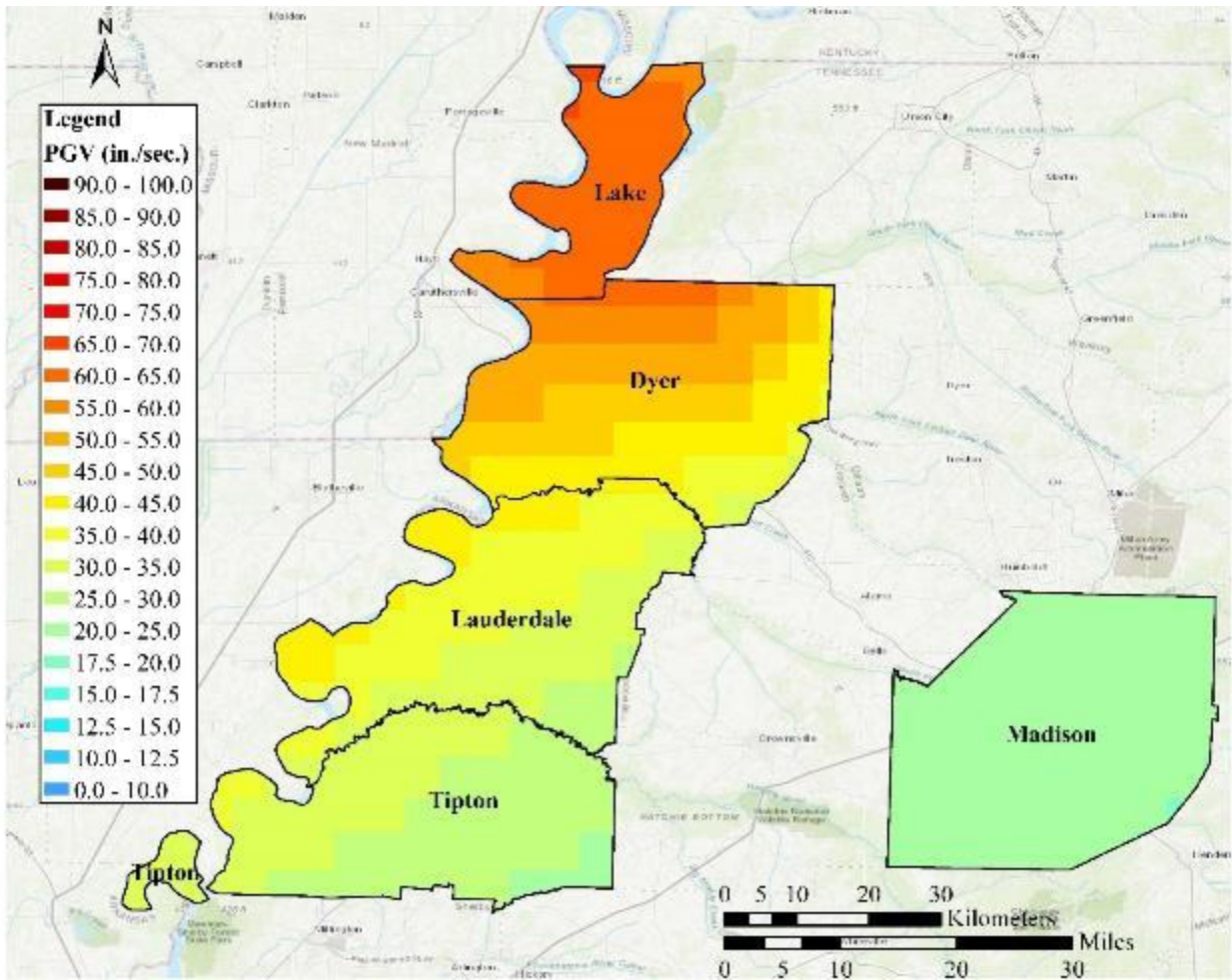


Figure 3.9 USGS PGV for 2% in 50-year POE (2014)

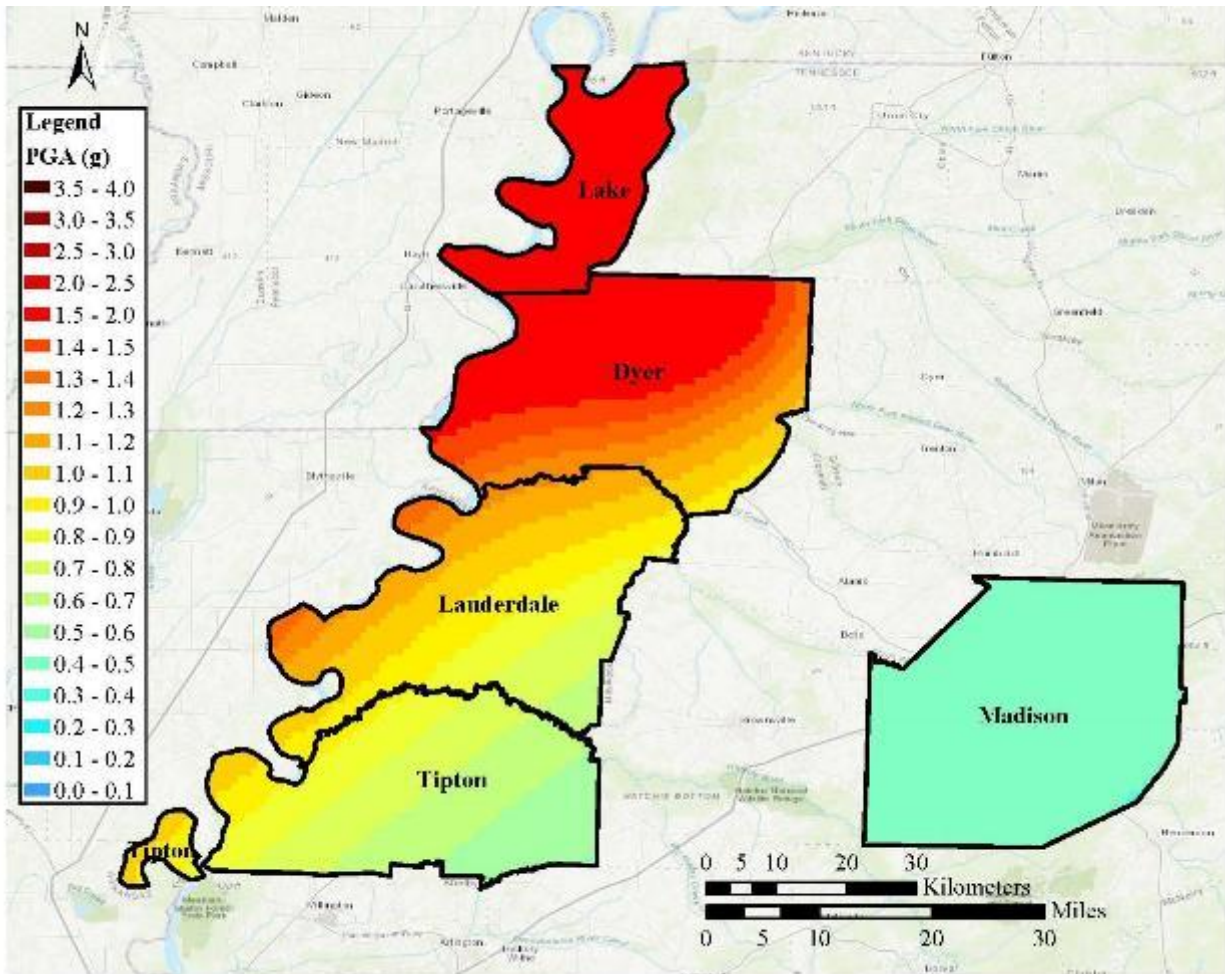


Figure 3.10 USGS PGA for 2% in 50-year POE (2014)

3.1.2. CERI Hazard Maps

Hazard maps developed by CERI group are hazard maps at the ground surface, which means, they have already include site effects.

Figure 3.11 shows the user-supplied 0.3s spectral acceleration utilized in this study. When the local 0.3s spectral acceleration is compared with the USGS map, most of Dyer, Lake, and Lauderdale counties studied experienced higher accelerations than the CERI map. The 0.3s spectral acceleration maps for each individual county can be seen in Appendix G.

Figure 3.12 shows the user-supplied 1.0s spectral acceleration utilized in this study. When the

local 1.0s spectral acceleration is compared with the USGS map, it can clearly be seen that almost every portion of the five counties experienced higher accelerations than the USGS map.

1.0s spectral acceleration maps for each individual county can be seen in Appendix G.

Figure 3.13 shows the user-supplied PGV utilized in this study. When the local PGV is compared with the USGS map, it can be seen that the USGS map is very close to what was produced locally except for Lake County. The PGV map was the only one that most closely represented what was produced locally. PGV maps for each individual county can be seen in Appendix G.

Figure 3.14 shows the user-supplied PGA utilized in this study. When the local PGA is compared with the USGS map, it can clearly be seen that almost every portion of the five counties studied experienced lower accelerations than in the USGS map; therefore, the USGS maps were more conservative in this case. PGA spectral acceleration maps for each individual county can be seen in Appendix G.

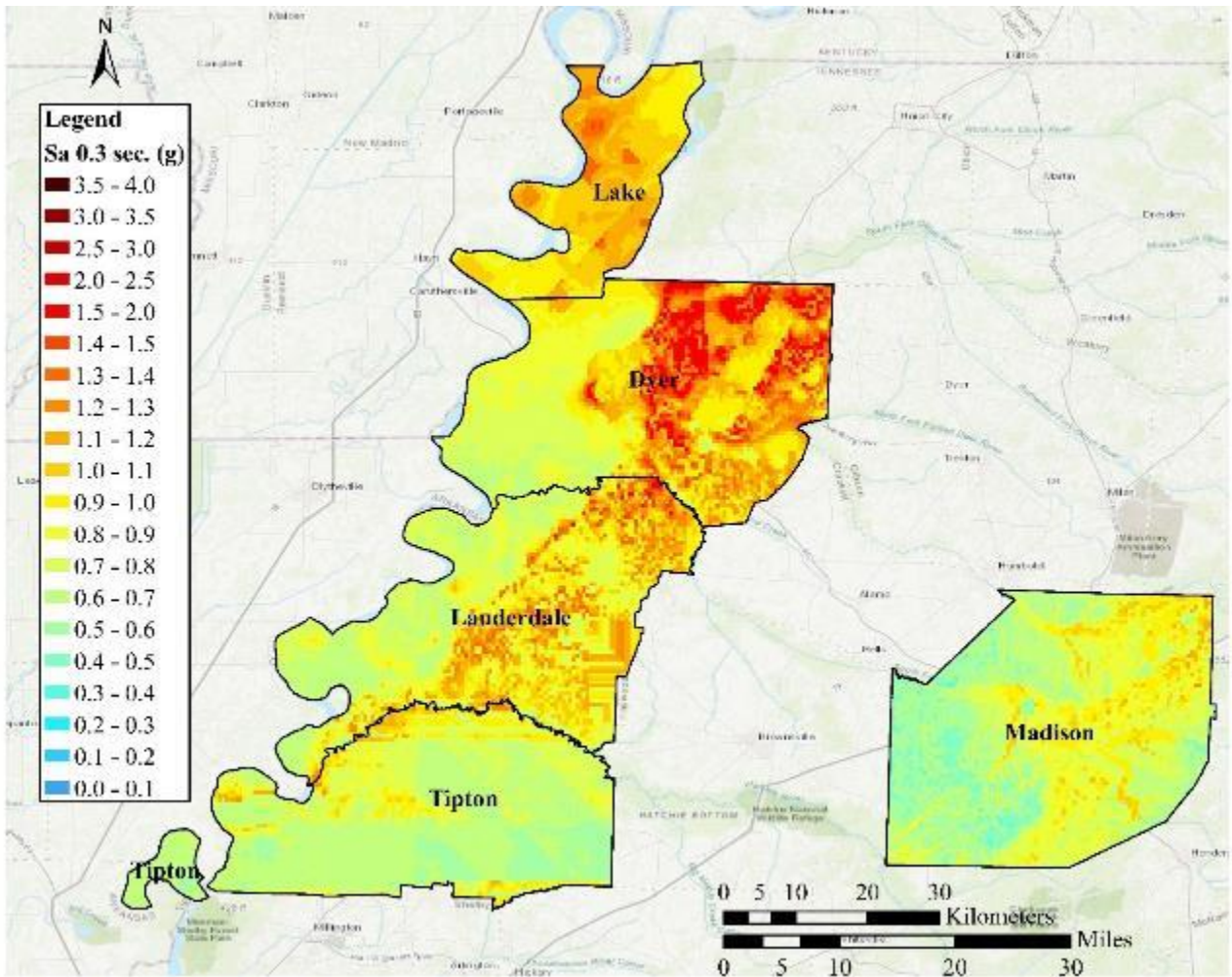


Figure 3.11 University of Memphis CERl Sa 0.3 sec. for 2% in 50-year POE

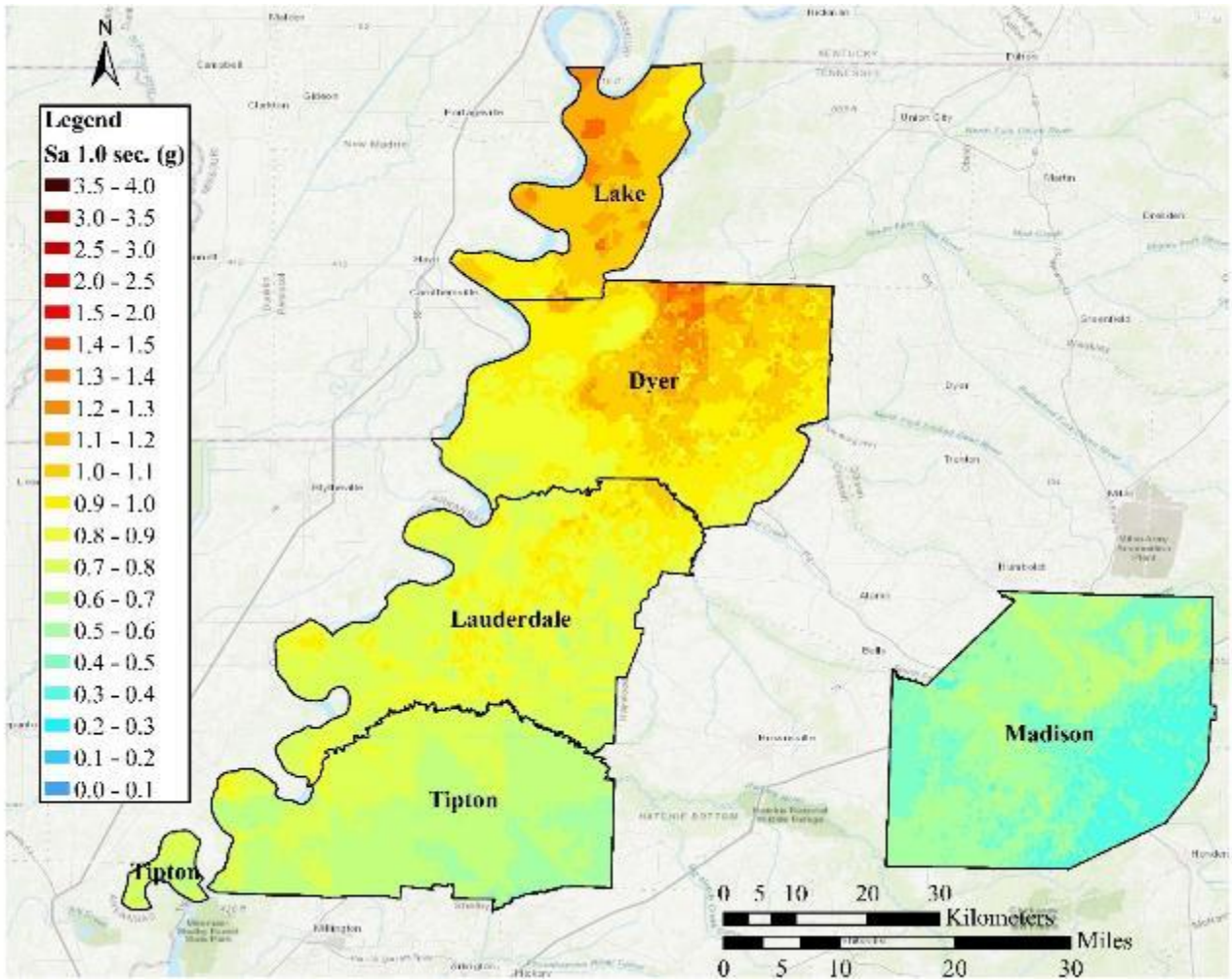


Figure 3.12 University of Memphis CERl Sa 1.0 sec. for 2% in 50-year POE

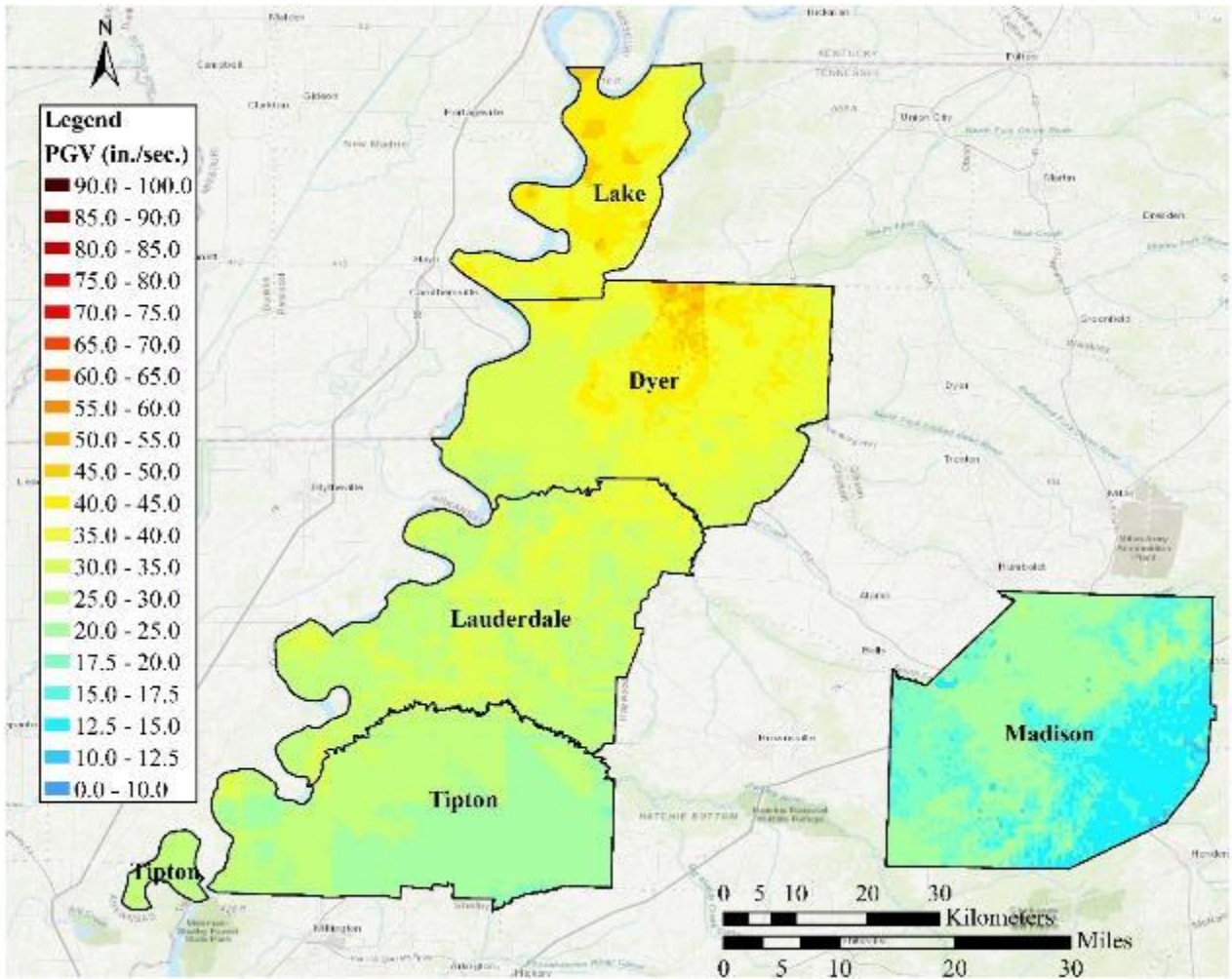


Figure 3.13 University of Memphis CERl PGV for 2% in 50-year POE

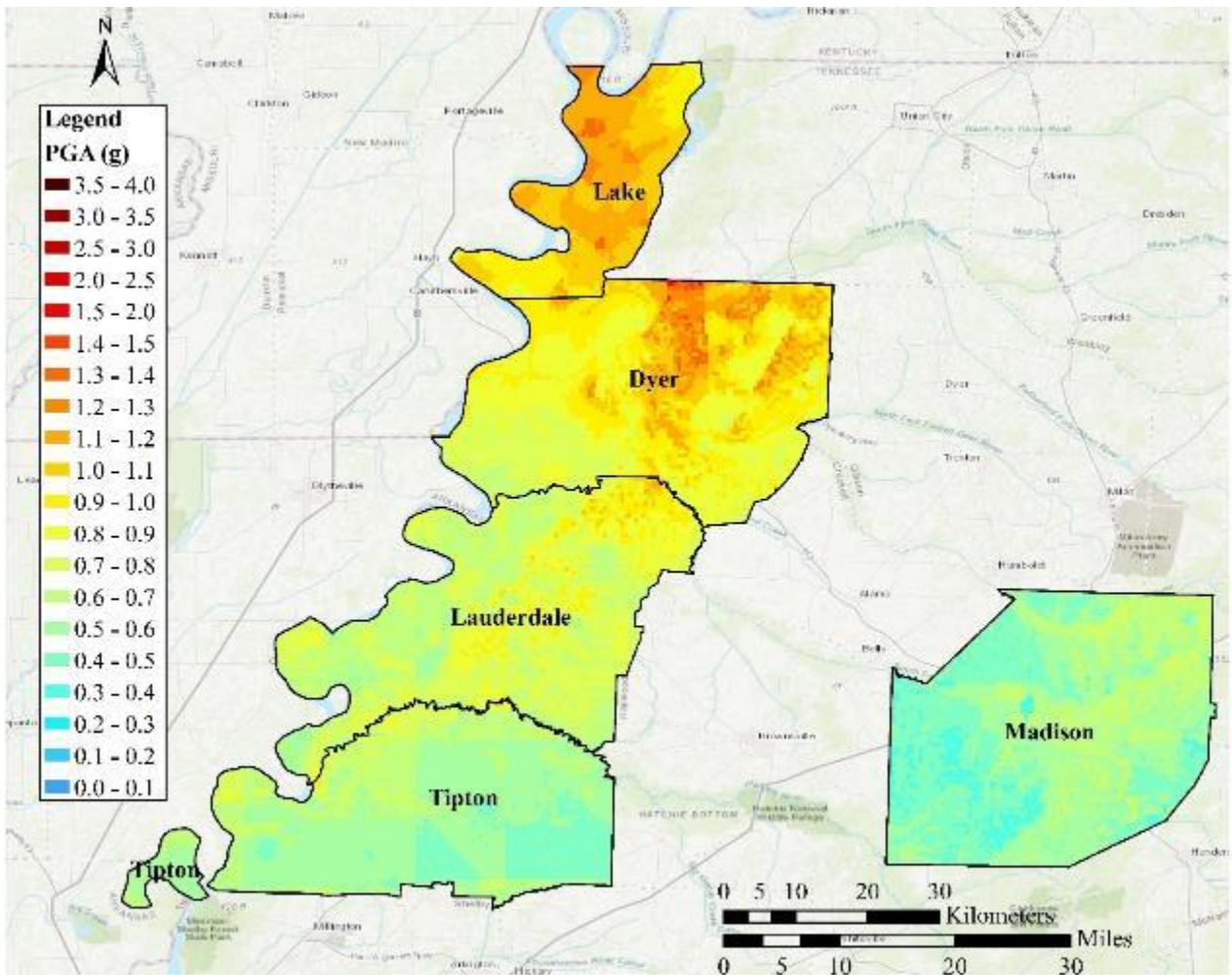


Figure 3.14 University of Memphis CERl PGA for 2% in 50-year POE

3.1.3. Updated TN Inventory, Including Bridges

All the Inventory was updated using the CDMS software that is part of the Hazus software. Data collected from the RVS method was used for essential facilities and the bridges were updated using the TDOT bridge reports on the website previously described. The inventories updated into the CDMS software are provided in Appendix C.

3.2. Rapid Visual Screening (RVS)

The intention of this section is to highlight key aspects of the RVS, and it is important to note that results produced from the RVS method determines if a structure is hazardous or non-hazardous. Once a study site is selected, the latitude and longitude are determined. Soil type classification was determined from USGS (2007) [V_{s30} Map Viewer \(arcgis.com\)](http://arcgis.com) using the latitude and longitude and the extracted shear wave velocity at 30 meters, V_s^{30} . This was achieved using the “extract to values” tool found under the spatial analyst toolbox in ArcMap. Once the shear wave velocity is determined then, the soil classification can be found using Table 3.3 and Table 3.4.

If for some reason, the shear wave velocity was not attainable, the soil type can be found by using USGS soil classification by slope ranges of tectonic plates (active or stable) or FEMA soil classification by using blow counts or undrained shear strength in the upper 100 ft. of soil.

Table 3.3 Soil Type Classifications V_s^{30} (USGS, 2007)

Class	V_s^{30} range (m/s)	Slope range (m/m) – (active tectonic)	Slope range (m/m) – (stable continent)
E	<180	<1.0E-4	<2.0E-5
D	180–240	1.0E-4–2.2E-3	2.0E-5–2.0E-3
	240–300	2.2E-3–6.3E-3	2.0E-3–4.0E-3
	300–360	6.3E-3–0.018	4.0E-3–7.2E-3
C	360–490	0.018–0.050	7.2E-3–0.013
	490–620	0.050–0.10	0.013–0.018
	620–760	0.10–0.138	0.018–0.025
B	>760	>0.138	>0.025

Table 3.4 Soil Type Classifications V_s^{30} (FEMA P-154, 2015)

Soil Type/Site Class	Shear Wave Velocity ¹ , V_s^{30}	Standard Blow Count ¹ , N	Undrained Shear Strength of the upper 100ft ¹ , S_u
A. Hard Rock	$V_s^{30} > 5000$ ft/s	N/A	N/A
B. Rock	2500 ft/s $< V_s^{30} < 5000$ ft/s	N/A	N/A
C. Very Dense Soil and Soft Rock	1200 ft/s $< V_s^{30} < 2500$ ft/s	$N > 50$	$S > 2000$ psf
D. Stiff Soil	600 ft/s $< V_s^{30} < 1200$ ft/s	$15 < N < 50$	1000 psf $< S_u < 2000$ psf
E. Soft Clay Soil	$V_s^{30} \leq 600$ ft/s	$N < 15$	$S_u < 1000$ psf
	More than 10 feet of soft soil with plasticity index, $PI > 20$, water content, $w > 40\%$, and $S_u < 500$ psf		
F. Poor Soil	Soils Requiring Site-Specific Evaluations <ul style="list-style-type: none"> ➤ Soils vulnerable to potential failure or collapse under seismic loadings, such as liquefiable soils, quick and highly sensitive clays, and collapsible weakly-cemented soils. ➤ Thicker than 10 feet of peat or highly organic clay ➤ Very high plasticity clays (25 feet with $PI > 75$). More than 120 feet of soft or medium stiff clays		

¹ Average values

The next step in gathering information for the RVS form is determining the seismicity region. The seismicity region is determined using Table 3.5 and values for the short and long period spectral acceleration response for each site. Those accelerations can be determined using the following website: [ATC Hazards by Location \(atcouncil.org\)](http://atcouncil.org) (Applied Technology Council, 2017). ATC has several options for code reference, such as ASCE, NEHRP, and IBC; however, FEMA P-154 states the design code should be referenced to 2013 ASCE 41, but 2017 ASCE 41 is available currently and can also be utilized. Values for S_s , short-period spectral acceleration, and S_1 , long-period spectral acceleration, can be retrieved using site coordinates and soil classification. The spectral response used should correspond with the BSE-2N earthquake hazard level. Once the S_s and S_1 values are obtained, the seismicity region can then be determined using Table 3.5, and for every seismicity region is an individual RVS form. Therefore, there are 5 different RVS forms but only three were used in this study Figure 3.15 shows the general trend of seismicity in the five-county study areas due to the New Madrid fault. As shown in Figure

3.15, the seismicity in West Tennessee decreases from very high in the northwest to moderately high in the southeast.

Table 3.5 Seismicity Region Determination from MCER Spectral Acceleration Response (FEMA P-154, 2015)

Seismicity Region	Spectral Acceleration Response, S_s (short-period, or 0.2 seconds)	Spectral Acceleration Response, S_l (long-period, or 1.0 second)
Low	$S_s < 0.250g$	$S_l < 0.250g$
Moderate	$0.250g \leq S_s < 0.500g$	$0.250g \leq S_l < 0.500g$
Moderately High	$0.500g \leq S_s < 1.000g$	$0.500g \leq S_l < 1.000g$
High	$1.000g \leq S_s < 1.500g$	$1.000g \leq S_l < 1.500g$
Very High	$S_s \geq 1.500g$	$S_l \geq 1.500g$

Notes: g = acceleration of gravity in the horizontal direction

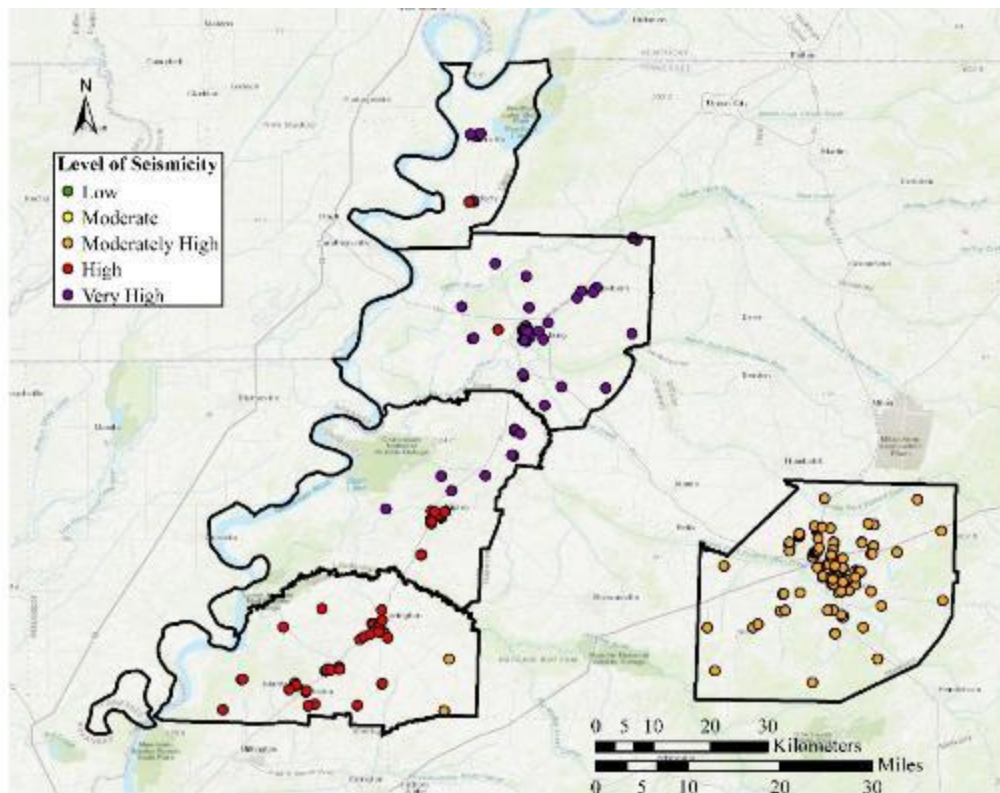


Figure 3.15 Level of Seismicity of Essential Facilities Across the Study Region

Figures 3.16, 3.17, 3.18, 3.19, 3.20 show all the essential facilities structures with their level of seismicity for Dyer, Lake, Lauderdale, Madison, and Tipton Counties. The following observations are made based on these figures:

Dyer County: Of the 54 structures, 53 were very high seismicity, and 1 structure was high seismicity. The 53 very high seismicity structures include 6 hospitals, 26 schools, 17 fire stations, and 4 police stations. In addition, there was one school with a high seismicity level.

Lake County: Of the 20 structures, 16 were very high seismicity, and 4 structures were high seismicity. The 16 very high seismicity structures included 12 schools, 2 fire stations, and 2 police stations. The 4 high seismicity structures included 1 school and 3 police stations.

Lauderdale County: Of the 34 essential facility structures, 14 were very high seismicity, and 20 structures were high seismicity. The 14 very high seismicity structures include 7 schools, 5 fire stations, and 2 police stations. The 20 high seismicity structures included 3 hospitals, 9 schools, 3 fire stations, and 5 police stations.

Madison County: All 241 structures have moderately high seismicity. The 241 moderately high seismicity structures included 3 hospitals, 201 schools, 29 fire stations, and 8 police stations.

Tipton County: Of the 62 structures, 1 was very high seismicity, 56 were high seismicity, and 5 were moderately high seismicity. The 56 high seismicity structures included 5 hospitals, 36 schools, 11 fire stations, and 4 police stations. The 5 moderately high seismicity structures included 2 schools, 2 fire stations, and 1 police station. The 1 very high seismicity structure was a police station.

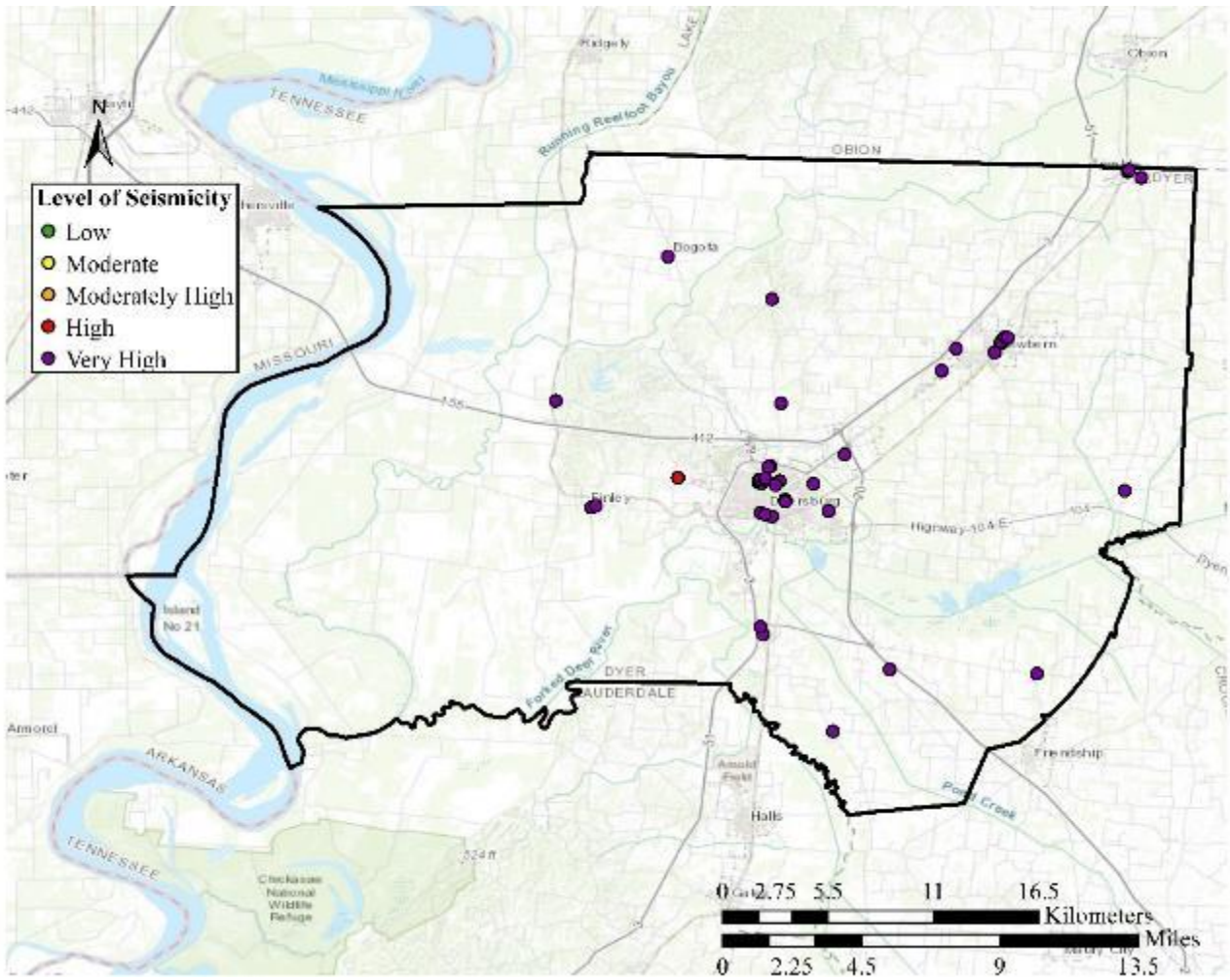


Figure 3.16 Level of Seismicity of Essential Facilities, Dyer County

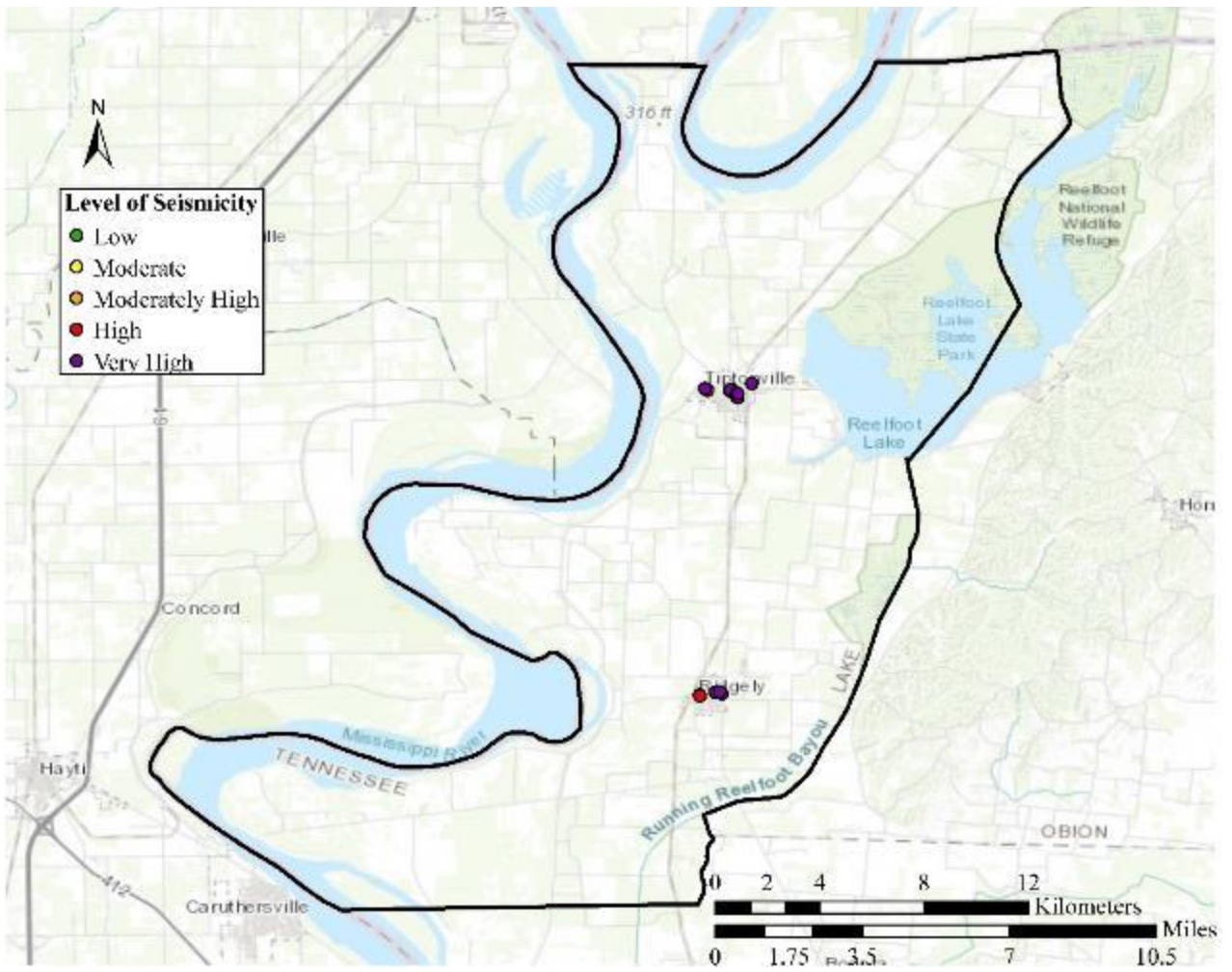


Figure 3.17 Level of Seismicity of Essential Facilities, Lake County

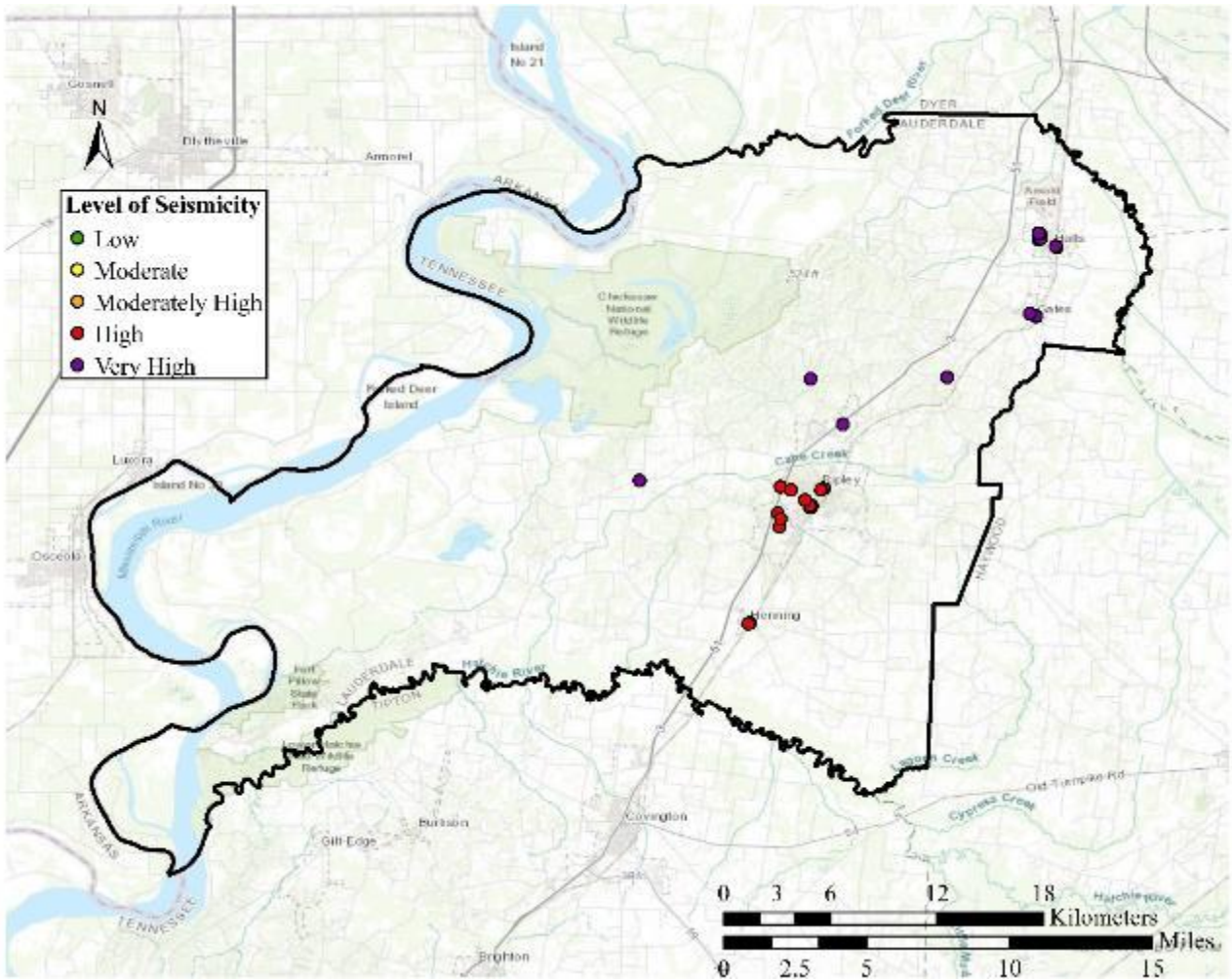


Figure 3.18 Level of Seismicity of Essential Facilities, Lauderdale County

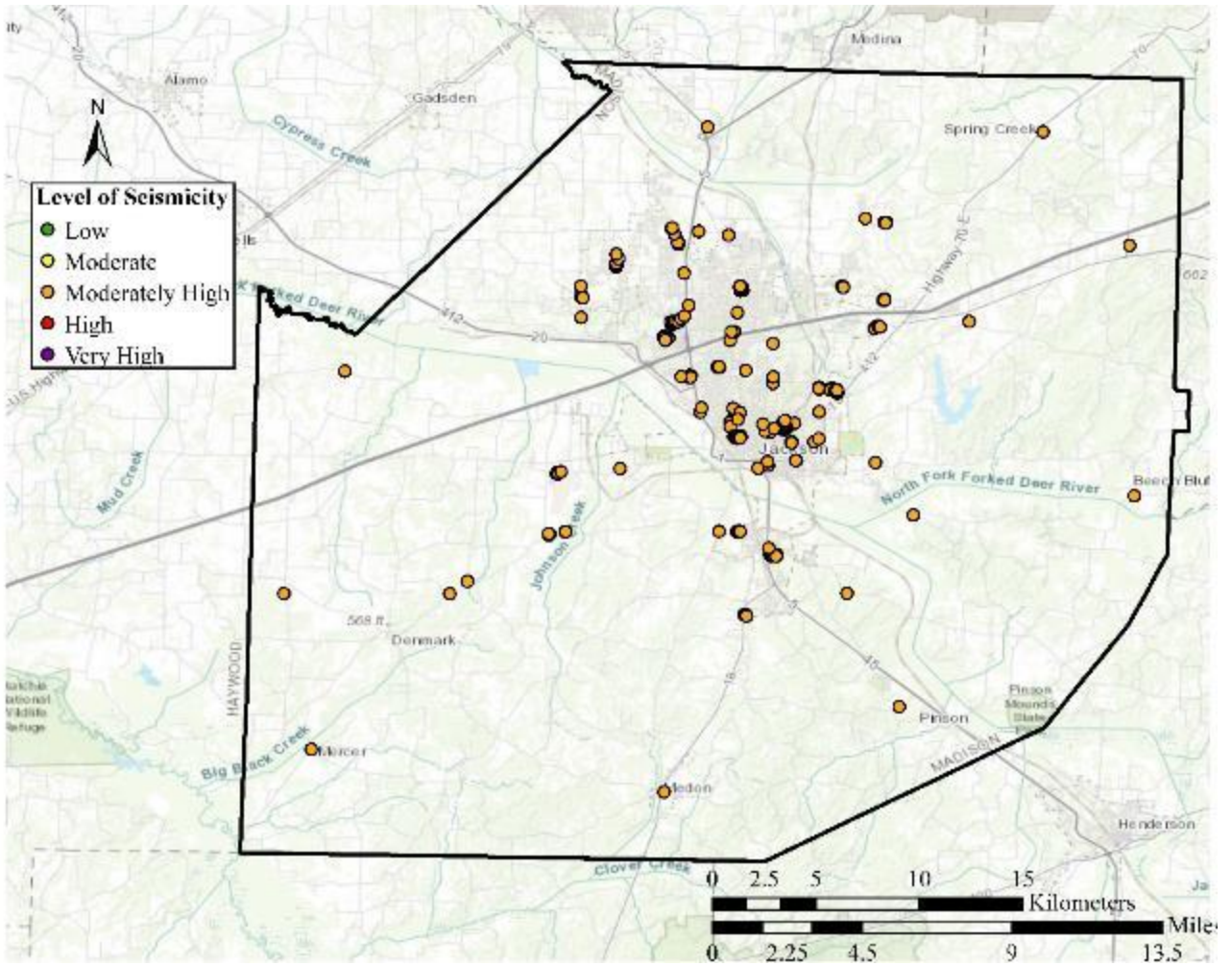


Figure 3.19 Level of Seismicity of Essential Facilities, Madison County

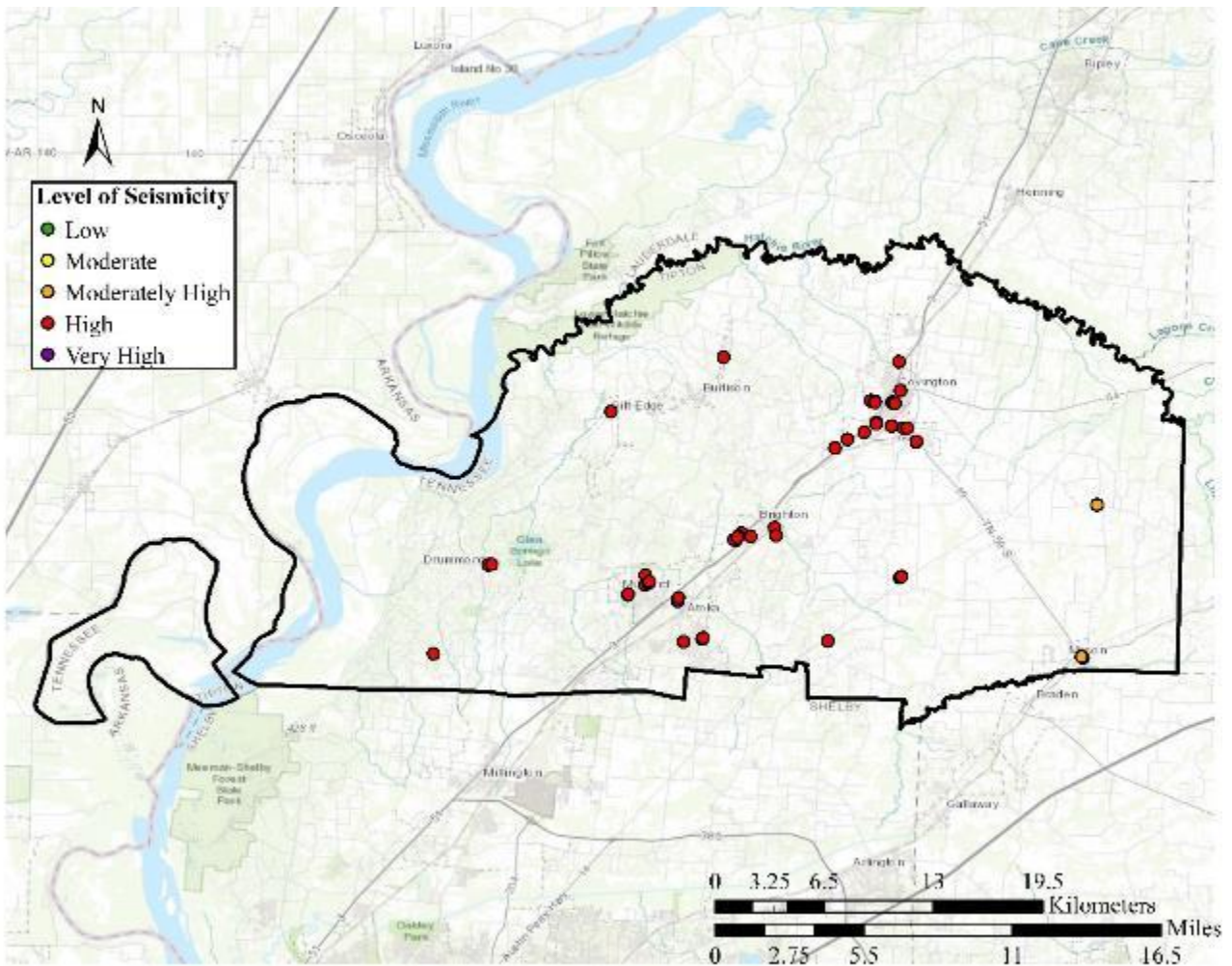


Figure 3.20 Level of Seismicity of Essential Facilities, Tipton County

The second step in completing the RVS methodology is visiting the site and gathering data such as building type, vertical irregularity, plan irregularity, and year built. Sometimes detailed information like building type and the year the building was built can be found using the following link: [Tennessee Property Data Home Page \(tn.gov\)](https://www.tn.gov/revenue/property-data/) (State of Tennessee Comptroller of the Treasury, 2022). Year built can be obtained through either the building maintenance personnel or county officials. The year built is important because it affects the score modifier. If the year the structure was built is before the code year, then the score modifier, S_m , gets modified by the pre-code value, S_{pc} , which either does not impact or negatively impacts the score.

However, if the building was built on or after the code year, then S_m is either not impacted or positively impacted based on the building type. The modification score is known as the post-benchmark score, S_{pb} . For this study, 1991 was used as both the benchmark and code year because West Tennessee only has a code year (Mize, 2006).

Descriptions of building types and their classification are included in Appendix B, Table B.2; there are 17 different building classifications that can be used for the RVS method. These classifications include common building materials such as wood, steel, concrete, and masonry. Descriptions to help identify buildings can be found in FEMA P-154 Section 3.14 (FEMA P-154, 2015). Table 3.6 provides the number of structures in each building type by essential facility classification.

Table 3.6 FEMA Building Types Encountered in Study

FEMA Building Type	Number of Structures				
	Hospitals	Schools	Fire Stations	Police Stations	All
W1	0	9	10	2	21
W1A	0	0	0	0	0
W2	0	1	0	0	1
S1	1	4	3	0	8
S2	0	6	6	0	12
S3	6	48	15	3	72
S4	0	0	0	0	0
S5	3	21	2	1	27
C1	0	4	0	0	4
C2	0	1	1	0	2
C3	1	15	0	1	17
PC1	0	0	0	0	0
PC2	0	2	0	0	2
RM1	6	111	32	20	169
RM2	0	4	0	0	4
URM	0	68	1	3	72
MH	0	0	0	0	0

Table 3.7 lists the percentages of each building type for all the essential. For example, for the W1 building type, 42.9% were schools, 47.6% were fire stations, and 9.5% were police stations. Of the 17 available building classifications, 13 were assessed. Of those assessed building types, at least 50% were schools. The most common building type encountered was RM1 at 41.1%, and following that were S3 and URM at 17.5%.

Table 3.7 FEMA Building Types Encountered in Study, Percentages

FEMA Building Type	Percent of Structures				
	Hospitals	Schools	Fire Stations	Police Stations	All
W1	0.0%	42.9%	47.6%	9.5%	5.1%
W1A	-	-	-	-	-
W2	0.0%	100.0%	0.0%	0.0%	0.2%
S1	12.5%	50.0%	37.5%	0.0%	1.9%
S2	0.0%	50.0%	50.0%	0.0%	2.9%
S3	8.3%	66.7%	20.8%	4.2%	17.5%
S4	-	-	-	-	-
S5	11.1%	77.8%	7.4%	3.7%	6.6%
C1	0.0%	100.0%	0.0%	0.0%	1.0%
C2	0.0%	50.0%	50.0%	0.0%	0.5%
C3	5.9%	88.2%	0.0%	5.9%	4.1%
PC1	-	-	-	-	-
PC2	0.0%	100.0%	0.0%	0.0%	0.5%
RM1	3.6%	65.7%	18.9%	11.8%	41.1%
RM2	0.0%	100.0%	0.0%	0.0%	1.0%
URM	0.0%	94.4%	1.4%	4.2%	17.5%
MH	-	-	-	-	-

One of the other score modifiers is structural irregularities. The RVS method categorizes irregularities into three categories, which are Severe Vertical Irregularity, V_{LIS} , Moderate Vertical Irregularity, V_{LIM} , and Plan Irregularity, P_{LI} . Vertical irregularity was not very common since most structures were 1-1.5 stories tall. Vertical irregularity is defined into six categories in FEMA P-154, which are: sloping site, weak and/or soft story, out-of-plane setback, in-plane

setback, short column/pier, and split levels. An example of soft story encountered in one of the site visits conducted can be seen in Figure 3.21, and an example of out-of-plane setback encountered can be seen in Figure 3.22.



Figure 3.21 Soft Story Vertical Irregularity from Site Visit



Figure 3.22 Out-of-Plane Setback Vertical Irregularity from Site Visit

FEMA P-154 further explains these categories in Chapter 3 and what could distinguish the irregularity as severe rather than moderate. Plan irregularity is defined into five categories: torsion, non-parallel systems, reentrant corners, diaphragm openings, and beams that do not align with columns. An example of plan irregularity encountered in one of the site visits conducted can

be seen in Figure 3.23.



Figure 3.23 Plan Irregularity from Site Visit

It is important to note that if a structure has more than 1 type of irregularity, whether plan or vertical, the negative impact on the score does not increase because the value is only applied once for the level 1 assessment. The final score modifier is a soil type modifier, S_{soil} , but this study was not affected by this modifier. The score modifier will only be affected if the soil type classification is A, B, or E.

The basic score, S_b , of a building is dependent upon the region of seismicity and building type. The score of the building, S_{L1} , is calculated by adding S_b and all the score modifiers, S_m , discussed above. Equation 4 shows how to calculate the building score.

$$S_{L1} = S_b + S_m \quad (4)$$

where S_b is the Basic Score and

$$S_m = V_{L1S} + V_{L1M} + P_{L1} + S_{pc} + S_{pb} + S_{soil} \quad (5)$$

where V_{L1S} is severe the vertical irregularity modifier, V_{L1M} is the moderate vertical irregularity modifier, P_{L1} is the plan irregularity modifier, S_{pc} is the precode score modifier, S_{pb} is the post benchmark modifier, and S_{soil} is the soil type modifier.

However, it is important to remember that the building score S_{L1} cannot be less than the minimum score, S_{MIN} :

$$S_{L1} \geq S_{MIN} \quad (6)$$

The S_{MIN} parameter is defined for in the RVS form; the S_{MIN} parameter may vary for each structure based upon the building type and the level of seismicity. S_{co} is 2.0, as provided by FEMA P-154 and FEMA P-155; the cut-off score is used in comparison with the building score, S_{L1} . If the structure is below the cut-off score, then the structure is considered hazardous if the S_{L1} score is equal to or above the cut-off score then the structure is considered non-hazardous

4. Loss Estimates

4.3. RVS Results

Only about 41% of all structures had score S_{co} greater than 2.0. Approximately 35% of hospital, 40% of schools, 51% of fire stations had scores above the cut-off score. The distribution of S_{L1} scores is provided in Table 4.1. Overall, fire stations, schools, hospitals, and police stations performance based on the RVS method were from best to worst, respectively.

Table 4.1 S_{L1} Score Distribution

Range of S_{L1}	Number of Structures				
	Hospitals	Schools	Fire Stations	Police Stations	All
<0.5	2	76	6	3	87
0.5-0.9	2	52	19	6	79
0.9-1.5	4	43	9	9	65
1.5-1.9	3	6	0	2	11
1.9-2.5	0	27	16	2	45
2.5-2.9	2	26	9	4	41
2.9-3.5	0	17	10	1	28
≥ 3.5	4	47	1	3	55

The highest percentage of structures were built between 1990-1999, which was about 28% of all structures. 19% percent of the structures that were built between 1990-1999 were schools; the second highest percentage of structures built between 1970-1979 were at 22% of all structure assessed. The highest category of structures between 1970-1979 was again schools. The year built for each essential facility category is shown in Table 4.2. The highest number of structures experiencing both vertical and plan irregularity were built between 1930-1939 and 1950-1959, as provided in Table 4.3. The highest percent of structures that were above the cut-off score were between 1920-1929 and 2010-2021. Upon further inspection, the structure type that was above

the cut-off score between 1920-1929 was a W1 building type police station in a lower seismicity region than other structures.

Table 4.2 Design Year of Buildings

Year Built	Number of Structures				
	Hospitals	Schools	Fire Stations	Police Stations	All
<1919	0	1	0	0	1
1920-1929	0	0	0	1	1
1930-1939	0	1	0	0	1
1940-1949	0	18	0	1	19
1950-1959	0	5	0	1	6
1960-1969	0	44	8	1	53
1970-1979	4	77	4	7	92
1980-1989	2	26	20	6	54
1990-1999	8	78	21	6	113
2000-2009	2	32	5	1	40
2010-2021	1	12	12	6	31

Table 4.3 Essential Facilities with both Vertical and Planar Irregularities

Year Built	Percent of Structures with both Irregularities				
	Hospitals	Schools	Fire Stations	Police Stations	All
<1919	-	100.00%	-	-	100.00%
1920-1929	-	-	-	0.00%	0.00%
1930-1939	-	100.00%	-	-	100.00%
1940-1949	-	38.89%	-	0.00%	36.84%
1950-1959	-	100.00%	-	0.00%	83.33%
1960-1969	-	52.27%	25.00%	0.00%	47.17%
1970-1979	25.00%	33.77%	25.00%	14.29%	31.52%
1980-1989	50.00%	38.46%	20.00%	16.67%	29.63%
1990-1999	12.50%	35.90%	33.33%	16.67%	32.74%
2000-2009	50.00%	40.63%	0.00%	100.00%	37.50%
2010-2021	100.00%	8.33%	33.33%	33.33%	25.81%

Table 4.4 provided the general trend of year built to nonhazardous structures can be seen in. It can be concluded that as the year built increases, the building score increases. This makes sense because the newer built structures are built after the post-benchmark, so all the structures built after 1991 have positively impacted S_{L1} scores. There are a few outliers that do not follow this trend, but as discussed previously, one impact factor for outliers is the building type; structures with W1 building type seem to do better, which makes sense because wood is generally a more flexible material and will be more resilient to an earthquake than other materials.

Table 4.4 Essential Facilities Above the Cut-off Score

Percent of Structures Above Cut-off Score				
Hospitals	Schools	Fire Stations	Police Stations	All
-	0.00%	-	-	0.00%
-	-	-	100.00%	100.00%
-	0.00%	-	-	0.00%
-	5.56%	-	0.00%	5.26%
-	0.00%	-	0.00%	0.00%
-	20.45%	0.00%	0.00%	16.98%
0.00%	11.69%	0.00%	0.00%	9.78%
0.00%	15.38%	5.00%	0.00%	9.26%
62.50%	73.08%	80.95%	50.00%	72.57%
50.00%	71.88%	100.00%	0.00%	72.50%
0.00%	83.33%	100.00%	83.33%	87.10%

For each essential facility, the highest percentage of nonhazardous structures occurred when there were no irregularities except for fire stations. About 35% of all the essential facility structures experience both irregularities, and of that 35%, about 9% was above the cut-off score. The comparisons of irregularity and above cut-off score in relation to essential facility type can be seen in Table 4.5 and Table 4.6.

Table 4.5 Irregularities of Buildings

Irregularity Type	Number of Structures				
	Hospitals	Schools	Fire Stations	Police Stations	All
Vertical only	1	17	0	2	20
Plan only	1	50	52	11	114
None	10	112	0	11	133
Both	5	115	18	6	144

Table 4.6 Essential Facilities Above Cut-off Score

Irregularity Type	Percent of Structures Above Cut-off Score				
	Hospitals	Schools	Fire Stations	Police Stations	All
Vertical only	0.00%	1.36%	0.00%	0.00%	0.97%
Plan only	0.00%	4.76%	37.14%	10.00%	10.46%
None	29.41%	24.49%	0.00%	13.33%	3.41%
Both	5.88%	7.82%	12.86%	6.67%	8.52%

4.4. Hazus-MH 5.1 Results

This study included 1,169 bridges across 5 different counties, and only about 8.6% of all the bridges have been remodeled. The largest number of bridges built were between 1980-1989 and 1990-1999, and bridges built between 1990-1999 had the largest percent of bridges remodeled compared to any other year ranges shown in Table 4.7. The most common bridge type assessed across the 5 counties is HWB28 and HWB4. HWB28 was essentially a default bridge type where the exact properties of the bridge were not met with any other bridge type, and HWB4 is a single span bridge and not considered a major bridge (span length is less than 150m). All the different bridge types assessed in this study can be found in Table 4.8. Further description of the bridge types included in this study can be found in section 7.1 of Hazus Earthquake Model Technical Manual Hazus 4.2 SP3.

Table 4.7 Year Built of Bridges in Study Region

Year Built	Number of Structures		Percent of Structures	
	Original Construction	Remodeled	Original Construction	Remodeled
<1919	3	0	0.26%	0.00%
1920-1929	50	0	4.28%	0.00%
1930-1939	18	1	1.54%	1.00%
1940-1949	15	0	1.28%	0.00%
1950-1959	70	14	5.99%	14.00%
1960-1969	115	5	9.84%	5.00%
1970-1979	140	6	11.98%	6.00%
1980-1989	308	9	26.35%	9.00%
1990-1999	228	35	19.50%	35.00%
2000-2009	139	20	11.89%	20.00%
2010-2021	83	10	7.10%	10.00%

Table 4.8 Bridge Types in the Study Region

Hazus Bridge Type	Number of Structures	Percent of Structures
HWB1	1	0.09%
HWB2	0	0.00%
HWB3	99	8.47%
HWB4	148	12.66%
HWB5	64	5.47%
HWB6	0	0.00%
HWB7	28	2.40%
HWB8	1	0.09%
HWB9	0	0.00%
HWB10	27	2.31%
HWB11	2	0.17%
HWB12	0	0.00%
HWB13	0	0.00%
HWB14	5	0.43%
HWB15	12	1.03%
HWB16	13	1.11%
HWB17	64	5.47%
HWB18	0	0.00%
HWB19	29	2.48%
HWB20	2	0.17%
HWB21	1	0.09%
HWB22	84	7.19%
HWB23	84	7.19%

Table 4.8 Bridge Types in the Study Region

Hazus Bridge Type	Number of Structures	Percent of Structures
HWB24	9	0.77%
HWB25	0	0.00%
HWB26	4	0.34%
HWB27	0	0.00%
HWB28	492	42.09%

Figure 4.1 shows all the essential with-it corresponding probability of complete damage. Figure 4.2 shows all the bridges categorized by the probability of complete damage in relation to highways (FAF3 network) and secondary roads. The probability of damage for each individual county can be seen in Corresponding Structure Types for RVS and Hazus-MH 5.1. Between Figure 4.1 and Figure 4.2, it is much more noticeable that the ground motion is more hazardous northwest in Figure 4.2, and this sharp distinction most likely can be made because bridges tend to have a more uniform strength across different types versus buildings.

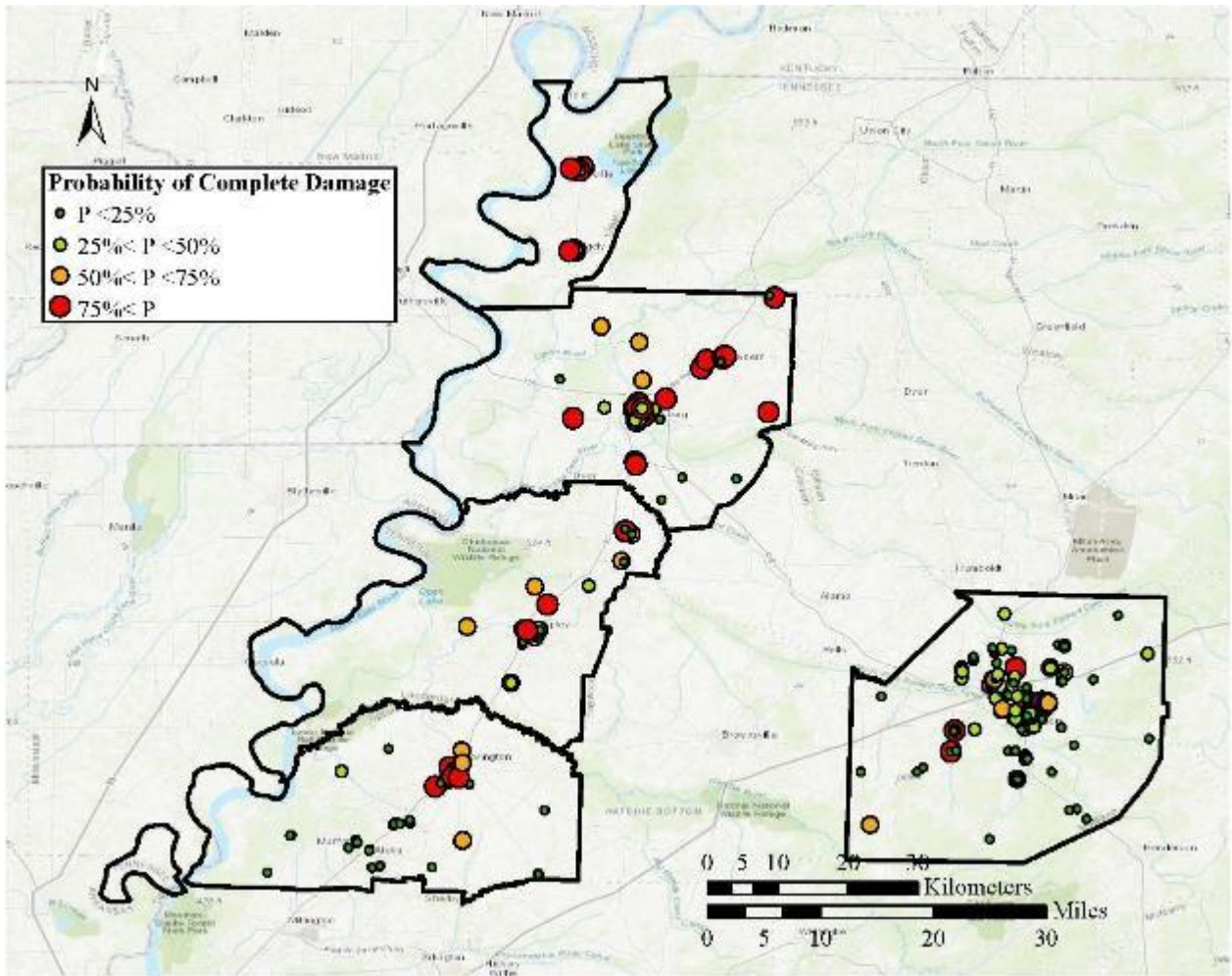


Figure 4.1 Probability of Complete Damage for Essential Facilities

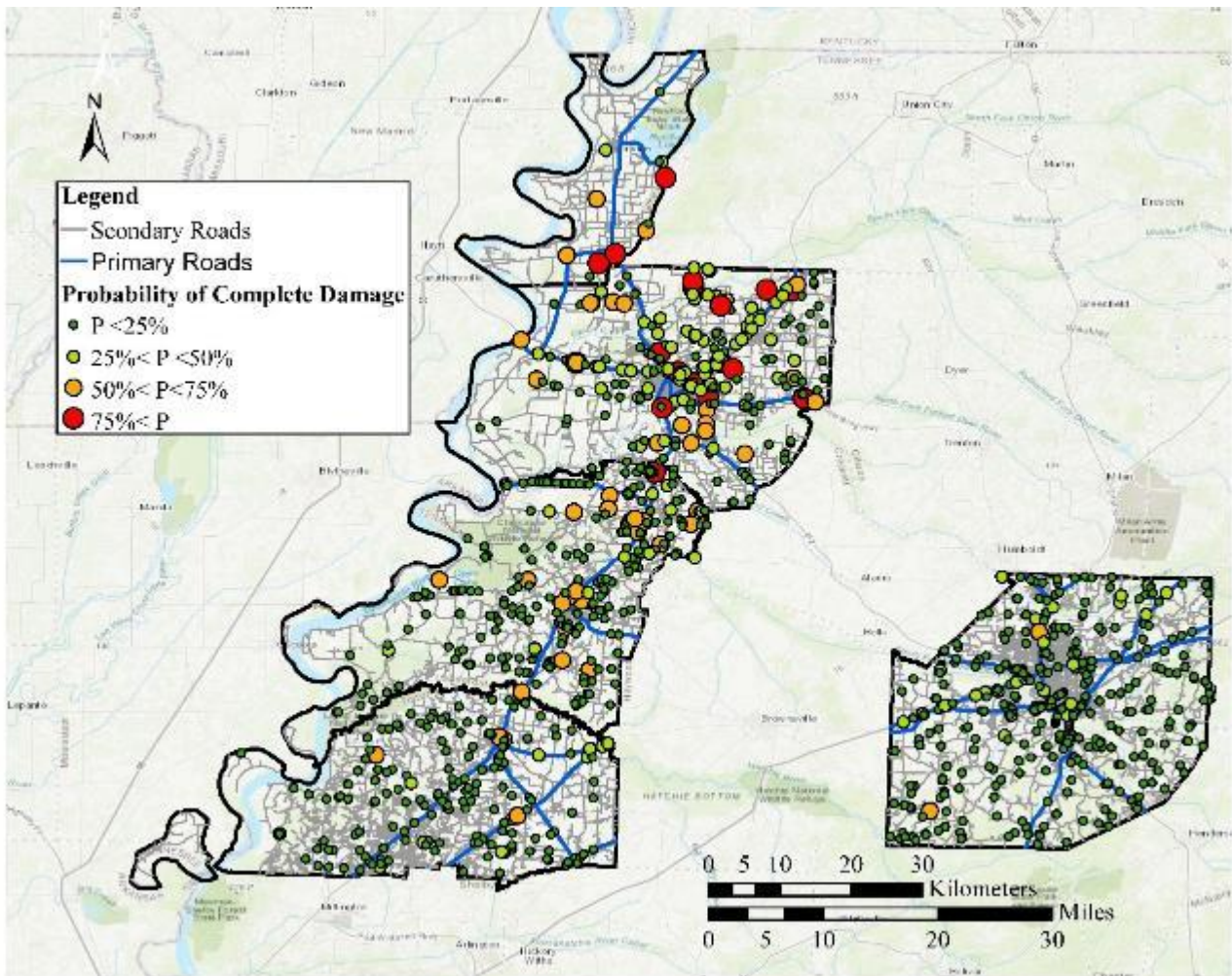


Figure 4.2 Probability of Complete Damage for Bridges

The CERI hazard produced 10% more bridges than the USGS hazard that will be functional 1 day after the earthquake, and this percentage corresponds with the percentage of that have a 50% or more probability of no damage as seen in Table 4.9. It is important to note that the sum of all the bridge may not equal the total amount of bridges assessed and that is because percentage of probability could be spread out over several damage states. For example, 1 bridge may have 50% or greater probability of complete damage, and another bridge may have 20 % probability of extensive damage and 40 % probability of complete damage. The second structure that has 60% probability of damage split between two damage states would not appear on the table because

there is not 1 damage state that increases by 50%. Another comparison with the MAEC report that shows the sums of the higher damage states (complete, extensive, and moderate) and the complete damage state can be found in Table K.1

Table 4.9 Bridges Damage and 1 Day Functionality

Bridges Damage & Functionality												
County	None		Slight		Moderate		Extensive		Complete		Functionality at Day 1	
	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)
Dyer	4	6	55	15	114	51	34	117	35	53	61	28
Lake	1	1	0	0	19	0	4	0	6	29	3	1
Lauderdale	76	108	130	77	32	52	9	13	22	19	214	190
Madison	337	349	23	13	18	7	42	53	2	0	360	362
Tipton	181	178	9	10	0	2	12	14	4	2	190	188
All 5 Counties	418	464	208	105	183	110	89	183	65	101	638	581
% Difference to USGS	-10%		98%		66%		-51%		-36%		10%	

- (1) CERI
- (2) USGS

Dyer and Lauderdale counties have 3 hospital structure that experienced a 50% or greater probability of complete damage in the CERI hazard whereas the USGS hazard produced 3 hospital structure with a 50% or greater probability of moderate damage. Madison County experienced 1 hospital structure with moderate damage and 2 hospital structures with extensive damage as seen in Table 4.10. It is important to note that the sum of all the hospital structures may not equal the total amount of hospital structures assessed and that is because percentage of probability could be spread out over several damage states. Another comparison with the MAEC report that shows the sums of the higher damage states (complete, extensive, and moderate) and

the complete damage state can be found in Table K.2

Table 4.10 Hospital Damage

Hospital Damage										
County	None		Slight		Moderate		Extensive		Complete	
	CERI	USGS	CERI	USGS	CERI	USGS	CERI	USGS	CERI	USGS
Dyer	0	0	0	0	0	0	3	6	3	0
Lake	-	-	-	-	-	-	-	-	-	-
Lauderdale	0	0	0	0	0	0	0	3	3	0
Madison	0	0	0	0	1	2	2	1	0	0
Tipton	0	0	2	0	3	2	0	3	0	0

Lauderdale, Madison, and Tipton counties have more school structures that experienced a 50% or greater probability of complete damage in the CERI hazard whereas the USGS hazard produced more with complete damage in Dyer and Lake counties. All counties except Lake County produced schools with moderate damage due to CERI hazard, whereas the USGS Hazard only produces schools with a 50% or greater probability of damage in 1 damage state, complete damage. These values can be seen in Table 4.11, but it is important to note that the sum of all the school structures may not equal the total amount of school structures assessed and that is because percentage of probability could be spread out over several damage states. Another comparison with the MAEC report that shows the sums of the higher damage states (complete, extensive, and moderate) and the complete damage state can be found in Table K.3

Table 4.11 School Damage

School Damage										
County	None		Slight		Moderate		Extensive		Complete	
	CERI	USGS	CERI	USGS	CERI	USGS	CERI	USGS	CERI	USGS
Dyer	0	0	0	0	2	0	4	6	21	21
Lake	0	0	0	0	0	0	1	0	11	12
Lauderdale	0	0	0	0	6	6	6	8	4	2
Madison	7	0	29	49	48	98	81	56	38	0
Tipton	0	0	23	0	3	23	0	12	10	1

All counties except Madison County have police station structures that experienced a 50% or greater probability of complete damage or extensive damage in the CERI hazard assessment whereas the USGS hazard only produced structures with complete damage in Lake County. The CERI hazard assessment produces a structure that has 50% of probability in every damage state type whereas the USGS hazard assessment only produced structure in the complete damage state as seen in Table 4.12. It is important to note that the sum of all the police station structures may not equal the total amount of police station structures assessed and that is because percentage of probability could be spread out over several damage states. Another comparison with the MAEC report that shows the sums of the higher damage states (complete, extensive, and moderate) and the complete damage state can be found in Table K.4.

Table 4.12 Police Stations Damage

Police Station Damage										
County	None		Slight		Moderate		Extensive		Complete	
	CERI	USGS	CERI	USGS	CERI	USGS	CERI	USGS	CERI	USGS
Dyer	0	0	0	0	1	0	3	4	0	0
Lake	0	0	0	0	0	0	0	0	5	5
Lauderdale	0	0	1	0	1	3	3	4	2	0
Madison	0	0	5	7	2	1	1	0	0	0
Tipton	1	0	2	1	0	2	1	3	2	0

All counties have a fire station structures that experienced a 50% or greater probability of complete damage in the CERI hazard assessment whereas the USGS hazard only produced structures with complete damage in Dyer and Lake counties. The CERI hazard assessment produces a structure that has 50% of probability in every damage state type whereas the USGS hazard assessment only produced structure in the complete damage state as seen in Table 4.13. It is important to note that the sum of all the police station structures may not equal the total amount of police station structures assessed and that is because percentage of probability could be spread out over several damage states. Another comparison with the MAEC report that shows the sums of the higher damage states (complete, extensive, and moderate) and the complete damage state can be found in Table K.5

Table 4.13 Fire Station Damage

Fire Station Damage										
County	None		Slight		Moderate		Extensive		Complete	
	CERI	USGS	CERI	USGS	CERI	USGS	CERI	USGS	CERI	USGS
Dyer	0	0	3	0	4	7	1	2	9	8
Lake	0	0	0	0	0	0	0	0	3	3
Lauderdale	0	0	1	1	0	0	2	7	5	0
Madison	2	0	2	2	1	13	19	14	5	0
Tipton	3	0	6	1	1	8	1	4	2	0

The MAEC, CERI, and USGS hazard assessments all result in no hospitals being functional the first day after an earthquake (see Table 4.14). The MAEC, CERI, and USGS hazard assessments all result in schools being functional the first day after an earthquake, except for the CERI hazard for Madison County (see Table 4.15). The MAEC, CERI, and USGS hazard assessments all result in police stations being functional the first day after an earthquake, except for Tipton County with the CERI hazard (see Table 4.16). MAEC, CERI, and USGS hazards all result in fire stations being functional the first day after an earthquake, except for the CERI hazard for Madison and Tipton County (see Table 4.17).

Table 4.14 Hospital Functionality in 1 Day

Hospital Functionality 1 Day					
County	Total No. of Facilities (Structures)		No. of Functional Structures (Day 1)		
	MAEC	This Study	MAEC	CERI	USGS
Dyer	1	1 (6)	0	0	0
Lake	0	0	0	0	0
Lauderdale	1	1 (3)	0	0	0
Madison	3	3 (3)	0	0	0

Table 4.14 Hospital Functionality in 1 Day

Hospital Functionality 1 Day					
County	Total No. of Facilities (Structures)		No. of Functional Structures (Day 1)		
	MAEC	This Study	MAEC	CERI	USGS
Tipton	1	1 (5)	0	0	0

Table 4.15 School Functionality in 1 Day

School Functionality 1 Day					
County	Total No. of Facilities (Structures)		No. of Functional Structures (Day 1)		
	MAEC	This Study	MAEC	CERI	USGS
Dyer	17	14 (27)	0	0	0
Lake	3	3 (12)	0	0	0
Lauderdale	10	8 (16)	0	0	0
Madison	44	48 (203)	0	7	0
Tipton	14	17 (36)	0	0	0

Table 4.16 Police Stations Functionality in 1 Day

Police Station Functionality 1 Day					
County	Total No. of Facilities (Structures)		No. of Functional Structures (Day 1)		
	MAEC	This Study	MAEC	CERI	USGS
Dyer	7	4 (4)	0	0	0
Lake	3	3 (5)	0	0	0
Lauderdale	5	5 (7)	0	0	0
Madison	3	4 (8)	0	0	0
Tipton	6	6 (6)	0	1	0

Table 4.17 Fire Stations Functionality in 1 Day

Fire Station Functionality 1 Day					
County	Total No. of Facilities (Structures)		No. of Functional Structures (Day 1)		
	MAEC	This Study	MAEC	CERI	USGS
Dyer	6	14 (17)	0	0	0
Lake	2	2 (3)	0	0	0
Lauderdale	7	7 (8)	0	0	0
Madison	22	25 (29)	0	2	0
Tipton	10	13 (13)	0	3	0

For both Dyer and Lauderdale counties, the MAEC, CERI, and USGS hazard assessments determined that no hospital beds would be functional the first week after an earthquake (see Table 4.18 and Table 4.19). One month after the earthquake, hospital bed functionality will be at 2.7% of capacity for Dyer County and 0% for Lauderdale County. Three months after the earthquake, hospital bed functionality will be at 16.0% of capacity for Dyer County and 6.7% of capacity for Lauderdale County. The number of hospital beds that are available after an earthquake are determined by the number of total beds and factor of restoration and damage states produce for each hospital. For further explanations Chapter 6 of the Hazus technical manual.

Table 4.18 Dyer County Hospital Bed Functionality

Hospital Bed Functionality											
	Total # of Beds	Day 1		Day 3		Day 7		Day 30		Day 90	
		# of Beds	%	# of Beds	%	# of Beds	%	# of Beds	%	# of Beds	%
MAEC	225	0	0.0%	0	0.0%	0	0.0%	2	0.9%	35	15.6%
CERI	225	0	0.0%	0	0.0%	0	0.0%	6	2.7%	36	16.0%
USGS	225	0	0.0%	0	0.0%	0	0.0%	6	2.7%	36	16.0%

Table 4.18 Dyer County Hospital Bed Functionality

Hospital Bed Functionality											
	Total # of Beds	Day 1		Day 3		Day 7		Day 30		Day 90	
		# of Beds	%	# of Beds	%	# of Beds	%	# of Beds	%	# of Beds	%

Table 4.19 Lauderdale County Hospital Bed Functionality

Hospital Bed Functionality											
	Total # of Beds	Day 1		Day 3		Day 7		Day 30		Day 90	
		# of Beds	%	# of Beds	%	# of Beds	%	# of Beds	%	# of Beds	%
MAEC	70	0	0.0%	0	0.0%	0	0.0%	1	1.4%	11	15.7%
CERI	75	0	0.0%	0	0.0%	0	0.0%	0	0.0%	5	6.7%
USGS	75	0	0.0%	0	0.0%	0	0.0%	0	0.0%	5	6.7%

Madison County will only have 1 functional hospital bed for the first three days after an earthquake, which is a decrease from the 4 functional hospital beds from the MAEC report. On day seven after the earthquake, the hospital bed functionality increases to 2.3% capacity, and one month after the earthquake, hospital bed functionality will be at 25.4% capacity (see Table 4.20). Three months after the earthquake, hospital bed functionality is only at 49.3% capacity.

Table 4.20 Madison County Hospital Bed Functionality

Hospital Bed Functionality											
	Total # of Beds	Day 1		Day 3		Day 7		Day 30		Day 90	
		# of Beds	%	# of Beds	%	# of Beds	%	# of Beds	%	# of Beds	%
MAEC	876	4	0.5%	4	0.5%	23	2.6%	255	29.1%	489	55.8%
CERI	835	1	0.1%	1	0.1%	19	2.3%	212	25.4%	412	49.3%
USGS	835	1	0.1%	1	0.1%	19	2.3%	212	25.4%	412	49.3%

Tipton County will only have 17 functional hospital beds for the first three days after an earthquake, which is an increase from the 0 functional hospital beds from the MAEC report. On

day seven after the earthquake, the hospital bed functionality increases to 33% of capacity, and one month after the earthquake, hospital bed functionality will be at 72% of capacity (see Table 4.21). Three months after the earthquake, hospital bed functionality is at 85% of capacity for Tipton County.

Table 4.21 Tipton County Hospital Bed Functionality

Hospital Bed Functionality											
	Total # of Beds	Day 1		Day 3		Day 7		Day 30		Day 90	
		# of Beds	%	# of Beds	%	# of Beds	%	# of Beds	%	# of Beds	%
MAEC	110	0	0.0%	0	0.0%	0	0.0%	1	0.9%	17	15.5%
CERI	100	17	17%	17	17%	33	33%	72	72%	85	85%
USGS	100	17	17%	17	17%	33	33%	72	72%	85	85%

The number of people to experience Level 1 (minor) injury across all essential facilities in Dyer County was 1,383 for the CERI hazard assessment and 1,442 for the USGS in the daytime scenario and 49 for the CERI hazard assessment, and 50 for the USGS hazard assessment in the nighttime scenario. The number of fatalities that would occur in essential facilities during the daytime in Dyer County is 176 for the CERI hazard assessment and 184 people for the USGS hazard assessment. Data for all other levels of casualty can be seen in Table 4.22.

Table 4.22 Dyer County Essential Facilities Casualties

Essential Facilities Casualties								
	Daytime - (2:00 P.M.)				Nighttime - (2:00 A.M.)			
	Level I	Level II	Level III	Level IV	Level I	Level II	Level III	Level IV
CERI	1383	483	89	176	49	17	3	6
USGS	1442	503	93	184	50	17	3	6

Level I – Minor Injury

Level II – Moderate Injury (Delayed Attention)

Level III – Severe Injury (Immediate Attention)

Table 4.22 Dyer County Essential Facilities Casualties

Essential Facilities Casualties								
	Daytime - (2:00 P.M.)				Nighttime - (2:00 A.M.)			
	Level I	Level II	Level III	Level IV	Level I	Level II	Level III	Level IV

Level IV – Fatality

The number of people to experience Level 1 injury across all essential facilities in Lake County was 320 for the CERI hazard assessment and 338 for the USGS assessment in the daytime scenario and 11 for the CERI hazard assessment, and 12 for the USGS hazard assessment in the nighttime scenario. The number of fatalities that would occur in essential facilities during the daytime in Lake County is 40 for the CERI hazard assessment and 42 people for the USGS hazard. Results for all other casualty levels (see Table 4.23).

Table 4.23 Lake County Essential Facilities Casualties

Essential Facilities Casualties								
	Daytime – (2:00 P.M.)				Nighttime – (2:00 A.M.)			
	Level I	Level II	Level III	Level IV	Level I	Level II	Level III	Level IV
CERI	320	111	20	40	11	4	1	1
USGS	338	118	21	42	12	4	1	1

Level I – Minor Injury

Level II – Moderate Injury (Delayed Attention)

Level III – Severe Injury (Immediate Attention)

Level IV – Fatality

The number of people to experience Level 1 injury across all essential facilities in Lauderdale County was 544 for the CERI hazard assessment and 455 for the USGS in the daytime scenario and 77 for the CERI hazard assessment, and 59 people for the USGS hazard assessment in the nighttime scenario. The number of fatalities that would occur during the daytime in Lauderdale

County in essential facilities is 61 for the CERI hazard assessment and 49 for the USGS hazard assessment. Results for all other casualty levels (see Table 4.24).

Table 4.24 Lauderdale County Essential Facilities Casualties

Essential Facilities Casualties								
	Daytime - (2:00 P.M.)				Nighttime - (2:00 A.M.)			
	Level I	Level II	Level III	Level IV	Level I	Level II	Level III	Level IV
CERI	544	177	31	61	77	24	4	7
USGS	455	144	25	49	59	18	3	5

Level I – Minor Injury
 Level II – Moderate Injury (Delayed Attention)
 Level III – Severe Injury (Immediate Attention)
 Level IV – Fatality

The number of people to experience Level 1 injury across all essential facilities in Madison County was 2,893 for the CERI hazard assessment and 1,749 for the USGS hazard assessment in the daytime scenario and 84 for the CERI hazard assessment, and 48 for the USGS hazard assessment in the nighttime scenario. The number of fatalities that would occur in essential facilities during the daytime in Lauderdale County is 286 for the CERI hazard assessment and 155 for the USGS hazard assessment. Results for all other casualty levels can (see Table 4.25).

Table 4.25 Madison County Essential Facilities Casualties

Essential Facilities Casualties								
	Daytime - (2:00 P.M.)				Nighttime - (2:00 A.M.)			
	Level I	Level II	Level III	Level IV	Level I	Level II	Level III	Level IV
CERI	2893	888	144	286	84	26	4	8
USGS	1749	502	79	155	48	14	2	4

Level I – Minor Injury
 Level II – Moderate Injury (Delayed Attention)
 Level III – Severe Injury (Immediate Attention)
 Level IV – Fatality

The number of people to experience Level 1 injury across all essentials facilities in Tipton County was 208 for the CERI hazard assessment, 269 for the USGS hazard assessment in the daytime scenario, and 15 for the nighttime scenario for both hazard assessments. The number of fatalities during the daytime in Tipton County in essential facilities is 20 for the CERI hazard and 23 for the USGS hazard. Results for all other casualty levels (see Table 4.26).

Table 4.26 Tipton County Essential Facilities Casualties

Essential Facilities Casualties								
	Daytime - (2:00 P.M.)				Nighttime - (2:00 A.M.)			
	Level I	Level II	Level III	Level IV	Level I	Level II	Level III	Level IV
CERI	208	61	10	20	15	4	1	1
USGS	269	73	12	23	15	4	1	1

Level I – Minor Injury

Level II – Moderate Injury (Delayed Attention)

Level III – Severe Injury (Immediate Attention)

Level IV – Fatality

Dyer, Lake, and Lauderdale counties experienced more economic loss for bridges with the USGS hazard assessment vs. the CERI hazard assessment. The total economic losses for the CERI and USGS hazard assessments ranged from \$226.2 million to \$234.2 million as provided in Table 4.27. Dyer County had the most extensive economic loss due to bridges in the CERI and USGS hazard assessments, averaging around \$118.5 million. Madison County had the second largest economic loss due to bridges in the CERI and USGS assessments, averaging around \$44.7 million.

Table 4.27 Direct Economic Losses of Bridges

Total Direct Economic Losses (in Millions)			
Counties	Bridges		
	CERI Hazard	USGS Hazard	% Difference
Dyer	\$111.70	\$125.34	-10.9%
Lake	\$2.55	\$4.60	-44.6%
Lauderdale	\$43.45	\$43.61	-0.4%
Madison	\$48.25	\$41.16	17.2%
Tipton	\$20.23	\$19.50	3.7%
All 5 Counties	\$226.18	\$234.21	-3.4%

The total direct economic losses for all essential facilities across all five counties assessed in this study were \$1.5 billion for the CERI hazard assessment and \$1.2 billion for the USGS assessment, as provided in Table 4.28. The CERI hazard assessment produced almost a 20% increase in the total economic loss of all essential facilities across the five counties assessed in this study.

Table 4.28 Direct Economic Losses for All Essential Facilities

Total Direct Economic Losses (in Millions)			
	All Essential Facilities		
	CERI Hazard	USGS Hazard	% Difference
All 5 Counties	\$1,472.62	\$1,238.08	18.9%

Tipton county experienced more economic loss for hospitals with the USGS hazard assessment vs. the CERI hazard assessment. The total economic losses for both the USGS and CERI hazards assessments ranged from \$139.6 million to \$147.6 million, as provided in Table 4.29. Dyer County had the most extensive economic loss due to hospitals in the CERI and USGS hazard assessments averaging around \$106.3 million. Lauderdale County had the second largest economic loss due to hospitals for the CERI hazard assessment at about \$22.3 million. Tipton

County had the second largest economic loss due to hospitals for the USGS hazard assessment at about \$17.7 million.

Table 4.29 Direct Economic Losses for Hospital Structures

Total Direct Economic Losses (in Millions)			
Counties	Hospitals		
	CERI Hazard	USGS Hazard	% Difference
Dyer	\$108.89	\$103.81	4.9%
Lake	\$-	\$-	- %
Lauderdale	\$6.61	\$5.47	20.9%
Madison	\$22.29	\$12.67	75.9%
Tipton	\$9.79	\$17.67	-44.6%
All 5 Counties	\$147.57	\$139.61	5.7%

Lake, Lauderdale, and Tipton counties experienced more economic loss for schools with the USGS hazard assessment vs. the CERI hazard assessment. The total economic losses for USGS and CERI assessments ranged from \$1.2 billion to \$1.0 billion, as provided in Table 4.30. Madison County had the most significant economic loss due to schools in the CERI and USGS hazard assessments averaging around \$620.1 million. Dyer County had the second largest economic loss due to schools in the CERI and USGS assessments averaging around \$315.1 million.

Table 4.30 Direct Economic Losses for School Structures

Total Direct Economic Losses (in Millions)			
Counties	Schools		
	CERI Hazard	USGS Hazard	% Difference
Dyer	\$315.80	\$314.37	0.5%
Lake	\$37.420	\$42.19	-11.3%
Lauderdale	\$48.66	\$49.10	-0.8%
Madison	\$739.88	\$500.29	47.9%
Tipton	\$86.76	\$104.20	-16.7%

Table 4.30 Direct Economic Losses for School Structures

Total Direct Economic Losses (in Millions)			
Counties	Schools		
	CERI Hazard	USGS Hazard	% Difference
All 5 Counties	\$1,228.50	\$1,010.11	21.6%

Dyer and Lake counties experienced more economic loss for police stations with the USGS hazard assessment vs. the CERI hazard assessment. The total economic losses for both the CERI and USGS assessments ranged from \$51.2 million to \$52.1 million, as provided in Table 4.31. Lake County had the most extensive economic loss due to police stations in the CERI and USGS hazard assessments, averaging around \$34.2 million. Lauderdale County had the second largest economic loss due to police stations in the CERI and USGS hazards averaging around \$6.4 million.

Table 4.31 Direct Economic Losses for Police Station Structures

Total Direct Economic Losses (in Millions)			
Counties	Police Stations		
	CERI Hazard	USGS Hazard	% Difference
Dyer	\$4.00	\$5.27	-24.1%
Lake	\$33.50	\$34.96	-4.2%
Lauderdale	\$6.96	\$5.83	19.5%
Madison	\$2.37	\$1.91	24.3%
Tipton	\$4.36	\$4.10	6.5%
All 5 Counties	\$51.19	\$52.06	-1.7%

Dyer, Lake, and Tipton counties experienced more economic loss for fire stations with the USGS assessment vs. the CERI assessment. The total economic losses for both the USGS and CERI assessments ranged from \$36.3 million to \$45.4 million, as provided in Table 4.32. Madison County had the most prominent economic loss due to fire stations in the CERI and USGS assessments averaging around \$17.1 million. Dyer County had the second largest economic loss

due to fire stations in the CERI and USGS assessments averaging about \$10.6 million.

Table 4.32 Direct Economic Losses for Fire Station Structures

Total Direct Economic Losses (in Millions)			
Counties	Fire Stations		
	CERI Hazard	USGS Hazard	% Difference
Dyer	\$10.45	\$10.76	-2.9%
Lake	\$2.47	\$2.81	-12.2%
Lauderdale	\$5.28	\$3.89	35.8%
Madison	\$21.60	\$12.53	72.4%
Tipton	\$5.56	\$6.31	-11.9%
All 5 Counties	\$45.35	\$36.30	24.9%

5. Conclusions

The objective of this study was to determine the impacts and vulnerabilities of essential facilities and bridges using two methods: rapid visual screening for essential facilities and Hazus results for both essential facilities and bridges. The MAEC report was updated in this study for five counties in the West Tennessee region. Although the MAEC report included more inventory than this study, the inventory was not as specific as this study. For instance, the MAEC report would only report essential facilities based on their main structure, but if a facility had multiple structures, the MAEC report did not include those as independent structures. This caused increases in the essential facility structures assessed. This study significantly increased the number of bridges assessed within the regions studied.

This study also updated the hazard analysis scenario type used; the MAEC report used a deterministic hazard which was shifted to produce the most extreme case for the area being assessed. In contrast, this study utilized current local probabilistic CERI and USGS hazard data. The USGS hazard data results created a baseline to compare CERI hazard results. When the hazard maps of the MAEC report and the CERI and USGS hazard maps, the MAEC and USGS maps have some similarities where clearly defined contours can be identified. The CERI hazard map is not as clearly defined and can vary more throughout a county, which is because of the detailed surficial geology and soil profiles are used in CERI hazard maps

When the bridges assessed in this study were compared to the MAEC report, it was found that this study produced more damaged bridges. This was not only because this study assessed more bridges. If you take the number of bridges damaged divided by the total number of bridges, the ratio for both CERI and USGS have higher ratios than the MAEC report. If you do the ratios for the functionality at one day of the bridges again, the CERI and USGS cases produce higher

ratios. The damages state and functionality at one-day comparisons are provided in Appendix K K.

The MAEC report produced one more hospital than this study to have complete damage, and that hospital was within Tipton County. When schools are compared to the MAEC report, this study produced more schools with complete damage in two counties, Lake and Madison. The MAEC report more police stations with complete damage in all the counties except Lake County. Three counties, Dyer, Lake, and Madison, experience more fire stations with complete damage than the MAEC study. The damages state comparisons for essential facilities are provided in Appendix K. Functionality at one day remained the same as MAEC for all essential facilities in all counties except for the following: schools in Madison County, police stations in Dyer County, and fire stations in Madison and Tipton counties. The functionality comparison for essential facilities with the MAEC report can be seen in Table 4.14, 4.15, 4.16, and 4.17.

The seismic hazards used were based on CERI and USGS hazard maps. Both were for a 2% in 50-year POE, equivalent to a return period of 2,500 years. Since both the USGS and CERI hazard maps were used, the results were then analyzed for linear correlations using the Pearson's correlation coefficient for any linear correlations. For this study, Microsoft Excel's data analysis tool was utilized. The correlation coefficient ranges from -1 to 1, and if the value is negative, then there is a negative correlation or inverse relationship between the datasets. If the coefficient is positive, then there is a direct relationship between the datasets. If the coefficient is between -0.3 and 0.3, then there is little to no significant correlation between the datasets. If the absolute value of the coefficient is between 0.3 and 0.5, then there is a low significant correlation. If the magnitude of the coefficient is between 0.5 and 0.7, then the correlation is moderately significant. However, if the magnitude of the coefficient is larger than 0.7, the correlation can be

considered highly significant. (Calkins, 2005)

The BRC and MD are relatively high compared to IO in Table 5.1, and the S_{L1} average is below the S_{CO} of 2, which means, on average, essential facility structures are hazardous based on the RVS method. Both the BRC and MD being high make sense because if major damage is high, then the cost to repair will also be high, so MD is directly related, and IO is inversely related to BRC, as seen by the negative values in Table 5.2. The standard deviations for the USGS hazard assessments are consistently lower than the CERI hazard assessments, which makes sense because the USGS hazard maps were consistent across large areas, as seen in Figure 3.11, Figure 3.12, Figure 3.13, and Figure 3.14. Table 5.2 also shows a highly significant correlation between the USGS and CERI data. In contrast, the correlation between the Hazus method, USGS and CERI, and the RVS method, S_{L1} , is significantly low in correlation.

Table 5.1 Essential Facilities Damage Summary

	S_{L1}	BRC (%)		IO		MD	
		CERI	USGS	CERI	USGS	CERI	USGS
Average, μ	1.638	42	35	22	23	57	51
Standard Deviation, σ	1.311	26	23	26	20	32	26

Table 5.2 Essential Facilities Correlational Coefficient Matrix

	<i>CERI BRC</i>	<i>USGS BRC</i>	<i>RVS (S_{L1})</i>	<i>IO USGS</i>	<i>MD USGS</i>	<i>IO CERI</i>	<i>MD CERI</i>
CERI BRC	1	0.833	-0.434	-0.763	0.863	-0.863	0.965
USGS BRC	0.833	1	-0.329	-0.794	0.946	-0.618	0.739
RVS (S_{L1})	-0.434	-0.329	1	0.354	-0.357	0.375	-0.425
IO USGS	-0.763	-0.794	0.354	1	-0.927	0.774	-0.796
MD USGS	0.863	0.946	-0.357	-0.927	1	-0.750	0.837
IO CERI	-0.863	-0.618	0.375	0.774	-0.750	1	-0.953
MD CERI	0.965	0.739	-0.425	-0.796	0.837	-0.953	1

The Damage Ratio (DR) and MD are relatively low compared to IO in Table 5.3. Both the DR and MD are low because if major damage is low, then the cost to repair will also be low, so MD is directly related, and IO is inversely related to DR, as seen by the negative values in Table 5.4. The standard deviations for the USGS hazard assessments are consistently higher than for the CERI hazard assessment, which may not clearly represent the USGS hazard maps. This relation to the hazard maps could be due to most of the bridges being located in similar regions for the CERI assessments but on the border of hazard changes in the USGS hazard maps. Table 5.4 also provide a highly significant correlation between the USGS and CERI data.

Table 5.3 Bridges Damage Summary

	Damage Ratio (%)		IO		MD	
	CERI	USGS	CERI	USGS	CERI	USGS
Average, μ	16	18	60	60	30	31
Standard Deviation, σ	13	17	24	28	22	26

Table 5.4 Bridges Damage Summary Correlation Coefficient Matrix

	<i>USGS MD</i>	<i>USGS IO</i>	<i>USGS Damage Ratio</i>	<i>CERI MD</i>	<i>CERI IO</i>	<i>CERI Damage Ratio</i>
USGS MD	1	-0.990	0.897	0.918	-0.917	0.830
USGS IO	-0.990	1	-0.880	-0.911	0.929	-0.819
USGS Damage Ratio	0.897	-0.880	1	0.792	-0.787	0.898
CERI MD	0.918	-0.911	0.792	1	-0.988	0.896
CERI IO	-0.917	0.929	-0.787	-0.988	1	-0.881
CERI Damage Ratio	0.830	-0.819	0.898	0.896	-0.881	1

Table 5.5 and Table 5.6 show the distribution of essential facilities and bridges into four categories of ranking from structures with the smallest probability to the highest probability of damage. The rankings shown are based on the building replacement cost ratio and damage ratio for essential facilities and bridges, respectively. Detailed rankings for each structure are in Appendix F, along with ranks based on the RVS method. Table 5.5 suggests that Lake County

has the highest percentage of seismically vulnerable essential facilities, with Dyer, Lauderdale, Tipton, and Madison counties following.

Table 5.5 Ranking Percentages in Each County for Essential Facilities

Rank	Dyer	Lake	Lauderdale	Madison	Tipton
1-78	7.41%	0.00%	17.65%	23.05%	61.67%
79-157	12.96%	0.00%	26.47%	35.39%	13.33%
158-236	20.37%	10.00%	23.53%	30.86%	5.00%
237-315	59.26%	90.00%	32.35%	10.70%	20.00%
Total	100.00%	100.00%	100.00%	100.00%	100.00%

Table 5.6 Ranking Percentages in Each County for Bridges

Rank	Dyer	Lake	Lauderdale	Madison	Tipton
1-292	0.41%	3.33%	0.00%	64.22%	9.22%
293-584	8.26%	0.00%	15.99%	20.38%	69.42%
585-876	26.86%	23.33%	62.45%	5.69%	13.59%
877-1169	64.46%	73.33%	21.56%	9.72%	7.77%
Total	100.00%	100.00%	100.00%	100.00%	100.00%

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Appendices

Appendix A shows the blank FEMA data collection forms used in this study. Appendix B shows the structure types for essential facilities using the RVS and Hazus methods and bridge types for Hazus. Appendix C displays general information inputted into Hazus about each structure before any analysis was conducted. Appendix D shows damage state probabilities for both essential facilities and bridges. Appendix E. shows the direct economic impacts on the structures assessed for the CERI hazard in both essential facilities and bridges but the USGS hazard for only the essential facilities. Appendix F shows the ranking of the facilities based on the RVS method and the Hazus analysis results affecting the Building Replacement Cost (BRC) and damage ratio. Appendix G shows individual county hazard maps used in Hazus. Appendix H. shows the probability of complete damage maps for individual counties for the CERI hazard. Appendix I show relationships between BRC/damage ratios, immediate occupancy (IO), and Major Damage (MD) for both essential facilities and bridges. Appendix J shows the FEMA data collection form for each facility studied. Finally, Appendix K shows damage state comparisons made with the MAEC report.

Appendix A. FEMA P-154 Data Collection Forms Used in this Study

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

PHOTOGRAPH

SKETCH

Address: _____ Zip: _____

Other Identifiers: _____

Building Name: _____

Use: _____

Latitude: _____ Longitude: _____

S: _____ S: _____

Screeners(s): _____ Date/Time: _____

No. Stories: Above Grade: _____ Below Grade: _____ Year Built: (est)

Total Floor Area (sq. ft.): _____ Code Year: _____

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial Other Services Historic Shelter
 Industrial Office School Government
 Utility Warehouse Residential, A Units

Soil Type: A B C D E F DNK
Hard Rock Avg. Rock Dense Soil Soft Soil Poor Soil #DNK assume Type D.

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other _____

COMMENTS: _____

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S_{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (BR)	S2 (SR)	S3 (LW)	S4 (RC)	S5 (URM/MS)	C1 (MFI)	C2 (SI)	C3 (URM/MS)	PC1 (TL)	PC2	RM1 (FT)	RM2 (RT)	URM	NH
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1
Severe Vertical Irregularity, V_{LI}		-0.9	-0.9	-0.9	-0.8	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.6	NA
Moderate Vertical Irregularity, V_{LI}		-0.6	-0.5	-0.5	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P_{LI}		-0.7	-0.7	-0.8	-0.5	-0.6	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.6	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	0.0
Post-Benchmark		1.5	1.9	2.0	1.0	1.1	1.1	1.5	NA	1.4	1.7	NA	1.5	1.7	1.6	1.6	NA	0.5
Soil Type A or B		0.5	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1
Soil Type E (>3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA
Minimum Score, S_{min}		0.7	0.7	0.7	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.2	0.2	0.3	0.2	0.2	1.0

FINAL LEVEL 1 SCORE, $S_{L1} \geq S_{min}$

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
 None Visible Entered

Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless $S_{L1} >$ cut-off, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know

Legend: URF = Unreinforced frame RC = Reinforced concrete URM/MS = Unreinforced masonry masonry MH = Manufactured Housing PD = Flexible diaphragm
 BR = Braced frame SW = Shear wall TJ = Tilt-up LM = Light metal RD = Rigid diaphragm

Figure A.1 Level 1 Data Collection Form for Very High Seismicity

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
HIGH Seismicity

PHOTOGRAPH

Address: _____ Zip: _____

Other Identifiers: _____

Building Name: _____

Use: _____

Latitude: _____ Longitude: _____

St: _____ St: _____

Screener(s): _____ Date/Time: _____

No. Stories: Above Grade: _____ Below Grade: _____ Year Built: EST

Total Floor Area (sq. ft.): _____ Code Year: _____

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial Emer. Services Historic Shelter
 Industrial Office School Government
 Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Rock Avg. Rock Dense Soil Silt Soil Soft Soil Poor Soil #DNK, assume Type D

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity): _____
 Plan (type): _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS: _____

Additional sketches or comments on separate page

SKETCH

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S_{L1}

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (RFR)	S2 (BR)	S3 (LC)	S4 (RC (RM/RF))	S5 (RSM/RF)	C1 (RFR)	C2 (BR)	C3 (RR/NF)	PC1 (TU)	PC2	RM1 (FX)	RM2 (FE)	UM	MH
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V ₁		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, V ₂		-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.6	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, P ₁		-1.1	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.6	-0.6	-0.5	-0.7	-0.6	-0.7	-0.7	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.6	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmarks		1.5	1.9	2.2	1.4	1.4	1.1	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.3	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.6	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S _{min}		1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min}

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered
Drawings Reviewed: Yes No
Soil Type Source: _____
Geologic Hazards Source: _____
Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No
Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?
 Pounding potential (unless S_{L1} > out-off, if known)
 Falling hazards from taller adjacent building
 Geologic hazards or Soil Type F
 Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?
 Yes, unknown FEMA building type or other building
 Yes, score less than cut-off
 Yes, other hazards present
 No

Detailed Nonstructural Evaluation Recommended? (check one)
 Yes, nonstructural hazards identified that should be evaluated
 No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary
 No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST = Estimated or unreliable data** **DR = Do Not Know**

Legend: MF = Moment-resisting frame RC = Reinforced concrete DRM/RF = Unreinforced masonry infill MH = Manufactured Housing FD = Flexible diaphragm
ER = Fixed frame SW = Steel wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure A.2 Level 1 Data Collection Form for High Seismicity

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH	Address: _____		Zip: _____																			
	Other Identifiers: _____																					
	Building Name: _____																					
	Use: _____																					
	Latitude: _____						Longitude: _____															
	St: _____						St: _____															
	Screener(s): _____		Date/Time: _____																			
	No. Stories: Above Grade: _____		Below Grade: _____		Year Built: <input type="checkbox"/> EST																	
	Total Floor Area (sq. ft.): _____		Code Year: _____																			
	Additions: <input type="checkbox"/> None		<input type="checkbox"/> Yes, Year(s) Built: _____																			
Occupancy: Assembly		Commercial		Emer. Services		<input type="checkbox"/> Historic		<input type="checkbox"/> Shelter														
Industrial		Office		School		<input type="checkbox"/> Government																
Utility		Warehouse		Residential, # Units: _____																		
Soil Type: <input type="checkbox"/> A		<input type="checkbox"/> B		<input type="checkbox"/> C		<input type="checkbox"/> D		<input type="checkbox"/> E		<input type="checkbox"/> F		<input type="checkbox"/> DNK				#DNK, assume Type D						
Hard Rock		Avg. Rock		Dense Soil		Silt Soil		Soft Soil		Poor Soil												
Geologic Hazards: Liquefaction: Yes/No/DNK		Landslide: Yes/No/DNK		Surf. Rupt: Yes/No/DNK																		
Adjacency: <input type="checkbox"/> Pounding		<input type="checkbox"/> Falling Hazards from Taller Adjacent Building																				
Irregularities: <input type="checkbox"/> Vertical (type/severity) _____																						
<input type="checkbox"/> Plan (type) _____																						
Exterior Falling Hazards: <input type="checkbox"/> Unbraced Chimneys		<input type="checkbox"/> Heavy Cladding or Heavy Veneer																				
<input type="checkbox"/> Parapets		<input type="checkbox"/> Appendages																				
<input type="checkbox"/> Other: _____																						
COMMENTS: _____																						
SKETCH																<input type="checkbox"/> Additional sketches or comments on separate page						

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S ₁₁																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MR)	S2 (MR)	S3 (L)	S4 (RC SW)	S5 (RM BT)	C1 (SW)	C2 (SW)	C3 (RM IN)	PC1 (TU)	PC2	RM1 (FD)	RM2 (FD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.5
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.6	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.6	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{11K}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.4

EXTENT OF REVIEW			OTHER HAZARDS			ACTION REQUIRED		
Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial			Are There Hazards That Trigger A Detailed Structural Evaluation?			Detailed Structural Evaluation Required?		
Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered			<input type="checkbox"/> Pounding potential (unless S ₁₁ > out-cut, if known)			<input type="checkbox"/> Yes, unknown FEMA building type or other building		
Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No			<input type="checkbox"/> Falling hazards from taller adjacent building			<input type="checkbox"/> Yes, score less than cut-off		
Soil Type Source: _____			<input type="checkbox"/> Geologic hazards or Soil Type F			<input type="checkbox"/> Yes, other hazards present		
Geologic Hazards Source: _____			<input type="checkbox"/> Significant damage/deterioration to the structural system			<input type="checkbox"/> No		
Contact Person: _____						Detailed Nonstructural Evaluation Recommended? (check one)		
LEVEL 2 SCREENING PERFORMED?						<input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated		
<input type="checkbox"/> Yes, Final Level 2 Score, S ₁₂ _____						<input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary		
<input type="checkbox"/> No						<input type="checkbox"/> No, no nonstructural hazards identified		
<input type="checkbox"/> Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No						<input type="checkbox"/> DNK		

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know

Legend: MR = Moment-resisting frame RC = Reinforced concrete URM = Unreinforced masonry mfr = Unreinforced masonry infill MIP = Altimetered Housing FD = Flexible diaphragm BR = Braced frame SW = Shear wall TU = Tilt-up LM = Light metal RD = Rigid diaphragm

Figure A.3 Level 1 Data Collection Form for Moderately High Seismicity

Appendix B. Corresponding Structure Types for RVS and Hazus-MH 5.1

Table B.1 Structural Building Classifications for Hazus Input (FEMA, 2022)

No.	Label	Description	Height			
			Range		Typical	
			Name	Stories	Stories	Feet
1	W1	Wood, Light Frame (≤ 5,000 sq. ft.)		1-2	1	12
2	W2	Wood, Commercial and Industrial (> 5,000 sq. ft.)		All	2	24
3	S1L	Steel Moment Frame	Low-Rise	1-3	2	24
4	S1M		Mid-Rise	4-7	5	60
5	S1H		High-Rise	8+	13	156
6	S2L	Steel Braced Frame	Low-Rise	1-3	2	24
7	S2M		Mid-Rise	4-7	5	60
8	S2H		High-Rise	8+	13	156
9	S3	Steel Light Frame		All	1	15
10	S4L	Steel Frame with Cast-in-Place Concrete Shear Walls	Low-Rise	1-3	2	24
11	S4M		Mid-Rise	4-7	5	60
12	S4H		High-Rise	8+	13	156
13	S5L	Steel Frame with Unreinforced Masonry Infill Walls	Low-Rise	1-3	2	24
14	S5M		Mid-Rise	4-7	5	60
15	S5H		High-Rise	8+	13	156
16	C1L	Concrete Moment Frame	Low-Rise	1-3	2	20
17	C1M		Mid-Rise	4-7	5	50
18	C1H		High-Rise	8+	12	120
19	C2L	Concrete Shear Walls	Low-Rise	1-3	2	20
20	C2M		Mid-Rise	4-7	5	50
21	C2H		High-Rise	8+	12	120
22	C3L	Concrete Frame with Unreinforced Masonry Infill Walls	Low-Rise	1-3	2	20
23	C3M		Mid-Rise	4-7	5	50
24	C3H		High-Rise	8+	12	120
25	PC1	Precast Concrete Tilt-Up Walls		All	1	15
26	PC2L	Precast Concrete Frames with Concrete Shear Walls	Low-Rise	1-3	2	20
27	PC2M		Mid-Rise	4-7	5	50
28	PC2H		High-Rise	8+	12	120
29	RM1L	Reinforced Masonry Bearing Walls with Wood or Metal Deck Diaphragms	Low-Rise	1-3	2	20
30	RM2M		Mid-Rise	4+	5	50
31	RM2L	Reinforced Masonry Bearing Walls with Precast Concrete Diaphragms	Low-Rise	1-3	2	20
32	RM2M		Mid-Rise	4-7	5	50
33	RM2H		High-Rise	8+	12	120
34	URML	Unreinforced Masonry Bearing Walls	Low-Rise	1-2	1	15
35	URMMM		Mid-Rise	3+	3	35
36	MH	Mobile Homes		All	1	10

Table B.2 Structural Building Classifications for RVS

No.	Label	Description
1	W1	Light wood frame single- or multiple-family dwellings of one or more stories in height
2	W1A	Light wood frame multi-unit, multi-story residential buildings with plan areas on each floor of greater than 3,000 square feet
3	W2	Wood frame commercial and industrial buildings with a floor area larger than 5,000 square feet. For commercial and industrial buildings with less than 5,000 square feet, the W2 type can be used as well.
4	S1	Steel moment-resisting frame buildings
5	S2	Braced steel frame buildings
6	S3	Light metal buildings
7	S4	Steel frame buildings with cast-in-place concrete shear walls
8	S5	Steel frame buildings with unreinforced masonry infill walls
9	C1	Concrete moment-resisting frame buildings
10	C2	Concrete shear wall buildings
11	C3	Concrete frame buildings with unreinforced masonry infill walls
12	PC1	Tilt-up buildings
13	PC2	Precast concrete frame buildings
14	RM1	Reinforced masonry buildings with flexible floor and roof diaphragms
15	RM2	Reinforced masonry buildings with rigid floor and roof diaphragms
16	URM	Unreinforced masonry bearing wall buildings
17	MH	Manufactured housing

(FEMA P-155, 2015)

Table B.3 Hazus Bridge Classification (FEMA, 2020a)

Class	NBI Class	State	Year Built	# Spans	Length of max. Span (meter)	Length less than 20 m	K _{3D}	I-Shape	Design	Description
HWB1	All	Non-CA	<1990		>150	N/A	EQ1	0	Conventional	Major Bridge – Length > 150 m
HWB1	All	CA	<1975		>150	N/A	EQ1	0	Conventional	Major Bridge – Length > 150 m
HWB2	All	Non-CA	>=1990		>150	N/A	EQ1	0	Seismic	Major Bridge – Length > 150 m
HWB2	All	CA	>=1975		>150	N/A	EQ1	0	Seismic	Major Bridge – Length > 150 m
HWB3	All	Non-CA	<1990	1		N/A	EQ1	1	Conventional	Single Span
HWB3	All	CA	<1975	1		N/A	EQ1	1	Conventional	Single Span
HWB4	All	Non-CA	>=1990	1		N/A	EQ1	1	Seismic	Single Span

Table B.3 Hazus Bridge Classification (FEMA, 2020a)

Class	NBI Class	State	Year Built	# Spans	Length of max. Span (meter)	Length less than 20 m	K _{3D}	I-Shape	Design	Description
HWB4	All	CA	>=1975	1		N/A	EQ1	1	Seismic	Single Span
HWB5	101-106	Non-CA	<1990			N/A	EQ1	0	Conventional	Multi-Col. Bent, Simple Support – Concrete
HWB6	101-106	CA	<1975			N/A	EQ1	0	Conventional	Multi-Col. Bent, Simple Support – Concrete
HWB7	101-106	Non-CA	>=1990			N/A	EQ1	0	Seismic	Multi-Col. Bent, Simple Support – Concrete
HWB7	101-106	CA	>=1975			N/A	EQ1	0	Seismic	Multi-Col. Bent, Simple Support – Concrete
HWB8	205-206	CA	<1975			N/A	EQ2	0	Conventional	Single Col., Box Girder - Continuous Concrete
HWB9	205-206	CA	>=1975			N/A	EQ3	0	Seismic	Single Col., Box Girder - Continuous Concrete
HWB10	201-206	Non-CA	<1990			N/A	EQ2	1	Conventional	Continuous Concrete
HWB10	201-206	CA	<1975			N/A	EQ2	1	Conventional	Continuous Concrete
HWB11	201-206	Non-CA	>=1990			N/A	EQ3	1	Seismic	Continuous Concrete
HWB11	201-206	CA	>=1975			N/A	EQ3	1	Seismic	Continuous Concrete
HWB12	301-306	Non-CA	<1990			No	EQ4	0	Conventional	Multi-Col. Bent, Simple Support – Steel
HWB13	301-306	CA	<1975			No	EQ4	0	Conventional	Multi-Col. Bent, Simple Support – Steel
HWB14	301-306	Non-CA	>=1990			N/A	EQ1	0	Seismic	Multi-Col. Bent, Simple Support – Steel
HWB14	301-306	CA	>=1975			N/A	EQ1	0	Seismic	Multi-Col. Bent, Simple Support –

Table B.3 Hazus Bridge Classification (FEMA, 2020a)

Class	NBI Class	State	Year Built	# Spans	Length of max. Span (meter)	Length less than 20 m	K _{3D}	I-Shape	Design	Description
										Steel
HWB15	402-410	Non-CA	<1990			No	EQ5	1	Conventional	Continuous Steel
HWB15	402-410	CA	<1975			No	EQ5	1	Conventional	Continuous Steel
HWB16	402-410	Non-CA	>=1990			N/A	EQ3	1	Seismic	Continuous Steel
HWB16	402-410	CA	>=1975			N/A	EQ3	1	Seismic	Continuous Steel
HWB17	501-506	Non-CA	<1990			N/A	EQ1	0	Conventional	Multi-Col. Bent, Simple Support – Prestressed Concrete
HWB18	501-506	CA	<1975			N/A	EQ1	0	Conventional	Multi-Col. Bent, Simple Support – Prestressed Concrete
HWB19	501-506	Non-CA	>=1990			N/A	EQ1	0	Seismic	Multi-Col. Bent, Simple Support – Prestressed Concrete
HWB19	501-506	CA	>=1975			N/A	EQ1	0	Seismic	Multi-Col. Bent, Simple Support – Prestressed Concrete
HWB20	605-606	CA	<1975			N/A	EQ2	0	Conventional	Single-Col., Box Girder – Prestressed Continuous Concrete
HWB21	605-606	CA	>=1975			N/A	EQ3	0	Seismic	Single-Col., Box Girder – Prestressed Continuous Concrete
HWB22	601-607	Non-CA	<1990			N/A	EQ2	1	Conventional	Continuous Concrete
HWB22	601-607	CA	<1975			N/A	EQ2	1	Conventional	Continuous Concrete
HWB23	601-607	Non-CA	>=1990			N/A	EQ3	1	Seismic	Continuous Concrete
HWB23	601-607	CA	>=1975			N/A	EQ3	1	Seismic	Continuous Concrete
HWB24	301-	Non-	<1990			Yes	EQ6	0	Conventional	Multi-Col.

Table B.3 Hazus Bridge Classification (FEMA, 2020a)

Class	NBI Class	State	Year Built	# Spans	Length of max. Span (meter)	Length less than 20 m	K _{3D}	I-Shape	Design	Description
	306	CA								Bent, Simple Support - Steel
HWB25	301-306	CA	<1975			Yes	EQ6	0	Conventional	Multi-Col. Bent, Simple Support - Steel
HWB26	402-410	Non-CA	<1990			Yes	EQ7	1	Conventional	Continuous Steel
HWB27	402-410	CA	<1975			Yes	EQ7	1	Conventional	Continuous Steel
HWB28										

Appendix C. Data for Hazus Input

Table C.1 RVS Building Data for Hazus Input

HazusID	Structure No.	Area (SF)	Facility Class	Lat.	Long.	Year built	EQ Building Type	EQ Design Level	S _{L1}	RVS Score
TN000100	1	2555	EFFS	36.2645	-89.487	1990	S3	MC	0.9	0.9
TN000201	2.01	5970	EFFS	36.3801	-89.467	1996	S3	MC	2.1	2.1
TN000202	2.02	520	EFFS	36.3801	-89.467	1996	S3	MC	2.1	2.1
TN000301	3.01	1066	EFPS	36.3776	-89.484	1974	RM1L	LC	1.2	1.2
TN000302	3.02	3290	EFPS	36.3776	-89.484	1974	RM1L	LC	1.2	1.2
TN000303	3.03	4830	EFPS	36.3776	-89.484	1974	RM1L	LC	0.0	0.3
TN000400	4	2720	EFPS	36.3782	-89.485	1940	C3L	PC	0.6	0.6
TN000500	5	1420	EFPS	36.2649	-89.487	1970	RM1L	LC	0.5	0.5
TN001300	13	3535	EFFS	35.6722	-89.574	2001	S3	MC	2.8	2.8
TN001401	14.01	2847	EFFS	35.7444	-89.532	2015	W1	MC	3.4	3.4
TN001402	14.02	5672	EFFS	35.7444	-89.532	2015	S3	MC	2.1	2.1
TN001500	15	2247	EFFS	35.8394	-89.410	2012	S3	MC	2.1	2.1
TN001600	16	4781	EFFS	35.8757	-89.395	1998	S3	MC	2.1	2.1
TN001701	17.01	674750	EFHS	35.7444	-89.550	1988	S5L	MC	0.9	0.9
TN001702	17.02	5121	EFHS	35.7444	-89.550	1973	S5L	LC	1.5	1.5
TN001703	17.03	1600	EFHS	35.7444	-89.550	1973	S3	LC	1.8	1.8
TN001800	18	1334	EFFS	36.1608	-89.440	1988	S3	MC	0.7	0.7
TN001901	19.01	4948	EFFS	36.0614	-89.345	1960	S1L	LC	0.7	0.7
TN001902	19.02	2040	EFFS	36.0614	-89.345	1991	S2L	LC	2	2
TN001903	19.03	1061	EFFS	36.0614	-89.345	1991	S2L	LC	2	2
TN002000	20	3150	EFFS	36.0355	-89.479	1995	RM1L	MC	2.3	2.3
TN002100	21	2760	EFFS	36.0462	-89.382	1960	RM1L	LC	0.5	0.5
TN002200	22	9090	EFFS	36.0314	-89.388	1961	RM1L	LC	0.5	0.5
TN002300	23	2090	EFFS	35.9537	-89.320	1995	W1	LC	2.7	2.7
TN002400	24	1100	EFFS	35.9226	-89.351	1987	W1	LC	1.1	1.1
TN002500	25	1787	EFFS	35.9750	-89.390	1993	S1L	LC	2	2
TN002600	26	6472	EFFS	36.1393	-89.384	2006	S1L	MC	2	2
TN002701	27.01	2870	EFFS	36.0883	-89.501	1992	W1	MC	3.3	3.3
TN002702	27.02	957	EFFS	36.0883	-89.501	1992	W1	MC	3.3	3.3
TN002800	28	2210	EFFS	36.0432	-89.193	1992	RM1L	LC	1.9	1.9
TN002900	29	4772	EFFS	36.1125	-89.263	1975	W1	MC	0.5	0.7
TN003000	30	2704	EFFS	35.9515	-89.241	1988	W1	LC	1.1	1.1
TN003100	31	2251	EFFS	36.2042	-89.191	2017	W1	MC	3.3	3.3

Table C.1 RVS Building Data for Hazus Input

HazusID	Structure No.	Area (SF)	Facility Class	Lat.	Long.	Year built	EQ Building Type	EQ Design Level	S _{L1}	RVS Score
TN003200	32	2040	EFFS	35.8051	-89.458	2000	S3	MC	2.1	2.1
TN003300	33	2560	EFFS	35.8042	-89.538	2008	S3	MC	2.1	2.1
TN003400	34	2600	EFFS	35.7493	-89.638	2002	S3	MC	2.1	2.1
TN003501	35.01	4464	EFFS	35.5963	-88.631	1985	RM1L	LC	0	0.3
TN003502	35.02	1732	EFFS	35.5963	-88.631	1985	S3	LC	1.2	1.2
TN003600	36	2681	EFFS	35.5568	-88.965	1991	RM1L	LC	3.2	3.2
TN003700	37	3287	EFFS	35.7670	-88.845	2010	RM1L	LC	3.2	3.2
TN003800	38	3339	EFFS	35.5873	-88.742	1991	RM1L	LC	3.2	3.2
TN003900	39	2559	EFFS	35.6540	-89.026	1989	RM1L	LC	0	0.3
TN004000	40	2808	EFFS	35.5799	-88.839	1975	RM1L	LC	0.6	0.6
TN004100	41	7042	EFFS	35.7186	-88.849	1996	RM1L	LC	2.6	2.6
TN004200	42	6036	EFFS	35.5720	-88.814	1967	S5L	PC	1.1	1.1
TN004300	43	6196	EFFS	35.6352	-88.789	1999	RM1L	PC	3.2	3.2
TN004400	44	8818	EFFS	35.6316	-88.830	1967	RM1L	PC	0.6	0.6
TN004500	45	2910	EFFS	35.6770	-88.713	1988	RM1L	LC	0.6	0.6
TN004600	46	4418	EFFS	35.7247	-88.766	1986	RM1L	LC	0.6	0.6
TN004700	47	3600	EFFS	35.6788	-88.908	1986	RM1L	LC	0.6	0.6
TN004800	48	4000	EFFS	35.6088	-88.889	1975	RM1L	LC	0.6	0.6
TN004900	49	2856	EFFS	35.5511	-89.057	1978	S2L	LC	0.9	0.9
TN005000	50	17903	EFFS	35.6121	-88.814	1967	S5L	PC	0.2	0.5
TN005100	51	8580	EFFS	35.5511	-88.775	1962	RM1L	PC	0.6	0.6
TN005200	52	11904	EFFS	35.6722	-88.833	1982	RM1L	LC	-0.4	0.3
TN005300	53	1880	EFFS	35.7647	-88.677	1985	RM1L	LC	0.6	0.6
TN005400	54	2310	EFFS	35.4594	-88.866	1984	RM1L	LC	0.6	0.6
TN005500	55	2230	EFFS	35.4790	-89.043	1980	S2L	LC	0.9	0.9
TN005600	56	2640	EFFS	35.4867	-88.723	1989	W1	LC	2	2
TN005701	57.01	9034	EFFS	35.6074	-88.918	2012	S2L	LC	2.8	2.8
TN005702	57.02	280	EFFS	35.6074	-88.918	2020	W1	LC	4.3	4.3
TN005703	57.03	1050	EFFS	35.6074	-88.918	2010	S3	LC	2.9	2.9
TN005704	57.04	1167	EFFS	35.6074	-88.918	2010	C2L	LC	3.3	3.3
TN005800	58	3000	EFFS	35.7121	-88.633	2020	S2L	LC	2.8	2.8
TN005900	59	6540	EFFS	35.6934	-88.908	2013	RM1L	LC	2.6	2.6
TN006000	60	5363	EFFS	35.4207	-89.779	1998	RM1L	MC	2.6	2.6
TN006100	61	6294	EFFS	35.4458	-89.782	2016	RM1L	MC	2.6	2.6
TN006200	62	3767	EFFS	35.4211	-89.690	1992	RM1L	MC	2.6	2.6

Table C.1 RVS Building Data for Hazus Input

HazusID	Structure No.	Area (SF)	Facility Class	Lat.	Long.	Year built	EQ Building Type	EQ Design Level	S _{L1}	RVS Score
TN006300	63	3463	EFFS	35.4810	-89.722	1990	RM1L	MC	0.5	0.5
TN006400	64	9190	EFFS	35.5800	-89.646	1963	URML	LC	0.2	0.2
TN006500	65	5100	EFFS	35.4984	-89.524	1988	RM1L	MC	0.6	0.6
TN006600	66	2500	EFFS	35.5825	-89.754	1988	RM1L	MC	0	0.3
TN006700	67	5821	EFFS	35.5398	-89.667	1995	RM1L	LC	2.2	2.2
TN006800	68	7343	EFFS	35.4647	-89.898	1987	RM1L	MC	0.5	0.5
TN006900	69	4248	EFFS	35.5516	-89.824	1987	S3	MC	0.9	0.9
TN007000	70	2042	EFFS	35.4122	-89.533	1986	RM1L	MC	0.6	0.6
TN007100	71	2361	EFFS	35.4139	-89.933	1987	S3	MC	0.9	0.9
TN007200	72	15158	EFFS	35.4477	-89.813	1990	RM1L	MC	0	0.3
TN007301	73.01	70766	EFHL	36.0482	-89.380	1971	RM1M	LC	-0.2	0.3
TN007302	73.02	7811	EFHL	36.0482	-89.380	1990	RM1L	MC	0.5	0.5
TN007303	73.03	1381	EFHL	36.0482	-89.380	1970	S3	LC	1.3	1.3
TN007304	73.04	3983	EFHL	36.0482	-89.380	1990	S3	MC	1.3	1.3
TN007305	73.05	1238	EFHL	36.0482	-89.380	1990	RM1L	MC	0.9	0.9
TN007306	73.06	9955	EFHL	36.0482	-89.380	2006	RM1L	MC	2.7	2.7
TN007400	74	305770	EFHL	35.6367	-88.832	2007	S1H	MC	1.7	1.7
TN007500	75	56174	EFHS	35.6349	-88.828	2017	S5L	MC	0.7	0.7
TN007600	76	47570	EFHL	35.6844	-88.854	1982	C3M	MC	0.2	0.3
TN007701	77.01	89570	EFHM	35.5357	-89.678	1993	RM1L	MC	2.6	2.6
TN007702	77.02	10493	EFHM	35.5357	-89.678	1996	RM1L	MC	3.8	3.8
TN007703	77.03	2470	EFHM	35.5357	-89.678	1995	S3	MC	3.7	3.7
TN007704	77.04	2560	EFHM	35.5357	-89.678	1995	S3	MC	3.7	3.7
TN007705	77.05	744	EFHM	35.5357	-89.678	1995	S3	MC	3.7	3.7
TN007800	78	34001	EFPS	36.0302	-89.384	2002	RM1L	MC	1.9	1.9
TN007900	79	5220	EFPS	36.0320	-89.390	1980	RM1L	MC	0.9	0.9
TN008000	80	2652	EFPS	36.1126	-89.263	1975	RM1L	MC	0.5	0.5
TN008100	81	2260	EFPS	36.2034	-89.191	1975	RM1L	MC	0.9	0.9
TN008200	82	1902	EFPS	35.8752	-89.395	1981	W1	MC	1.8	1.8
TN008301	83.01	2187	EFPS	35.6727	-89.573	1950	URML	LC	0.6	0.6
TN008302	83.02	650	EFPS	35.6727	-89.573	1984	S3	MC	0.9	0.9
TN008400	84	5795	EFPS	35.8379	-89.407	1991	RM1L	MC	2.3	2.3
TN008501	85.01	1300	EFPS	35.7461	-89.556	1994	S3	MC	2.8	2.8
TN008502	85.02	45660	EFPS	35.7461	-89.556	1994	RM1L	MC	2.6	2.6
TN008600	86	4570	EFPS	35.7451	-89.530	1923	W1	PC	2.5	2.5

Table C.1 RVS Building Data for Hazus Input

HazusID	Structure No.	Area (SF)	Facility Class	Lat.	Long.	Year built	EQ Building Type	EQ Design Level	S _{L1}	RVS Score
TN008801	88.01	51694	EFPS	35.5797	-88.916	2017	RM1L	MC	3.2	3.2
TN008802	88.02	9020	EFPS	35.5796	-88.916	2017	RM1L	MC	3.9	3.9
TN008803	88.03	9940	EFPS	35.5796	-88.916	2017	RM1L	MC	3.9	3.9
TN008804	88.04	9740	EFPS	35.5796	-88.916	2017	RM1L	MC	2.6	2.6
TN008805	88.05	6198	EFPS	35.5796	-88.916	2017	RM1L	MC	3.9	3.9
TN008900	89	26893	EFPS	35.6104	-88.814	1975	RM1L	MC	1.3	1.3
TN009000	90	52383	EFPS	35.6091	-88.819	1984	RM1L	MC	-0.4	0.3
TN009100	91	6818	EFPS	35.6722	-88.831	1982	URML	MC	0.6	0.6
TN009400	94	10971	EFPS	35.4437	-89.783	2016	RM1L	MC	1.6	1.6
TN009500	95	1891	EFPS	35.4856	-89.723	1990	S3	MC	0.9	0.9
TN009600	96	59230	EFPS	35.5434	-89.651	1992	S5L	MC	1.1	1.1
TN009700	97	7470	EFPS	35.5635	-89.645	1963	URML	LC	0.3	0.3
TN009800	98	4273	EFPS	35.4116	-89.532	1986	RM1L	MC	1.3	1.3
TN009900	99	3950	EFPS	35.4473	-89.813	1990	RM1L	MC	0.5	0.5
TN010000	100	106480	EFS1	36.0497	-89.435	1996	RM1L	MC	2.6	2.6
TN010100	101	71175	EFS1	36.0871	-89.379	2012	RM1L	MC	2.3	2.3
TN010200	102	180000	EFS1	36.0331	-89.353	2001	RM1L	MC	1.9	1.9
TN010301	103.01	225000	EFS1	36.0556	-89.385	1972	C3L	LC	0.3	0.3
TN010302	103.02	20000	EFS1	36.0552	-89.386	1974	RM1L	LC	0.5	0.5
TN010400	104	58857	EFS1	36.0468	-89.362	1992	RM1L	MC	1.9	1.9
TN010501	105.01	21700	EFS1	36.0386	-89.377	2005	RM1L	MC	2.3	2.3
TN010502	105.02	62125	EFS1	36.0382	-89.377	1964	RM1L	LC	0.5	0.5
TN010503	105.03	22400	EFS1	36.0377	-89.377	1997	RM1L	MC	2.7	2.7
TN010600	106	41782	EFS1	35.9711	-89.389	1950	RM1L	LC	0.1	0.3
TN010901	109.01	11225	EFS2	36.0475	-89.392	1971	C3L	LC	0.9	0.9
TN010902	109.02	37361	EFS2	36.0473	-89.391	1971	C3L	LC	0.6	0.6
TN010903	109.03	22470	EFS2	36.0471	-89.389	1971	C3L	LC	0.6	0.6
TN010904	109.04	12268	EFS2	36.0489	-89.391	1971	RM1L	LC	0.1	0.3
TN010905	109.05	17600	EFS2	36.0489	-89.390	1971	RM1L	LC	0.5	0.5
TN010906	109.06	35531	EFS2	36.0490	-89.388	1971	RM1L	LC	0.1	0.3
TN010907	109.07	6091	EFS2	36.0496	-89.388	1971	RM1L	LC	0.9	0.9
TN011000	110	51170	EFS1	36.0347	-89.482	1919	S5L	PC	0.4	0.5
TN011100	111	194800	EFS1	36.1034	-89.292	2003	S5L	MC	0.5	0.5
TN011200	112	99614	EFS1	36.1145	-89.284	1970	C3L	LC	0.6	0.6
TN011301	113.01	40000	EFS1	36.1175	-89.259	2012	RM1L	MC	2.3	2.3

Table C.1 RVS Building Data for Hazus Input

HazusID	Structure No.	Area (SF)	Facility Class	Lat.	Long.	Year built	EQ Building Type	EQ Design Level	S _{L1}	RVS Score
TN011302	113.02	15800	EFS1	36.1172	-89.260	1978	S5L	MC	0.8	0.8
TN011303	113.03	12530	EFS1	36.1179	-89.260	1970	S5L	LC	1.1	1.1
TN011401	114.01	38000	EFS2	36.1200	-89.257	1975	URML	MC	0.6	0.6
TN011402	114.02	10400	EFS2	36.1202	-89.258	1975	URML	MC	0.3	0.3
TN011403	114.03	1290	EFS2	36.1200	-89.256	1975	S3	MC	1.3	1.3
TN011500	115	27969	EFS1	36.2005	-89.184	1959	S5L	LC	0.4	0.5
TN011601	116.01	97050	EFS1	36.2658	-89.481	1937	RM1L	PC	0.1	0.3
TN011602	116.02	1700	SDFLT	36.2660	-89.481	1980	S3	MC	1.3	1.3
TN011603	116.03	714	SDFLT	36.2653	-89.478	1981	S3	MC	0.7	0.7
TN011604	116.04	280	SDFLT	36.2660	-89.479	2004	RM1L	MC	2.7	2.7
TN011701	117.01	38755	EFS1	36.3778	-89.475	1951	URML	LC	0.3	0.3
TN011702	117.02	2952	EFS1	36.3774	-89.475	1976	URML	MC	0.9	0.9
TN011703	117.03	7570	EFS1	36.3771	-89.474	1980	S3	MC	1.3	1.3
TN011704	117.04	2015	EFS1	36.3777	-89.475	1981	S3	MC	1.3	1.3
TN011801	118.01	70933	EFS1	36.3755	-89.473	1962	C1L	LC	0.1	0.3
TN011802	118.02	8660	EFS1	36.3762	-89.473	1976	URML	MC	0.6	0.6
TN011803	118.03	170	EFS1	36.3748	-89.472	1995	URML	MC	0.9	0.9
TN011804	118.04	5750	EFS1	36.3762	-89.472	2004	RM1L	MC	2.7	2.7
TN011901	119.01	46598	EFS1	35.8800	-89.405	1967	RM1L	LC	0.5	0.5
TN011902	119.02	39247	EFS1	35.8794	-89.405	1996	RM1L	MC	1.9	1.9
TN011903	119.03	12915	EFS1	35.8808	-89.405	1977	RM1L	MC	0.5	0.5
TN011904	119.04	39900	EFS1	35.8799	-89.404	1947	RM1L	LC	0.1	0.3
TN012001	120.01	61949	EFS1	35.8825	-89.404	1978	RM1L	MC	0.1	0.3
TN012002	120.02	27125	EFS1	35.8827	-89.405	1996	RM1L	MC	1.9	1.9
TN012200	122	108948	EFS1	35.7318	-89.557	1996	RM1L	MC	3.1	3.1
TN012301	123.01	79400	EFS1	35.7350	-89.539	1968	RM1L	LC	0	0.3
TN012302	123.02	36400	EFS1	35.7348	-89.538	1996	PC2L	MC	3.2	3.2
TN012303	123.03	13000	EFS1	35.7356	-89.537	2014	RM1L	MC	3.8	3.8
TN012304	123.04	34000	EFS1	35.7360	-89.538	1977	RM1L	MC	0.7	0.7
TN012305	123.05	39975	EFS1	35.7361	-89.539	2004	PC2L	MC	3.3	3.3
TN012400	124	98374	EFS1	35.7245	-89.556	1980	RM1L	MC	0	0.3
TN012500	125	106426	EFS1	35.7287	-89.556	1987	RM1L	MC	0	0.3
TN013000	130	38903	EFS2	35.7797	-89.519	1973	RM1L	LC	0.1	0.3
TN013100	131	62400	EFS2	35.7388	-89.541	1975	RM1L	MC	0.5	0.5
TN013300	133	62728	EFS1	35.5510	-88.974	1998	RM1L	MC	2.6	2.6

Table C.1 RVS Building Data for Hazus Input

HazusID	Structure No.	Area (SF)	Facility Class	Lat.	Long.	Year built	EQ Building Type	EQ Design Level	S _{L1}	RVS Score
TN013500	135	3714	EFS1	35.6484	-88.812	1967	URML	PC	0.1	0.2
TN013501	135.01	36478	EFS1	35.5780	-88.924	1955	URML	LC	0.1	0.2
TN013502	135.02	1650	EFS1	35.5786	-88.924	1967	S3	LC	2.2	2.2
TN013503	135.03	3715	EFS1	35.5788	-88.924	1967	URML	LC	0.1	0.2
TN013601	136.01	39890	EFS1	35.7135	-88.859	1996	RM1L	MC	3.2	3.2
TN013602	136.02	8864	EFS1	35.7129	-88.859	1996	S2L	MC	2.8	2.8
TN013603	136.03	6943	EFS1	35.7126	-88.859	1996	S2L	MC	3.6	3.6
TN013604	136.04	790	EFS1	35.7143	-88.860	1996	S3	MC	3.9	3.9
TN013605	136.05	790	EFS1	35.7142	-88.860	1996	S3	MC	3.9	3.9
TN013606	136.06	790	EFS1	35.7140	-88.860	1996	S3	MC	3.9	3.9
TN013607	136.07	790	EFS1	35.7139	-88.860	1996	S3	MC	3.9	3.9
TN013608	136.08	790	EFS1	35.7139	-88.859	1996	S3	MC	3.9	3.9
TN013609	136.09	790	EFS1	35.7138	-88.860	1996	S3	MC	3.9	3.9
TN013610	136.1	790	EFS1	35.7138	-88.859	1996	S3	MC	3.9	3.9
TN013611	136.11	790	EFS1	35.7137	-88.860	1996	S3	MC	3.9	3.9
TN013612	136.12	790	EFS1	35.7136	-88.859	1996	S3	MC	3.9	3.9
TN013700	137	35860	EFS1	35.6256	-88.813	2000	RM1L	MC	2.6	2.6
TN013800	138	69450	EFS1	35.6212	-88.791	1961	RM1L	LC	0	0.3
TN013900	139	40500	EFS1	35.6558	-88.840	1980	URML	LC	0.1	0.2
TN013901	139.01	51100	EFS1	35.6558	-88.840	1980	RM2L	MC	0.6	0.6
TN013902	139.02	15482	EFS1	35.6557	-88.839	1980	S2L	MC	1.7	1.7
TN013903	139.03	933	EFS1	35.6558	-88.839	1980	S3	MC	2.2	2.2
TN013904	139.04	842	EFS1	35.6560	-88.839	1980	S3	MC	2.2	2.2
TN014000	140	31500	EFS1	35.6872	-88.756	1992	URML	LC	0.2	0.2
TN014001	140.01	32700	EFS1	35.6872	-88.756	1992	RM1L	MC	2.6	2.6
TN014002	140.02	9178	EFS1	35.6867	-88.757	1992	S3	MC	3.9	3.9
TN014003	140.03	800	EFS1	35.6874	-88.756	1992	S3	MC	3.9	3.9
TN014004	140.04	710	EFS1	35.6872	-88.756	1992	S3	MC	3.9	3.9
TN014005	140.05	1843	EFS1	35.6870	-88.756	1992	S3	MC	3.9	3.9
TN014006	140.06	725	EFS1	35.6869	-88.756	1992	S3	MC	3.9	3.9
TN014007	140.07	725	EFS1	35.6868	-88.756	1992	S3	MC	2.9	2.9
TN014100	141	29071	EFS1	35.5413	-88.826	1962	URML	PC	0.1	0.2
TN014101	141.01	15670	EFS1	35.5412	-88.826	1962	URML	LC	0.1	0.2
TN014102	141.02	29850	EFS1	35.5411	-88.826	1962	URML	LC	0.1	0.2
TN014103	141.03	9958	EFS1	35.5412	-88.825	1962	S2L	LC	0.3	0.5

Table C.1 RVS Building Data for Hazus Input

HazusID	Structure No.	Area (SF)	Facility Class	Lat.	Long.	Year built	EQ Building Type	EQ Design Level	S _{L1}	RVS Score
TN014104	141.04	810	EFS1	35.5408	-88.825	1962	W1	LC	3.3	3.3
TN014105	141.05	870	EFS1	35.5407	-88.825	1962	W1	LC	3.3	3.3
TN014200	142	9857	EFS1	35.6211	-88.802	1961	URML	PC	0.6	0.6
TN014201	142.01	41240	EFS1	35.6210	-88.803	1961	RM1L	LC	0.6	0.6
TN014202	142.02	1774	EFS1	35.6208	-88.803	1991	S2L	MC	3.6	3.6
TN014300	143	58571	EFS1	35.5691	-88.813	1962	URML	PC	1.1	1.1
TN014301	143.01	52372	EFS1	35.5690	-88.810	1962	RM1L	LC	0	0.3
TN014302	143.02	57870	EFS1	35.5690	-88.813	1962	C1L	LC	0	0.3
TN014303	143.03	1810	EFS1	35.5683	-88.813	1962	C1L	LC	1.3	1.3
TN014304	143.04	9250	EFS1	35.5685	-88.812	1962	URML	LC	0.1	0.2
TN014305	143.05	38625	EFS1	35.5691	-88.811	1962	RM1L	LC	0	0.3
TN014306	143.06	15112	EFS1	35.5684	-88.810	1962	RM1L	LC	0	0.3
TN014400	144	59643	EFS1	35.6934	-88.777	1992	URML	LC	0.2	0.2
TN014401	144.01	83970	EFS1	35.6933	-88.777	1992	RM1L	MC	2.6	2.6
TN014402	144.02	800	EFS1	35.6928	-88.777	1992	S3	MC	3.9	3.9
TN014403	144.03	800	EFS1	35.6928	-88.777	1992	S3	MC	3.9	3.9
TN014404	144.04	800	EFS1	35.6929	-88.777	1992	S3	MC	3.9	3.9
TN014405	144.05	800	EFS1	35.6928	-88.777	1992	S3	MC	3.9	3.9
TN014500	145	36143	EFS1	35.6309	-88.833	1964	URML	PC	0.1	0.2
TN014501	145.01	89490	EFS1	35.6312	-88.833	1964	S5L	LC	0.5	0.5
TN014502	145.02	790	EFS1	35.6303	-88.833	1964	S3	LC	2.2	2.2
TN014503	145.03	790	EFS1	35.6302	-88.833	1964	S3	LC	2.2	2.2
TN014504	145.04	790	EFS1	35.6302	-88.833	1964	S3	LC	2.2	2.2
TN014505	145.05	790	EFS1	35.6302	-88.833	1964	S3	LC	2.2	2.2
TN014506	145.06	790	EFS1	35.6301	-88.833	1964	S3	LC	2.2	2.2
TN014507	145.07	790	EFS1	35.6301	-88.833	1964	S3	LC	2.2	2.2
TN014600	146	44961	EFS1	35.6126	-88.800	1949	C2L	LC	-0.1	0.3
TN014700	147	38214	EFS1	35.6513	-88.812	1979	URML	LC	0.1	0.2
TN014701	147.01	18150	EFS1	35.6512	-88.812	1979	RM2L	MC	0	0.3
TN014702	147.02	93161	EFS1	35.6512	-88.812	1979	RM2L	MC	0	0.3
TN014800	148	95521	EFS1	35.6116	-88.761	1975	RM1L	MC	0	0.3
TN014900	149	78857	EFS1	35.6927	-88.828	1992	URML	LC	0.2	0.2
TN014901	149.01	45200	EFS1	35.6912	-88.828	1943	S5L	PC	1.1	1.1
TN014902	149.02	7283	EFS1	35.6915	-88.828	1943	URML	PC	1.1	1.1
TN014903	149.03	15954	EFS1	35.6914	-88.827	1943	URML	PC	0.1	0.2

Table C.1 RVS Building Data for Hazus Input

HazusID	Structure No.	Area (SF)	Facility Class	Lat.	Long.	Year built	EQ Building Type	EQ Design Level	S _{L1}	RVS Score
TN014904	149.04	1223	EFS1	35.6918	-88.827	1943	W1	PC	3.3	3.3
TN014905	149.05	5698	EFS1	35.6923	-88.827	1970	RM1L	LC	1.3	1.3
TN014906	149.06	39616	EFS1	35.6922	-88.828	1992	RM1L	MC	2.6	2.6
TN014907	149.07	20878	EFS1	35.6926	-88.828	1970	S5L	LC	1.1	1.1
TN014908	149.08	47531	EFS1	35.6930	-88.829	1970	RM1L	LC	0	0.3
TN014909	149.09	800	EFS1	35.6933	-88.828	1970	S3	LC	2.2	2.2
TN014910	149.1	800	EFS1	35.6933	-88.828	1970	S3	LC	2.2	2.2
TN014911	149.11	800	EFS1	35.6932	-88.828	1970	S3	LC	2.2	2.2
TN014912	149.12	800	EFS1	35.6932	-88.828	1970	S3	LC	2.2	2.2
TN015000	150	40750	EFS1	35.6261	-88.816	2003	RM1L	MC	3.2	3.2
TN015100	151	73950	EFS1	35.7169	-88.834	1992	RM1L	MC	3.2	3.2
TN015200	152	53382	EFS1	35.6298	-88.801	1971	C3L	LC	-0.1	0.3
TN015300	153	30500	EFS1	35.7228	-88.756	1992	URML	LC	0.2	0.2
TN015301	153.01	30500	EFS1	35.7226	-88.756	1992	C1L	MC	2.3	2.3
TN015302	153.02	733	EFS1	35.7227	-88.755	1992	S3	MC	3.9	3.9
TN015303	153.03	760	EFS1	35.7227	-88.755	1992	S3	MC	3.9	3.9
TN015304	153.04	785	EFS1	35.7227	-88.755	1992	S3	MC	3.9	3.9
TN015305	153.05	7763	EFS1	35.7225	-88.755	1992	RM2L	MC	3.9	3.9
TN015400	154	67470	EFS1	35.6227	-88.789	1961	RM1L	LC	0.6	0.6
TN015500	155	62929	EFS1	35.6750	-88.759	1975	URML	LC	0.1	0.2
TN015501	155.01	99485	EFS1	35.6750	-88.759	1975	RM1L	MC	0	0.3
TN015502	155.02	5987	EFS1	35.6738	-88.761	1975	RM1L	MC	1.3	1.3
TN015503	155.03	1174	EFS1	35.6750	-88.759	1975	S3	MC	2.2	2.2
TN015504	155.04	1174	EFS1	35.6745	-88.759	1975	S3	MC	2.2	2.2
TN015505	155.05	1174	EFS1	35.6745	-88.759	1975	S3	MC	2.2	2.2
TN015506	155.06	5592	EFS1	35.6745	-88.758	1975	RM1L	MC	1.3	1.3
TN015600	156	58200	EFS1	35.6294	-88.817	1941	RM1L	PC	0	0.3
TN015700	157	28500	EFS1	35.6126	-88.800	1961	URML	PC	0.1	0.2
TN015701	157.01	9712	EFS1	35.5797	-88.830	1961	RM1L	LC	0	0.3
TN015702	157.02	14533	EFS1	35.5797	-88.830	1961	RM1L	LC	0	0.3
TN015703	157.03	16065	EFS1	35.5798	-88.829	1961	RM1L	LC	0	0.3
TN015704	157.04	13292	EFS1	35.5798	-88.829	1961	RM1L	LC	0	0.3
TN015705	157.05	12116	EFS1	35.5797	-88.828	1961	RM1L	LC	0	0.3
TN015800	158	76124	EFS1	35.6282	-88.833	2000	RM1L	MC	2.6	2.6
TN015900	159	3500	EFS1	35.6465	-88.789	1971	URML	PC	0.1	0.2

Table C.1 RVS Building Data for Hazus Input

HazusID	Structure No.	Area (SF)	Facility Class	Lat.	Long.	Year built	EQ Building Type	EQ Design Level	S _{L1}	RVS Score
TN015901	159.01	11064	EFS1	35.6464	-88.789	2007	S5L	MC	0.7	0.7
TN015902	159.02	17339	EFS1	35.6457	-88.789	1971	W1	LC	1.2	1.6
TN015903	159.03	1422	EFS1	35.6459	-88.789	1971	S3	LC	2.2	2.2
TN016000	160	4357	EFS1	35.6543	-88.826	1979	URML	LC	-0.2	0.2
TN016100	161	53071	EFS1	35.6694	-88.867	1991	URML	LC	0.2	0.2
TN016101	161.01	49280	EFS1	35.6694	-88.864	2009	RM1L	MC	2.6	2.6
TN016102	161.02	24555	EFS1	35.6695	-88.865	2000	S5L	MC	0.7	0.7
TN016103	161.03	12850	EFS1	35.6697	-88.866	2000	RM1L	MC	3.9	3.9
TN016104	161.04	48057	EFS1	35.6700	-88.867	1991	RM1L	MC	2.6	2.6
TN016105	161.05	13571	EFS1	35.6692	-88.866	1991	RM1L	MC	3.9	3.9
TN016106	161.06	4853	EFS1	35.6682	-88.866	2000	RM1L	MC	3.9	3.9
TN016200	162	17143	EFS1	35.6514	-88.854	1980	URML	LC	0.1	0.2
TN016201	162.01	29032	EFS1	35.6518	-88.853	2011	RM1L	MC	2.6	2.6
TN016202	162.02	3440	EFS1	35.6520	-88.854	1980	W1	MC	3.3	3.3
TN016203	162.03	34183	EFS1	35.6514	-88.854	1980	RM1L	MC	0	0.3
TN016204	162.04	17653	EFS1	35.6513	-88.855	1980	S1L	MC	1.8	1.8
TN016205	162.05	1702	EFS1	35.6509	-88.854	2011	W1	MC	5.6	5.6
TN016206	162.06	2731	EFS1	35.6511	-88.853	1980	W1	MC	2	2
TN016300	163	80857	EFS1	35.7028	-88.890	1996	URML	LC	0.2	0.2
TN016301	163.01	8300	EFS1	35.7022	-88.891	2002	RM1L	MC	2.6	2.6
TN016302	163.02	52092	EFS1	35.7027	-88.890	2002	RM1L	MC	2.6	2.6
TN016303	163.03	32880	EFS1	35.7035	-88.890	2002	RM1L	MC	3.2	3.2
TN016304	163.04	7807	EFS1	35.7039	-88.890	2002	S1L	MC	3.7	3.7
TN016305	163.05	127470	EFS1	35.7059	-88.889	1996	RM1L	MC	2.6	2.6
TN016306	163.06	10950	EFS1	35.7081	-88.890	2002	RM1L	MC	3.9	3.9
TN016400	164	8214	EFS1	35.7176	-88.861	1996	URML	LC	0.2	0.2
TN016401	164.01	7911	EFS1	35.7200	-88.863	1996	RM1L	MC	3.3	3.3
TN016402	164.02	21270	EFS1	35.7203	-88.862	2000	RM1L	MC	3.9	3.9
TN016500	165	1286	EFS1	35.6811	-88.830	1991	URML	LC	0.7	0.7
TN016600	166	52071	EFS1	35.6894	-88.908	1996	URML	LC	0.2	0.2
TN016601	166.01	121874	EFS1	35.6891	-88.908	1996	URML	MC	0.2	0.2
TN016602	166.02	10410	EFS1	35.6881	-88.908	1996	URML	MC	1.2	1.2
TN016603	166.03	1630	EFS1	35.6879	-88.907	2013	URML	MC	1.2	1.2
TN016700	167	1071	EFS1	35.6668	-88.812	1979	URML	LC	0.1	0.2
TN016800	168	4857	EFS1	35.6514	-88.858	1980	URML	LC	1.1	1.1

Table C.1 RVS Building Data for Hazus Input

HazusID	Structure No.	Area (SF)	Facility Class	Lat.	Long.	Year built	EQ Building Type	EQ Design Level	S _{L1}	RVS Score
TN016900	169	17750	EFS2	35.6349	-88.848	1964	URML	PC	0.6	0.6
TN017000	170	5583	EFS2	35.6369	-88.848	1964	URML	PC	0.1	0.2
TN017100	171	428667	EFS2	35.6456	-88.782	1971	URML	PC	1.1	1.1
TN017200	172	50250	EFS2	35.6068	-88.920	1975	URML	LC	0.1	0.2
TN017201	172.01	10810	EFS2	35.6071	-88.920	1975	URML	MC	1.1	1.1
TN017202	172.02	3705	EFS2	35.6071	-88.919	1975	URML	MC	0.6	0.6
TN017203	172.03	9760	EFS2	35.6066	-88.920	1975	URML	MC	1.1	1.1
TN017204	172.04	30494	EFS2	35.6065	-88.920	1975	URML	MC	0.1	0.2
TN017205	172.05	9365	EFS2	35.6066	-88.919	1975	URML	MC	1.1	1.1
TN017300	173	335083	EFS2	35.6769	-88.859	1991	URML	LC	0.7	0.7
TN017301	173.01	23970	EFS2	35.6754	-88.863	1991	RM1L	MC	3.2	3.2
TN017302	173.02	16727	EFS2	35.6767	-88.863	1991	RM1L	MC	3.2	3.2
TN017303	173.03	19244	EFS2	35.6768	-88.862	1991	S5L	MC	0.4	0.5
TN017304	173.04	66368	EFS2	35.6770	-88.861	1991	RM1L	MC	2.6	2.6
TN017305	173.05	194500	EFS2	35.6768	-88.859	1991	S5L	MC	0.4	0.5
TN017306	173.06	29372	EFS2	35.6781	-88.858	1991	URML	MC	0.7	0.7
TN017307	173.07	12874	EFS2	35.6795	-88.856	1991	RM1L	MC	3.2	3.2
TN017400	174	145750	EFS2	35.6281	-88.807	1971	URML	PC	0.1	0.2
TN017401	174.01	23670	EFS2	35.6272	-88.807	1971	C3L	LC	0.2	0.3
TN017402	174.02	10710	EFS2	35.6274	-88.807	1971	C3L	LC	1.3	1.3
TN017403	174.03	15205	EFS2	35.6268	-88.806	2009	S5L	MC	1.3	1.3
TN017404	174.04	1725	EFS2	35.6275	-88.805	1994	W1	MC	5.6	5.6
TN017405	174.05	1146	EFS2	35.6275	-88.805	1994	W2	MC	5.5	5.5
TN017406	174.06	16914	EFS2	35.6283	-88.805	2009	C3L	MC	0.8	0.8
TN017407	174.07	4820	EFS2	35.6285	-88.805	2010	W1	MC	5.6	5.6
TN017408	174.08	4005	EFS2	35.6288	-88.806	2010	S1L	MC	3.7	3.7
TN017409	174.09	11430	EFS2	35.6285	-88.806	1971	URML	LC	0.6	0.6
TN017410	174.1	5610	EFS2	35.6281	-88.807	1971	C3L	LC	-0.1	0.3
TN017411	174.11	7931	EFS2	35.6282	-88.807	1971	C3L	LC	0.7	0.7
TN017412	174.12	4271	EFS2	35.6280	-88.808	1971	URML	LC	1.1	1.1
TN017413	174.13	975	EFS2	35.6284	-88.808	1971	URML	LC	1.1	1.1
TN017414	174.14	35170	EFS2	35.6291	-88.807	1971	S2L	LC	1.1	1.1
TN017415	174.15	7444	EFS2	35.6303	-88.807	1996	S1L	MC	3.7	3.7
TN017416	174.16	4701	EFS2	35.6306	-88.806	1971	S3	LC	2.2	2.2
TN017417	174.17	14541	EFS2	35.6312	-88.806	1996	URML	MC	0.7	0.7

Table C.1 RVS Building Data for Hazus Input

HazusID	Structure No.	Area (SF)	Facility Class	Lat.	Long.	Year built	EQ Building Type	EQ Design Level	S _{L1}	RVS Score
TN017500	175	50000	EFS2	35.6237	-88.830	1949	URML	PC	1.1	1.1
TN017501	175.01	12640	EFS2	35.6236	-88.828	1949	C3L	LC	1.3	1.3
TN017502	175.02	8888	EFS2	35.6242	-88.828	1949	URML	LC	0.1	0.2
TN017503	175.03	7802	EFS2	35.6242	-88.829	1949	URML	LC	0.6	0.6
TN017504	175.04	7221	EFS2	35.6242	-88.830	1949	URML	LC	1.1	1.1
TN017505	175.05	7601	EFS2	35.6237	-88.830	1949	RM1L	LC	0.6	0.6
TN017506	175.06	48800	EFS2	35.6238	-88.832	1949	S5L	LC	0.2	0.5
TN017507	175.07	13450	EFS2	35.6231	-88.831	1949	URML	LC	0.6	0.6
TN017508	175.08	22840	EFS2	35.6229	-88.830	1949	URML	LC	0.6	0.6
TN017509	175.09	7137	EFS2	35.6230	-88.829	1949	URML	LC	0.6	0.6
TN017510	175.1	16000	EFS2	35.6230	-88.828	1949	C3L	LC	0.2	0.3
TN017600	176	6478	EFS2	35.6993	-88.856	1996	RM1L	MC	3.9	3.9
TN017700	177	50000	EFS2	35.6681	-88.833	1980	URML	LC	1.1	1.1
TN017800	178	50000	EFS2	35.6456	-88.780	1971	URML	PC	1.1	1.1
TN017801	178.01	18555	EFS2	35.6455	-88.780	1971	RM1L	LC	0	0.3
TN017802	178.02	17830	EFS2	35.6457	-88.781	1971	RM1L	LC	0.3	0.3
TN017803	178.03	35203	EFS2	35.6456	-88.782	1971	S5L	LC	1.8	1.8
TN017804	178.04	5714	EFS2	35.6460	-88.783	1971	URML	LC	1.1	1.1
TN017805	178.05	13400	EFS2	35.6451	-88.783	1971	C3L	LC	0.7	0.7
TN017806	178.06	39050	EFS2	35.6448	-88.781	1971	RM1L	LC	0.6	0.6
TN017807	178.07	11630	EFS2	35.6440	-88.780	1971	RM1L	LC	1.3	1.3
TN017808	178.08	25280	EFS2	35.6438	-88.779	1971	RM1L	LC	0.7	0.7
TN017809	178.09	20953	EFS2	35.6445	-88.779	1971	S5L	LC	1.2	1.2
TN017810	178.1	24227	EFS2	35.6451	-88.780	1971	C3L	LC	0.2	0.3
TN017900	179	62538	EFS1	35.5007	-88.738	1991	RM1L	MC	2.6	2.6
TN018000	180	2571	EFS1	35.4987	-88.749	1977	URML	LC	1.1	1.1
TN018101	181.01	88904	EFS1	35.4222	-89.767	2007	RM1L	MC	2.6	2.6
TN018102	181.02	8400	EFS1	35.4228	-89.767	2014	RM1L	MC	3.8	3.8
TN018200	182	120130	EFS1	35.4824	-89.743	1999	RM1L	MC	2.6	2.6
TN018301	183.01	178127	EFS1	35.4784	-89.747	1995	RM1L	MC	2.6	2.6
TN018302	183.02	880	EFS1	35.4787	-89.748	2012	RM1L	MC	3.3	3.3
TN018303	183.03	1296	EFS1	35.4808	-89.745	1996	RM1L	MC	3.8	3.8
TN018304	183.04	5040	EFS1	35.4800	-89.746	1996	RM1L	MC	3.8	3.8
TN018400	184	83536	EFS1	35.4805	-89.737	1981	RM1L	MC	0	0.3
TN018500	185	29907	EFS1	35.5578	-89.664	1992	S5L	MC	1.1	1.1

Table C.1 RVS Building Data for Hazus Input

HazusID	Structure No.	Area (SF)	Facility Class	Lat.	Long.	Year built	EQ Building Type	EQ Design Level	S _{L1}	RVS Score
TN018600	186	114997	EFS1	35.5423	-89.643	1992	RM1L	MC	2.6	2.6
TN018701	187.01	85669	EFS1	35.5576	-89.661	1975	RM1L	MC	0	0.3
TN018702	187.02	8400	EFS1	35.5568	-89.661	2003	RM1L	MC	3.8	3.8
TN018801	188.01	83992	EFS1	35.4576	-89.645	2002	RM1L	MC	2.6	2.6
TN018802	188.02	4056	EFS1	35.4571	-89.645	2002	S5L	MC	1.7	1.7
TN018803	188.03	4056	EFS1	35.4578	-89.644	2002	S5L	MC	1.7	1.7
TN018900	189	92058	EFS1	35.5423	-89.641	1983	RM1L	MC	0.7	0.7
TN019001	190.01	67650	EFS1	35.5571	-89.650	1982	RM1L	MC	1.2	1.2
TN019002	190.02	22550	EFS1	35.5567	-89.649	1963	RM1L	LC	0.7	0.7
TN019003	190.03	11200	EFS1	35.5567	-89.650	2004	RM1L	MC	3.8	3.8
TN019004	190.04	17812	EFS1	35.5563	-89.650	1980	RM1L	MC	1.2	1.2
TN019005	190.05	10775	EFS1	35.5564	-89.649	1970	RM1L	LC	1.2	1.2
TN019006	190.06	9906	EFS1	35.5562	-89.648	1963	RM1L	LC	0.7	0.7
TN019100	191	10571	EFS1	35.5341	-89.635	1983	RM1L	MC	0	0.3
TN019101	191.01	30240	EFS1	35.5341	-89.635	2003	RM1L	MC	2.6	2.6
TN019102	191.02	34339	EFS1	35.5347	-89.635	2012	RM1L	MC	3.8	3.8
TN019200	192	28417	EFS2	35.5452	-89.660	1963	URML	LC	0.6	0.6
TN019201	192.01	46050	EFS2	35.5453	-89.660	1963	RM1L	LC	0.5	0.5
TN019202	192.02	15270	EFS2	35.5446	-89.660	2017	S5L	MC	1.1	1.1
TN019300	193	29963	EFS2	35.5309	-89.685	2000	S5L	MC	0.6	0.6
TN019400	194	81628	EFS1	35.4644	-89.900	1981	RM1L	MC	0	0.3
TN019500	195	84633	EFS1	35.4530	-89.803	1985	RM1L	MC	0	0.3
TN019601	196.01	112000	EFS1	35.4586	-89.803	1992	RM1L	MC	2.6	2.6
TN019602	196.02	5000	EFS1	35.4586	-89.803	1992	S3	MC	3.7	3.7
TN019701	197.01	125211	EFS1	35.4539	-89.801	1982	RM1L	MC	0	0.3
TN019702	197.02	9510	EFS1	35.4547	-89.800	2003	S3	MC	3.7	3.7
TN019703	197.03	5216	EFS1	35.4549	-89.800	2003	S3	MC	3.7	3.7
TN019800	198	42571	EFS1	35.6274	-88.811	1951	URML	PC	0.1	0.2

Table C.2 Bridge Data for Hazus Input

HazusID	Bridge Class	Width (m)	No. Spans	Length (m)	Max Span Length (m)	Skew Angle	Year Built	Latitude	Longitude
TN100032	HWB3	9	1	14	14	0	1981	36.059	-88.295

Table C.2 Bridge Data for Hazus Input

HazusID	Bridge Class	Width (m)	No. Spans	Length (m)	Max Span Length (m)	Skew Angle	Year Built	Latitude	Longitude
TN100033	HWB23	56	2	4	4	0	1946	36.034	-89.368
TN100034	HWB28	18	1	9	9		1930	36.099	-89.277
TN100035	HWB10	16	2	65	32	0	1979	36.206	-89.211
TN001276	HWB3	10	1	11	11	0	1923	36.078	-89.326
TN001277	HWB5	10	2	16	8	40	1953	36.082	-89.321
TN001278	HWB4	11	1	9	9	45	1923	36.085	-89.316
TN001279	HWB3	11	1	6	6	0	1922	36.085	-89.315
TN001280	HWB5	10	3	26	9	19	1928	36.179	-89.216
TN001281	HWB5	10	3	24	8	18	1928	36.187	-89.209
TN001282	HWB7	13	6	52	9	0	1924	35.933	-89.390
TN001283	HWB4	13	1	29	29	0	2006	35.937	-89.389
TN001284	HWB1	25	59	2165	280	0	1975	36.112	-89.611
TN001285	HWB22	14	3	36	18	11	1977	36.089	-89.569
TN001286	HWB22	14	3	36	18	11	1977	36.089	-89.569
TN001287	HWB22	14	6	134	22	0	1977	36.084	-89.546
TN001288	HWB22	14	6	134	22	0	1977	36.084	-89.546
TN001289	HWB17	14	10	244	24	0	1977	36.241	-89.531
TN001290	HWB17	14	10	244	24	0	1977	36.081	-89.531
TN001291	HWB22	14	6	134	22	0	1977	36.078	-89.518
TN001292	HWB22	14	6	134	22	0	1977	36.078	-89.518
TN001293	HWB22	16	3	44	15	22	1977	36.076	-89.501
TN001294	HWB22	18	3	44	15	22	1977	36.076	-89.501
TN001295	HWB22	14	3	53	19	17	1977	36.075	-89.497
TN001296	HWB22	14	3	53	19	17	1977	36.076	-89.497
TN001297	HWB15	10	2	70	35	28	1977	36.093	-89.586
TN001298	HWB10	13	2	69	37	10	1979	36.069	-89.397
TN001299	HWB10	16	2	69	37	2	1979	36.069	-89.397
TN001300	HWB28	68	2	12	5	45	1979	36.068	-89.390
TN001301	HWB17	13	3	37	13	15	1979	36.068	-89.382
TN001302	HWB17	13	3	37	13	15	1979	36.069	-89.382
TN001303	HWB23	10	2	67	35	10	1979	36.073	-89.348
TN001304	HWB23	10	2	67	35	10	1979	36.073	-89.347
TN001305	HWB28	12	2	8	3	0	1960	36.102	-89.438
TN001306	HWB19	9	3	26	9	0	1960	36.085	-89.487
TN001307	HWB19	11	28	286	23	15	1959	35.948	-89.408
TN001308	HWB19	11	28	286	23	15	1959	35.948	-89.408
TN001309	HWB7	10	11	96	9	0	1995	35.952	-89.404
TN001310	HWB7	10	11	96	9	0	1995	35.952	-89.404
TN001311	HWB7	16	19	165	9	0	1933	36.022	-89.390
TN001312	HWB16	16	18	200	24	0	1933	36.029	-89.386
TN001313	HWB17	26	3	34	12	0	1923	36.054	-89.361
TN001314	HWB28	26	4	20	5	0	1980	36.055	-89.359
TN001315	HWB28	60	2	10	5	10	1979	36.091	-89.321

Table C.2 Bridge Data for Hazus Input

HazusID	Bridge Class	Width (m)	No. Spans	Length (m)	Max Span Length (m)	Skew Angle	Year Built	Latitude	Longitude
TN001316	HWB28	54	2	8	4	15	1979	36.096	-89.315
TN001317	HWB10	14	2	87	43	39	1979	36.122	-89.281
TN001318	HWB22	13	3	51	17	0	1979	36.181	-89.225
TN001319	HWB22	13	3	51	17	0	1979	36.181	-89.224
TN001320	HWB22	16	4	84	30	15	1984	36.066	-89.344
TN001321	HWB22	16	4	84	30	15	1984	36.066	-89.343
TN001322	HWB5	10	11	95	9	0	1959	36.020	-89.405
TN001323	HWB5	10	11	95	9	0	1959	36.020	-89.405
TN001324	HWB14	10	11	132	26	0	1959	36.022	-89.407
TN001325	HWB14	10	11	132	26	0	1959	36.022	-89.407
TN001326	HWB28	10	3	17	6	0	1920	36.059	-89.591
TN001327	HWB17	11	3	55	19	30	1987	36.058	-89.588
TN001328	HWB22	12	3	23	8	0	1985	36.056	-89.579
TN001329	HWB22	12	3	23	8	0	1985	36.051	-89.563
TN001330	HWB28	9	13	168	31	0	1948	36.049	-89.557
TN001331	HWB28	12	3	15	5	15	1997	36.041	-89.526
TN001332	HWB4	13	1	8	7	0	2009	36.036	-89.486
TN001333	HWB4	10	1	8	8	0	1920	36.034	-89.467
TN001334	HWB4	9	1	12	12	0	1920	36.036	-89.426
TN001335	HWB23	13	4	49	20	0	2000	35.976	-89.386
TN001336	HWB16	13	5	177	40	65	2005	35.972	-89.363
TN001337	HWB4	10	1	7	6	45	1940	36.034	-89.439
TN001338	HWB23	13	3	75	25	32	1995	36.038	-89.338
TN001339	HWB17	13	3	75	25	32	1985	36.035	-89.339
TN001340	HWB23	13	3	48	16	0	1994	36.049	-89.334
TN001341	HWB22	15	3	48	20	0	1985	36.049	-89.334
TN001342	HWB23	13	3	61	20	25	1994	36.052	-89.335
TN001343	HWB22	15	3	60	20	25	1985	36.052	-89.335
TN001344	HWB22	14	3	59	34	10	1986	36.025	-89.340
TN001345	HWB22	14	3	59	34	10	1986	36.025	-89.340
TN001346	HWB17	13	5	105	21	10	1986	36.017	-89.340
TN001347	HWB17	13	5	105	21	10	1986	36.017	-89.340
TN001348	HWB19	14	29	690	24	15	1994	35.993	-89.342
TN001349	HWB17	14	29	713	24	10	1986	35.999	-89.342
TN001350	HWB19	13	5	119	24	10	1995	35.994	-89.342
TN001351	HWB17	14	5	119	24	10	1986	35.989	-89.342
TN001352	HWB28	60	2	12	5	25	1979	36.072	-89.397
TN001353	HWB19	14	20	782	41	0	1995	36.136	-89.431
TN001354	HWB3	11	1	11	11	15	1926	36.175	-89.444
TN001355	HWB7	10	3	24	9	30	1926	36.198	-89.457
TN001356	HWB28	9	3	18	6	0	1991	36.161	-89.563
TN001357	HWB28	10	3	15	5	0	1990	36.159	-89.524
TN001358	HWB28	10	3	18	5	0	1990	36.160	-89.515

Table C.2 Bridge Data for Hazus Input

HazusID	Bridge Class	Width (m)	No. Spans	Length (m)	Max Span Length (m)	Skew Angle	Year Built	Latitude	Longitude
TN001359	HWB17	9	3	41	13	8	1985	36.162	-89.508
TN001360	HWB17	9	3	23	8	0	1985	36.162	-89.510
TN001361	HWB17	9	3	23	8	0	1985	36.163	-89.477
TN001362	HWB17	9	3	23	8	30	1985	36.161	-89.461
TN001363	HWB14	16	7	69	11	57	1936	36.031	-89.375
TN001364	HWB28	10	2	7	3	0	1940	36.027	-89.363
TN001365	HWB19	10	4	35	9	0	1939	36.026	-89.335
TN001366	HWB19	11	5	48	13	0	1939	36.026	-89.330
TN001367	HWB19	10	5	48	13	30	1939	36.026	-89.329
TN001368	HWB28	13	3	19	5	37	1986	36.024	-89.284
TN001369	HWB17	11	3	32	11	45	1967	36.033	-89.200
TN001370	HWB17	11	4	50	12	0	1967	36.028	-89.183
TN001371	HWB17	11	4	50	12	0	1967	36.024	-89.173
TN001372	HWB28	12	3	17	5	30	1985	36.187	-89.184
TN001373	HWB28	28	2	9	4	22	1987	36.050	-89.367
TN003015	HWB23	13	21	478	33	19	1990	35.930	-89.390
TN008620	HWB3	9	1	26	25	0	1988	36.038	-89.203
TN008621	HWB17	9	3	52	16	45	1985	36.095	-89.408
TN008622	HWB28	7	3	16	6	0	1982	36.035	-89.280
TN008623	HWB5	9	18	156	9	0	1970	35.973	-89.412
TN008624	HWB4	8	1	21	21	35	2008	35.958	-89.227
TN008625	HWB16	8	5	164	34	0	1994	36.002	-89.647
TN008626	HWB3	7	1	9	9	0	1975	36.052	-89.474
TN008627	HWB4	9	1	27	27	7	1994	36.052	-89.461
TN008628	HWB28	10	2	14	6	45	1994	36.046	-89.426
TN008629	HWB28	7	2	17	6	0	1970	36.085	-89.255
TN008630	HWB4	9	1	30	30	45	2016	36.061	-89.237
TN008631	HWB5	9	3	25	13	0	1960	36.060	-89.215
TN008632	HWB28	8	3	17	6	15	1975	36.060	-89.213
TN008633	HWB28	8	2	9	4	30	1984	36.055	-89.202
TN008634	HWB4	11	1	9	9	0	2000	36.148	-89.263
TN008635	HWB4	8	1	29	28	30	1997	36.086	-89.245
TN008636	HWB28	8	2	11	5	30	1987	36.084	-89.213
TN008637	HWB28	9	3	17	4	45	1992	36.177	-89.495
TN008638	HWB3	7	1	19	15	10	1979	36.171	-89.203
TN008639	HWB17	10	3	55	18	0	1988	35.997	-89.377
TN008640	HWB4	8	1	22	21	15	1997	35.897	-89.277
TN008641	HWB3	6	1	8	8	0	1965	36.018	-89.365
TN008642	HWB28	8	2	10	5	0	1984	35.973	-89.219
TN008643	HWB28	8	2	12	5	30	1986	35.974	-89.218
TN008644	HWB28	8	3	12	4	0	1983	35.975	-89.218
TN008646	HWB28	19	2	7	3	30	2006	36.174	-89.445
TN008647	HWB3	5	1	13	13	15	1974	36.185	-89.467

Table C.2 Bridge Data for Hazus Input

HazusID	Bridge Class	Width (m)	No. Spans	Length (m)	Max Span Length (m)	Skew Angle	Year Built	Latitude	Longitude
TN008648	HWB4	7	1	27	27	0	2014	36.205	-89.337
TN008649	HWB28	7	2	17	9	0	2000	36.207	-89.339
TN008650	HWB3	6	1	19	18	0	1983	36.130	-89.420
TN008651	HWB4	8	1	23	23	15	2003	36.120	-89.411
TN008652	HWB3	5	1	11	11	0	1975	36.141	-89.408
TN008653	HWB28	8	2	10	5	0	1984	36.105	-89.401
TN008654	HWB4	8	1	24	24	10	2005	36.124	-89.369
TN008655	HWB4	11	1	9	9	15	1999	36.167	-89.358
TN008656	HWB28	7	3	16	6	0	1983	36.121	-89.360
TN008657	HWB28	8	2	10	5	15	1983	36.149	-89.320
TN008658	HWB3	7	1	9	8	0	1972	36.130	-89.282
TN008659	HWB28	8	3	17	6	0	1972	36.153	-89.306
TN008660	HWB4	8	1	27	27	0	2015	36.172	-89.328
TN008661	HWB28	10	1	10	9	15	1999	36.166	-89.311
TN008662	HWB28	8	2	14	5	45	1983	36.138	-89.276
TN008663	HWB3	9	1	9	8	0	1988	36.138	-89.276
TN008665	HWB3	7	1	10	10	0	1965	36.140	-89.220
TN008666	HWB28	9	2	8	4	0	1983	36.129	-89.204
TN008667	HWB28	8	2	8	3	30	1984	36.155	-89.275
TN008668	HWB28	13	2	8	3	0	1994	36.147	-89.190
TN008669	HWB28	8	2	12	6	0	1981	36.133	-89.228
TN008670	HWB28	8	2	10	5	15	1984	36.133	-89.170
TN008671	HWB28	8	2	10	5	15	1983	36.111	-89.202
TN008672	HWB3	9	1	7	5	45	1984	36.112	-89.248
TN008673	HWB28	8	3	16	5	20	1984	36.060	-89.169
TN008674	HWB28	8	3	12	4	0	1988	36.083	-89.173
TN008675	HWB28	8	3	15	5	15	1983	36.043	-89.180
TN008676	HWB3	7	1	9	9	0	1975	36.058	-89.229
TN008677	HWB3	7	1	9	9	30	1965	36.049	-89.225
TN008678	HWB3	5	1	9	9	0	1980	36.024	-89.263
TN008679	HWB4	8	1	22	22	45	2008	36.022	-89.283
TN008680	HWB4	6	1	27	27	0	2011	35.997	-89.278
TN008681	HWB28	8	2	10	5	0	1987	36.015	-89.272
TN008682	HWB28	8	2	12	6	0	1980	35.971	-89.250
TN008683	HWB3	6	1	12	12	0	1970	35.950	-89.228
TN008684	HWB28	8	2	7	3	0	1984	35.934	-89.286
TN008685	HWB28	7	3	16	6	0	1998	35.933	-89.283
TN008686	HWB3	7	1	9	9	25	1981	35.959	-89.337
TN008687	HWB28	7	3	17	6	0	1970	35.893	-89.304
TN008688	HWB19	8	3	33	12	45	2012	35.893	-89.302
TN008689	HWB22	7	3	31	10	30	1990	35.921	-89.325
TN008690	HWB28	8	2	7	3	15	1984	35.923	-89.277
TN008691	HWB19	9	3	46	17	0	1992	35.969	-89.386

Table C.2 Bridge Data for Hazus Input

HazusID	Bridge Class	Width (m)	No. Spans	Length (m)	Max Span Length (m)	Skew Angle	Year Built	Latitude	Longitude
TN008692	HWB28	8	2	14	5	45	1984	35.969	-89.438
TN008693	HWB4	8	1	20	18	25	2010	35.976	-89.431
TN008694	HWB3	6	1	7	6	10	1982	35.968	-89.448
TN008695	HWB3	7	1	8	8	22	1975	35.948	-89.457
TN008696	HWB4	10	1	10	9	0	2000	36.049	-89.332
TN008697	HWB4	9	1	21	21	7	1999	36.048	-89.322
TN008698	HWB28	9	2	10	4	45	1983	36.071	-89.304
TN008699	HWB24	6	3	13	7	35	1965	36.073	-89.303
TN008700	HWB3	10	1	11	10	45	1981	36.048	-89.313
TN008701	HWB28	6	3	21	9	15	1965	36.033	-89.438
TN008702	HWB28	8	2	12	6	0	1980	35.939	-89.508
TN008703	HWB28	8	2	12	6	0	1980	36.010	-89.489
TN008704	HWB4	6	1	27	27	0	2012	35.998	-89.546
TN008705	HWB28	6	1	9	8	15	1979	36.046	-89.495
TN008706	HWB28	8	2	10	5	15	1984	36.094	-89.427
TN008707	HWB4	8	1	27	27	7	1994	36.092	-89.422
TN008708	HWB4	6	1	27	27	0	2011	36.087	-89.409
TN008709	HWB28	7	3	17	6	0	1999	36.073	-89.409
TN008711	HWB3	9	1	11	11	0	1981	36.059	-89.297
TN008712	HWB4	8	1	23	23	20	2003	36.101	-89.331
TN008713	HWB28	8	3	16	5	15	1987	36.111	-89.319
TN008714	HWB4	9	1	32	30	45	2010	36.111	-89.345
TN008715	HWB28	8	2	10	4	30	1984	36.119	-89.325
TN008716	HWB28	25	2	11	4	36	1993	36.050	-89.363
TN008717	HWB23	13	2	37	23	0	1998	36.090	-89.357
TN008718	HWB3	8	1	8	8	0	1980	36.101	-89.392
TN008719	HWB28	11	2	7	3	0	1988	36.038	-89.203
TN008720	HWB28	11	2	10	5	15	1988	36.039	-89.200
TN008721	HWB28	8	3	15	5	15	1990	36.005	-89.544
TN008722	HWB5	7	2	20	10	0	1950	35.958	-89.285
TN008723	HWB22	10	2	81	42	5	1979	36.071	-89.464
TN008724	HWB10	10	2	76	40	15	1979	36.070	-89.451
TN008725	HWB10	10	2	76	40	0	1979	36.069	-89.426
TN008726	HWB10	10	2	67	34	10	1979	36.069	-89.418
TN008727	HWB10	14	2	66	33	5	1979	36.068	-89.379
TN008728	HWB11	11	2	66	34	15	1979	36.068	-89.372
TN008729	HWB22	11	3	28	9	0	1982	36.044	-89.350
TN008730	HWB28	9	3	10	3	0	1930	36.173	-89.339
TN008731	HWB5	8	2	16	9	0	1930	36.158	-89.320
TN008732	HWB5	9	14	122	9	0	1957	36.182	-89.360
TN008733	HWB5	9	14	122	9	0	1957	36.186	-89.360
TN008734	HWB17	11	9	113	27	0	1957	36.191	-89.361
TN008735	HWB28	13	2	7	3	0	1960	36.209	-89.360

Table C.2 Bridge Data for Hazus Input

HazusID	Bridge Class	Width (m)	No. Spans	Length (m)	Max Span Length (m)	Skew Angle	Year Built	Latitude	Longitude
TN008736	HWB15	9	14	173	31	0	1956	35.976	-89.402
TN008737	HWB28	12	2	10	5	0	1979	36.158	-89.178
TN008738	HWB28	9	2	7	3	0	1960	36.113	-89.360
TN008739	HWB4	9	1	26	26	0	2002	36.118	-89.357
TN008740	HWB28	8	2	7	3	0	1960	36.121	-89.327
TN008741	HWB17	9	3	46	21	15	1962	36.180	-89.254
TN008742	HWB28	25	2	7	3	0	1960	36.059	-89.380
TN008743	HWB19	23	3	52	18	35	1990	36.064	-89.380
TN008744	HWB3	17	1	7	5	45	1960	36.173	-89.361
TN008745	HWB10	10	2	68	35	0	1980	36.076	-89.343
TN008746	HWB10	10	2	65	33	7	1980	36.090	-89.323
TN008747	HWB10	10	2	72	36	15	1980	36.106	-89.298
TN008748	HWB10	10	2	81	40	15	1979	36.112	-89.290
TN008749	HWB10	11	3	103	39	45	1979	36.127	-89.275
TN008750	HWB10	10	4	101	38	45	1979	36.139	-89.263
TN008751	HWB10	10	4	102	38	45	1979	36.163	-89.240
TN008752	HWB10	10	2	70	35	27	1979	36.172	-89.230
TN008754	HWB23	18	2	85	42	45	1996	35.965	-89.331
TN008755	HWB28	48	2	10	4	35	1996	35.933	-89.290
TN008756	HWB28	43	2	8	4	15	1996	35.929	-89.285
TN008757	HWB28	67	3	17	2	42	1996	35.923	-89.279
TN008758	HWB28	14	2	9	4	30	1998	36.203	-89.185
TN008759	HWB28	12	2	7	3	0	1998	36.190	-89.185
TN008760	HWB4	16	1	10	10	0	2010	36.102	-89.438
TN009385	HWB4	10	1	8	4	18	2014	35.993	-89.671
TN013372	HWB23	9	3	46	15	13	2007	35.976	-89.431
TN018077	HWB28	8	3	17	6	0	1956	35.507	-89.790
TN018032	HWB17	7	3	27	9	30	1988	35.447	-89.962
TN018033	HWB22	7	3	36	12	45	1988	35.447	-89.963
TN005174	HWB5	11	5	44	9	45	1962	35.471	-89.616
TN005192	HWB28	15	3	21	5	45	1995	35.492	-89.596
TN017955	HWB28	10	3	12	4	0	1991	35.407	-89.528
TN018075	HWB5	9	5	48	13	0	1957	35.423	-89.639
TN005154	HWB3	11	1	35	12	0	1966	35.411	-89.832
TN005155	HWB22	11	3	13	13	15	1927	35.411	-89.832
TN018018	HWB17	8	3	38	13	0	1984	35.402	-89.816
TN018022	HWB4	10	1	24	24	0	2014	35.406	-89.828
TN018024	HWB28	8	2	18	9	0	1984	35.417	-89.838
TN018026	HWB28	9	2	12	6	0	2000	35.425	-89.845
TN018069	HWB4	9	1	21	21	0	2005	35.450	-89.847
TN005143	HWB4	11	1	26	25	0	2004	35.495	-89.506
TN005146	HWB28	7.6	2	10	5	0	1960	35.437	-89.745
TN005147	HWB28	8	2	8	4	15	1984	35.434	-89.730

Table C.2 Bridge Data for Hazus Input

HazusID	Bridge Class	Width (m)	No. Spans	Length (m)	Max Span Length (m)	Skew Angle	Year Built	Latitude	Longitude
TN005148	HWB28	18	2	8	4	18	2004	35.480	-89.650
TN005151	HWB7	10	6	52	9	0	1993	35.415	-89.525
TN005153	HWB28	13	2	7	3	0	1929	35.426	-89.506
TN005156	HWB28	10	2	11	3	30	1965	35.427	-89.812
TN005157	HWB28	26	2	7	3	30	1966	35.427	-89.812
TN005158	HWB28	10	2	7	3	45	1933	35.450	-89.781
TN005159	HWB28	21	2	9	3	30	1965	35.462	-89.766
TN005163	HWB3	10	1	8	8	15	1959	35.511	-89.710
TN005164	HWB23	13	3	25	8	30	1998	35.514	-89.708
TN005165	HWB28	15	2	7	3	0	1926	35.512	-89.708
TN005166	HWB28	11	2	7	3	60	1962	35.517	-89.701
TN005173	HWB5	10	3	26	9	30	1962	35.467	-89.624
TN005175	HWB28	17	2	7	3	15	1963	35.479	-89.602
TN005176	HWB5	10	3	26	9	0	1962	35.550	-89.515
TN005179	HWB28	12	3	12	5	30	1956	35.554	-89.539
TN005187	HWB4	13	1	21	21	0	2006	35.564	-89.681
TN005194	HWB28	18	2	7	3	15	1985	35.537	-89.641
TN005195	HWB28	16	2	10	5	42	1985	35.542	-89.638
TN017943	HWB3	8	1	9	9	0	1984	35.398	-89.696
TN017945	HWB28	15	2	10	4	25	2004	35.401	-89.869
TN017951	HWB28	14	2	9	4	25	2012	35.491	-89.684
TN017952	HWB4	8	1	9	8	0	1991	35.503	-89.677
TN017956	HWB4	10	1	18	18	0	2007	35.408	-89.529
TN017957	HWB28	14	2	12	6	15	2013	35.482	-89.720
TN017958	HWB28	11	3	10	3	0	2003	35.480	-89.717
TN017961	HWB28	11	3	11	3	0	1969	35.578	-89.560
TN017964	HWB28	18	2	7	3	25	1974	35.627	-89.653
TN017965	HWB28	10	2	8	4	15	1974	35.626	-89.629
TN017966	HWB4	10	1	23	23	15	2000	35.623	-89.606
TN017967	HWB4	9	1	30	30	15	1997	35.622	-89.605
TN017968	HWB4	8	1	21	21	15	2001	35.604	-89.721
TN017975	HWB28	11	2	12	2	0	2005	35.513	-89.862
TN017980	HWB3	7	1	9	9	0	1972	35.590	-89.788
TN017981	HWB28	9	2	10	5	0	1983	35.596	-89.758
TN017982	HWB28	8	2	10	5	15	1992	35.608	-89.771
TN017983	HWB28	11	2	11	4	47	2005	35.609	-89.739
TN017984	HWB3	8	1	9	8	0	1970	35.591	-89.747
TN017987	HWB3	8	1	9	9	0	1970	35.596	-89.689
TN017988	HWB28	8	2	9	4	23	1983	35.605	-89.582
TN017990	HWB28	12	2	12	6	20	2013	35.572	-89.635
TN017994	HWB28	9	2	10	5	0	1983	35.517	-89.505
TN017995	HWB3	7	1	9	9	3	1970	35.475	-89.537
TN017996	HWB3	8	1	9	9	15	1969	35.542	-89.636

Table C.2 Bridge Data for Hazus Input

HazusID	Bridge Class	Width (m)	No. Spans	Length (m)	Max Span Length (m)	Skew Angle	Year Built	Latitude	Longitude
TN017997	HWB3	7	1	8	8	10	1984	35.426	-89.624
TN017998	HWB3	7	1	7	7	30	1984	35.432	-89.624
TN017999	HWB28	8	2	9	4	30	2006	35.441	-89.590
TN018000	HWB28	8	2	8	4	0	1983	35.435	-89.680
TN018003	HWB28	8	2	7	3	12	1982	35.510	-89.638
TN018004	HWB28	10	2	10	5	0	1984	35.521	-89.694
TN018006	HWB3	8	1	9	9	0	1976	35.491	-89.695
TN018007	HWB23	8	3	26	9	15	2005	35.491	-89.695
TN018013	HWB28	10	2	7	3	15	1987	35.486	-89.717
TN018019	HWB3	6	1	9	9	0	1970	35.411	-89.804
TN018020	HWB3	8	1	9	9	0	1981	35.413	-89.815
TN018023	HWB4	10	1	26	26	0	2010	35.407	-89.815
TN018025	HWB28	11	2	10	5	5	2007	35.492	-89.757
TN018029	HWB28	8	2	8	4	0	1992	35.446	-89.852
TN018030	HWB28	8	2	8	4	15	1994	35.438	-89.898
TN018031	HWB4	7	1	24	24	3	2005	35.447	-89.963
TN018038	HWB28	8	2	8	4	15	2012	35.494	-89.863
TN018043	HWB28	8	3	12	3	15	1983	35.519	-89.823
TN018044	HWB28	9	2	7	3	0	1983	35.533	-89.819
TN018045	HWB3	8	1	9	9	0	1976	35.530	-89.806
TN018046	HWB28	8	3	18	6	15	1989	35.525	-89.777
TN018047	HWB3	8	1	9	9	15	1976	35.485	-89.751
TN018051	HWB28	7	2	9	6	15	2013	35.521	-89.711
TN018052	HWB28	8	2	9	4	30	1984	35.551	-89.687
TN018053	HWB22	8	3	70	24	0	1976	35.555	-90.018
TN018054	HWB4	8	1	24	24	45	2012	35.446	-89.568
TN018056	HWB28	9	2	8	4	15	1983	35.451	-89.638
TN018058	HWB28	8	2	10	5	0	1987	35.424	-89.570
TN018059	HWB4	8	1	7	6	30	2007	35.424	-89.598
TN018060	HWB28	10	3	17	2	60	1990	35.617	-89.621
TN018061	HWB28	8	2	8	4	15	2010	35.426	-89.907
TN018062	HWB28	11	2	8	4	0	2000	35.457	-89.797
TN018063	HWB28	18	2	7	3	0	2000	35.581	-89.658
TN018065	HWB28	12	5	14	2	0	1984	35.396	-89.695
TN018070	HWB28	9	2	7	3	0	1960	35.409	-89.543
TN018072	HWB28	8	5	29	6	0	1954	35.412	-89.572
TN018076	HWB28	11	2	7	2	30	1960	35.416	-89.659
TN018079	HWB28	11	2	10	5	0	1998	35.534	-89.716
TN018081	HWB3	8	1	9	9	0	1957	35.594	-89.791
TN018082	HWB3	8	1	9	9	0	1954	35.603	-89.743
TN018083	HWB28	8	2	9	4	30	1985	35.601	-89.727
TN018085	HWB28	43	2	6	3	24	2015	35.435	-89.673
TN018086	HWB28	12	3	18	6	0	1986	35.564	-89.638

Table C.2 Bridge Data for Hazus Input

HazusID	Bridge Class	Width (m)	No. Spans	Length (m)	Max Span Length (m)	Skew Angle	Year Built	Latitude	Longitude
TN018087	HWB23	9	3	38	14	0	1990	35.531	-89.848
TN018088	HWB28	14	2	7	3	30	1985	35.536	-89.650
TN017989	HWB28	8	2	12	6	0	1970	35.575	-89.602
TN005180	HWB5	11	5	44	9	0	1956	35.561	-89.511
TN018027	HWB28	8	2	8	4	0	1984	35.425	-89.884
TN018014	HWB4	9	1	24	24	0	2005	35.490	-89.778
TN005178	HWB17	12	3	43	14	0	1986	35.553	-89.585
TN017947	HWB4	9	1	24	24	0	2002	35.404	-89.906
TN018002	HWB28	9	2	11	4	30	2009	35.499	-89.624
TN005188	HWB4	11	1	18	18	0	2014	35.549	-89.645
TN005189	HWB4	14	1	21	20	0	2013	35.548	-89.641
TN005191	HWB28	15	3	20	4	25	2010	35.496	-89.599
TN017993	HWB28	8	3	12	4	0	1992	35.549	-89.507
TN018074	HWB5	9	5	44	9	0	1957	35.423	-89.635
TN005149	HWB3	10	1	20	20	56	1923	35.405	-89.546
TN005150	HWB28	15	2	7	3	0	1929	35.414	-89.532
TN017960	HWB23	9	3	46	15	0	2008	35.588	-89.561
TN005160	HWB28	41	2	10	5	15	1965	35.491	-89.725
TN018039	HWB28	8	2	8	4	0	1988	35.489	-89.825
TN018040	HWB4	9	1	28	28	0	1998	35.501	-89.807
TN018041	HWB4	9	1	21	21	30	2016	35.491	-89.823
TN018001	HWB3	8	1	9	9	15	1969	35.462	-89.635
TN005172	HWB28	13	3	20	3	60	1963	35.463	-89.631
TN017959	HWB28	8	2	15	9	0	1973	35.480	-89.716
TN018008	HWB28	10	3	13	4	0	1989	35.486	-89.717
TN018066	HWB3	11	1	12	12	0	1950	35.491	-89.725
TN018048	HWB4	9	1	23	23	0	1997	35.498	-89.732
TN005168	HWB23	13	13	305	24	0	1992	35.623	-89.620
TN005183	HWB15	11	97	879	26	0	1952	35.569	-89.483
TN005145	HWB5	8	3	23	8	0	1951	35.435	-89.753
TN018017	HWB28	11	2	10	5	0	2009	35.432	-89.749
TN018011	HWB28	9	2	8	4	10	1987	35.424	-89.736
TN017978	HWB3	8	1	9	9	0	1978	35.588	-89.813
TN017979	HWB3	8	1	9	9	0	1981	35.588	-89.803
TN005184	HWB28	6	2	19	9	0	1992	35.532	-89.848
TN017971	HWB23	9	3	35	12	0	1993	35.560	-89.830
TN017973	HWB4	9	1	18	18	0	2006	35.547	-89.837
TN017974	HWB28	9	3	15	5	0	1984	35.514	-89.864
TN018035	HWB3	7	1	12	12	15	1975	35.494	-89.894
TN018036	HWB28	9	2	10	5	0	1993	35.496	-89.876
TN018037	HWB28	10	2	10	5	0	1999	35.498	-89.874
TN005144	HWB23	14	3	44	16	49	1991	35.439	-89.779
TN017949	HWB23	9	3	48	22	27	1997	35.533	-89.668

Table C.2 Bridge Data for Hazus Input

HazusID	Bridge Class	Width (m)	No. Spans	Length (m)	Max Span Length (m)	Skew Angle	Year Built	Latitude	Longitude
TN018016	HWB16	9	3	85	33	0	1990	35.473	-89.741
TN018021	HWB19	9	3	58	21	0	1990	35.398	-89.845
TN005161	HWB3	11	1	16	16	0	1924	35.497	-89.722
TN005162	HWB23	13	3	37	12	15	1998	35.497	-89.722
TN005185	HWB17	13	5	78	16	0	1984	35.553	-89.822
TN018078	HWB5	9	5	48	13	0	1956	35.515	-89.771
TN018080	HWB23	9	3	77	26	0	1998	35.576	-89.834
TN017953	HWB28	12	2	17	5	57	2012	35.481	-89.691
TN018042	HWB22	9	3	37	12	0	1965	35.533	-89.799
TN018049	HWB4	9	1	29	29	0	1997	35.498	-89.732
TN017970	HWB10	10	3	26	9	12	1974	35.432	-89.654
TN018010	HWB3	8	1	9	9	0	1975	35.444	-89.675
TN005171	HWB23	13	3	64	21	30	2012	35.440	-89.666
TN018084	HWB23	13	3	64	21	30	2012	35.440	-89.666
TN017986	HWB28	10	2	13	6	15	2010	35.583	-89.699
TN018068	HWB28	7	3	20	9	0	1965	35.594	-89.711
TN005170	HWB3	6	1	8	8	0	1975	35.462	-89.766
TN017977	HWB23	9	3	31	12	0	1995	35.394	-89.642
TN018055	HWB4	8	1	27	27	0	1998	35.448	-89.624
TN018015	HWB28	15	2	11	5	15	2015	35.492	-89.758
TN017946	HWB4	13	1	23	23	0	2001	35.403	-89.890
TN018028	HWB28	8	2	7	3	15	1984	35.426	-89.890
TN001435	HWB4	11	1	8	8	0	1996	35.407	-89.543
TN005152	HWB7	11	2	17	9	0	1926	35.419	-89.520
TN005181	HWB5	11	3	26	9	0	1956	35.564	-89.493
TN005182	HWB5	11	13	113	9	0	1956	35.568	-89.484
TN005193	HWB23	14	7	79	11	0	1996	35.450	-89.563
TN017954	HWB28	12	3	12	4	0	1991	35.406	-89.528
TN017976	HWB28	10	2	10	5	15	1995	35.394	-89.642
TN018050	HWB3	8	1	9	9	0	1983	35.501	-89.731
TN018057	HWB4	8	1	15	15	15	2001	35.424	-89.570
TN018071	HWB28	8	2	7	3	0	1960	35.411	-89.571
TN018073	HWB28	8	2	7	3	0	1960	35.413	-89.573
TN017992	HWB3	8	1	9	9	0	1976	35.586	-89.538
TN005186	HWB4	13	1	19	19	0	2006	35.558	-89.720
TN017985	HWB28	9	2	9	4	20	2008	35.571	-89.726
TN018067	HWB28	7	3	20	9	0	1965	35.594	-89.712
TN017948	HWB3	8	1	9	9	0	1970	35.413	-89.925
TN017950	HWB28	12	2	8	4	0	1997	35.514	-89.676
TN018005	HWB28	8	2	10	5	15	1988	35.505	-89.692
TN018009	HWB4	8	1	17	17	0	2014	35.508	-89.688
TN018064	HWB28	12	2	10	5	0	1997	35.544	-89.645
TN017944	HWB4	9	1	41	41	15	2004	35.508	-89.941

Table C.2 Bridge Data for Hazus Input

HazusID	Bridge Class	Width (m)	No. Spans	Length (m)	Max Span Length (m)	Skew Angle	Year Built	Latitude	Longitude
TN018034	HWB28	8	3	26	9	0	1975	35.500	-89.920
TN005142	HWB17	11	3	27	9	30	1961	35.573	-89.636
TN005167	HWB5	26	3	24	12	0	1922	35.578	-89.643
TN005177	HWB28	12	3	18	6	0	1986	35.564	-89.635
TN005190	HWB23	14	3	30	10	30	1996	35.542	-89.636
TN017962	HWB3	8	1	9	9	0	1975	35.599	-89.668
TN017963	HWB28	8	2	15	9	0	1970	35.599	-89.668
TN017969	HWB23	8	4	61	15	30	1997	35.618	-89.702
TN017972	HWB23	11	3	23	8	0	2006	35.580	-89.653
TN017991	HWB28	12	3	20	6	10	2013	35.572	-89.635
TN018089	HWB4	17	1	25	25	30	2000	35.552	-89.641
TN018090	HWB23	15	6	128	21	0	1994	35.582	-89.656
TN100041	HWB28	12	1	5	5	0	1949	35.486	-89.724
TN100042	HWB28	10	1	4	4	0	1949	35.425	-89.801
TN100043	HWB28	17	1	11	11	0	1950	35.484	-89.725
TN100044	HWB28	11	1	9	9	0	1951	35.553	-89.644
TN100045	HWB28	16	1	6	6	0	1975	35.548	-89.649
TN013620	HWB28	8	5	29	6	0	1970	35.686	-88.935
TN013833	HWB28	48	3	12	4	0	1991	35.672	-88.950
TN013736	HWB19	8	5	35	12	25	1990	35.680	-88.944
TN013828	HWB28	15	2	10	5	0	1958	35.676	-88.948
TN013621	HWB28	9	3	12	4	0	2001	35.457	-88.755
TN013801	HWB17	9	3	34	11	0	1984	35.471	-88.751
TN003434	HWB28	16	2	15	4	50	1945	35.612	-88.802
TN003508	HWB28	19	2	7	3	45	1985	35.610	-88.805
TN013589	HWB28	19	2	7	3	0	2017	35.615	-88.860
TN013723	HWB28	13	4	12	2	0	1977	35.610	-88.805
TN013724	HWB28	11	2	11	6	13	2010	35.610	-88.805
TN013725	HWB28	14	3	16	5	45	1986	35.621	-88.795
TN013726	HWB28	22	3	15	3	37	1984	35.618	-88.796
TN003473	HWB15	9	3	24	9	0	1948	35.613	-88.654
TN003511	HWB7	26	7	62	10	25	1928	35.492	-88.722
TN013670	HWB28	9	5	24	5	0	1982	35.479	-88.761
TN013799	HWB28	9	2	14	5	45	1993	35.465	-88.793
TN013816	HWB28	10	2	10	5	15	1984	35.658	-88.632
TN003485	HWB28	11	3	17	4	45	1987	35.519	-88.999
TN003545	HWB19	9	3	31	10	15	1991	35.483	-89.044
TN013711	HWB28	9	3	17	6	0	2004	35.529	-88.969
TN003516	HWB5	26	7	65	13	45	1929	35.571	-88.815
TN013577	HWB3	9	1	19	19	25	1983	35.531	-88.847
TN013579	HWB17	8	7	56	12	0	1965	35.550	-88.837
TN013580	HWB23	10	3	26	9	0	1990	35.580	-88.809
TN013712	HWB4	12	1	26	26	0	2004	35.561	-88.822

Table C.2 Bridge Data for Hazus Input

HazusID	Bridge Class	Width (m)	No. Spans	Length (m)	Max Span Length (m)	Skew Angle	Year Built	Latitude	Longitude
TN013717	HWB4	10	1	24	24	30	2011	35.575	-88.813
TN013719	HWB17	13	3	24	7	10	1989	35.570	-88.816
TN003430	HWB28	9.1	2	14	5	45	1986	35.784	-88.830
TN003432	HWB28	11	2	14	4	30	1958	35.538	-88.991
TN003450	HWB7	13	11	97	9	0	1992	35.647	-88.900
TN003451	HWB7	13	11	97	9	0	1992	35.648	-88.900
TN003469	HWB28	11	3	15	5	0	1994	35.610	-88.728
TN003474	HWB4	10	1	24	24	0	2017	35.571	-88.642
TN003475	HWB4	10	1	24	24	0	2017	35.571	-88.640
TN003482	HWB3	7	1	7	7	30	1952	35.495	-89.001
TN003489	HWB7	10	2	14	7	0	1994	35.614	-89.004
TN003491	HWB28	9.1	2	7	3	0	1958	35.612	-88.937
TN003494	HWB7	10	3	26	9	0	1994	35.615	-88.897
TN003495	HWB7	10	3	26	9	0	1994	35.615	-88.897
TN003498	HWB7	10	11	96	9	0	2000	35.619	-88.859
TN003499	HWB7	10	11	96	9	0	2000	35.618	-88.859
TN003506	HWB5	10	2	17	9	30	1958	35.771	-88.672
TN003509	HWB28	9.1	2	10	3	30	1985	35.619	-88.795
TN003512	HWB28	9.1	3	15	5	0	1975	35.504	-88.740
TN003515	HWB4	27	1	30	30	30	1999	35.549	-88.806
TN003526	HWB28	9.1	2	8	4	30	1968	35.636	-88.822
TN003531	HWB28	9.1	3	17	4	45	1992	35.787	-88.868
TN003532	HWB28	9.1	2	7	3	15	1968	35.540	-88.793
TN003537	HWB28	9.1	2	7	3	0	1929	35.645	-88.857
TN003540	HWB28	9.1	2	12	4	45	1992	35.793	-88.791
TN003551	HWB28	9.1	3	12	4	0	1989	35.520	-88.997
TN010956	HWB28	8	2	8	4	15	1984	35.663	-88.845
TN011004	HWB3	8	1	8	8	0	1900	35.626	-88.611
TN013547	HWB28	9.1	2	8	4	0	1990	35.670	-88.781
TN013554	HWB28	9	3	11	6	0	2008	35.643	-88.727
TN013557	HWB3	7	1	8	8	45	1956	35.674	-88.906
TN013558	HWB28	9.1	2	7	2	30	1956	35.713	-88.909
TN013559	HWB4	8	1	17	17	15	2005	35.558	-89.071
TN013561	HWB4	8	1	26	26	0	1999	35.778	-88.754
TN013565	HWB28	9.1	4	14	3	10	1983	35.591	-88.639
TN013573	HWB24	7	2	9	4	0	1970	35.445	-88.856
TN013583	HWB28	9	2	7	3	0	1984	35.575	-88.799
TN013585	HWB28	9	3	12	3	15	1984	35.570	-88.767
TN013586	HWB28	11	3	10	3	0	1992	35.562	-88.753
TN013592	HWB5	7	3	30	10	0	1950	35.606	-88.898
TN013594	HWB4	10	1	21	21	45	1993	35.613	-88.864
TN013599	HWB3	7	1	9	9	0	1952	35.626	-88.617
TN013601	HWB28	10	2	8	4	20	2005	35.635	-88.610

Table C.2 Bridge Data for Hazus Input

HazusID	Bridge Class	Width (m)	No. Spans	Length (m)	Max Span Length (m)	Skew Angle	Year Built	Latitude	Longitude
TN013602	HWB28	9	2	10	5	0	1983	35.763	-88.890
TN013604	HWB28	9	2	11	5	30	1983	35.763	-88.889
TN013605	HWB28	9.1	3	17	5	30	1985	35.626	-88.769
TN013607	HWB28	9	2	8	4	0	1984	35.718	-88.877
TN013609	HWB28	9	3	15	5	15	1984	35.720	-88.814
TN013612	HWB28	9.1	2	7	3	30	2000	35.667	-88.804
TN013613	HWB28	9.1	2	10	5	0	2000	35.669	-88.795
TN013614	HWB5	10	3	26	9	0	1962	35.619	-88.994
TN013615	HWB28	9	3	13	4	15	1988	35.436	-88.817
TN013616	HWB28	9.1	2	12	6	48	2013	35.672	-88.799
TN013617	HWB28	10	2	14	6	30	2000	35.677	-88.980
TN013618	HWB28	9.1	2	9	4	0	1992	35.682	-88.978
TN013619	HWB28	9.1	2	10	5	0	1984	35.697	-88.975
TN013623	HWB28	8	3	18	6	0	2004	35.782	-88.614
TN013624	HWB28	9.1	2	8	4	20	1991	35.667	-88.890
TN013625	HWB28	11	3	18	6	15	1998	35.702	-88.876
TN013632	HWB28	9.1	4	6	1	0	2005	35.763	-88.857
TN013633	HWB28	9.1	2	14	3	0	2005	35.785	-88.851
TN013634	HWB28	8	3	20	8	0	1975	35.786	-88.863
TN013635	HWB28	9	3	18	6	0	2002	35.789	-88.831
TN013636	HWB7	8	5	29	6	0	2000	35.792	-88.884
TN013637	HWB28	9.1	3	12	4	15	1983	35.791	-88.805
TN013646	HWB28	8	2	9	3	45	1984	35.729	-88.706
TN013648	HWB28	5	3	15	8	0	1989	35.727	-88.698
TN013650	HWB28	8	3	18	6	0	1965	35.744	-88.930
TN013653	HWB4	8	1	17	17	15	2014	35.693	-88.995
TN013654	HWB28	9	3	20	6	30	2005	35.702	-88.976
TN013656	HWB28	9	2	7	3	0	1984	35.636	-88.739
TN013657	HWB4	9	1	20	20	30	2001	35.550	-88.719
TN013658	HWB28	8	3	18	6	0	1970	35.586	-88.741
TN013660	HWB28	9	2	7	3	15	1984	35.552	-88.705
TN013661	HWB28	8	3	18	6	0	1975	35.568	-88.697
TN013663	HWB28	9	2	7	3	25	1984	35.539	-88.652
TN013665	HWB28	7	3	14	5	0	1965	35.516	-88.693
TN013666	HWB28	8	3	14	4	30	1984	35.562	-88.766
TN013667	HWB28	8	2	7	3	0	1984	35.564	-88.774
TN013668	HWB28	9.1	3	10	3	33	2005	35.546	-88.801
TN013671	HWB28	8	2	12	6	0	1992	35.502	-88.816
TN013672	HWB28	9	3	18	6	0	2001	35.519	-88.810
TN013673	HWB28	8	2	8	3	35	2009	35.473	-88.832
TN013674	HWB28	8	2	7	3	20	2009	35.473	-88.832
TN013680	HWB28	8	2	12	5	30	1984	35.456	-88.876
TN013681	HWB28	9.1	3	13	4	15	1984	35.448	-88.892

Table C.2 Bridge Data for Hazus Input

HazusID	Bridge Class	Width (m)	No. Spans	Length (m)	Max Span Length (m)	Skew Angle	Year Built	Latitude	Longitude
TN013682	HWB28	9.1	2	14	5	45	1984	35.444	-88.901
TN013683	HWB28	8	3	17	6	0	2013	35.442	-88.968
TN013686	HWB4	8	1	21	21	45	2006	35.440	-88.971
TN013689	HWB28	8	2	9	4	30	1984	35.452	-89.003
TN013690	HWB28	8	4	23	6	0	2002	35.449	-89.056
TN013695	HWB28	8	2	8	3	30	1984	35.488	-89.068
TN013696	HWB4	8	1	21	21	30	2017	35.512	-89.039
TN013697	HWB4	7	1	21	21	0	2017	35.512	-89.044
TN013698	HWB28	7	3	18	6	0	1968	35.441	-89.059
TN013700	HWB28	9.1	2	12	2	30	2008	35.582	-89.016
TN013702	HWB4	8	1	26	26	0	1995	35.574	-88.950
TN013705	HWB28	5	3	15	7	0	1981	35.566	-89.031
TN013706	HWB28	10	3	24	6	45	2004	35.588	-88.965
TN013714	HWB28	8	3	12	5	15	1968	35.647	-88.611
TN013715	HWB28	8	2	10	5	0	1974	35.652	-88.616
TN013716	HWB4	9	1	18	17	0	2015	35.621	-88.908
TN013721	HWB28	11	2	10	5	15	1997	35.614	-88.827
TN013722	HWB28	12	3	17	6	0	2008	35.609	-88.807
TN013727	HWB28	9.1	2	8	2	40	1955	35.617	-88.822
TN013728	HWB4	8	1	18	18	30	2006	35.783	-88.649
TN013729	HWB28	8	3	18	6	0	1965	35.693	-88.808
TN013730	HWB4	10	1	20	20	65	1999	35.688	-88.810
TN013731	HWB3	9	1	7	7	0	1974	35.685	-88.841
TN013732	HWB3	12	1	18	18	13	1989	35.632	-88.830
TN013733	HWB28	9.1	2	17	5	45	1986	35.636	-88.823
TN013735	HWB28	8	3	17	6	15	2002	35.629	-89.006
TN013737	HWB28	8	3	18	6	0	1970	35.791	-88.781
TN013738	HWB28	9.1	2	7	3	0	1983	35.669	-88.680
TN013742	HWB28	9.1	2	8	3	30	1984	35.484	-88.718
TN013746	HWB28	9.1	2	8	4	0	1970	35.725	-88.835
TN013747	HWB28	9.1	2	9	3	0	1970	35.724	-88.833
TN013748	HWB28	9.1	2	7	3	0	1970	35.724	-88.828
TN013749	HWB28	9.1	3	16	5	22	1970	35.724	-88.818
TN013751	HWB28	10	2	14	5	45	1984	35.463	-88.882
TN013767	HWB28	9.1	2	23	5	15	1994	35.689	-88.852
TN013769	HWB28	9.1	2	10	3	45	1991	35.668	-88.881
TN013778	HWB28	10	2	10	5	0	1989	35.563	-88.785
TN013781	HWB28	9	2	14	5	45	1981	35.531	-88.684
TN013786	HWB28	8	4	28	6	0	2002	35.704	-88.803
TN013788	HWB28	8	3	17	6	0	2001	35.742	-88.793
TN013789	HWB28	10	3	14	4	25	1991	35.758	-88.790
TN013790	HWB7	8	3	17	6	0	1999	35.758	-88.790
TN013797	HWB23	13	4	44	11	0	1992	35.606	-88.830

Table C.2 Bridge Data for Hazus Input

HazusID	Bridge Class	Width (m)	No. Spans	Length (m)	Max Span Length (m)	Skew Angle	Year Built	Latitude	Longitude
TN013802	HWB28	8	3	18	6	0	2002	35.565	-89.000
TN013805	HWB28	8	3	17	6	0	2011	35.741	-88.877
TN013809	HWB28	9	3	17	5	30	1988	35.591	-88.961
TN013819	HWB3	21	1	11	11	0	1930	35.615	-88.824
TN013820	HWB28	9.1	2	7	3	15	1928	35.631	-88.790
TN013821	HWB28	9.1	2	10	3	50	1975	35.515	-88.757
TN013823	HWB28	9.1	2	8	3	15	1990	35.789	-88.870
TN013826	HWB28	9.1	2	9	3	45	2013	35.713	-88.836
TN013827	HWB28	9.1	2	8	3	30	1958	35.682	-88.978
TN013834	HWB28	9.1	2	8	4	0	1991	35.668	-88.915
TN013835	HWB28	9.1	2	7	3	0	1991	35.668	-88.889
TN013836	HWB28	9.1	2	8	4	20	1990	35.662	-88.880
TN013837	HWB28	9.1	2	7	3	15	1991	35.772	-88.827
TN013842	HWB28	9.1	2	7	3	0	1998	35.564	-88.619
TN013843	HWB28	9.1	2	8	4	30	1995	35.641	-88.917
TN007709	HWB28	9	2	10	5	0	1983	35.740	-88.941
TN003470	HWB4	10	1	22	22	0	1992	35.611	-88.723
TN013553	HWB4	9	1	22	22	15	2009	35.651	-88.716
TN013571	HWB4	9	1	26	26	0	2000	35.565	-88.846
TN013578	HWB28	11	3	20	6	30	1999	35.549	-88.869
TN013718	HWB5	9	2	15	8	0	1940	35.573	-88.827
TN013720	HWB5	11	2	12	6	0	1965	35.576	-88.827
TN013774	HWB28	12	3	18	6	15	1990	35.580	-88.827
TN013575	HWB28	23	3	17	4	45	1984	35.508	-88.974
TN003483	HWB23	9	2	37	18	0	2005	35.500	-88.995
TN013678	HWB28	9	2	10	4	15	2005	35.496	-88.923
TN013750	HWB28	8	3	17	6	0	1968	35.471	-88.919
TN003534	HWB23	13	3	26	9	0	1991	35.691	-88.997
TN003535	HWB11	13	3	26	9	0	1954	35.691	-88.997
TN013551	HWB28	9	2	15	5	45	2007	35.692	-88.675
TN013552	HWB28	9	3	15	5	15	1986	35.670	-88.687
TN013641	HWB4	9	1	20	20	30	2000	35.762	-88.712
TN003525	HWB5	29	4	67	19	33	1958	35.606	-88.816
TN013587	HWB22	9	3	57	20	35	1975	35.562	-88.753
TN003433	HWB28	13	3	15	5	20	1998	35.560	-88.952
TN003448	HWB5	13	3	44	9	0	1960	35.637	-88.936
TN003449	HWB5	13	3	44	9	0	1960	35.637	-88.935
TN003490	HWB7	11	2	14	7	0	1925	35.612	-88.941
TN013598	HWB4	9	1	28	28	10	2005	35.631	-88.934
TN003444	HWB5	13	6	53	9	0	1959	35.608	-89.027
TN003445	HWB5	13	6	51	9	0	1959	35.608	-89.027
TN003487	HWB7	11	2	14	7	45	1925	35.605	-89.026
TN013545	HWB4	8	1	31	31	0	1996	35.648	-88.996

Table C.2 Bridge Data for Hazus Input

HazusID	Bridge Class	Width (m)	No. Spans	Length (m)	Max Span Length (m)	Skew Angle	Year Built	Latitude	Longitude
TN013704	HWB4	8	1	25	25	9	1999	35.573	-89.032
TN013734	HWB28	8	6	35	6	0	2002	35.629	-89.008
TN013806	HWB22	10	3	28	9	30	1989	35.741	-88.876
TN013584	HWB28	9	2	7	3	10	1984	35.574	-88.775
TN003510	HWB28	35	2	8	2	45	1975	35.485	-88.713
TN013775	HWB4	10	1	31	31	20	1996	35.520	-88.913
TN003548	HWB28	12	3	15	5	15	1986	35.782	-88.701
TN013684	HWB4	8	1	21	21	30	2011	35.449	-88.971
TN013685	HWB4	8	1	24	24	15	2002	35.464	-88.968
TN013569	HWB5	6	3	21	9	0	1951	35.767	-88.738
TN013638	HWB4	8	1	27	27	0	1997	35.792	-88.751
TN013546	HWB28	44	2	8	4	0	1990	35.654	-88.786
TN013562	HWB28	12	3	25	6	47	2000	35.661	-88.789
TN013785	HWB23	9	3	34	15	45	2004	35.690	-88.802
TN013608	HWB4	11	1	24	24	30	1998	35.720	-88.815
TN013771	HWB28	12	2	12	6	15	2014	35.606	-88.807
TN013622	HWB4	8	1	27	27	15	2000	35.770	-88.611
TN013773	HWB5	16	3	29	13	10	1940	35.622	-88.811
TN003440	HWB17	14	4	66	20	40	1964	35.639	-88.850
TN003441	HWB17	11	4	66	20	40	1964	35.639	-88.850
TN013839	HWB16	10	3	59	38	5	1997	35.670	-88.855
TN013840	HWB16	27	3	59	38	2	1997	35.670	-88.854
TN013841	HWB16	10	3	59	38	3	1997	35.670	-88.856
TN013640	HWB28	9	2	10	5	10	1984	35.529	-88.646
TN013647	HWB28	10	3	18	6	0	1991	35.729	-88.704
TN003504	HWB5	10	3	26	9	0	1926	35.741	-88.701
TN013643	HWB23	7	3	27	12	0	1994	35.769	-88.702
TN013649	HWB4	8	1	16	16	0	2000	35.708	-88.706
TN003471	HWB22	12	3	50	17	0	1989	35.614	-88.701
TN013655	HWB4	8	1	24	24	30	1996	35.626	-88.694
TN013740	HWB4	8	1	12	12	15	2004	35.663	-88.668
TN013709	HWB7	8	3	17	6	0	2008	35.537	-88.930
TN013550	HWB28	31	2	16	6	45	2007	35.585	-88.860
TN013595	HWB28	13	3	17	5	0	1989	35.595	-88.854
TN013707	HWB28	11	3	17	6	30	1997	35.567	-88.879
TN013664	HWB28	9	2	10	5	0	1998	35.508	-88.674
TN003513	HWB28	50	2	8	4	0	2004	35.514	-88.756
TN013669	HWB4	8	1	27	27	45	2001	35.513	-88.760
TN003446	HWB5	13	3	26	9	0	1959	35.618	-88.998
TN003447	HWB5	13	3	26	9	0	1959	35.620	-88.992
TN003443	HWB17	10	4	72	23	28	1960	35.597	-89.055
TN003458	HWB16	53	2	74	39	12	1995	35.664	-88.854
TN003465	HWB22	11	4	83	25	36	1960	35.681	-88.743

Table C.2 Bridge Data for Hazus Input

HazusID	Bridge Class	Width (m)	No. Spans	Length (m)	Max Span Length (m)	Skew Angle	Year Built	Latitude	Longitude
TN003466	HWB22	11	4	83	25	36	1960	35.681	-88.743
TN003467	HWB10	10	4	76	22	20	1960	35.718	-88.634
TN013752	HWB22	10	4	65	20	0	1957	35.602	-89.041
TN013754	HWB17	10	4	72	23	28	1960	35.633	-88.949
TN013764	HWB23	15	2	80	40	22	1992	35.641	-88.921
TN003527	HWB23	19	3	39	17	6	1999	35.740	-88.849
TN003528	HWB19	19	3	40	13	6	2003	35.740	-88.848
TN003461	HWB22	13	2	48	24	0	1961	35.676	-88.798
TN003462	HWB22	13	2	48	24	0	1961	35.676	-88.799
TN003454	HWB5	13	3	34	11	35	1960	35.656	-88.877
TN003455	HWB5	13	3	34	12	35	1960	35.656	-88.877
TN003436	HWB15	20	3	61	33	4	1966	35.612	-88.823
TN003463	HWB5	13	3	34	11	0	1961	35.678	-88.790
TN003464	HWB5	14	3	34	11	0	1961	35.677	-88.790
TN003468	HWB23	23	8	176	26	6	2002	35.649	-88.791
TN003517	HWB5	13	3	36	12	9	1957	35.581	-88.814
TN003518	HWB5	13	3	33	12	9	1929	35.581	-88.815
TN003492	HWB5	10	5	48	13	15	1959	35.614	-88.900
TN003493	HWB5	10	5	48	13	15	1959	35.615	-88.900
TN013548	HWB22	9	3	33	11	0	1987	35.512	-88.920
TN013549	HWB17	8	3	46	15	30	1989	35.579	-88.907
TN013563	HWB23	13	3	30	10	0	1997	35.719	-88.766
TN013593	HWB3	7	1	13	13	20	1955	35.607	-88.900
TN013596	HWB28	8	4	24	6	0	1983	35.630	-88.891
TN013610	HWB4	8	1	26	26	0	1992	35.724	-88.770
TN013639	HWB28	23	3	15	5	0	1986	35.687	-88.747
TN013708	HWB28	8	5	30	30	0	2011	35.534	-88.924
TN013597	HWB22	9	3	49	16	30	1989	35.633	-88.893
TN003435	HWB28	15	3	18	6	15	2004	35.609	-88.783
TN013555	HWB28	10	4	20	5	10	1998	35.635	-88.753
TN013741	HWB4	8	1	21	21	0	2011	35.662	-88.657
TN013745	HWB28	16	3	18	6	15	1985	35.626	-88.769
TN013817	HWB4	9	1	21	21	0	2003	35.671	-88.645
TN013677	HWB4	8	1	18	18	15	2011	35.529	-88.886
TN013710	HWB4	8	1	21	21	15	1990	35.573	-88.903
TN013776	HWB28	9	2	14	5	45	1950	35.545	-88.887
TN013572	HWB28	9	3	17	5	30	1990	35.446	-88.857
TN013630	HWB28	9	3	12	4	15	1984	35.433	-88.859
TN013798	HWB4	9	1	20	20	15	2000	35.457	-88.850
TN003549	HWB17	11	3	39	14	15	1986	35.780	-88.698
TN013787	HWB23	10	13	171	18	15	1997	35.740	-88.794
TN013556	HWB5	9	3	42	16	45	1955	35.792	-88.911
TN013770	HWB4	8	1	15	15	30	1992	35.604	-88.808

Table C.2 Bridge Data for Hazus Input

HazusID	Bridge Class	Width (m)	No. Spans	Length (m)	Max Span Length (m)	Skew Angle	Year Built	Latitude	Longitude
TN013768	HWB28	21	3	25	5	25	1993	35.689	-88.847
TN013662	HWB4	8	1	20	20	20	2009	35.567	-88.675
TN013784	HWB28	11	3	17	5	30	1986	35.584	-88.707
TN013603	HWB4	8	1	18	18	0	2008	35.763	-88.889
TN013606	HWB28	8	3	18	6	0	1992	35.719	-88.901
TN013804	HWB23	10	2	34	17	0	2004	35.742	-88.902
TN013626	HWB28	7	2	12	6	0	1993	35.708	-88.907
TN003514	HWB23	27	2	60	30	30	1999	35.550	-88.807
TN003533	HWB28	17	4	17	5	25	2017	35.490	-88.845
TN013581	HWB17	10	3	37	12	35	1989	35.577	-88.803
TN013713	HWB4	9	1	28	26	7	1998	35.543	-88.811
TN013777	HWB17	10	3	38	13	30	1987	35.569	-88.769
TN003529	HWB19	19	15	234	16	0	1967	35.744	-88.847
TN003530	HWB23	19	15	234	16	0	1968	35.744	-88.846
TN013568	HWB5	9	7	61	9	0	1970	35.758	-88.740
TN003442	HWB4	41	1	27	27	25	2002	35.716	-88.853
TN013627	HWB17	9	3	25	9	0	1989	35.735	-88.862
TN013628	HWB17	9	3	41	14	45	1984	35.718	-88.857
TN013744	HWB17	10	3	31	10	30	1989	35.704	-88.851
TN013576	HWB28	9	3	17	5	30	1986	35.515	-88.705
TN013659	HWB28	8	3	16	6	15	1965	35.542	-88.692
TN003541	HWB28	14	2	9	4	0	2017	35.447	-89.022
TN003542	HWB28	10	4	18	4	30	1988	35.447	-89.022
TN013688	HWB4	8	1	24	24	0	2002	35.457	-88.994
TN013691	HWB4	9	1	23	23	0	2011	35.443	-89.042
TN013699	HWB28	10	3	18	6	20	2004	35.443	-89.053
TN013838	HWB28	15	2	9	4	0	2017	35.446	-89.022
TN013652	HWB4	9	1	40	40	0	1998	35.597	-88.667
TN003479	HWB22	10	3	39	17	0	1981	35.592	-88.638
TN013783	HWB23	13	3	56	19	20	2003	35.656	-88.632
TN013800	HWB4	9	1	14	14	25	2011	35.461	-88.770
TN013753	HWB22	10	4	65	20	0	1961	35.622	-88.983
TN013758	HWB15	15	2	88	46	30	1986	35.679	-88.780
TN013831	HWB16	13	15	483	64	0	1991	35.667	-88.894
TN013832	HWB16	13	12	407	64	0	1991	35.667	-88.894
TN013830	HWB23	18	2	66	33	4	1991	35.665	-88.882
TN013757	HWB22	10	4	70	21	15	1962	35.677	-88.794
TN013759	HWB19	10	4	65	21	0	1962	35.679	-88.780
TN013762	HWB10	9	4	78	23	30	1960	35.709	-88.663
TN013761	HWB10	9	4	84	25	30	1964	35.695	-88.700
TN013760	HWB10	9	4	81	24	30	1960	35.684	-88.713
TN013763	HWB10	9	4	78	23	22	1964	35.713	-88.650
TN013755	HWB17	8	4	72	23	28	1961	35.639	-88.917

Table C.2 Bridge Data for Hazus Input

HazusID	Bridge Class	Width (m)	No. Spans	Length (m)	Max Span Length (m)	Skew Angle	Year Built	Latitude	Longitude
TN013756	HWB17	26	4	71	23	14	1960	35.674	-88.808
TN003536	HWB4	24	1	20	19	0	2011	35.653	-88.870
TN003478	HWB23	10	5	61	12	0	1996	35.591	-88.639
TN003431	HWB4	9	1	18	18	0	2005	35.504	-88.995
TN003472	HWB4	13	1	30	30	0	2006	35.614	-88.698
TN003476	HWB17	8	3	69	23	15	1985	35.495	-88.715
TN003480	HWB23	10	5	61	12	0	1999	35.594	-88.636
TN003484	HWB28	11	3	12	4	0	1989	35.519	-88.997
TN003486	HWB28	10	2	9	4	30	1984	35.521	-88.997
TN003496	HWB7	10	11	96	9	0	1959	35.619	-88.863
TN003497	HWB7	10	11	96	9	0	1959	35.619	-88.863
TN003519	HWB5	13	9	78	9	0	1929	35.589	-88.814
TN003520	HWB5	13	9	78	9	0	1929	35.589	-88.814
TN003523	HWB7	13	7	61	9	0	1957	35.599	-88.814
TN003524	HWB7	13	7	64	9	0	1929	35.599	-88.814
TN003544	HWB28	9	3	16	5	0	1949	35.481	-89.043
TN003546	HWB28	9	5	26	5	0	1949	35.483	-89.045
TN003547	HWB28	9	2	11	6	0	1949	35.485	-89.053
TN003550	HWB17	12	4	65	16	0	1989	35.778	-88.695
TN013566	HWB28	8	15	87	6	0	1958	35.755	-88.740
TN013567	HWB28	8	3	18	6	0	1965	35.757	-88.740
TN013570	HWB4	10	1	24	24	5	2012	35.563	-88.847
TN013582	HWB23	10	2	18	9	0	1996	35.575	-88.799
TN013588	HWB5	7	4	35	9	0	1922	35.616	-88.856
TN013590	HWB5	7	3	24	8	0	1922	35.615	-88.861
TN013591	HWB5	7	5	40	8	0	1922	35.614	-88.863
TN013629	HWB28	9	2	10	5	15	1984	35.432	-88.859
TN013642	HWB4	7	1	18	18	0	1994	35.769	-88.700
TN013644	HWB28	8	2	13	7	0	1968	35.769	-88.693
TN013651	HWB28	8	5	29	6	0	1970	35.591	-88.668
TN013675	HWB28	5	2	11	6	0	1945	35.446	-88.873
TN013692	HWB4	9	1	23	23	0	2011	35.443	-89.040
TN013693	HWB3	8	1	8	7	0	1968	35.439	-89.037
TN013739	HWB28	10	2	8	4	15	2004	35.663	-88.669
TN013779	HWB17	9	7	98	14	0	1987	35.539	-88.741
TN013782	HWB28	8	11	64	6	0	1960	35.593	-88.752
TN013791	HWB19	13	4	44	11	0	1992	35.595	-88.834
TN013792	HWB19	13	3	27	9	0	1992	35.596	-88.833
TN013793	HWB19	13	8	88	11	0	1992	35.597	-88.833
TN013794	HWB19	13	5	55	11	0	1992	35.599	-88.833
TN013796	HWB23	13	3	27	9	0	1992	35.603	-88.831
TN013808	HWB28	9	2	7	3	0	1950	35.616	-88.854
TN013810	HWB23	9	7	73	10	0	1998	35.674	-89.000

Table C.2 Bridge Data for Hazus Input

HazusID	Bridge Class	Width (m)	No. Spans	Length (m)	Max Span Length (m)	Skew Angle	Year Built	Latitude	Longitude
TN013811	HWB19	9	5	39	10	0	1998	35.672	-89.000
TN013812	HWB23	9	5	49	10	0	1998	35.670	-89.001
TN013813	HWB28	8	10	58	6	0	1960	35.667	-89.001
TN013815	HWB28	8	10	58	6	0	1960	35.664	-89.002
TN013543	HWB28	9	3	26	8	0	1973	35.638	-89.057
TN013544	HWB4	9	1	27	27	0	1992	35.655	-89.040
TN003481	HWB17	8	3	47	16	55	1985	35.478	-89.016
TN003543	HWB23	10	3	34	11	15	1992	35.470	-89.026
TN013687	HWB4	8	1	20	20	0	2006	35.477	-88.992
TN013694	HWB23	7	4	63	16	10	2004	35.443	-89.074
TN003503	HWB28	23	2	10	4	38	1928	35.701	-88.727
TN013564	HWB23	9	3	27	12	0	1994	35.591	-88.639
TN013611	HWB4	9	1	27	12	0	1995	35.724	-88.747
TN013560	HWB4	9	1	21	21	25	2005	35.558	-89.067
TN003437	HWB3	20	1	29	29	38	1967	35.612	-88.825
TN003488	HWB7	10	2	14	7	0	1925	35.607	-89.025
TN013803	HWB28	8	3	18	6	0	1965	35.588	-89.003
TN003477	HWB17	8	8	183	23	15	1985	35.497	-88.712
TN013780	HWB22	9	3	56	19	15	1987	35.539	-88.738
TN013795	HWB15	9	3	53	23	30	1952	35.601	-88.832
TN013807	HWB23	10	3	61	22	6	1993	35.618	-88.852
TN013814	HWB17	9	3	52	23	0	1984	35.666	-89.001
TN003500	HWB10	10	10	118	23	45	1958	35.619	-88.853
TN003501	HWB10	10	10	118	23	45	1958	35.618	-88.853
TN003521	HWB15	13	13	167	30	0	1955	35.594	-88.814
TN003522	HWB19	13	7	168	30	15	1992	35.594	-88.814
TN003507	HWB22	20	7	241	37	0	1978	35.612	-88.814
TN013765	HWB3	15	1	9	9	30	1930	35.635	-88.823
TN013766	HWB3	18	1	8	8	0	1930	35.634	-88.826
TN003438	HWB17	10	3	34	14	45	1964	35.620	-88.842
TN003439	HWB17	10	3	34	14	45	1964	35.620	-88.842
TN003502	HWB7	32	3	26	9	0	1925	35.618	-88.843
TN013676	HWB28	5	2	13	6	0	1945	35.446	-88.874
TN013829	HWB5	16	2	17	9	0	1929	35.626	-88.839
TN003452	HWB17	13	13	130	25	15	1960	35.651	-88.890
TN003453	HWB17	13	13	130	25	15	1960	35.651	-88.890
TN003505	HWB5	10	3	17	9	0	1926	35.759	-88.683
TN013645	HWB28	9	3	15	5	15	1984	35.770	-88.692
TN013824	HWB23	13	4	89	28	23	1997	35.734	-88.850
TN013825	HWB23	17	4	89	28	23	1997	35.733	-88.850
TN003456	HWB23	16	4	70	19	25	1992	35.657	-88.875
TN003457	HWB19	16	4	70	19	25	1992	35.657	-88.875
TN003459	HWB23	16	4	59	16	5	1961	35.671	-88.830

Table C.2 Bridge Data for Hazus Input

HazusID	Bridge Class	Width (m)	No. Spans	Length (m)	Max Span Length (m)	Skew Angle	Year Built	Latitude	Longitude
TN003460	HWB22	16	4	59	16	5	1961	35.671	-88.830
TN013822	HWB16	20	2	84	46	26	1992	35.761	-88.846
TN013818	HWB4	8	1	18	18	15	2013	35.686	-88.647
TN013743	HWB28	9	2	7	3	0	1984	35.480	-88.714
TN003538	HWB22	13	3	60	20	50	1989	35.769	-88.833
TN003539	HWB22	13	3	60	20	50	1989	35.768	-88.833
TN013574	HWB4	8	1	26	26	30	1999	35.501	-89.042
TN013631	HWB17	8	3	32	11	20	1987	35.752	-88.837
TN013772	HWB5	16	3	45	22	0	1950	35.617	-88.812
TN012442	HWB28	10	3	21	6	30	1987	35.851	-89.438
TN012443	HWB23	8	3	37	15	30	1993	35.882	-89.393
TN012365	HWB28	8	2	7	3	0	1984	35.683	-89.656
TN003006	HWB28	10	2	11	3	45	1938	35.678	-89.570
TN003011	HWB3	7	1	11	11	0	1925	35.822	-89.435
TN003012	HWB3	7	1	11	11	0	1925	35.830	-89.419
TN003014	HWB3	18	1	9	9	30	1983	35.881	-89.395
TN003017	HWB28	11	2	8	3	30	1960	35.627	-89.527
TN003018	HWB28	14	2	8	3	15	1960	35.625	-89.521
TN003045	HWB28	11	2	7	3	25	1933	35.773	-89.624
TN003046	HWB28	13	2	7	3	25	1933	35.764	-89.569
TN003048	HWB3	11	1	10	10	0	1962	35.715	-89.480
TN003049	HWB28	10	2	8	4	30	1929	35.714	-89.469
TN003053	HWB28	15	2	8	4	8	1987	35.725	-89.545
TN003054	HWB28	19	2	10	4	45	1987	35.725	-89.526
TN003056	HWB28	9	2	8	4	30	1982	35.610	-89.880
TN003057	HWB28	11	2	8	4	20	1982	35.619	-89.845
TN003058	HWB28	9	3	16	5	0	1971	35.636	-89.806
TN003059	HWB28	9	3	16	5	0	1971	35.646	-89.788
TN003060	HWB28	10	2	8	4	0	1982	35.691	-89.702
TN003061	HWB3	8	1	9	9	0	1986	35.681	-89.707
TN003065	HWB28	10	2	12	6	15	1925	35.681	-89.595
TN003067	HWB28	9	2	14	9	0	1991	35.675	-89.684
TN003068	HWB28	10	4	20	5	30	1980	35.683	-89.639
TN003082	HWB28	17	2	7	3	0	1985	35.894	-89.436
TN012350	HWB28	8	2	15	9	0	1975	35.674	-89.565
TN012352	HWB24	8	3	16	6	11	1968	35.667	-89.512
TN012353	HWB28	9	2	10	5	0	1984	35.667	-89.498
TN012357	HWB3	8	1	9	9	13	1955	35.736	-89.490
TN012358	HWB3	8	1	9	9	30	1975	35.739	-89.506
TN012361	HWB28	10	3	15	5	0	2012	35.664	-89.605
TN012363	HWB28	9	2	10	5	15	1991	35.665	-89.614
TN012369	HWB4	7	1	9	9	25	1995	35.610	-89.877
TN012371	HWB28	8	2	8	4	0	1984	35.690	-89.470

Table C.2 Bridge Data for Hazus Input

HazusID	Bridge Class	Width (m)	No. Spans	Length (m)	Max Span Length (m)	Skew Angle	Year Built	Latitude	Longitude
TN012376	HWB28	9	2	10	5	15	1991	35.748	-89.451
TN012377	HWB3	8	1	9	9	27	1970	35.743	-89.701
TN012380	HWB3	6	1	8	8	0	1978	35.740	-89.656
TN012384	HWB3	7	1	9	9	0	1975	35.740	-89.655
TN012387	HWB4	10	1	12	12	45	2002	35.756	-89.635
TN012389	HWB28	9	2	8	4	15	1997	35.740	-89.611
TN012390	HWB28	10	3	16	5	15	1984	35.688	-89.592
TN012395	HWB28	9	2	10	5	0	1984	35.771	-89.546
TN012401	HWB28	13	2	8	4	0	1984	35.832	-89.512
TN012402	HWB28	6	2	9	5	0	1969	35.818	-89.520
TN012403	HWB28	10	3	17	6	0	2016	35.817	-89.520
TN012405	HWB3	8	1	9	9	0	1975	35.823	-89.529
TN012407	HWB24	8	2	19	9	0	1970	35.788	-89.601
TN012408	HWB28	9	2	7	3	15	1984	35.780	-89.599
TN012409	HWB28	8	3	15	5	15	1986	35.792	-89.615
TN012410	HWB28	8	2	8	4	0	1984	35.778	-89.616
TN012414	HWB14	7	3	18	6	0	2002	35.843	-89.688
TN012418	HWB4	7	1	8	8	8	1999	35.852	-89.465
TN012420	HWB3	7	1	9	9	17	1977	35.863	-89.460
TN012421	HWB28	9	2	7	3	15	1984	35.867	-89.458
TN012422	HWB28	11	2	8	4	0	1984	35.872	-89.455
TN012423	HWB4	8	1	9	9	13	2009	35.852	-89.464
TN012424	HWB4	8	1	10	10	15	2006	35.853	-89.457
TN012425	HWB28	11	2	12	5	30	1985	35.851	-89.438
TN012427	HWB24	7	2	18	12	0	1975	35.871	-89.445
TN012428	HWB24	8	3	18	9	27	1975	35.884	-89.484
TN012429	HWB28	9	2	8	4	0	1984	35.928	-89.497
TN012434	HWB4	8	1	7	7	0	2001	35.934	-89.423
TN012435	HWB3	8	1	8	8	0	1985	35.915	-89.438
TN012437	HWB3	8	1	9	9	13	1975	35.896	-89.378
TN012438	HWB28	9	2	7	3	0	1984	35.895	-89.384
TN012439	HWB28	9	2	9	4	30	1984	35.881	-89.393
TN012445	HWB3	8	1	6	6	0	1984	35.847	-89.394
TN012446	HWB3	8	1	8	8	0	1975	35.847	-89.394
TN012449	HWB3	7	1	9	9	0	1975	35.836	-89.432
TN012450	HWB4	8	1	21	21	0	2009	35.827	-89.440
TN012452	HWB4	7	1	9	9	0	2004	35.809	-89.456
TN012454	HWB28	10	2	8	4	15	1983	35.832	-89.457
TN012455	HWB28	8	2	12	5	30	1984	35.805	-89.440
TN012456	HWB28	8	2	8	4	0	1984	35.806	-89.445
TN012460	HWB28	9	2	11	6	30	2005	35.745	-89.461
TN012461	HWB28	16	2	17	7	20	2008	35.786	-89.479
TN012462	HWB28	9	2	8	4	30	1988	35.747	-89.492

Table C.2 Bridge Data for Hazus Input

HazusID	Bridge Class	Width (m)	No. Spans	Length (m)	Max Span Length (m)	Skew Angle	Year Built	Latitude	Longitude
TN012463	HWB28	9	3	17	5	30	2002	35.747	-89.496
TN012466	HWB28	8	2	8	4	15	1984	35.772	-89.490
TN012467	HWB3	8	1	6	6	0	1974	35.766	-89.496
TN012468	HWB3	8	1	6	6	15	1974	35.776	-89.490
TN012470	HWB23	8	3	37	15	45	1994	35.619	-89.531
TN012472	HWB3	8	1	9	9	0	1960	35.635	-89.515
TN012474	HWB3	8	1	9	9	0	1970	35.635	-89.511
TN012475	HWB4	9	1	18	18	30	2015	35.652	-89.508
TN012476	HWB4	9	1	18	17	0	2015	35.656	-89.518
TN012477	HWB28	8	2	11	5	0	2012	35.657	-89.520
TN012478	HWB28	9	2	12	5	30	1983	35.649	-89.519
TN012479	HWB4	9	1	22	22	10	2003	35.648	-89.589
TN012480	HWB28	10	2	8	4	15	1997	35.680	-89.552
TN012481	HWB28	8	3	10	3	0	1984	35.679	-89.509
TN012482	HWB28	9	2	8	4	0	1984	35.680	-89.561
TN012483	HWB24	8	2	11	6	0	1974	35.680	-89.551
TN012484	HWB28	9	2	8	4	15	1983	35.702	-89.552
TN012486	HWB4	7	1	8	8	12	1992	35.742	-89.749
TN012487	HWB28	8	2	8	4	15	1986	35.932	-89.459
TN012488	HWB7	13	2	14	7	15	1990	35.917	-89.390
TN012500	HWB28	9	2	9	5	0	2001	35.906	-89.453
TN012501	HWB28	9	3	17	5	24	1997	35.912	-89.447
TN012503	HWB4	9	1	21	21	0	2017	35.939	-89.437
TN012507	HWB28	14	2	7	3	15	1970	35.877	-89.489
TN012508	HWB4	9	1	22	22	15	1991	35.751	-89.623
TN012510	HWB28	11	2	8	3	0	1970	35.670	-89.569
TN012511	HWB28	9	2	12	6	15	1997	35.800	-89.454
TN012512	HWB28	8	2	8	4	0	1960	35.735	-89.599
TN012515	HWB28	8	3	17	6	0	1950	35.869	-89.379
TN012530	HWB28	18	2	8	3	30	1985	35.821	-89.387
TN012531	HWB28	14	2	9	3	45	1985	35.821	-89.387
TN012368	HWB3	7	1	10	10	0	1978	35.635	-89.842
TN012364	HWB28	9	2	12	6	0	2000	35.673	-89.686
TN012381	HWB3	7	1	6	6	0	1970	35.740	-89.650
TN012383	HWB28	7	2	10	5	30	2015	35.720	-89.648
TN012385	HWB28	8	2	10	5	15	1984	35.760	-89.635
TN012392	HWB3	7	1	9	9	0	1975	35.732	-89.600
TN012351	HWB28	8	2	8	4	0	2016	35.652	-89.514
TN012360	HWB4	9	1	21	21	15	2006	35.663	-89.600
TN012391	HWB26	8	2	13	7	0	1970	35.696	-89.591
TN012471	HWB3	8	1	9	9	0	1970	35.622	-89.532
TN003080	HWB28	13	3	11	3	30	1983	35.906	-89.482
TN003019	HWB28	11	3	18	6	0	1987	35.620	-89.481

Table C.2 Bridge Data for Hazus Input

HazusID	Bridge Class	Width (m)	No. Spans	Length (m)	Max Span Length (m)	Skew Angle	Year Built	Latitude	Longitude
TN012354	HWB28	8	3	12	4	0	2017	35.668	-89.479
TN012457	HWB28	8	2	10	5	15	1986	35.648	-89.474
TN003064	HWB4	13	1	27	26	10	2008	35.683	-89.614
TN003008	HWB5	10	3	34	11	20	1924	35.760	-89.523
TN003016	HWB28	13	3	15	5	0	1978	35.759	-89.539
TN003022	HWB28	21	3	15	5	30	1970	35.757	-89.549
TN003047	HWB5	11	3	39	13	15	1928	35.756	-89.551
TN003062	HWB22	11	3	51	17	0	1981	35.693	-89.695
TN003066	HWB22	11	3	51	17	0	1980	35.675	-89.689
TN012379	HWB22	8	3	58	20	15	1988	35.711	-89.669
TN012382	HWB23	8	3	55	19	10	1990	35.733	-89.643
TN012386	HWB22	8	4	70	24	15	1984	35.742	-89.625
TN012388	HWB23	9	3	57	19	0	1995	35.749	-89.609
TN012394	HWB23	8	3	52	21	5	1992	35.753	-89.589
TN012465	HWB23	9	3	52	18	30	1990	35.757	-89.506
TN012514	HWB28	8	2	7	3	15	1997	35.752	-89.484
TN003031	HWB5	11	3	26	9	15	1960	35.933	-89.416
TN003032	HWB7	11	3	26	9	15	1960	35.933	-89.416
TN012431	HWB22	9	3	31	10	0	1986	35.934	-89.423
TN012432	HWB28	10	2	10	5	0	2003	35.935	-89.430
TN012433	HWB28	8	3	20	6	30	1992	35.934	-89.428
TN012502	HWB4	9	1	21	21	15	2015	35.933	-89.442
TN003055	HWB22	15	3	52	21	11	1987	35.724	-89.543
TN012355	HWB23	9	3	59	21	10	1990	35.710	-89.550
TN012518	HWB22	14	3	76	26	0	1987	35.743	-89.529
TN003041	HWB22	11	5	70	14	0	1988	35.775	-89.697
TN012356	HWB23	9	2	70	35	25	2012	35.698	-89.716
TN012366	HWB23	8	4	105	25	43	1998	35.693	-89.804
TN012367	HWB22	8	4	72	21	0	1989	35.648	-89.834
TN012378	HWB23	8	3	52	17	0	1999	35.743	-89.700
TN012396	HWB28	8	3	17	6	0	2016	35.815	-89.595
TN012404	HWB28	10	3	17	6	15	2012	35.822	-89.545
TN012406	HWB4	9	1	27	27	30	1997	35.832	-89.567
TN012504	HWB28	10	2	9	4	30	1970	35.819	-89.663
TN012505	HWB28	10	2	8	4	0	1980	35.823	-89.528
TN003063	HWB4	13	1	25	24	10	2008	35.685	-89.631
TN012362	HWB4	9	1	23	23	0	2002	35.670	-89.633
TN012370	HWB4	8	1	12	12	0	2014	35.687	-89.859
TN003050	HWB28	21	3	11	4	30	1987	35.731	-89.556
TN012413	HWB4	8	1	27	27	0	1999	35.833	-89.664
TN003025	HWB17	11	3	24	8	0	1963	35.852	-89.441
TN003026	HWB17	11	3	24	8	0	1963	35.852	-89.441
TN012419	HWB28	8	2	8	4	0	1984	35.853	-89.464

Table C.2 Bridge Data for Hazus Input

HazusID	Bridge Class	Width (m)	No. Spans	Length (m)	Max Span Length (m)	Skew Angle	Year Built	Latitude	Longitude
TN012349	HWB28	10	3	14	4	0	2007	35.675	-89.571
TN012398	HWB28	8	2	7	3	0	1984	35.772	-89.515
TN012509	HWB4	9	1	9	9	0	1992	35.672	-89.573
TN012517	HWB22	9	3	30	10	35	1987	35.861	-89.376
TN012464	HWB28	9	2	8	3	30	1982	35.754	-89.508
TN003020	HWB15	13	3	65	36	34	1971	35.755	-89.550
TN012495	HWB23	9	3	30	15	0	2005	35.881	-89.343
TN012496	HWB5	9	6	66	13	0	1958	35.863	-89.364
TN005169	HWB17	13	13	304	24	0	1974	35.638	-89.610
TN003007	HWB5	16	2	17	9	0	1936	35.724	-89.547
TN003051	HWB22	16	3	30	10	50	1987	35.728	-89.550
TN012393	HWB28	20	3	20	6	30	2016	35.736	-89.554
TN012469	HWB14	7	1	12	12	0	1975	35.716	-89.531
TN012513	HWB4	9	1	35	35	0	1996	35.744	-89.559
TN012458	HWB23	9	3	53	23	24	1997	35.784	-89.493
TN003035	HWB22	11	7	97	14	0	1988	35.765	-89.762
TN012372	HWB23	9	2	52	26	30	1994	35.701	-89.805
TN012373	HWB28	8	2	10	5	0	1984	35.721	-89.775
TN012374	HWB3	7	1	7	7	0	1985	35.771	-89.751
TN012416	HWB26	8	2	13	6	0	1970	35.880	-89.570
TN012417	HWB23	8	3	55	18	15	1999	35.872	-89.502
TN012506	HWB5	8	3	30	13	30	1953	35.880	-89.534
TN012375	HWB24	8	2	19	9	0	1975	35.788	-89.730
TN012412	HWB23	8	3	53	21	0	1996	35.821	-89.660
TN012411	HWB28	9	3	12	4	15	1991	35.833	-89.664
TN003029	HWB23	11	3	39	13	15	1960	35.904	-89.420
TN003030	HWB23	11	3	39	13	15	1960	35.904	-89.420
TN003081	HWB22	11	3	34	12	30	1985	35.904	-89.454
TN012359	HWB5	9	3	26	9	0	1960	35.902	-89.482
TN012436	HWB22	7	3	36	12	0	1989	35.915	-89.398
TN012499	HWB22	9	3	27	10	15	1985	35.905	-89.453
TN003009	HWB3	10	1	11	11	15	1925	35.784	-89.499
TN012399	HWB26	8	2	13	8	0	1975	35.771	-89.513
TN012459	HWB28	13	2	10	7	0	2008	35.789	-89.494
TN012485	HWB28	8	2	10	5	0	1984	35.789	-89.487
TN003023	HWB17	11	3	24	8	0	1963	35.766	-89.540
TN003024	HWB17	11	3	24	8	0	1963	35.773	-89.530
TN012400	HWB4	8	1	8	8	0	1970	35.788	-89.527
TN012415	HWB22	8	6	98	17	0	1988	35.881	-89.597
TN003069	HWB22	10	3	42	14	0	1984	35.920	-89.583
TN003070	HWB22	10	3	52	17	0	1986	35.920	-89.576
TN012498	HWB23	11	8	138	18	0	1996	35.862	-89.341
TN003034	HWB28	12	5	24	5	0	1988	35.765	-89.767

Table C.2 Bridge Data for Hazus Input

HazusID	Bridge Class	Width (m)	No. Spans	Length (m)	Max Span Length (m)	Skew Angle	Year Built	Latitude	Longitude
TN003036	HWB23	11	3	45	14	0	1995	35.767	-89.750
TN003037	HWB22	11	6	83	14	0	1988	35.767	-89.744
TN003038	HWB22	11	9	125	14	0	1988	35.773	-89.711
TN003039	HWB22	11	3	42	14	0	1988	35.773	-89.707
TN003040	HWB28	12	3	15	5	0	1988	35.774	-89.700
TN003042	HWB22	11	5	70	14	0	1988	35.773	-89.686
TN003043	HWB22	11	3	42	14	0	1988	35.773	-89.684
TN003044	HWB22	11	4	56	14	0	1988	35.773	-89.673
TN003071	HWB22	10	7	82	12	0	1986	35.920	-89.573
TN003072	HWB22	10	3	29	9	0	1986	35.919	-89.566
TN003073	HWB22	10	2	19	10	0	1986	35.919	-89.553
TN003074	HWB22	10	3	29	10	0	1986	35.918	-89.550
TN003075	HWB28	10	3	15	5	0	1986	35.918	-89.545
TN003076	HWB22	10	4	47	12	0	1986	35.918	-89.537
TN003077	HWB28	10	3	15	5	0	1986	35.918	-89.535
TN003078	HWB22	10	3	28	9	0	1986	35.917	-89.518
TN003079	HWB28	11	3	12	4	0	1985	35.917	-89.511
TN012397	HWB3	8	1	9	9	0	1958	35.830	-89.606
TN012473	HWB28	8	2	9	6	0	1973	35.635	-89.514
TN012489	HWB28	10	3	13	4	0	2013	35.881	-89.359
TN012490	HWB24	8	2	19	9	0	1972	35.881	-89.354
TN012492	HWB23	10	4	58	15	0	1997	35.881	-89.350
TN012493	HWB15	8	4	37	9	0	1960	35.881	-89.348
TN012494	HWB23	10	2	32	16	0	1997	35.881	-89.344
TN012519	HWB3	9	1	9	9	0	1986	35.627	-89.826
TN012520	HWB28	10	4	13	3	0	1986	35.915	-89.631
TN012521	HWB28	11	2	8	4	0	1986	35.921	-89.595
TN012522	HWB28	11	2	8	4	0	1986	35.920	-89.586
TN012523	HWB28	11	2	8	4	0	1986	35.920	-89.584
TN012524	HWB22	10	3	30	10	0	1986	35.920	-89.579
TN012525	HWB22	10	8	94	12	0	1986	35.920	-89.573
TN012526	HWB28	9.1	3	15	5	0	1986	35.919	-89.562
TN012527	HWB28	10	3	15	5	0	1986	35.919	-89.558
TN012528	HWB28	10	3	15	5	0	1986	35.917	-89.526
TN012532	HWB22	13	4	45	12	0	1985	35.819	-89.365
TN012533	HWB22	13	4	45	12	0	1985	35.819	-89.362
TN012534	HWB22	13	4	50	12	0	1985	35.819	-89.361
TN012497	HWB23	11	10	348	37	0	1992	35.862	-89.350
TN012491	HWB16	9	5	64	15	15	1991	35.881	-89.354
TN012535	HWB15	10	30	305	27	0	1952	35.818	-89.358
TN003021	HWB15	13	3	65	36	34	1971	35.755	-89.550
TN012536	HWB16	15	9	300	34	20	1995	35.919	-89.608
TN003052	HWB22	15	3	55	22	8	1986	35.725	-89.546

Table C.2 Bridge Data for Hazus Input

HazusID	Bridge Class	Width (m)	No. Spans	Length (m)	Max Span Length (m)	Skew Angle	Year Built	Latitude	Longitude
TN003033	HWB10	11	4	62	18	25	1964	35.881	-89.423
TN003027	HWB17	11	3	24	8	0	1963	35.868	-89.431
TN003028	HWB17	11	3	24	8	0	1963	35.867	-89.432
TN003083	HWB22	13	3	38	13	23	1985	35.867	-89.397
TN012440	HWB4	8	1	27	27	20	1995	35.866	-89.416
TN012441	HWB22	8	3	26	9	15	1987	35.865	-89.428
TN012516	HWB23	9	3	31	10	0	1991	35.865	-89.376
TN003010	HWB10	7	2	10	5	0	1924	35.816	-89.443
TN003013	HWB5	7	2	17	9	30	1926	35.836	-89.408
TN012444	HWB23	8	3	35	14	15	1996	35.848	-89.395
TN012447	HWB4	8	1	29	29	0	2000	35.829	-89.416
TN012448	HWB23	7	3	55	18	45	2003	35.823	-89.424
TN012451	HWB28	9	2	7	3	15	1984	35.817	-89.449
TN012453	HWB26	8	2	9	5	15	1975	35.819	-89.461
TN012529	HWB22	13	3	32	11	0	1985	35.837	-89.403
TN100036	HWB28	8	1	7	7	0	1924	35.676	-89.571
TN100037	HWB28	9	1	4	4	0	1903	35.727	-89.542
TN100038	HWB28	8	1	7	7	0	1924	35.678	-89.581
TN100039	HWB28	9	1	5	5	0	1903	35.786	-89.486
TN100040	HWB3	11	1	9	9	0	1975	35.800	-89.454
TN100001	HWB8	25	2	38	19	0	1965	36.303	-89.501
TN100002	HWB17	46	2	105	52	0	1982	36.228	-89.474
TN100003	HWB10	14	3	86	29	0	1983	36.353	-89.406
TN100004	HWB20	29	3	203	69	45	1985	36.216	-89.498
TN100005	HWB20	36	5	331	67	15	1987	36.226	-89.544
TN100006	HWB17	30	3	144	60	0	1990	36.260	-89.429
TN100007	HWB17	26	3	144	60	0	1991	36.332	-89.401
TN100008	HWB19	24	3	143	60	15	2007	36.270	-89.425
TN100009	HWB19	31	3	277	93	14	2011	36.353	-89.410
TN100010	HWB21	24	3	141	51	0	2013	36.198	-89.511
TN100012	HWB19	29	2	116	56	0	2017	36.369	-89.488
TN100013	HWB19	45	1	92	87	35	2018	36.448	-89.409
TN100014	HWB28	8	1	70	3	0	1930	36.352	-89.406
TN100015	HWB28	13	2	8	4	10	2014	36.407	-89.475
TN100016	HWB28	15	3	54	20	31	2014	36.386	-88.468
TN100017	HWB28	11	4	8	2	0	1999	36.464	-89.393
TN100018	HWB28	11	4	20	5	0	1993	36.349	-89.469
TN100019	HWB28	13	5	24	5	0	1997	36.307	-89.476
TN100020	HWB28	13	4	20	5	15	1997	36.341	-89.470
TN100021	HWB28	13	3	15	4	30	1997	36.334	-89.473
TN100022	HWB28	12	4	9	2	0	1969	36.367	-89.505
TN100023	HWB28	10	2	7	3	0	1998	36.444	-89.487
TN100024	HWB28	15	3	11	3	0	1984	36.228	-89.532

Table C.2 Bridge Data for Hazus Input

HazusID	Bridge Class	Width (m)	No. Spans	Length (m)	Max Span Length (m)	Skew Angle	Year Built	Latitude	Longitude
TN100025	HWB28	13	5	20	4	0	1984	36.227	-89.537
TN100026	HWB28	10	2	11	5	45	2014	36.263	-89.465
TN100027	HWB28	8	2	10	5	15	1984	36.285	-89.517
TN100028	HWB28	10	2	7	3	0	1999	36.322	-89.476
TN100029	HWB28	10	2	10	5	0	1999	36.307	-89.476
TN100030	HWB28	8	2	9	3	45	1995	36.198	-89.516
TN100031	HWB28	17	2	7	2	30	2014	36.413	-89.475

Appendix D. Hazus-MH 5.1 Results: Damage State Probabilities

Table D. 1 Damage State Probabilities for Essential Facilities for CERl Hazard Scenario Extensive to Complete Damage

Structure No.	P(N)			P(S)			P(M)		
	STR	NSA	NSD	STR	NSA	NSD	STR	NSA	NSD
1	0.000	0.005	0.000	0.001	0.026	0.002	0.018	0.058	0.042
2.01	0.000	0.014	0.000	0.002	0.059	0.006	0.045	0.111	0.089
2.02	0.000	0.014	0.000	0.002	0.059	0.006	0.045	0.111	0.089
3.01	0.001	0.004	0.001	0.002	0.023	0.004	0.027	0.054	0.037
3.02	0.001	0.004	0.001	0.002	0.023	0.004	0.027	0.054	0.037
3.03	0.001	0.004	0.001	0.002	0.023	0.004	0.027	0.054	0.037
4	0.000	0.001	0.000	0.000	0.003	0.000	0.007	0.006	0.003
5	0.000	0.001	0.000	0.001	0.010	0.001	0.013	0.027	0.016
13	0.003	0.062	0.004	0.018	0.178	0.033	0.154	0.221	0.235
14.01	0.279	0.104	0.290	0.410	0.272	0.301	0.271	0.386	0.342
14.02	0.001	0.047	0.002	0.009	0.137	0.017	0.101	0.173	0.170
15	0.000	0.031	0.001	0.005	0.102	0.011	0.073	0.146	0.131
16	0.000	0.027	0.001	0.005	0.095	0.010	0.067	0.140	0.123
17.01	0.004	0.022	0.006	0.009	0.083	0.011	0.065	0.114	0.104
17.02	0.004	0.022	0.006	0.009	0.083	0.011	0.065	0.114	0.104
17.03	0.000	0.012	0.000	0.002	0.045	0.003	0.025	0.061	0.040
18	0.001	0.041	0.002	0.009	0.132	0.018	0.105	0.182	0.175
19.01	0.000	0.004	0.000	0.000	0.023	0.000	0.003	0.041	0.012
19.02	0.000	0.005	0.000	0.000	0.028	0.001	0.007	0.049	0.020
19.03	0.000	0.005	0.000	0.000	0.028	0.001	0.007	0.049	0.020
20	0.005	0.031	0.007	0.022	0.123	0.038	0.158	0.228	0.233
21	0.002	0.008	0.002	0.003	0.037	0.006	0.035	0.069	0.049
22	0.001	0.006	0.001	0.003	0.032	0.005	0.031	0.062	0.043
23	0.069	0.036	0.080	0.247	0.159	0.170	0.424	0.370	0.425
24	0.138	0.049	0.151	0.322	0.190	0.228	0.381	0.386	0.413
25	0.000	0.006	0.000	0.000	0.034	0.000	0.007	0.062	0.024
26	0.001	0.027	0.000	0.004	0.105	0.003	0.056	0.172	0.082
27.01	0.206	0.062	0.219	0.398	0.208	0.287	0.332	0.390	0.394
27.02	0.206	0.062	0.219	0.398	0.208	0.287	0.332	0.390	0.394
28	0.002	0.009	0.002	0.004	0.044	0.007	0.043	0.081	0.060
29	0.243	0.078	0.255	0.407	0.236	0.296	0.300	0.392	0.367
30	0.067	0.044	0.077	0.244	0.179	0.167	0.425	0.382	0.424

*Table D. 1 Damage State Probabilities for Essential Facilities for CERI Hazard Scenario
Extensive to Complete Damage*

Structure No.	P(N)			P(S)			P(M)		
	STR	NSA	NSD	STR	NSA	NSD	STR	NSA	NSD
31	0.216	0.082	0.229	0.401	0.243	0.290	0.323	0.392	0.387
32	0.002	0.058	0.004	0.017	0.171	0.030	0.148	0.217	0.228
33	0.001	0.047	0.001	0.008	0.133	0.016	0.094	0.163	0.160
34	0.001	0.033	0.001	0.006	0.108	0.012	0.078	0.152	0.138
35.01	0.869	0.628	0.860	0.073	0.287	0.099	0.051	0.078	0.040
35.02	0.531	0.620	0.530	0.181	0.283	0.245	0.215	0.084	0.202
36	0.061	0.178	0.066	0.065	0.302	0.106	0.253	0.228	0.351
37	0.026	0.094	0.028	0.034	0.215	0.057	0.175	0.211	0.255
38	0.118	0.112	0.125	0.099	0.300	0.157	0.305	0.337	0.398
39	0.049	0.139	0.053	0.055	0.276	0.091	0.232	0.237	0.328
40	0.065	0.102	0.070	0.067	0.268	0.110	0.258	0.296	0.357
41	0.026	0.099	0.028	0.034	0.218	0.057	0.176	0.207	0.255
42	0.026	0.095	0.045	0.045	0.210	0.061	0.182	0.185	0.266
43	0.020	0.054	0.025	0.023	0.154	0.041	0.133	0.179	0.195
44	0.031	0.063	0.040	0.034	0.186	0.060	0.168	0.220	0.249
45	0.048	0.079	0.052	0.054	0.233	0.090	0.231	0.285	0.326
46	0.057	0.083	0.062	0.061	0.245	0.101	0.247	0.298	0.344
47	0.022	0.090	0.024	0.030	0.205	0.052	0.165	0.201	0.240
48	0.025	0.091	0.027	0.033	0.212	0.056	0.173	0.210	0.251
49	0.027	0.180	0.021	0.039	0.273	0.055	0.237	0.182	0.331
50	0.014	0.049	0.024	0.027	0.146	0.035	0.132	0.162	0.194
51	0.054	0.087	0.069	0.051	0.235	0.091	0.215	0.258	0.312
52	0.023	0.088	0.025	0.031	0.206	0.053	0.167	0.206	0.244
53	0.052	0.078	0.056	0.057	0.235	0.094	0.237	0.292	0.333
54	0.088	0.119	0.093	0.082	0.294	0.133	0.284	0.307	0.382
55	0.007	0.075	0.006	0.012	0.180	0.019	0.117	0.170	0.196
56	0.375	0.151	0.382	0.364	0.326	0.277	0.216	0.362	0.277
57.01	0.006	0.087	0.005	0.011	0.182	0.018	0.110	0.154	0.187
57.02	0.391	0.137	0.397	0.360	0.314	0.276	0.207	0.371	0.267
57.03	0.001	0.050	0.002	0.005	0.103	0.009	0.055	0.087	0.087
57.04	0.009	0.087	0.012	0.029	0.196	0.036	0.157	0.187	0.212
58	0.012	0.063	0.010	0.020	0.191	0.030	0.160	0.217	0.249
59	0.031	0.115	0.034	0.039	0.238	0.067	0.193	0.214	0.278
60	0.473	0.194	0.474	0.214	0.364	0.249	0.234	0.324	0.221

*Table D. 1 Damage State Probabilities for Essential Facilities for CERI Hazard Scenario
Extensive to Complete Damage*

Structure No.	P(N)			P(S)			P(M)		
	STR	NSA	NSD	STR	NSA	NSD	STR	NSA	NSD
61	0.490	0.200	0.490	0.211	0.367	0.246	0.225	0.318	0.212
62	0.545	0.229	0.543	0.200	0.377	0.232	0.197	0.298	0.184
63	0.397	0.170	0.402	0.221	0.350	0.260	0.273	0.341	0.261
64	0.003	0.035	0.008	0.021	0.109	0.034	0.121	0.161	0.176
65	0.513	0.230	0.512	0.207	0.378	0.241	0.213	0.297	0.201
66	0.346	0.146	0.353	0.222	0.334	0.263	0.298	0.358	0.289
67	0.015	0.072	0.017	0.023	0.174	0.039	0.136	0.179	0.200
68	0.445	0.181	0.448	0.217	0.357	0.254	0.248	0.333	0.235
69	0.002	0.063	0.003	0.015	0.173	0.028	0.140	0.205	0.218
70	0.528	0.221	0.526	0.204	0.375	0.237	0.206	0.303	0.193
71	0.047	0.164	0.057	0.115	0.333	0.157	0.366	0.301	0.427
72	0.482	0.198	0.483	0.212	0.366	0.247	0.229	0.320	0.216
73.01	0.000	0.019	0.001	0.001	0.069	0.005	0.013	0.091	0.091
73.02	0.004	0.028	0.006	0.019	0.113	0.034	0.146	0.217	0.219
73.03	0.000	0.001	0.000	0.000	0.006	0.000	0.003	0.011	0.004
73.04	0.000	0.015	0.000	0.002	0.059	0.005	0.039	0.099	0.079
73.05	0.004	0.028	0.006	0.019	0.113	0.034	0.146	0.217	0.219
73.06	0.004	0.028	0.006	0.019	0.113	0.034	0.146	0.217	0.219
74	0.024	0.494	0.080	0.108	0.292	0.250	0.426	0.097	0.468
75	0.026	0.080	0.040	0.050	0.217	0.063	0.204	0.225	0.292
76	0.004	0.160	0.024	0.024	0.230	0.090	0.167	0.145	0.301
77.01	0.450	0.185	0.452	0.217	0.359	0.253	0.246	0.330	0.233
77.02	0.450	0.185	0.452	0.217	0.359	0.253	0.246	0.330	0.233
77.03	0.047	0.164	0.057	0.115	0.333	0.157	0.366	0.301	0.427
77.04	0.047	0.164	0.057	0.115	0.333	0.157	0.366	0.301	0.427
77.05	0.047	0.164	0.057	0.115	0.333	0.157	0.366	0.301	0.427
78	0.005	0.032	0.007	0.023	0.125	0.040	0.162	0.231	0.237
79	0.005	0.024	0.007	0.023	0.110	0.040	0.163	0.233	0.238
80	0.067	0.062	0.077	0.120	0.223	0.163	0.352	0.372	0.398
81	0.039	0.062	0.047	0.089	0.215	0.127	0.318	0.346	0.378
82	0.191	0.073	0.205	0.393	0.228	0.282	0.346	0.392	0.404
83.01	0.002	0.025	0.006	0.018	0.089	0.030	0.111	0.156	0.165
83.02	0.003	0.062	0.004	0.018	0.178	0.033	0.154	0.221	0.235
84	0.014	0.050	0.019	0.046	0.177	0.073	0.237	0.290	0.312

*Table D. 1 Damage State Probabilities for Essential Facilities for CERI Hazard Scenario
Extensive to Complete Damage*

Structure No.	P(N)			P(S)			P(M)		
	STR	NSA	NSD	STR	NSA	NSD	STR	NSA	NSD
85.01	0.001	0.037	0.002	0.011	0.131	0.022	0.118	0.200	0.191
85.02	0.020	0.049	0.026	0.058	0.181	0.089	0.265	0.313	0.337
86	0.166	0.087	0.240	0.310	0.255	0.241	0.364	0.390	0.355
88.01	0.466	0.203	0.467	0.215	0.368	0.250	0.237	0.317	0.225
88.02	0.466	0.203	0.467	0.215	0.368	0.250	0.237	0.317	0.225
88.03	0.466	0.203	0.467	0.215	0.368	0.250	0.237	0.317	0.225
88.04	0.466	0.203	0.467	0.215	0.368	0.250	0.237	0.317	0.225
88.05	0.466	0.203	0.467	0.215	0.368	0.250	0.237	0.317	0.225
89	0.177	0.127	0.189	0.191	0.315	0.237	0.366	0.365	0.376
90	0.162	0.115	0.175	0.184	0.303	0.231	0.369	0.372	0.382
91	0.033	0.083	0.061	0.102	0.221	0.125	0.277	0.283	0.320
94	0.490	0.200	0.490	0.211	0.367	0.246	0.225	0.318	0.212
95	0.025	0.140	0.032	0.080	0.304	0.116	0.322	0.291	0.398
96	0.005	0.050	0.007	0.012	0.117	0.015	0.078	0.110	0.122
97	0.003	0.041	0.008	0.023	0.118	0.036	0.126	0.163	0.181
98	0.528	0.221	0.526	0.204	0.375	0.237	0.206	0.303	0.193
99	0.482	0.198	0.483	0.212	0.366	0.247	0.229	0.320	0.216
100	0.005	0.032	0.007	0.022	0.125	0.039	0.160	0.230	0.235
101	0.002	0.021	0.004	0.013	0.092	0.026	0.120	0.191	0.189
102	0.119	0.077	0.131	0.162	0.254	0.208	0.372	0.388	0.397
103.01	0.000	0.002	0.000	0.001	0.014	0.001	0.017	0.026	0.012
103.02	0.001	0.005	0.001	0.003	0.028	0.004	0.029	0.058	0.040
104	0.006	0.034	0.009	0.027	0.133	0.046	0.178	0.246	0.254
105.01	0.009	0.037	0.012	0.033	0.146	0.055	0.199	0.264	0.276
105.02	0.002	0.007	0.002	0.003	0.035	0.005	0.035	0.067	0.048
105.03	0.005	0.025	0.007	0.023	0.112	0.040	0.162	0.232	0.237
106	0.002	0.010	0.002	0.004	0.046	0.008	0.044	0.083	0.062
109.01	0.000	0.003	0.000	0.001	0.013	0.001	0.016	0.024	0.011
109.02	0.000	0.003	0.000	0.001	0.013	0.001	0.016	0.024	0.011
109.03	0.000	0.003	0.000	0.001	0.013	0.001	0.016	0.024	0.011
109.04	0.001	0.006	0.001	0.002	0.028	0.004	0.028	0.055	0.037
109.05	0.001	0.006	0.001	0.002	0.028	0.004	0.028	0.055	0.037
109.06	0.001	0.007	0.001	0.003	0.033	0.005	0.032	0.063	0.044
109.07	0.001	0.007	0.001	0.003	0.033	0.005	0.032	0.063	0.044

*Table D. 1 Damage State Probabilities for Essential Facilities for CERl Hazard Scenario
Extensive to Complete Damage*

Structure No.	P(N)			P(S)			P(M)		
	STR	NSA	NSD	STR	NSA	NSD	STR	NSA	NSD
110	0.000	0.001	0.000	0.000	0.006	0.000	0.005	0.010	0.005
111	0.001	0.007	0.001	0.002	0.028	0.002	0.017	0.043	0.027
112	0.000	0.004	0.000	0.002	0.020	0.002	0.021	0.032	0.017
113.01	0.064	0.062	0.074	0.118	0.221	0.161	0.350	0.371	0.397
113.02	0.001	0.007	0.001	0.002	0.029	0.002	0.017	0.043	0.028
113.03	0.001	0.007	0.001	0.002	0.029	0.002	0.017	0.043	0.028
114.01	0.000	0.009	0.001	0.004	0.037	0.008	0.042	0.078	0.079
114.02	0.000	0.009	0.001	0.004	0.037	0.008	0.042	0.078	0.079
114.03	0.000	0.025	0.001	0.004	0.085	0.008	0.058	0.126	0.108
115	0.001	0.006	0.001	0.002	0.027	0.002	0.017	0.043	0.027
116.01	0.000	0.001	0.000	0.001	0.007	0.001	0.011	0.017	0.010
116.02	0.000	0.011	0.000	0.002	0.048	0.004	0.036	0.094	0.074
116.03	0.000	0.011	0.000	0.002	0.048	0.004	0.036	0.094	0.074
116.04	0.003	0.021	0.005	0.017	0.097	0.031	0.138	0.209	0.210
117.01	0.000	0.004	0.001	0.002	0.020	0.005	0.029	0.056	0.058
117.02	0.000	0.004	0.001	0.003	0.023	0.006	0.032	0.062	0.064
117.03	0.000	0.013	0.000	0.002	0.057	0.005	0.043	0.106	0.085
117.04	0.000	0.010	0.000	0.002	0.049	0.004	0.038	0.098	0.077
118.01	0.000	0.003	0.000	0.000	0.017	0.000	0.003	0.033	0.009
118.02	0.000	0.004	0.001	0.003	0.023	0.006	0.032	0.062	0.064
118.03	0.000	0.005	0.001	0.003	0.025	0.006	0.034	0.065	0.067
118.04	0.005	0.025	0.007	0.022	0.111	0.039	0.160	0.230	0.235
119.01	0.002	0.012	0.003	0.005	0.052	0.008	0.047	0.087	0.067
119.02	0.021	0.053	0.026	0.059	0.189	0.090	0.267	0.313	0.339
119.03	0.021	0.053	0.026	0.059	0.189	0.090	0.267	0.313	0.339
119.04	0.002	0.012	0.003	0.005	0.052	0.008	0.047	0.087	0.067
120.01	0.015	0.050	0.019	0.047	0.177	0.074	0.239	0.292	0.314
120.02	0.015	0.050	0.019	0.047	0.177	0.074	0.239	0.292	0.314
122	0.158	0.102	0.170	0.182	0.289	0.229	0.369	0.381	0.384
123.01	0.014	0.043	0.015	0.021	0.142	0.036	0.129	0.192	0.190
123.02	0.020	0.088	0.024	0.058	0.251	0.089	0.262	0.293	0.334
123.03	0.280	0.115	0.290	0.217	0.305	0.260	0.329	0.378	0.324
123.04	0.280	0.115	0.290	0.217	0.305	0.260	0.329	0.378	0.324
123.05	0.020	0.088	0.024	0.058	0.251	0.089	0.262	0.293	0.334

*Table D. 1 Damage State Probabilities for Essential Facilities for CERI Hazard Scenario
Extensive to Complete Damage*

Structure No.	P(N)			P(S)			P(M)		
	STR	NSA	NSD	STR	NSA	NSD	STR	NSA	NSD
124	0.110	0.087	0.122	0.156	0.267	0.202	0.371	0.379	0.399
125	0.077	0.078	0.088	0.130	0.249	0.175	0.359	0.371	0.400
130	0.004	0.013	0.005	0.008	0.062	0.014	0.068	0.121	0.099
131	0.245	0.109	0.256	0.211	0.298	0.256	0.343	0.381	0.342
133	0.596	0.278	0.591	0.188	0.388	0.218	0.171	0.262	0.160
135	0.005	0.036	0.014	0.024	0.100	0.034	0.102	0.136	0.147
135.01	0.066	0.100	0.112	0.149	0.257	0.171	0.318	0.316	0.342
135.02	0.002	0.055	0.002	0.005	0.109	0.010	0.058	0.089	0.093
135.03	0.066	0.100	0.112	0.149	0.257	0.171	0.318	0.316	0.342
136.01	0.486	0.209	0.487	0.212	0.371	0.246	0.227	0.312	0.214
136.02	0.165	0.189	0.112	0.184	0.368	0.217	0.403	0.300	0.439
136.03	0.165	0.189	0.112	0.184	0.368	0.217	0.403	0.300	0.439
136.04	0.065	0.192	0.076	0.137	0.353	0.182	0.384	0.291	0.433
136.05	0.065	0.192	0.076	0.137	0.353	0.182	0.384	0.291	0.433
136.06	0.065	0.192	0.076	0.137	0.353	0.182	0.384	0.291	0.433
136.07	0.065	0.192	0.076	0.137	0.353	0.182	0.384	0.291	0.433
136.08	0.065	0.192	0.076	0.137	0.353	0.182	0.384	0.291	0.433
136.09	0.065	0.192	0.076	0.137	0.353	0.182	0.384	0.291	0.433
136.1	0.101	0.102	0.113	0.150	0.283	0.196	0.369	0.366	0.400
136.11	0.065	0.192	0.076	0.137	0.353	0.182	0.384	0.291	0.433
136.12	0.065	0.192	0.076	0.137	0.353	0.182	0.384	0.291	0.433
137	0.065	0.192	0.076	0.137	0.353	0.182	0.384	0.291	0.433
138	0.087	0.106	0.092	0.082	0.283	0.132	0.283	0.317	0.381
139	0.008	0.057	0.017	0.041	0.155	0.058	0.176	0.203	0.233
139.01	0.280	0.164	0.291	0.229	0.353	0.273	0.331	0.342	0.318
139.02	0.059	0.150	0.035	0.103	0.325	0.122	0.374	0.289	0.406
139.03	0.023	0.146	0.029	0.074	0.304	0.108	0.312	0.280	0.391
139.04	0.023	0.146	0.029	0.074	0.304	0.108	0.312	0.280	0.391
140	0.005	0.054	0.013	0.032	0.143	0.047	0.153	0.182	0.210
140.01	0.402	0.189	0.406	0.221	0.361	0.259	0.270	0.327	0.259
140.02	0.052	0.186	0.062	0.121	0.345	0.164	0.372	0.287	0.429
140.03	0.027	0.157	0.034	0.082	0.314	0.119	0.326	0.280	0.401
140.04	0.027	0.157	0.034	0.082	0.314	0.119	0.326	0.280	0.401
140.05	0.052	0.186	0.062	0.121	0.345	0.164	0.372	0.287	0.429

*Table D. 1 Damage State Probabilities for Essential Facilities for CERI Hazard Scenario
Extensive to Complete Damage*

Structure No.	P(N)			P(S)			P(M)		
	STR	NSA	NSD	STR	NSA	NSD	STR	NSA	NSD
140.06	0.052	0.186	0.062	0.121	0.345	0.164	0.372	0.287	0.429
140.07	0.052	0.186	0.062	0.121	0.345	0.164	0.372	0.287	0.429
141	0.008	0.039	0.020	0.033	0.113	0.045	0.125	0.162	0.173
141.01	0.012	0.056	0.026	0.054	0.165	0.075	0.206	0.233	0.262
141.02	0.012	0.056	0.026	0.054	0.165	0.075	0.206	0.233	0.262
141.03	0.010	0.082	0.008	0.017	0.199	0.026	0.145	0.189	0.231
141.04	0.200	0.095	0.212	0.355	0.269	0.256	0.335	0.391	0.382
141.05	0.200	0.095	0.212	0.355	0.269	0.256	0.335	0.391	0.382
142	0.014	0.035	0.034	0.050	0.121	0.065	0.163	0.207	0.211
142.01	0.052	0.067	0.056	0.058	0.222	0.095	0.239	0.302	0.335
142.02	0.122	0.110	0.079	0.159	0.312	0.187	0.408	0.355	0.442
143	0.026	0.051	0.058	0.074	0.158	0.091	0.205	0.243	0.249
143.01	0.085	0.100	0.091	0.081	0.277	0.130	0.281	0.320	0.380
143.02	0.029	0.096	0.021	0.043	0.250	0.061	0.241	0.251	0.333
143.03	0.029	0.096	0.021	0.043	0.250	0.061	0.241	0.251	0.333
143.04	0.040	0.065	0.074	0.115	0.204	0.139	0.291	0.310	0.329
143.05	0.085	0.092	0.090	0.081	0.269	0.130	0.281	0.326	0.379
143.06	0.085	0.092	0.090	0.081	0.269	0.130	0.281	0.326	0.379
144	0.005	0.050	0.012	0.030	0.136	0.045	0.147	0.179	0.204
144.01	0.333	0.172	0.341	0.222	0.352	0.263	0.304	0.339	0.296
144.02	0.006	0.115	0.008	0.030	0.241	0.050	0.203	0.224	0.290
144.03	0.006	0.115	0.008	0.030	0.241	0.050	0.203	0.224	0.290
144.04	0.006	0.115	0.008	0.030	0.241	0.050	0.203	0.224	0.290
144.05	0.006	0.115	0.008	0.030	0.241	0.050	0.203	0.224	0.290
145	0.019	0.049	0.044	0.060	0.148	0.076	0.183	0.220	0.229
145.01	0.033	0.092	0.051	0.061	0.238	0.077	0.229	0.238	0.320
145.02	0.008	0.070	0.009	0.019	0.181	0.034	0.135	0.179	0.211
145.03	0.008	0.070	0.009	0.019	0.181	0.034	0.135	0.179	0.211
145.04	0.008	0.070	0.009	0.019	0.181	0.034	0.135	0.179	0.211
145.05	0.008	0.070	0.009	0.019	0.181	0.034	0.135	0.179	0.211
145.06	0.008	0.070	0.009	0.019	0.181	0.034	0.135	0.179	0.211
145.07	0.008	0.070	0.009	0.019	0.181	0.034	0.135	0.179	0.211
146	0.043	0.089	0.049	0.088	0.258	0.100	0.292	0.303	0.370
147	0.007	0.054	0.017	0.040	0.151	0.057	0.174	0.203	0.231

*Table D. 1 Damage State Probabilities for Essential Facilities for CERI Hazard Scenario
Extensive to Complete Damage*

Structure No.	P(N)			P(S)			P(M)		
	STR	NSA	NSD	STR	NSA	NSD	STR	NSA	NSD
147.01	0.233	0.153	0.245	0.220	0.345	0.267	0.353	0.350	0.344
147.02	0.233	0.153	0.245	0.220	0.345	0.267	0.353	0.350	0.344
148	0.181	0.124	0.193	0.192	0.313	0.239	0.365	0.369	0.374
149	0.008	0.065	0.019	0.043	0.166	0.062	0.182	0.204	0.240
149.01	0.005	0.046	0.007	0.009	0.092	0.011	0.065	0.075	0.090
149.02	0.005	0.042	0.015	0.026	0.109	0.036	0.107	0.138	0.153
149.03	0.005	0.042	0.015	0.026	0.109	0.036	0.107	0.138	0.153
149.04	0.209	0.129	0.289	0.328	0.302	0.250	0.337	0.376	0.330
149.05	0.024	0.096	0.026	0.032	0.213	0.055	0.171	0.204	0.249
149.06	0.372	0.193	0.378	0.222	0.363	0.262	0.285	0.324	0.275
149.07	0.010	0.087	0.016	0.023	0.171	0.029	0.125	0.139	0.190
149.08	0.024	0.096	0.026	0.032	0.213	0.055	0.171	0.204	0.249
149.09	0.002	0.056	0.002	0.005	0.109	0.010	0.058	0.088	0.093
149.1	0.185	0.128	0.197	0.194	0.317	0.240	0.364	0.366	0.372
149.11	0.002	0.056	0.002	0.005	0.109	0.010	0.058	0.088	0.093
149.12	0.002	0.056	0.002	0.005	0.109	0.010	0.058	0.088	0.093
150	0.002	0.056	0.002	0.005	0.109	0.010	0.058	0.088	0.093
151	0.397	0.175	0.402	0.221	0.354	0.260	0.273	0.337	0.261
152	0.005	0.053	0.010	0.020	0.131	0.024	0.113	0.130	0.138
153	0.009	0.047	0.021	0.046	0.148	0.065	0.189	0.222	0.246
153.01	0.041	0.130	0.027	0.092	0.303	0.103	0.362	0.309	0.394
153.02	0.027	0.127	0.034	0.083	0.297	0.119	0.326	0.305	0.401
153.03	0.027	0.127	0.034	0.083	0.297	0.119	0.326	0.305	0.401
153.04	0.027	0.127	0.034	0.083	0.297	0.119	0.326	0.305	0.401
153.05	0.094	0.109	0.106	0.154	0.297	0.204	0.384	0.362	0.408
154	0.045	0.074	0.049	0.052	0.225	0.087	0.226	0.284	0.320
155	0.161	0.149	0.238	0.223	0.319	0.227	0.328	0.328	0.320
155.01	0.572	0.251	0.568	0.194	0.383	0.225	0.183	0.281	0.171
155.02	0.401	0.188	0.406	0.221	0.361	0.259	0.271	0.327	0.259
155.03	0.125	0.243	0.138	0.186	0.380	0.234	0.396	0.271	0.420
155.04	0.125	0.243	0.138	0.186	0.380	0.234	0.396	0.271	0.420
155.05	0.125	0.243	0.138	0.186	0.380	0.234	0.396	0.271	0.420
155.06	0.572	0.251	0.568	0.194	0.383	0.225	0.183	0.281	0.171
156	0.013	0.045	0.016	0.016	0.127	0.028	0.105	0.146	0.151

*Table D. 1 Damage State Probabilities for Essential Facilities for CERI Hazard Scenario
Extensive to Complete Damage*

Structure No.	P(N)			P(S)			P(M)		
	STR	NSA	NSD	STR	NSA	NSD	STR	NSA	NSD
157	0.023	0.048	0.053	0.069	0.152	0.086	0.198	0.237	0.243
157.01	0.089	0.119	0.095	0.083	0.295	0.134	0.285	0.309	0.383
157.02	0.082	0.101	0.087	0.079	0.277	0.127	0.278	0.316	0.376
157.03	0.082	0.101	0.087	0.079	0.277	0.127	0.278	0.316	0.376
157.04	0.082	0.101	0.087	0.079	0.277	0.127	0.278	0.316	0.376
157.05	0.082	0.101	0.087	0.079	0.277	0.127	0.278	0.316	0.376
158	0.214	0.133	0.226	0.203	0.323	0.249	0.355	0.365	0.358
159	0.004	0.031	0.011	0.020	0.090	0.030	0.092	0.127	0.135
159.01	0.007	0.060	0.011	0.018	0.143	0.022	0.103	0.134	0.159
159.02	0.238	0.103	0.249	0.365	0.279	0.267	0.307	0.389	0.360
159.03	0.001	0.037	0.001	0.004	0.086	0.007	0.045	0.080	0.072
160	0.007	0.062	0.017	0.040	0.160	0.058	0.174	0.198	0.232
161	0.010	0.062	0.022	0.048	0.167	0.067	0.192	0.216	0.249
161.01	0.442	0.193	0.445	0.218	0.363	0.254	0.250	0.324	0.237
161.02	0.012	0.085	0.018	0.026	0.178	0.033	0.135	0.153	0.205
161.03	0.383	0.182	0.389	0.222	0.358	0.261	0.280	0.332	0.268
161.04	0.383	0.182	0.389	0.222	0.358	0.261	0.280	0.332	0.268
161.05	0.383	0.182	0.389	0.222	0.358	0.261	0.280	0.332	0.268
161.06	0.383	0.182	0.389	0.222	0.358	0.261	0.280	0.332	0.268
162	0.009	0.048	0.021	0.046	0.148	0.065	0.188	0.222	0.245
162.01	0.155	0.122	0.168	0.181	0.309	0.228	0.370	0.366	0.385
162.02	0.316	0.140	0.326	0.409	0.310	0.304	0.242	0.368	0.315
162.03	0.155	0.122	0.168	0.181	0.309	0.228	0.370	0.366	0.385
162.04	0.048	0.134	0.020	0.102	0.309	0.083	0.366	0.308	0.442
162.05	0.316	0.140	0.326	0.409	0.310	0.304	0.242	0.368	0.315
162.06	0.316	0.140	0.326	0.409	0.310	0.304	0.242	0.368	0.315
163	0.147	0.139	0.221	0.216	0.310	0.223	0.330	0.332	0.326
163.01	0.558	0.239	0.555	0.197	0.380	0.229	0.190	0.290	0.178
163.02	0.558	0.239	0.555	0.197	0.380	0.229	0.190	0.290	0.178
163.03	0.558	0.239	0.555	0.197	0.380	0.229	0.190	0.290	0.178
163.04	0.088	0.216	0.039	0.151	0.360	0.129	0.408	0.267	0.498
163.05	0.591	0.250	0.586	0.189	0.383	0.219	0.174	0.283	0.162
163.06	0.423	0.206	0.427	0.220	0.369	0.257	0.259	0.314	0.247
164	0.088	0.111	0.143	0.173	0.275	0.191	0.328	0.326	0.343

*Table D. 1 Damage State Probabilities for Essential Facilities for CERI Hazard Scenario
Extensive to Complete Damage*

Structure No.	P(N)			P(S)			P(M)		
	STR	NSA	NSD	STR	NSA	NSD	STR	NSA	NSD
164.01	0.493	0.212	0.494	0.211	0.372	0.245	0.223	0.310	0.211
164.02	0.493	0.212	0.494	0.211	0.372	0.245	0.223	0.310	0.211
165	0.008	0.060	0.018	0.042	0.159	0.060	0.178	0.203	0.236
166	0.015	0.076	0.031	0.062	0.192	0.084	0.221	0.233	0.275
166.01	0.015	0.076	0.031	0.062	0.192	0.084	0.221	0.233	0.275
166.02	0.015	0.076	0.031	0.062	0.192	0.084	0.221	0.233	0.275
166.03	0.015	0.076	0.031	0.062	0.192	0.084	0.221	0.233	0.275
167	0.148	0.144	0.223	0.217	0.314	0.223	0.330	0.328	0.325
168	0.008	0.047	0.018	0.042	0.144	0.061	0.180	0.214	0.237
169	0.016	0.045	0.037	0.053	0.138	0.068	0.169	0.208	0.217
170	0.016	0.045	0.037	0.053	0.138	0.068	0.169	0.208	0.217
171	0.005	0.034	0.014	0.025	0.098	0.035	0.104	0.140	0.149
172	0.068	0.102	0.115	0.152	0.260	0.173	0.320	0.317	0.343
172.01	0.038	0.085	0.070	0.111	0.228	0.135	0.288	0.292	0.327
172.02	0.038	0.085	0.070	0.111	0.228	0.135	0.288	0.292	0.327
172.03	0.087	0.113	0.142	0.172	0.276	0.190	0.328	0.324	0.343
172.04	0.068	0.102	0.115	0.152	0.260	0.173	0.320	0.317	0.343
172.05	0.068	0.102	0.115	0.152	0.260	0.173	0.320	0.317	0.343
173	0.159	0.147	0.236	0.222	0.318	0.227	0.328	0.329	0.321
173.01	0.473	0.205	0.474	0.214	0.369	0.249	0.234	0.315	0.221
173.02	0.473	0.205	0.474	0.214	0.369	0.249	0.234	0.315	0.221
173.03	0.010	0.088	0.016	0.024	0.173	0.030	0.127	0.141	0.193
173.04	0.411	0.197	0.416	0.220	0.365	0.258	0.265	0.321	0.253
173.05	0.013	0.113	0.020	0.028	0.191	0.036	0.142	0.139	0.214
173.06	0.068	0.111	0.115	0.152	0.268	0.173	0.320	0.310	0.343
173.07	0.466	0.218	0.467	0.215	0.374	0.250	0.237	0.305	0.225
174	0.009	0.033	0.022	0.035	0.107	0.048	0.132	0.174	0.179
174.01	0.011	0.053	0.020	0.036	0.163	0.043	0.162	0.190	0.209
174.02	0.011	0.053	0.020	0.036	0.163	0.043	0.162	0.190	0.209
174.03	0.016	0.061	0.024	0.034	0.177	0.042	0.159	0.196	0.236
174.04	0.241	0.117	0.254	0.407	0.287	0.296	0.301	0.381	0.368
174.05	0.091	0.112	0.103	0.293	0.308	0.206	0.434	0.375	0.433
174.06	0.011	0.053	0.020	0.036	0.163	0.043	0.162	0.190	0.209
174.07	0.241	0.117	0.254	0.407	0.287	0.296	0.301	0.381	0.368

*Table D. 1 Damage State Probabilities for Essential Facilities for CERl Hazard Scenario
Extensive to Complete Damage*

Structure No.	P(N)			P(S)			P(M)		
	STR	NSA	NSD	STR	NSA	NSD	STR	NSA	NSD
174.08	0.065	0.125	0.028	0.125	0.310	0.105	0.391	0.329	0.474
174.09	0.013	0.047	0.029	0.059	0.154	0.080	0.215	0.247	0.270
174.1	0.011	0.053	0.020	0.036	0.163	0.043	0.162	0.190	0.209
174.11	0.017	0.045	0.041	0.057	0.140	0.073	0.177	0.216	0.224
174.12	0.011	0.053	0.020	0.036	0.163	0.043	0.162	0.190	0.209
174.13	0.023	0.076	0.040	0.060	0.215	0.074	0.218	0.236	0.289
174.14	0.013	0.047	0.029	0.059	0.154	0.080	0.215	0.247	0.270
174.15	0.028	0.060	0.053	0.092	0.190	0.116	0.266	0.287	0.312
174.16	0.013	0.047	0.029	0.059	0.154	0.080	0.215	0.247	0.270
174.17	0.028	0.060	0.053	0.092	0.190	0.116	0.266	0.287	0.312
175	0.012	0.066	0.009	0.019	0.192	0.029	0.156	0.211	0.244
175.01	0.028	0.060	0.053	0.092	0.190	0.116	0.266	0.287	0.312
175.02	0.065	0.125	0.028	0.125	0.310	0.105	0.391	0.329	0.474
175.03	0.062	0.086	0.067	0.065	0.251	0.107	0.254	0.304	0.353
175.04	0.003	0.041	0.003	0.008	0.120	0.015	0.079	0.131	0.126
175.05	0.033	0.092	0.051	0.061	0.238	0.077	0.229	0.238	0.320
175.06	0.013	0.047	0.029	0.059	0.154	0.080	0.215	0.247	0.270
175.07	0.030	0.065	0.058	0.097	0.198	0.121	0.273	0.291	0.317
175.08	0.028	0.060	0.053	0.092	0.190	0.116	0.266	0.287	0.312
175.09	0.028	0.060	0.053	0.092	0.190	0.116	0.266	0.287	0.312
175.1	0.023	0.076	0.040	0.060	0.215	0.074	0.218	0.236	0.289
176	0.447	0.215	0.449	0.217	0.373	0.254	0.247	0.308	0.235
177	0.008	0.060	0.018	0.042	0.159	0.060	0.178	0.204	0.236
178	0.008	0.037	0.020	0.032	0.111	0.044	0.124	0.162	0.172
178.01	0.031	0.078	0.034	0.039	0.213	0.067	0.193	0.244	0.278
178.02	0.023	0.072	0.024	0.031	0.193	0.052	0.165	0.216	0.241
178.03	0.010	0.065	0.015	0.022	0.158	0.028	0.120	0.150	0.183
178.04	0.008	0.050	0.018	0.041	0.148	0.059	0.176	0.209	0.234
178.05	0.007	0.056	0.012	0.024	0.142	0.028	0.126	0.143	0.156
178.06	0.023	0.072	0.024	0.031	0.193	0.052	0.165	0.216	0.241
178.07	0.023	0.072	0.024	0.031	0.193	0.052	0.165	0.216	0.241
178.08	0.031	0.078	0.034	0.039	0.213	0.067	0.193	0.244	0.278
178.09	0.014	0.072	0.021	0.030	0.179	0.038	0.147	0.175	0.221
178.1	0.010	0.063	0.018	0.032	0.165	0.039	0.152	0.171	0.195

*Table D. 1 Damage State Probabilities for Essential Facilities for CERI Hazard Scenario
Extensive to Complete Damage*

Structure No.	P(N)			P(S)			P(M)		
	STR	NSA	NSD	STR	NSA	NSD	STR	NSA	NSD
179	0.282	0.159	0.292	0.217	0.344	0.261	0.328	0.348	0.323
180	0.071	0.096	0.120	0.156	0.255	0.176	0.321	0.324	0.343
181.01	0.491	0.200	0.491	0.211	0.367	0.245	0.225	0.319	0.212
181.02	0.491	0.200	0.491	0.211	0.367	0.245	0.225	0.319	0.212
182	0.446	0.187	0.449	0.217	0.360	0.254	0.248	0.328	0.235
183.01	0.490	0.206	0.490	0.211	0.369	0.246	0.225	0.314	0.212
183.02	0.490	0.206	0.490	0.211	0.369	0.246	0.225	0.314	0.212
183.03	0.493	0.208	0.494	0.211	0.370	0.245	0.223	0.313	0.211
183.04	0.493	0.208	0.494	0.211	0.370	0.245	0.223	0.313	0.211
184	0.493	0.208	0.494	0.211	0.370	0.245	0.223	0.313	0.211
185	0.004	0.049	0.007	0.011	0.115	0.014	0.075	0.107	0.118
186	0.366	0.163	0.372	0.222	0.346	0.262	0.288	0.346	0.278
187.01	0.411	0.167	0.415	0.220	0.349	0.258	0.266	0.343	0.254
187.02	0.411	0.167	0.415	0.220	0.349	0.258	0.266	0.343	0.254
188.01	0.486	0.202	0.487	0.212	0.367	0.246	0.227	0.317	0.214
188.02	0.008	0.074	0.012	0.018	0.150	0.022	0.104	0.125	0.161
188.03	0.008	0.074	0.012	0.018	0.150	0.022	0.104	0.125	0.161
189	0.386	0.172	0.392	0.222	0.352	0.261	0.278	0.339	0.267
190.01	0.412	0.168	0.416	0.220	0.350	0.258	0.265	0.342	0.253
190.02	0.012	0.059	0.013	0.018	0.152	0.031	0.119	0.166	0.175
190.03	0.412	0.168	0.416	0.220	0.350	0.258	0.265	0.342	0.253
190.04	0.412	0.168	0.416	0.220	0.350	0.258	0.265	0.342	0.253
190.05	0.012	0.059	0.013	0.018	0.152	0.031	0.119	0.166	0.175
190.06	0.012	0.059	0.013	0.018	0.152	0.031	0.119	0.166	0.175
191	0.347	0.164	0.354	0.222	0.347	0.263	0.297	0.345	0.288
191.01	0.347	0.164	0.354	0.222	0.347	0.263	0.297	0.345	0.288
191.02	0.347	0.164	0.354	0.222	0.347	0.263	0.297	0.345	0.288
192	0.005	0.047	0.013	0.031	0.135	0.047	0.152	0.187	0.210
192.01	0.011	0.057	0.012	0.018	0.149	0.030	0.115	0.163	0.170
192.02	0.004	0.048	0.007	0.011	0.112	0.013	0.073	0.105	0.115
193	0.005	0.061	0.008	0.013	0.128	0.016	0.084	0.110	0.131
194	0.445	0.181	0.448	0.217	0.357	0.254	0.248	0.333	0.235
195	0.473	0.193	0.474	0.214	0.363	0.249	0.234	0.324	0.221
196.01	0.469	0.191	0.471	0.214	0.363	0.250	0.236	0.325	0.223

Table D. 1 Damage State Probabilities for Essential Facilities for CERI Hazard Scenario Extensive to Complete Damage

Structure No.	P(N)			P(S)			P(M)		
	STR	NSA	NSD	STR	NSA	NSD	STR	NSA	NSD
196.02	0.055	0.172	0.065	0.124	0.341	0.168	0.375	0.301	0.431
197.01	0.458	0.187	0.460	0.216	0.361	0.252	0.241	0.328	0.229
197.02	0.052	0.168	0.062	0.120	0.337	0.163	0.372	0.301	0.429
197.03	0.052	0.168	0.062	0.120	0.337	0.163	0.372	0.301	0.429
198	0.010	0.034	0.025	0.038	0.112	0.052	0.139	0.181	0.187

Table D.2 Damage State Probabilities for Essential Facilities for CERI Hazard Scenario Extensive to Complete Damage

Structure No.	P(E)			P(C)		
	STR	NSA	NSD	STR	NSA	NSD
1	0.116	0.238	0.091	0.865	0.673	0.865
2.01	0.209	0.242	0.156	0.743	0.574	0.749
2.02	0.209	0.242	0.156	0.743	0.574	0.749
3.01	0.095	0.238	0.084	0.874	0.680	0.874
3.02	0.095	0.238	0.084	0.874	0.680	0.874
3.03	0.095	0.238	0.084	0.874	0.680	0.874
4	0.008	0.225	0.012	0.985	0.765	0.985
5	0.050	0.227	0.046	0.936	0.735	0.936
13	0.382	0.200	0.261	0.443	0.339	0.467
14.01	0.031	0.204	0.042	0.009	0.034	0.025
14.02	0.322	0.211	0.227	0.567	0.432	0.584
15	0.273	0.226	0.197	0.649	0.496	0.660
16	0.262	0.229	0.190	0.665	0.509	0.676
17.01	0.202	0.230	0.160	0.720	0.551	0.720
17.02	0.202	0.230	0.160	0.720	0.551	0.720
17.03	0.124	0.234	0.108	0.849	0.649	0.849
18	0.328	0.219	0.231	0.556	0.426	0.574
19.01	0.094	0.234	0.084	0.904	0.697	0.904
19.02	0.108	0.235	0.094	0.885	0.684	0.885
19.03	0.108	0.235	0.094	0.885	0.684	0.885
20	0.353	0.252	0.238	0.463	0.366	0.484
21	0.119	0.240	0.103	0.841	0.647	0.841

*Table D.2 Damage State Probabilities for Essential Facilities for
CERI Hazard Scenario Extensive to Complete Damage*

Structure No.	P(E)			P(C)		
	STR	NSA	NSD	STR	NSA	NSD
22	0.107	0.239	0.094	0.857	0.661	0.857
23	0.202	0.323	0.181	0.058	0.113	0.145
24	0.133	0.289	0.127	0.026	0.085	0.081
25	0.139	0.236	0.121	0.854	0.662	0.854
26	0.345	0.237	0.242	0.593	0.460	0.672
27.01	0.049	0.275	0.062	0.015	0.065	0.038
27.02	0.049	0.275	0.062	0.015	0.065	0.038
28	0.138	0.240	0.118	0.813	0.626	0.813
29	0.039	0.244	0.051	0.012	0.049	0.031
30	0.205	0.301	0.183	0.059	0.094	0.148
31	0.046	0.237	0.059	0.014	0.046	0.036
32	0.376	0.204	0.258	0.457	0.350	0.480
33	0.311	0.210	0.220	0.587	0.447	0.602
34	0.284	0.224	0.204	0.632	0.483	0.645
35.01	0.008	0.006	0.001	0.000	0.000	0.000
35.02	0.070	0.010	0.019	0.003	0.003	0.004
36	0.386	0.113	0.242	0.235	0.178	0.235
37	0.354	0.169	0.249	0.411	0.312	0.411
38	0.354	0.155	0.197	0.123	0.097	0.123
39	0.384	0.135	0.249	0.280	0.212	0.280
40	0.385	0.162	0.239	0.224	0.173	0.224
41	0.355	0.165	0.249	0.410	0.311	0.410
42	0.302	0.172	0.182	0.445	0.338	0.445
43	0.288	0.204	0.203	0.537	0.409	0.537
44	0.331	0.198	0.216	0.436	0.334	0.436
45	0.384	0.184	0.249	0.282	0.218	0.282
46	0.386	0.181	0.244	0.249	0.192	0.249
47	0.345	0.172	0.246	0.438	0.332	0.438
48	0.352	0.171	0.249	0.418	0.317	0.418
49	0.381	0.125	0.270	0.317	0.239	0.323
50	0.256	0.207	0.176	0.572	0.436	0.572
51	0.366	0.177	0.213	0.315	0.242	0.315
52	0.347	0.173	0.247	0.432	0.327	0.432
53	0.385	0.186	0.248	0.269	0.208	0.269

*Table D.2 Damage State Probabilities for Essential Facilities for
CERI Hazard Scenario Extensive to Complete Damage*

Structure No.	P(E)			P(C)		
	STR	NSA	NSD	STR	NSA	NSD
54	0.376	0.147	0.221	0.171	0.132	0.171
55	0.353	0.186	0.267	0.511	0.388	0.511
56	0.041	0.140	0.045	0.004	0.021	0.020
57.01	0.347	0.179	0.264	0.526	0.398	0.526
57.02	0.038	0.153	0.042	0.003	0.024	0.018
57.03	0.208	0.208	0.170	0.731	0.552	0.731
57.04	0.339	0.177	0.273	0.466	0.353	0.467
58	0.375	0.198	0.277	0.432	0.331	0.434
59	0.367	0.153	0.252	0.369	0.279	0.369
60	0.076	0.106	0.048	0.004	0.013	0.007
61	0.071	0.102	0.045	0.003	0.013	0.007
62	0.056	0.086	0.036	0.002	0.010	0.005
63	0.102	0.122	0.065	0.007	0.017	0.012
64	0.243	0.226	0.170	0.612	0.469	0.612
65	0.064	0.086	0.041	0.003	0.010	0.006
66	0.124	0.141	0.079	0.010	0.022	0.017
67	0.313	0.187	0.232	0.512	0.388	0.512
68	0.085	0.114	0.054	0.005	0.015	0.009
69	0.369	0.198	0.254	0.474	0.361	0.496
70	0.060	0.090	0.038	0.002	0.010	0.005
71	0.364	0.118	0.229	0.108	0.084	0.131
72	0.073	0.103	0.046	0.004	0.013	0.007
73.01	0.207	0.229	0.124	0.779	0.592	0.779
73.02	0.341	0.255	0.231	0.491	0.388	0.510
73.03	0.023	0.231	0.022	0.974	0.750	0.974
73.04	0.191	0.238	0.144	0.768	0.590	0.772
73.05	0.341	0.255	0.231	0.491	0.388	0.510
73.06	0.341	0.255	0.231	0.491	0.388	0.510
74	0.337	0.038	0.096	0.105	0.079	0.105
75	0.332	0.181	0.217	0.388	0.297	0.388
76	0.373	0.140	0.152	0.433	0.326	0.433
77.01	0.083	0.111	0.053	0.005	0.015	0.009
77.02	0.083	0.111	0.053	0.005	0.015	0.009
77.03	0.364	0.118	0.229	0.108	0.084	0.131

*Table D.2 Damage State Probabilities for Essential Facilities for
CERI Hazard Scenario Extensive to Complete Damage*

Structure No.	P(E)			P(C)		
	STR	NSA	NSD	STR	NSA	NSD
77.04	0.364	0.118	0.229	0.108	0.084	0.131
77.05	0.364	0.118	0.229	0.108	0.084	0.131
78	0.356	0.252	0.239	0.455	0.360	0.477
79	0.357	0.270	0.240	0.452	0.363	0.475
80	0.347	0.241	0.221	0.114	0.101	0.142
81	0.382	0.233	0.245	0.173	0.143	0.203
82	0.054	0.253	0.068	0.017	0.054	0.042
83.01	0.233	0.239	0.163	0.635	0.491	0.635
83.02	0.382	0.200	0.261	0.443	0.339	0.467
84	0.395	0.237	0.258	0.307	0.245	0.337
85.01	0.345	0.228	0.240	0.525	0.405	0.544
85.02	0.398	0.247	0.258	0.259	0.211	0.290
86	0.129	0.220	0.103	0.031	0.048	0.061
88.01	0.078	0.100	0.050	0.004	0.012	0.008
88.02	0.078	0.100	0.050	0.004	0.012	0.008
88.03	0.078	0.100	0.050	0.004	0.012	0.008
88.04	0.078	0.100	0.050	0.004	0.012	0.008
88.05	0.078	0.100	0.050	0.004	0.012	0.008
89	0.230	0.158	0.145	0.037	0.034	0.053
90	0.243	0.171	0.153	0.042	0.039	0.059
91	0.300	0.190	0.205	0.288	0.223	0.288
94	0.071	0.102	0.045	0.003	0.013	0.007
95	0.405	0.135	0.259	0.168	0.129	0.195
96	0.222	0.206	0.172	0.684	0.517	0.684
97	0.247	0.219	0.173	0.601	0.459	0.601
98	0.060	0.090	0.038	0.002	0.010	0.005
99	0.073	0.103	0.046	0.004	0.013	0.007
100	0.355	0.252	0.239	0.458	0.362	0.480
101	0.312	0.260	0.215	0.552	0.437	0.567
102	0.285	0.221	0.180	0.063	0.059	0.084
103.01	0.042	0.233	0.047	0.939	0.725	0.939
103.02	0.101	0.239	0.089	0.866	0.670	0.866
104	0.368	0.253	0.246	0.421	0.334	0.445
105.01	0.381	0.252	0.253	0.378	0.301	0.405

*Table D.2 Damage State Probabilities for Essential Facilities for
CERI Hazard Scenario Extensive to Complete Damage*

Structure No.	P(E)			P(C)		
	STR	NSA	NSD	STR	NSA	NSD
105.02	0.116	0.240	0.101	0.844	0.650	0.844
105.03	0.356	0.266	0.239	0.454	0.363	0.476
106	0.142	0.240	0.121	0.807	0.621	0.807
109.01	0.040	0.234	0.044	0.943	0.726	0.943
109.02	0.040	0.234	0.044	0.943	0.726	0.943
109.03	0.040	0.234	0.044	0.943	0.726	0.943
109.04	0.096	0.239	0.085	0.873	0.673	0.873
109.05	0.096	0.239	0.085	0.873	0.673	0.873
109.06	0.110	0.240	0.096	0.853	0.658	0.853
109.07	0.110	0.240	0.096	0.853	0.658	0.853
110	0.019	0.233	0.020	0.975	0.749	0.975
111	0.083	0.236	0.073	0.897	0.687	0.897
112	0.053	0.236	0.058	0.923	0.707	0.923
113.01	0.350	0.242	0.223	0.118	0.103	0.145
113.02	0.085	0.236	0.074	0.896	0.685	0.896
113.03	0.085	0.236	0.074	0.896	0.685	0.896
114.01	0.135	0.241	0.093	0.818	0.634	0.818
114.02	0.135	0.241	0.093	0.818	0.634	0.818
114.03	0.240	0.230	0.176	0.698	0.534	0.707
115	0.083	0.236	0.073	0.897	0.688	0.897
116.01	0.028	0.227	0.029	0.960	0.748	0.960
116.02	0.181	0.242	0.137	0.782	0.605	0.785
116.03	0.181	0.242	0.137	0.782	0.605	0.785
116.04	0.334	0.267	0.227	0.508	0.406	0.526
117.01	0.105	0.237	0.072	0.864	0.684	0.864
117.02	0.113	0.239	0.078	0.852	0.671	0.852
117.03	0.202	0.242	0.151	0.753	0.582	0.758
117.04	0.187	0.244	0.142	0.773	0.599	0.777
118.01	0.075	0.232	0.069	0.922	0.715	0.922
118.02	0.113	0.239	0.078	0.852	0.671	0.852
118.03	0.118	0.241	0.081	0.845	0.665	0.845
118.04	0.354	0.266	0.238	0.459	0.367	0.481
119.01	0.150	0.238	0.127	0.796	0.610	0.796
119.02	0.398	0.239	0.258	0.256	0.207	0.287

*Table D.2 Damage State Probabilities for Essential Facilities for
CERI Hazard Scenario Extensive to Complete Damage*

Structure No.	P(E)			P(C)		
	STR	NSA	NSD	STR	NSA	NSD
119.03	0.398	0.239	0.258	0.256	0.207	0.287
119.04	0.150	0.238	0.127	0.796	0.610	0.796
120.01	0.396	0.239	0.259	0.303	0.242	0.333
120.02	0.396	0.239	0.259	0.303	0.242	0.333
122	0.247	0.186	0.156	0.043	0.041	0.061
123.01	0.304	0.216	0.228	0.532	0.407	0.532
123.02	0.413	0.177	0.278	0.247	0.191	0.274
123.03	0.158	0.172	0.100	0.016	0.031	0.026
123.04	0.158	0.172	0.100	0.016	0.031	0.026
123.05	0.413	0.177	0.278	0.247	0.191	0.274
124	0.295	0.205	0.187	0.069	0.062	0.091
125	0.334	0.216	0.212	0.099	0.086	0.126
130	0.200	0.247	0.163	0.719	0.557	0.719
131	0.180	0.179	0.113	0.021	0.033	0.032
133	0.044	0.065	0.028	0.001	0.006	0.003
135	0.205	0.221	0.141	0.665	0.507	0.665
135.01	0.274	0.175	0.183	0.193	0.151	0.193
135.02	0.216	0.205	0.176	0.718	0.542	0.718
135.03	0.274	0.175	0.183	0.193	0.151	0.193
136.01	0.072	0.097	0.046	0.003	0.012	0.007
136.02	0.203	0.106	0.167	0.045	0.037	0.064
136.03	0.203	0.106	0.167	0.045	0.037	0.064
136.04	0.333	0.101	0.207	0.081	0.063	0.102
136.05	0.333	0.101	0.207	0.081	0.063	0.102
136.06	0.333	0.101	0.207	0.081	0.063	0.102
136.07	0.333	0.101	0.207	0.081	0.063	0.102
136.08	0.333	0.101	0.207	0.081	0.063	0.102
136.09	0.333	0.101	0.207	0.081	0.063	0.102
136.1	0.305	0.184	0.193	0.075	0.065	0.099
136.11	0.333	0.101	0.207	0.081	0.063	0.102
136.12	0.333	0.101	0.207	0.081	0.063	0.102
137	0.333	0.101	0.207	0.081	0.063	0.102
138	0.376	0.160	0.222	0.173	0.135	0.173
139	0.283	0.208	0.198	0.493	0.377	0.493

*Table D.2 Damage State Probabilities for Essential Facilities for
CERI Hazard Scenario Extensive to Complete Damage*

Structure No.	P(E)			P(C)		
	STR	NSA	NSD	STR	NSA	NSD
139.01	0.146	0.123	0.096	0.014	0.017	0.022
139.02	0.330	0.131	0.258	0.135	0.105	0.179
139.03	0.410	0.131	0.263	0.181	0.139	0.209
139.04	0.410	0.131	0.263	0.181	0.139	0.209
140	0.269	0.208	0.188	0.542	0.413	0.542
140.01	0.101	0.109	0.064	0.006	0.014	0.012
140.02	0.356	0.105	0.223	0.100	0.077	0.122
140.03	0.402	0.124	0.257	0.162	0.125	0.189
140.04	0.402	0.124	0.257	0.162	0.125	0.189
140.05	0.356	0.105	0.223	0.100	0.077	0.122
140.06	0.356	0.105	0.223	0.100	0.077	0.122
140.07	0.356	0.105	0.223	0.100	0.077	0.122
141	0.228	0.222	0.156	0.606	0.464	0.606
141.01	0.296	0.213	0.206	0.432	0.333	0.432
141.02	0.296	0.213	0.206	0.432	0.333	0.432
141.03	0.369	0.181	0.275	0.458	0.349	0.460
141.04	0.096	0.203	0.096	0.015	0.041	0.054
141.05	0.096	0.203	0.096	0.015	0.041	0.054
142	0.256	0.236	0.173	0.517	0.401	0.517
142.01	0.385	0.201	0.247	0.266	0.207	0.266
142.02	0.246	0.166	0.199	0.066	0.057	0.093
143	0.274	0.222	0.181	0.422	0.327	0.422
143.01	0.377	0.165	0.223	0.176	0.137	0.176
143.02	0.385	0.170	0.273	0.303	0.233	0.312
143.03	0.385	0.170	0.273	0.303	0.233	0.312
143.04	0.295	0.217	0.200	0.259	0.204	0.259
143.05	0.377	0.174	0.224	0.177	0.138	0.177
143.06	0.377	0.174	0.224	0.177	0.138	0.177
144	0.265	0.212	0.186	0.553	0.422	0.553
144.01	0.130	0.120	0.082	0.011	0.017	0.018
144.02	0.412	0.156	0.276	0.348	0.264	0.376
144.03	0.412	0.156	0.276	0.348	0.264	0.376
144.04	0.412	0.156	0.276	0.348	0.264	0.376
144.05	0.412	0.156	0.276	0.348	0.264	0.376

*Table D.2 Damage State Probabilities for Essential Facilities for
CERI Hazard Scenario Extensive to Complete Damage*

Structure No.	P(E)			P(C)		
	STR	NSA	NSD	STR	NSA	NSD
145	0.266	0.220	0.178	0.472	0.364	0.472
145.01	0.337	0.172	0.213	0.340	0.260	0.340
145.02	0.340	0.190	0.247	0.499	0.380	0.499
145.03	0.340	0.190	0.247	0.499	0.380	0.499
145.04	0.340	0.190	0.247	0.499	0.380	0.499
145.05	0.340	0.190	0.247	0.499	0.380	0.499
145.06	0.340	0.190	0.247	0.499	0.380	0.499
145.07	0.340	0.190	0.247	0.499	0.380	0.499
146	0.358	0.179	0.251	0.219	0.171	0.231
147	0.282	0.211	0.197	0.497	0.381	0.497
147.01	0.174	0.132	0.114	0.020	0.020	0.030
147.02	0.174	0.132	0.114	0.020	0.020	0.030
148	0.227	0.162	0.143	0.035	0.033	0.051
149	0.286	0.200	0.200	0.479	0.366	0.479
149.01	0.159	0.212	0.130	0.763	0.575	0.763
149.02	0.210	0.215	0.144	0.652	0.496	0.652
149.03	0.210	0.215	0.144	0.652	0.496	0.652
149.04	0.104	0.166	0.085	0.022	0.028	0.046
149.05	0.350	0.168	0.248	0.423	0.320	0.423
149.06	0.113	0.106	0.071	0.008	0.014	0.014
149.07	0.281	0.180	0.205	0.560	0.423	0.560
149.08	0.350	0.168	0.248	0.423	0.320	0.423
149.09	0.216	0.205	0.176	0.718	0.542	0.718
149.1	0.224	0.157	0.141	0.034	0.032	0.050
149.11	0.216	0.205	0.176	0.718	0.542	0.718
149.12	0.216	0.205	0.176	0.718	0.542	0.718
150	0.216	0.205	0.176	0.718	0.542	0.718
151	0.102	0.118	0.065	0.007	0.016	0.012
152	0.222	0.203	0.190	0.639	0.484	0.639
153	0.289	0.222	0.202	0.467	0.360	0.467
153.01	0.361	0.145	0.276	0.145	0.113	0.200
153.02	0.402	0.145	0.257	0.162	0.126	0.189
153.03	0.402	0.145	0.257	0.162	0.126	0.189
153.04	0.402	0.145	0.257	0.162	0.126	0.189

*Table D.2 Damage State Probabilities for Essential Facilities for
CERI Hazard Scenario Extensive to Complete Damage*

Structure No.	P(E)			P(C)		
	STR	NSA	NSD	STR	NSA	NSD
153.05	0.298	0.172	0.192	0.069	0.060	0.090
154	0.383	0.190	0.251	0.294	0.227	0.294
155	0.199	0.133	0.126	0.089	0.071	0.089
155.01	0.049	0.076	0.032	0.002	0.008	0.004
155.02	0.101	0.109	0.064	0.007	0.014	0.012
155.03	0.254	0.074	0.154	0.040	0.031	0.054
155.04	0.254	0.074	0.154	0.040	0.031	0.054
155.05	0.254	0.074	0.154	0.040	0.031	0.054
155.06	0.049	0.076	0.032	0.002	0.008	0.004
156	0.244	0.211	0.183	0.622	0.473	0.622
157	0.272	0.224	0.180	0.438	0.339	0.438
157.01	0.375	0.148	0.220	0.167	0.130	0.167
157.02	0.379	0.164	0.226	0.183	0.142	0.183
157.03	0.379	0.164	0.226	0.183	0.142	0.183
157.04	0.379	0.164	0.226	0.183	0.142	0.183
157.05	0.379	0.164	0.226	0.183	0.142	0.183
158	0.201	0.153	0.127	0.027	0.026	0.040
159	0.193	0.225	0.133	0.691	0.527	0.691
159.01	0.257	0.197	0.193	0.615	0.466	0.615
159.02	0.079	0.193	0.081	0.011	0.037	0.043
159.03	0.183	0.217	0.153	0.767	0.580	0.767
160	0.282	0.201	0.197	0.496	0.379	0.496
161	0.291	0.203	0.203	0.459	0.352	0.459
161.01	0.086	0.106	0.055	0.005	0.014	0.009
161.02	0.291	0.180	0.209	0.535	0.405	0.535
161.03	0.108	0.113	0.068	0.007	0.015	0.013
161.04	0.108	0.113	0.068	0.007	0.015	0.013
161.05	0.108	0.113	0.068	0.007	0.015	0.013
161.06	0.108	0.113	0.068	0.007	0.015	0.013
162	0.289	0.221	0.202	0.468	0.361	0.468
162.01	0.249	0.163	0.157	0.044	0.040	0.062
162.02	0.025	0.161	0.035	0.007	0.021	0.020
162.03	0.249	0.163	0.157	0.044	0.040	0.062
162.04	0.351	0.144	0.271	0.134	0.105	0.184

*Table D.2 Damage State Probabilities for Essential Facilities for
CERI Hazard Scenario Extensive to Complete Damage*

Structure No.	P(E)			P(C)		
	STR	NSA	NSD	STR	NSA	NSD
162.05	0.025	0.161	0.035	0.007	0.021	0.020
162.06	0.025	0.161	0.035	0.007	0.021	0.020
163	0.209	0.141	0.133	0.098	0.078	0.098
163.01	0.052	0.082	0.034	0.002	0.009	0.004
163.02	0.052	0.082	0.034	0.002	0.009	0.004
163.03	0.052	0.082	0.034	0.002	0.009	0.004
163.04	0.272	0.094	0.216	0.081	0.063	0.118
163.05	0.045	0.077	0.029	0.001	0.008	0.003
163.06	0.093	0.099	0.059	0.006	0.012	0.010
164	0.255	0.165	0.167	0.156	0.123	0.156
164.01	0.070	0.095	0.044	0.003	0.011	0.006
164.02	0.070	0.095	0.044	0.003	0.011	0.006
165	0.284	0.204	0.199	0.488	0.373	0.488
166	0.300	0.191	0.208	0.403	0.308	0.403
166.01	0.300	0.191	0.208	0.403	0.308	0.403
166.02	0.300	0.191	0.208	0.403	0.308	0.403
166.03	0.300	0.191	0.208	0.403	0.308	0.403
167	0.208	0.137	0.132	0.097	0.077	0.097
168	0.285	0.221	0.199	0.485	0.373	0.485
169	0.259	0.222	0.175	0.503	0.387	0.503
170	0.259	0.222	0.175	0.503	0.387	0.503
171	0.207	0.224	0.142	0.659	0.503	0.659
172	0.272	0.174	0.181	0.188	0.147	0.188
172.01	0.296	0.188	0.201	0.266	0.207	0.266
172.02	0.296	0.188	0.201	0.266	0.207	0.266
172.03	0.255	0.163	0.168	0.157	0.123	0.157
172.04	0.272	0.174	0.181	0.188	0.147	0.188
172.05	0.272	0.174	0.181	0.188	0.147	0.188
173	0.200	0.135	0.126	0.090	0.071	0.090
173.01	0.076	0.099	0.048	0.004	0.012	0.007
173.02	0.076	0.099	0.048	0.004	0.012	0.007
173.03	0.284	0.179	0.206	0.555	0.419	0.555
173.04	0.097	0.104	0.061	0.006	0.013	0.011
173.05	0.297	0.166	0.211	0.519	0.391	0.519

*Table D.2 Damage State Probabilities for Essential Facilities for
CERI Hazard Scenario Extensive to Complete Damage*

Structure No.	P(E)			P(C)		
	STR	NSA	NSD	STR	NSA	NSD
173.06	0.272	0.165	0.181	0.188	0.146	0.188
173.07	0.078	0.092	0.050	0.004	0.011	0.008
174	0.234	0.232	0.160	0.591	0.455	0.591
174.01	0.279	0.204	0.216	0.512	0.391	0.512
174.02	0.279	0.204	0.216	0.512	0.391	0.512
174.03	0.310	0.198	0.215	0.482	0.368	0.482
174.04	0.039	0.187	0.051	0.012	0.028	0.031
174.05	0.154	0.173	0.190	0.029	0.033	0.068
174.06	0.279	0.204	0.216	0.512	0.391	0.512
174.07	0.039	0.187	0.051	0.012	0.028	0.031
174.08	0.313	0.152	0.245	0.105	0.085	0.149
174.09	0.298	0.229	0.207	0.414	0.322	0.414
174.1	0.279	0.204	0.216	0.512	0.391	0.512
174.11	0.263	0.224	0.177	0.486	0.375	0.486
174.12	0.279	0.204	0.216	0.512	0.391	0.512
174.13	0.322	0.184	0.220	0.377	0.288	0.377
174.14	0.298	0.229	0.207	0.414	0.322	0.414
174.15	0.302	0.218	0.207	0.312	0.244	0.312
174.16	0.298	0.229	0.207	0.414	0.322	0.414
174.17	0.302	0.218	0.207	0.312	0.244	0.312
175	0.374	0.195	0.276	0.439	0.336	0.441
175.01	0.302	0.218	0.207	0.312	0.244	0.312
175.02	0.313	0.152	0.245	0.105	0.085	0.149
175.03	0.386	0.179	0.241	0.232	0.180	0.232
175.04	0.259	0.213	0.204	0.651	0.495	0.651
175.05	0.337	0.172	0.213	0.340	0.260	0.340
175.06	0.298	0.229	0.207	0.414	0.322	0.414
175.07	0.301	0.213	0.206	0.299	0.234	0.299
175.08	0.302	0.218	0.207	0.312	0.244	0.312
175.09	0.302	0.218	0.207	0.312	0.244	0.312
175.1	0.322	0.184	0.220	0.377	0.288	0.377
176	0.084	0.093	0.054	0.005	0.011	0.009
177	0.284	0.204	0.199	0.488	0.373	0.488
178	0.227	0.223	0.156	0.609	0.466	0.609

*Table D.2 Damage State Probabilities for Essential Facilities for
CERI Hazard Scenario Extensive to Complete Damage*

Structure No.	P(E)			P(C)		
	STR	NSA	NSD	STR	NSA	NSD
178.01	0.367	0.183	0.252	0.369	0.282	0.369
178.02	0.345	0.186	0.246	0.436	0.332	0.436
178.03	0.277	0.193	0.202	0.572	0.433	0.572
178.04	0.283	0.216	0.198	0.492	0.378	0.492
178.05	0.238	0.200	0.198	0.606	0.459	0.606
178.06	0.345	0.186	0.246	0.436	0.332	0.436
178.07	0.345	0.186	0.246	0.436	0.332	0.436
178.08	0.367	0.183	0.252	0.369	0.282	0.369
178.09	0.301	0.188	0.213	0.508	0.386	0.508
178.1	0.269	0.194	0.212	0.536	0.407	0.536
179	0.157	0.130	0.099	0.016	0.019	0.025
180	0.269	0.180	0.179	0.183	0.144	0.183
181.01	0.070	0.102	0.045	0.003	0.013	0.007
181.02	0.070	0.102	0.045	0.003	0.013	0.007
182	0.085	0.110	0.054	0.005	0.014	0.009
183.01	0.071	0.098	0.045	0.003	0.012	0.007
183.02	0.071	0.098	0.045	0.003	0.012	0.007
183.03	0.070	0.097	0.044	0.003	0.012	0.006
183.04	0.070	0.097	0.044	0.003	0.012	0.006
184	0.070	0.097	0.044	0.003	0.012	0.006
185	0.218	0.207	0.170	0.691	0.522	0.691
186	0.115	0.127	0.073	0.008	0.018	0.015
187.01	0.097	0.124	0.062	0.006	0.018	0.011
187.02	0.097	0.124	0.062	0.006	0.018	0.011
188.01	0.072	0.101	0.046	0.003	0.012	0.007
188.02	0.259	0.189	0.194	0.611	0.462	0.611
188.03	0.259	0.189	0.194	0.611	0.462	0.611
189	0.107	0.120	0.068	0.007	0.017	0.013
190.01	0.097	0.123	0.061	0.006	0.017	0.011
190.02	0.290	0.197	0.220	0.561	0.425	0.561
190.03	0.097	0.123	0.061	0.006	0.017	0.011
190.04	0.097	0.123	0.061	0.006	0.017	0.011
190.05	0.290	0.197	0.220	0.561	0.425	0.561
190.06	0.290	0.197	0.220	0.561	0.425	0.561

Table D.2 Damage State Probabilities for Essential Facilities for CERI Hazard Scenario Extensive to Complete Damage

Structure No.	P(E)			P(C)		
	STR	NSA	NSD	STR	NSA	NSD
191	0.124	0.126	0.078	0.010	0.018	0.017
191.01	0.124	0.126	0.078	0.010	0.018	0.017
191.02	0.124	0.126	0.078	0.010	0.018	0.017
192	0.269	0.217	0.188	0.543	0.415	0.543
192.01	0.285	0.199	0.217	0.571	0.433	0.571
192.02	0.215	0.208	0.168	0.697	0.527	0.697
193	0.231	0.199	0.178	0.666	0.503	0.666
194	0.085	0.114	0.054	0.005	0.015	0.009
195	0.076	0.106	0.048	0.004	0.014	0.007
196.01	0.077	0.107	0.049	0.004	0.014	0.008
196.02	0.351	0.112	0.219	0.095	0.074	0.117
197.01	0.081	0.110	0.051	0.004	0.014	0.008
197.02	0.356	0.115	0.223	0.100	0.078	0.123
197.03	0.356	0.115	0.223	0.100	0.078	0.123
198	0.239	0.231	0.163	0.574	0.442	0.574

Table D.3 Damage State Probabilities for Essential Facilities for USGS Hazard Scenario None to Moderate Damage

Structure No.	P(N)			P(S)			P(M)		
	STR	NSA	NSD	STR	NSA	NSD	STR	NSA	NSD
1	0.000	0.001	0.000	0.000	0.007	0.001	0.008	0.027	0.020
2.01	0.000	0.001	0.000	0.000	0.009	0.001	0.011	0.033	0.026
2.02	0.000	0.001	0.000	0.000	0.009	0.001	0.011	0.033	0.026
3.01	0.000	0.000	0.000	0.000	0.002	0.000	0.005	0.008	0.006
3.02	0.000	0.000	0.000	0.000	0.002	0.000	0.005	0.008	0.006
3.03	0.000	0.000	0.000	0.000	0.002	0.000	0.005	0.008	0.006
4	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.001	0.000
5	0.000	0.000	0.000	0.000	0.002	0.001	0.007	0.011	0.008
13	0.013	0.067	0.018	0.053	0.221	0.082	0.270	0.314	0.355
14.01	0.150	0.051	0.164	0.371	0.187	0.263	0.385	0.384	0.433
14.02	0.011	0.043	0.015	0.046	0.178	0.072	0.251	0.313	0.337
15	0.005	0.033	0.007	0.028	0.145	0.047	0.195	0.274	0.281

*Table D.3 Damage State Probabilities for Essential Facilities for USGS Hazard Scenario
None to Moderate Damage*

Structure No.	P(N)			P(S)			P(M)		
	STR	NSA	NSD	STR	NSA	NSD	STR	NSA	NSD
16	0.002	0.023	0.003	0.015	0.110	0.028	0.140	0.226	0.218
17.01	0.012	0.020	0.019	0.028	0.111	0.035	0.140	0.201	0.211
17.02	0.012	0.020	0.019	0.028	0.111	0.035	0.140	0.201	0.211
17.03	0.002	0.014	0.003	0.007	0.077	0.014	0.072	0.138	0.116
18	0.000	0.001	0.000	0.000	0.010	0.001	0.011	0.035	0.027
19.01	0.000	0.002	0.000	0.000	0.017	0.000	0.006	0.053	0.022
19.02	0.000	0.002	0.000	0.001	0.020	0.001	0.013	0.062	0.034
19.03	0.000	0.002	0.000	0.001	0.020	0.001	0.013	0.062	0.034
20	0.036	0.017	0.044	0.085	0.108	0.122	0.312	0.328	0.374
21	0.002	0.002	0.002	0.005	0.018	0.008	0.046	0.071	0.064
22	0.002	0.002	0.002	0.005	0.018	0.008	0.046	0.071	0.064
23	0.023	0.015	0.029	0.144	0.092	0.096	0.407	0.302	0.370
24	0.065	0.022	0.076	0.242	0.118	0.166	0.425	0.335	0.424
25	0.000	0.005	0.000	0.001	0.040	0.001	0.020	0.099	0.057
26	0.008	0.011	0.003	0.026	0.085	0.020	0.185	0.267	0.234
27.01	0.018	0.012	0.024	0.146	0.074	0.099	0.462	0.276	0.414
27.02	0.018	0.012	0.024	0.146	0.074	0.099	0.462	0.276	0.414
28	0.007	0.006	0.007	0.012	0.048	0.020	0.087	0.138	0.127
29	0.038	0.015	0.047	0.215	0.087	0.147	0.481	0.298	0.458
30	0.041	0.019	0.049	0.193	0.107	0.130	0.425	0.323	0.406
31	0.044	0.016	0.053	0.229	0.089	0.157	0.480	0.300	0.463
32	0.014	0.045	0.018	0.054	0.185	0.083	0.271	0.326	0.356
33	0.006	0.033	0.008	0.030	0.148	0.050	0.202	0.280	0.289
34	0.008	0.032	0.011	0.038	0.151	0.061	0.228	0.299	0.315
35.01	0.142	0.168	0.149	0.111	0.343	0.173	0.315	0.303	0.402
35.02	0.031	0.163	0.035	0.052	0.287	0.089	0.242	0.213	0.352
36	0.118	0.140	0.125	0.100	0.320	0.158	0.305	0.314	0.398
37	0.094	0.116	0.101	0.086	0.295	0.139	0.290	0.316	0.387
38	0.266	0.180	0.273	0.151	0.367	0.224	0.318	0.324	0.366
39	0.111	0.109	0.118	0.096	0.296	0.152	0.301	0.334	0.395
40	0.110	0.141	0.116	0.095	0.318	0.151	0.300	0.307	0.395
41	0.079	0.121	0.084	0.077	0.291	0.125	0.275	0.297	0.374
42	0.073	0.164	0.126	0.098	0.303	0.136	0.277	0.234	0.366
43	0.077	0.123	0.100	0.066	0.280	0.118	0.247	0.268	0.349

*Table D.3 Damage State Probabilities for Essential Facilities for USGS Hazard Scenario
None to Moderate Damage*

Structure No.	P(N)			P(S)			P(M)		
	STR	NSA	NSD	STR	NSA	NSD	STR	NSA	NSD
44	0.113	0.128	0.144	0.085	0.303	0.150	0.277	0.300	0.374
45	0.150	0.150	0.158	0.115	0.335	0.178	0.318	0.321	0.402
46	0.123	0.140	0.130	0.102	0.322	0.161	0.308	0.316	0.399
47	0.105	0.120	0.112	0.093	0.302	0.148	0.297	0.321	0.393
48	0.090	0.132	0.096	0.084	0.304	0.135	0.285	0.298	0.383
49	0.060	0.143	0.046	0.072	0.304	0.099	0.327	0.262	0.412
50	0.044	0.135	0.076	0.067	0.259	0.094	0.230	0.206	0.324
51	0.211	0.188	0.262	0.123	0.360	0.205	0.306	0.298	0.362
52	0.170	0.140	0.178	0.123	0.333	0.189	0.322	0.337	0.400
53	0.118	0.139	0.125	0.100	0.320	0.158	0.305	0.315	0.398
54	0.183	0.176	0.191	0.127	0.355	0.196	0.324	0.312	0.398
55	0.109	0.163	0.083	0.110	0.336	0.148	0.381	0.281	0.449
56	0.391	0.169	0.396	0.361	0.339	0.276	0.207	0.350	0.268
57.01	0.053	0.149	0.041	0.066	0.302	0.091	0.314	0.249	0.401
57.02	0.322	0.132	0.330	0.370	0.310	0.277	0.250	0.374	0.309
57.03	0.015	0.115	0.017	0.030	0.233	0.054	0.180	0.193	0.274
57.04	0.056	0.137	0.063	0.105	0.304	0.117	0.316	0.283	0.395
58	0.083	0.173	0.063	0.091	0.328	0.124	0.359	0.258	0.436
59	0.105	0.120	0.112	0.093	0.302	0.148	0.297	0.321	0.393
60	0.177	0.091	0.189	0.191	0.276	0.237	0.365	0.389	0.376
61	0.164	0.086	0.176	0.185	0.269	0.232	0.368	0.391	0.381
62	0.245	0.118	0.256	0.211	0.308	0.256	0.343	0.376	0.343
63	0.183	0.094	0.195	0.193	0.280	0.239	0.364	0.388	0.373
64	0.009	0.028	0.020	0.045	0.114	0.064	0.187	0.228	0.244
65	0.257	0.119	0.267	0.213	0.310	0.257	0.339	0.375	0.336
66	0.064	0.051	0.074	0.117	0.203	0.160	0.349	0.374	0.397
67	0.057	0.049	0.061	0.061	0.197	0.101	0.246	0.321	0.344
68	0.098	0.063	0.110	0.147	0.230	0.193	0.368	0.388	0.400
69	0.027	0.060	0.034	0.082	0.223	0.118	0.325	0.354	0.400
70	0.286	0.143	0.295	0.218	0.332	0.261	0.326	0.359	0.321
71	0.018	0.062	0.023	0.064	0.220	0.095	0.293	0.332	0.374
72	0.164	0.086	0.176	0.185	0.269	0.232	0.368	0.391	0.381
73.01	0.001	0.007	0.002	0.002	0.055	0.013	0.029	0.133	0.146
73.02	0.007	0.010	0.010	0.029	0.068	0.048	0.184	0.230	0.260

*Table D.3 Damage State Probabilities for Essential Facilities for USGS Hazard Scenario
None to Moderate Damage*

Structure No.	P(N)			P(S)			P(M)		
	STR	NSA	NSD	STR	NSA	NSD	STR	NSA	NSD
73.03	0.000	0.000	0.000	0.000	0.006	0.001	0.007	0.021	0.011
73.04	0.000	0.005	0.001	0.004	0.040	0.009	0.063	0.127	0.116
73.05	0.007	0.010	0.010	0.029	0.068	0.048	0.184	0.230	0.260
73.06	0.007	0.010	0.010	0.029	0.068	0.048	0.184	0.230	0.260
74	0.079	0.615	0.189	0.211	0.262	0.342	0.453	0.070	0.374
75	0.103	0.157	0.150	0.141	0.330	0.167	0.333	0.284	0.401
76	0.022	0.203	0.102	0.087	0.314	0.199	0.337	0.208	0.360
77.01	0.137	0.077	0.149	0.172	0.255	0.219	0.372	0.393	0.392
77.02	0.137	0.077	0.149	0.172	0.255	0.219	0.372	0.393	0.392
77.03	0.012	0.067	0.016	0.050	0.219	0.077	0.261	0.307	0.347
77.04	0.012	0.067	0.016	0.050	0.219	0.077	0.261	0.307	0.347
77.05	0.012	0.067	0.016	0.050	0.219	0.077	0.261	0.307	0.347
78	0.007	0.010	0.010	0.029	0.068	0.048	0.184	0.230	0.260
79	0.007	0.010	0.010	0.029	0.068	0.048	0.184	0.230	0.260
80	0.007	0.011	0.009	0.028	0.075	0.047	0.181	0.233	0.257
81	0.005	0.011	0.007	0.021	0.068	0.037	0.154	0.211	0.228
82	0.127	0.037	0.141	0.353	0.155	0.249	0.408	0.368	0.447
83.01	0.012	0.030	0.026	0.055	0.122	0.075	0.207	0.245	0.262
83.02	0.013	0.067	0.018	0.053	0.221	0.082	0.270	0.314	0.355
84	0.041	0.038	0.050	0.091	0.169	0.130	0.321	0.354	0.380
85.01	0.011	0.043	0.015	0.046	0.178	0.072	0.251	0.313	0.337
85.02	0.066	0.046	0.076	0.119	0.192	0.163	0.351	0.376	0.397
86	0.026	0.025	0.051	0.132	0.126	0.122	0.370	0.325	0.360
88.01	0.384	0.189	0.389	0.222	0.361	0.261	0.279	0.327	0.268
88.02	0.384	0.189	0.389	0.222	0.361	0.261	0.279	0.327	0.268
88.03	0.384	0.189	0.389	0.222	0.361	0.261	0.279	0.327	0.268
88.04	0.384	0.189	0.389	0.222	0.361	0.261	0.279	0.327	0.268
88.05	0.384	0.189	0.389	0.222	0.361	0.261	0.279	0.327	0.268
89	0.417	0.201	0.421	0.220	0.367	0.258	0.263	0.318	0.251
90	0.417	0.201	0.421	0.220	0.367	0.258	0.263	0.318	0.251
91	0.084	0.100	0.138	0.169	0.263	0.188	0.327	0.332	0.343
94	0.164	0.086	0.176	0.185	0.269	0.232	0.368	0.391	0.381
95	0.014	0.081	0.018	0.054	0.239	0.083	0.272	0.305	0.356
96	0.028	0.047	0.043	0.054	0.184	0.067	0.212	0.257	0.301

*Table D.3 Damage State Probabilities for Essential Facilities for USGS Hazard Scenario
None to Moderate Damage*

Structure No.	P(N)			P(S)			P(M)		
	STR	NSA	NSD	STR	NSA	NSD	STR	NSA	NSD
97	0.023	0.036	0.046	0.083	0.145	0.106	0.254	0.285	0.302
98	0.286	0.143	0.295	0.218	0.332	0.261	0.326	0.359	0.321
99	0.164	0.086	0.176	0.185	0.269	0.232	0.368	0.391	0.381
100	0.009	0.009	0.012	0.033	0.068	0.055	0.199	0.239	0.276
101	0.003	0.007	0.005	0.016	0.050	0.029	0.132	0.182	0.203
102	0.006	0.011	0.008	0.025	0.071	0.043	0.170	0.224	0.246
103.01	0.000	0.001	0.001	0.003	0.010	0.003	0.028	0.037	0.023
103.02	0.002	0.002	0.002	0.005	0.018	0.008	0.046	0.071	0.064
104	0.006	0.011	0.008	0.025	0.071	0.043	0.170	0.224	0.246
105.01	0.007	0.010	0.010	0.029	0.068	0.048	0.184	0.230	0.260
105.02	0.002	0.002	0.002	0.005	0.018	0.008	0.046	0.071	0.064
105.03	0.007	0.010	0.010	0.029	0.068	0.048	0.184	0.230	0.260
106	0.005	0.006	0.006	0.009	0.043	0.016	0.075	0.123	0.110
109.01	0.000	0.001	0.001	0.003	0.010	0.003	0.028	0.037	0.023
109.02	0.000	0.001	0.001	0.003	0.010	0.003	0.028	0.037	0.023
109.03	0.000	0.001	0.001	0.003	0.010	0.003	0.028	0.037	0.023
109.04	0.002	0.002	0.002	0.005	0.018	0.008	0.046	0.071	0.064
109.05	0.002	0.002	0.002	0.005	0.018	0.008	0.046	0.071	0.064
109.06	0.002	0.002	0.002	0.005	0.018	0.008	0.046	0.071	0.064
109.07	0.002	0.002	0.002	0.005	0.018	0.008	0.046	0.071	0.064
110	0.003	0.002	0.004	0.007	0.025	0.007	0.050	0.075	0.068
111	0.000	0.001	0.000	0.001	0.008	0.001	0.010	0.026	0.016
112	0.000	0.000	0.000	0.001	0.006	0.001	0.014	0.019	0.010
113.01	0.007	0.011	0.009	0.028	0.075	0.047	0.181	0.233	0.257
113.02	0.001	0.001	0.001	0.002	0.015	0.002	0.021	0.046	0.033
113.03	0.001	0.001	0.001	0.002	0.015	0.002	0.021	0.046	0.033
114.01	0.000	0.002	0.001	0.005	0.018	0.010	0.048	0.072	0.086
114.02	0.000	0.002	0.001	0.005	0.018	0.010	0.048	0.072	0.086
114.03	0.000	0.006	0.001	0.004	0.044	0.008	0.060	0.127	0.113
115	0.000	0.001	0.001	0.001	0.012	0.001	0.015	0.035	0.023
116.01	0.000	0.000	0.000	0.000	0.001	0.000	0.004	0.004	0.002
116.02	0.000	0.001	0.000	0.000	0.007	0.001	0.008	0.027	0.020
116.03	0.000	0.001	0.000	0.000	0.007	0.001	0.008	0.027	0.020
116.04	0.000	0.003	0.001	0.003	0.022	0.008	0.051	0.089	0.097

*Table D.3 Damage State Probabilities for Essential Facilities for USGS Hazard Scenario
None to Moderate Damage*

Structure No.	P(N)			P(S)			P(M)		
	STR	NSA	NSD	STR	NSA	NSD	STR	NSA	NSD
117.01	0.000	0.000	0.000	0.000	0.003	0.001	0.010	0.019	0.025
117.02	0.000	0.000	0.000	0.000	0.002	0.001	0.006	0.012	0.017
117.03	0.000	0.001	0.000	0.000	0.009	0.001	0.011	0.033	0.026
117.04	0.000	0.001	0.000	0.000	0.006	0.000	0.006	0.021	0.015
118.01	0.000	0.000	0.000	0.000	0.003	0.000	0.001	0.011	0.002
118.02	0.000	0.000	0.000	0.000	0.003	0.001	0.010	0.019	0.025
118.03	0.000	0.000	0.000	0.000	0.002	0.001	0.004	0.010	0.014
118.04	0.001	0.003	0.001	0.005	0.025	0.010	0.061	0.102	0.112
119.01	0.009	0.010	0.009	0.014	0.065	0.024	0.100	0.161	0.147
119.02	0.024	0.030	0.031	0.066	0.143	0.099	0.280	0.324	0.350
119.03	0.024	0.030	0.031	0.066	0.143	0.099	0.280	0.324	0.350
119.04	0.009	0.010	0.009	0.014	0.065	0.024	0.100	0.161	0.147
120.01	0.024	0.030	0.031	0.066	0.143	0.099	0.280	0.324	0.350
120.02	0.024	0.030	0.031	0.066	0.143	0.099	0.280	0.324	0.350
122	0.066	0.046	0.076	0.119	0.192	0.163	0.351	0.376	0.397
123.01	0.028	0.023	0.031	0.036	0.125	0.062	0.184	0.262	0.266
123.02	0.037	0.047	0.044	0.086	0.206	0.125	0.313	0.359	0.377
123.03	0.066	0.046	0.076	0.119	0.192	0.163	0.351	0.376	0.397
123.04	0.066	0.046	0.076	0.119	0.192	0.163	0.351	0.376	0.397
123.05	0.037	0.047	0.044	0.086	0.206	0.125	0.313	0.359	0.377
124	0.115	0.062	0.126	0.159	0.229	0.205	0.371	0.394	0.398
125	0.066	0.046	0.076	0.119	0.192	0.163	0.351	0.376	0.397
130	0.029	0.021	0.032	0.037	0.119	0.063	0.187	0.264	0.270
131	0.066	0.046	0.076	0.119	0.192	0.163	0.351	0.376	0.397
133	0.396	0.190	0.401	0.221	0.362	0.260	0.273	0.326	0.262
135	0.043	0.080	0.090	0.101	0.208	0.118	0.241	0.262	0.277
135.01	0.071	0.100	0.120	0.156	0.259	0.176	0.321	0.321	0.343
135.02	0.015	0.115	0.017	0.030	0.233	0.054	0.180	0.193	0.274
135.03	0.071	0.100	0.120	0.156	0.259	0.176	0.321	0.321	0.343
136.01	0.362	0.177	0.369	0.222	0.355	0.262	0.290	0.335	0.280
136.02	0.158	0.171	0.106	0.180	0.360	0.213	0.405	0.313	0.441
136.03	0.158	0.171	0.106	0.180	0.360	0.213	0.405	0.313	0.441
136.04	0.043	0.164	0.052	0.109	0.331	0.150	0.361	0.297	0.424
136.05	0.043	0.164	0.052	0.109	0.331	0.150	0.361	0.297	0.424

*Table D.3 Damage State Probabilities for Essential Facilities for USGS Hazard Scenario
None to Moderate Damage*

Structure No.	P(N)			P(S)			P(M)		
	STR	NSA	NSD	STR	NSA	NSD	STR	NSA	NSD
136.06	0.043	0.164	0.052	0.109	0.331	0.150	0.361	0.297	0.424
136.07	0.043	0.164	0.052	0.109	0.331	0.150	0.361	0.297	0.424
136.08	0.043	0.164	0.052	0.109	0.331	0.150	0.361	0.297	0.424
136.09	0.043	0.164	0.052	0.109	0.331	0.150	0.361	0.297	0.424
136.1	0.400	0.192	0.405	0.221	0.363	0.260	0.271	0.325	0.260
136.11	0.043	0.164	0.052	0.109	0.331	0.150	0.361	0.297	0.424
136.12	0.043	0.164	0.052	0.109	0.331	0.150	0.361	0.297	0.424
137	0.043	0.164	0.052	0.109	0.331	0.150	0.361	0.297	0.424
138	0.127	0.150	0.134	0.104	0.329	0.164	0.310	0.311	0.400
139	0.084	0.100	0.138	0.169	0.263	0.188	0.327	0.332	0.343
139.01	0.315	0.171	0.324	0.232	0.358	0.275	0.313	0.337	0.299
139.02	0.285	0.191	0.208	0.224	0.378	0.269	0.353	0.311	0.393
139.03	0.092	0.188	0.105	0.162	0.359	0.209	0.395	0.306	0.431
139.04	0.092	0.188	0.105	0.162	0.359	0.209	0.395	0.306	0.431
140	0.080	0.103	0.132	0.165	0.265	0.184	0.326	0.326	0.343
140.01	0.396	0.190	0.402	0.221	0.362	0.260	0.273	0.326	0.261
140.02	0.063	0.183	0.073	0.134	0.349	0.178	0.382	0.297	0.433
140.03	0.063	0.183	0.073	0.134	0.349	0.178	0.382	0.297	0.433
140.04	0.063	0.183	0.073	0.134	0.349	0.178	0.382	0.297	0.433
140.05	0.063	0.183	0.073	0.134	0.349	0.178	0.382	0.297	0.433
140.06	0.063	0.183	0.073	0.134	0.349	0.178	0.382	0.297	0.433
140.07	0.063	0.183	0.073	0.134	0.349	0.178	0.382	0.297	0.433
141	0.070	0.097	0.137	0.133	0.241	0.149	0.272	0.289	0.295
141.01	0.108	0.118	0.171	0.190	0.286	0.204	0.332	0.333	0.339
141.02	0.108	0.118	0.171	0.190	0.286	0.204	0.332	0.333	0.339
141.03	0.142	0.185	0.109	0.130	0.352	0.174	0.394	0.279	0.453
141.04	0.366	0.147	0.373	0.365	0.322	0.277	0.222	0.365	0.282
141.05	0.366	0.147	0.373	0.365	0.322	0.277	0.222	0.365	0.282
142	0.046	0.085	0.095	0.105	0.215	0.122	0.245	0.264	0.280
142.01	0.127	0.150	0.134	0.104	0.329	0.164	0.310	0.311	0.400
142.02	0.229	0.200	0.162	0.210	0.378	0.250	0.381	0.300	0.419
143	0.072	0.101	0.139	0.135	0.245	0.150	0.273	0.287	0.295
143.01	0.187	0.165	0.195	0.129	0.351	0.197	0.324	0.322	0.397
143.02	0.107	0.193	0.080	0.110	0.346	0.149	0.378	0.260	0.453

*Table D.3 Damage State Probabilities for Essential Facilities for USGS Hazard Scenario
None to Moderate Damage*

Structure No.	P(N)			P(S)			P(M)		
	STR	NSA	NSD	STR	NSA	NSD	STR	NSA	NSD
143.03	0.107	0.193	0.080	0.110	0.346	0.149	0.378	0.260	0.453
143.04	0.118	0.124	0.184	0.198	0.293	0.210	0.333	0.332	0.336
143.05	0.187	0.165	0.195	0.129	0.351	0.197	0.324	0.322	0.397
143.06	0.187	0.165	0.195	0.129	0.351	0.197	0.324	0.322	0.397
144	0.069	0.096	0.116	0.153	0.254	0.174	0.320	0.322	0.343
144.01	0.382	0.183	0.388	0.222	0.358	0.261	0.280	0.331	0.269
144.02	0.053	0.173	0.063	0.122	0.340	0.165	0.373	0.298	0.430
144.03	0.053	0.173	0.063	0.122	0.340	0.165	0.373	0.298	0.430
144.04	0.053	0.173	0.063	0.122	0.340	0.165	0.373	0.298	0.430
144.05	0.053	0.173	0.063	0.122	0.340	0.165	0.373	0.298	0.430
145	0.064	0.086	0.127	0.127	0.226	0.143	0.267	0.291	0.293
145.01	0.103	0.157	0.150	0.141	0.330	0.167	0.333	0.284	0.401
145.02	0.042	0.141	0.047	0.065	0.296	0.108	0.270	0.252	0.382
145.03	0.042	0.141	0.047	0.065	0.296	0.108	0.270	0.252	0.382
145.04	0.042	0.141	0.047	0.065	0.296	0.108	0.270	0.252	0.382
145.05	0.042	0.141	0.047	0.065	0.296	0.108	0.270	0.252	0.382
145.06	0.042	0.141	0.047	0.065	0.296	0.108	0.270	0.252	0.382
145.07	0.042	0.141	0.047	0.065	0.296	0.108	0.270	0.252	0.382
146	0.085	0.156	0.093	0.136	0.329	0.149	0.346	0.295	0.423
147	0.081	0.104	0.133	0.166	0.266	0.185	0.326	0.326	0.343
147.01	0.321	0.180	0.329	0.233	0.363	0.275	0.310	0.330	0.296
147.02	0.321	0.180	0.329	0.233	0.363	0.275	0.310	0.330	0.296
148	0.489	0.228	0.490	0.211	0.377	0.246	0.225	0.298	0.213
149	0.056	0.090	0.098	0.138	0.243	0.160	0.311	0.314	0.339
149.01	0.025	0.096	0.042	0.042	0.206	0.058	0.176	0.177	0.257
149.02	0.027	0.066	0.059	0.075	0.178	0.092	0.207	0.234	0.251
149.03	0.027	0.066	0.059	0.075	0.178	0.092	0.207	0.234	0.251
149.04	0.206	0.121	0.286	0.327	0.294	0.249	0.339	0.380	0.332
149.05	0.079	0.121	0.084	0.077	0.291	0.125	0.275	0.297	0.374
149.06	0.362	0.177	0.369	0.222	0.355	0.262	0.290	0.335	0.280
149.07	0.041	0.126	0.063	0.073	0.268	0.092	0.252	0.233	0.345
149.08	0.079	0.121	0.084	0.077	0.291	0.125	0.275	0.297	0.374
149.09	0.012	0.102	0.014	0.026	0.217	0.047	0.164	0.187	0.253
149.1	0.400	0.192	0.405	0.221	0.363	0.260	0.271	0.325	0.260

*Table D.3 Damage State Probabilities for Essential Facilities for USGS Hazard Scenario
None to Moderate Damage*

Structure No.	P(N)			P(S)			P(M)		
	STR	NSA	NSD	STR	NSA	NSD	STR	NSA	NSD
149.11	0.012	0.102	0.014	0.026	0.217	0.047	0.164	0.187	0.253
149.12	0.012	0.102	0.014	0.026	0.217	0.047	0.164	0.187	0.253
150	0.012	0.102	0.014	0.026	0.217	0.047	0.164	0.187	0.253
151	0.362	0.177	0.369	0.222	0.355	0.262	0.290	0.335	0.280
152	0.054	0.139	0.089	0.107	0.298	0.128	0.286	0.261	0.377
153	0.080	0.103	0.132	0.165	0.265	0.184	0.326	0.326	0.343
153.01	0.160	0.203	0.114	0.195	0.371	0.218	0.412	0.302	0.444
153.02	0.063	0.183	0.073	0.134	0.349	0.178	0.382	0.297	0.433
153.03	0.063	0.183	0.073	0.134	0.349	0.178	0.382	0.297	0.433
153.04	0.063	0.183	0.073	0.134	0.349	0.178	0.382	0.297	0.433
153.05	0.318	0.178	0.327	0.233	0.362	0.275	0.312	0.332	0.297
154	0.127	0.150	0.134	0.104	0.329	0.164	0.310	0.311	0.400
155	0.095	0.112	0.153	0.179	0.277	0.196	0.330	0.330	0.342
155.01	0.396	0.190	0.402	0.221	0.362	0.260	0.273	0.326	0.261
155.02	0.416	0.199	0.420	0.220	0.366	0.258	0.263	0.319	0.251
155.03	0.075	0.195	0.086	0.146	0.357	0.192	0.389	0.294	0.434
155.04	0.075	0.195	0.086	0.146	0.357	0.192	0.389	0.294	0.434
155.05	0.075	0.195	0.086	0.146	0.357	0.192	0.389	0.294	0.434
155.06	0.416	0.199	0.420	0.220	0.366	0.258	0.263	0.319	0.251
156	0.077	0.123	0.100	0.066	0.280	0.118	0.247	0.268	0.349
157	0.046	0.085	0.095	0.105	0.215	0.122	0.245	0.264	0.280
157.01	0.110	0.141	0.116	0.095	0.318	0.151	0.300	0.307	0.395
157.02	0.110	0.141	0.116	0.095	0.318	0.151	0.300	0.307	0.395
157.03	0.110	0.141	0.116	0.095	0.318	0.151	0.300	0.307	0.395
157.04	0.110	0.141	0.116	0.095	0.318	0.151	0.300	0.307	0.395
157.05	0.110	0.141	0.116	0.095	0.318	0.151	0.300	0.307	0.395
158	0.393	0.183	0.399	0.221	0.358	0.260	0.274	0.331	0.263
159	0.043	0.080	0.090	0.101	0.208	0.118	0.241	0.262	0.277
159.01	0.068	0.153	0.102	0.106	0.307	0.130	0.301	0.255	0.386
159.02	0.335	0.135	0.343	0.369	0.313	0.278	0.241	0.372	0.301
159.03	0.024	0.131	0.027	0.043	0.264	0.075	0.219	0.216	0.324
160	0.084	0.100	0.138	0.169	0.263	0.188	0.327	0.332	0.343
161	0.084	0.100	0.138	0.169	0.263	0.188	0.327	0.332	0.343
161.01	0.393	0.183	0.399	0.221	0.358	0.260	0.274	0.331	0.263

*Table D.3 Damage State Probabilities for Essential Facilities for USGS Hazard Scenario
None to Moderate Damage*

Structure No.	P(N)			P(S)			P(M)		
	STR	NSA	NSD	STR	NSA	NSD	STR	NSA	NSD
161.02	0.103	0.157	0.150	0.141	0.330	0.167	0.333	0.284	0.401
161.03	0.393	0.183	0.399	0.221	0.358	0.260	0.274	0.331	0.263
161.04	0.393	0.183	0.399	0.221	0.358	0.260	0.274	0.331	0.263
161.05	0.393	0.183	0.399	0.221	0.358	0.260	0.274	0.331	0.263
161.06	0.393	0.183	0.399	0.221	0.358	0.260	0.274	0.331	0.263
162	0.084	0.100	0.138	0.169	0.263	0.188	0.327	0.332	0.343
162.01	0.393	0.183	0.399	0.221	0.358	0.260	0.274	0.331	0.263
162.02	0.420	0.189	0.425	0.387	0.345	0.297	0.175	0.335	0.247
162.03	0.393	0.183	0.399	0.221	0.358	0.260	0.274	0.331	0.263
162.04	0.252	0.218	0.132	0.253	0.381	0.250	0.363	0.294	0.488
162.05	0.420	0.189	0.425	0.387	0.345	0.297	0.175	0.335	0.247
162.06	0.420	0.189	0.425	0.387	0.345	0.297	0.175	0.335	0.247
163	0.050	0.083	0.089	0.129	0.232	0.152	0.304	0.312	0.336
163.01	0.353	0.167	0.360	0.222	0.349	0.263	0.295	0.342	0.285
163.02	0.353	0.167	0.360	0.222	0.349	0.263	0.295	0.342	0.285
163.03	0.353	0.167	0.360	0.222	0.349	0.263	0.295	0.342	0.285
163.04	0.164	0.189	0.080	0.213	0.365	0.195	0.407	0.308	0.517
163.05	0.353	0.167	0.360	0.222	0.349	0.263	0.295	0.342	0.285
163.06	0.353	0.167	0.360	0.222	0.349	0.263	0.295	0.342	0.285
164	0.056	0.090	0.098	0.138	0.243	0.160	0.311	0.314	0.339
164.01	0.362	0.177	0.369	0.222	0.355	0.262	0.290	0.335	0.280
164.02	0.362	0.177	0.369	0.222	0.355	0.262	0.290	0.335	0.280
165	0.056	0.090	0.098	0.138	0.243	0.160	0.311	0.314	0.339
166	0.050	0.083	0.089	0.129	0.232	0.152	0.304	0.312	0.336
166.01	0.050	0.083	0.089	0.129	0.232	0.152	0.304	0.312	0.336
166.02	0.050	0.083	0.089	0.129	0.232	0.152	0.304	0.312	0.336
166.03	0.050	0.083	0.089	0.129	0.232	0.152	0.304	0.312	0.336
167	0.081	0.104	0.133	0.166	0.266	0.185	0.326	0.326	0.343
168	0.084	0.100	0.138	0.169	0.263	0.188	0.327	0.332	0.343
169	0.064	0.086	0.127	0.127	0.226	0.143	0.267	0.291	0.293
170	0.064	0.086	0.127	0.127	0.226	0.143	0.267	0.291	0.293
171	0.043	0.080	0.090	0.101	0.208	0.118	0.241	0.262	0.277
172	0.071	0.100	0.120	0.156	0.259	0.176	0.321	0.321	0.343
172.01	0.071	0.100	0.120	0.156	0.259	0.176	0.321	0.321	0.343

*Table D.3 Damage State Probabilities for Essential Facilities for USGS Hazard Scenario
None to Moderate Damage*

Structure No.	P(N)			P(S)			P(M)		
	STR	NSA	NSD	STR	NSA	NSD	STR	NSA	NSD
172.02	0.071	0.100	0.120	0.156	0.259	0.176	0.321	0.321	0.343
172.03	0.071	0.100	0.120	0.156	0.259	0.176	0.321	0.321	0.343
172.04	0.071	0.100	0.120	0.156	0.259	0.176	0.321	0.321	0.343
172.05	0.071	0.100	0.120	0.156	0.259	0.176	0.321	0.321	0.343
173	0.056	0.090	0.098	0.138	0.243	0.160	0.311	0.314	0.339
173.01	0.362	0.177	0.369	0.222	0.355	0.262	0.290	0.335	0.280
173.02	0.362	0.177	0.369	0.222	0.355	0.262	0.290	0.335	0.280
173.03	0.041	0.126	0.063	0.073	0.268	0.092	0.252	0.233	0.345
173.04	0.362	0.177	0.369	0.222	0.355	0.262	0.290	0.335	0.280
173.05	0.041	0.126	0.063	0.073	0.268	0.092	0.252	0.233	0.345
173.06	0.056	0.090	0.098	0.138	0.243	0.160	0.311	0.314	0.339
173.07	0.362	0.177	0.369	0.222	0.355	0.262	0.290	0.335	0.280
174	0.043	0.080	0.090	0.101	0.208	0.118	0.241	0.262	0.277
174.01	0.054	0.139	0.089	0.107	0.298	0.128	0.286	0.261	0.377
174.02	0.054	0.139	0.089	0.107	0.298	0.128	0.286	0.261	0.377
174.03	0.068	0.153	0.102	0.106	0.307	0.130	0.301	0.255	0.386
174.04	0.424	0.198	0.428	0.386	0.350	0.296	0.173	0.329	0.245
174.05	0.301	0.198	0.311	0.382	0.372	0.284	0.270	0.313	0.320
174.06	0.054	0.139	0.089	0.107	0.298	0.128	0.286	0.261	0.377
174.07	0.424	0.198	0.428	0.386	0.350	0.296	0.173	0.329	0.245
174.08	0.186	0.216	0.092	0.225	0.376	0.210	0.398	0.289	0.513
174.09	0.081	0.104	0.133	0.166	0.266	0.185	0.326	0.326	0.343
174.1	0.054	0.139	0.089	0.107	0.298	0.128	0.286	0.261	0.377
174.11	0.039	0.079	0.083	0.096	0.205	0.113	0.235	0.256	0.273
174.12	0.054	0.139	0.089	0.107	0.298	0.128	0.286	0.261	0.377
174.13	0.048	0.138	0.080	0.099	0.291	0.119	0.278	0.252	0.367
174.14	0.081	0.104	0.133	0.166	0.266	0.185	0.326	0.326	0.343
174.15	0.083	0.106	0.137	0.168	0.269	0.187	0.327	0.326	0.343
174.16	0.081	0.104	0.133	0.166	0.266	0.185	0.326	0.326	0.343
174.17	0.083	0.106	0.137	0.168	0.269	0.187	0.327	0.326	0.343
175	0.080	0.161	0.061	0.088	0.323	0.120	0.355	0.265	0.433
175.01	0.083	0.106	0.137	0.168	0.269	0.187	0.327	0.326	0.343
175.02	0.186	0.216	0.092	0.225	0.376	0.210	0.398	0.289	0.513
175.03	0.110	0.141	0.116	0.095	0.318	0.151	0.300	0.307	0.395

*Table D.3 Damage State Probabilities for Essential Facilities for USGS Hazard Scenario
None to Moderate Damage*

Structure No.	P(N)			P(S)			P(M)		
	STR	NSA	NSD	STR	NSA	NSD	STR	NSA	NSD
175.04	0.024	0.131	0.027	0.043	0.264	0.075	0.219	0.216	0.324
175.05	0.061	0.152	0.092	0.098	0.301	0.120	0.290	0.247	0.379
175.06	0.081	0.104	0.133	0.166	0.266	0.185	0.326	0.326	0.343
175.07	0.083	0.106	0.137	0.168	0.269	0.187	0.327	0.326	0.343
175.08	0.083	0.106	0.137	0.168	0.269	0.187	0.327	0.326	0.343
175.09	0.083	0.106	0.137	0.168	0.269	0.187	0.327	0.326	0.343
175.1	0.048	0.138	0.080	0.099	0.291	0.119	0.278	0.252	0.367
176	0.362	0.177	0.369	0.222	0.355	0.262	0.290	0.335	0.280
177	0.084	0.100	0.138	0.169	0.263	0.188	0.327	0.332	0.343
178	0.043	0.080	0.090	0.101	0.208	0.118	0.241	0.262	0.277
178.01	0.120	0.141	0.127	0.101	0.322	0.159	0.306	0.314	0.398
178.02	0.120	0.141	0.127	0.101	0.322	0.159	0.306	0.314	0.398
178.03	0.068	0.153	0.102	0.106	0.307	0.130	0.301	0.255	0.386
178.04	0.081	0.104	0.133	0.166	0.266	0.185	0.326	0.326	0.343
178.05	0.054	0.139	0.089	0.107	0.298	0.128	0.286	0.261	0.377
178.06	0.120	0.141	0.127	0.101	0.322	0.159	0.306	0.314	0.398
178.07	0.120	0.141	0.127	0.101	0.322	0.159	0.306	0.314	0.398
178.08	0.120	0.141	0.127	0.101	0.322	0.159	0.306	0.314	0.398
178.09	0.068	0.153	0.102	0.106	0.307	0.130	0.301	0.255	0.386
178.1	0.054	0.139	0.089	0.107	0.298	0.128	0.286	0.261	0.377
179	0.498	0.239	0.498	0.210	0.380	0.244	0.221	0.290	0.208
180	0.161	0.149	0.238	0.223	0.319	0.227	0.328	0.328	0.320
181.01	0.230	0.112	0.241	0.207	0.301	0.253	0.349	0.379	0.350
181.02	0.230	0.112	0.241	0.207	0.301	0.253	0.349	0.379	0.350
182	0.144	0.080	0.156	0.176	0.260	0.222	0.371	0.393	0.389
183.01	0.144	0.080	0.156	0.176	0.260	0.222	0.371	0.393	0.389
183.02	0.144	0.080	0.156	0.176	0.260	0.222	0.371	0.393	0.389
183.03	0.144	0.080	0.156	0.176	0.260	0.222	0.371	0.393	0.389
183.04	0.144	0.080	0.156	0.176	0.260	0.222	0.371	0.393	0.389
184	0.144	0.080	0.156	0.176	0.260	0.222	0.371	0.393	0.389
185	0.028	0.047	0.043	0.054	0.184	0.067	0.212	0.257	0.301
186	0.132	0.077	0.144	0.169	0.255	0.216	0.372	0.392	0.393
187.01	0.132	0.077	0.144	0.169	0.255	0.216	0.372	0.392	0.393
187.02	0.132	0.077	0.144	0.169	0.255	0.216	0.372	0.392	0.393

*Table D.3 Damage State Probabilities for Essential Facilities for USGS Hazard Scenario
None to Moderate Damage*

Structure No.	P(N)			P(S)			P(M)		
	STR	NSA	NSD	STR	NSA	NSD	STR	NSA	NSD
188.01	0.228	0.111	0.239	0.207	0.301	0.252	0.350	0.380	0.351
188.02	0.030	0.070	0.047	0.058	0.215	0.073	0.221	0.249	0.312
188.03	0.030	0.070	0.047	0.058	0.215	0.073	0.221	0.249	0.312
189	0.132	0.077	0.144	0.169	0.255	0.216	0.372	0.392	0.393
190.01	0.132	0.077	0.144	0.169	0.255	0.216	0.372	0.392	0.393
190.02	0.057	0.049	0.061	0.061	0.197	0.101	0.246	0.321	0.344
190.03	0.132	0.077	0.144	0.169	0.255	0.216	0.372	0.392	0.393
190.04	0.132	0.077	0.144	0.169	0.255	0.216	0.372	0.392	0.393
190.05	0.057	0.049	0.061	0.061	0.197	0.101	0.246	0.321	0.344
190.06	0.057	0.049	0.061	0.061	0.197	0.101	0.246	0.321	0.344
191	0.132	0.077	0.144	0.169	0.255	0.216	0.372	0.392	0.393
191.01	0.132	0.077	0.144	0.169	0.255	0.216	0.372	0.392	0.393
191.02	0.132	0.077	0.144	0.169	0.255	0.216	0.372	0.392	0.393
192	0.023	0.036	0.046	0.083	0.145	0.106	0.254	0.285	0.302
192.01	0.057	0.049	0.061	0.061	0.197	0.101	0.246	0.321	0.344
192.02	0.028	0.047	0.043	0.054	0.184	0.067	0.212	0.257	0.301
193	0.014	0.036	0.022	0.031	0.145	0.038	0.149	0.203	0.223
194	0.098	0.063	0.110	0.147	0.230	0.193	0.368	0.388	0.400
195	0.164	0.086	0.176	0.185	0.269	0.232	0.368	0.391	0.381
196.01	0.164	0.086	0.176	0.185	0.269	0.232	0.368	0.391	0.381
196.02	0.013	0.075	0.018	0.053	0.231	0.081	0.269	0.307	0.353
197.01	0.164	0.086	0.176	0.185	0.269	0.232	0.368	0.391	0.381
197.02	0.013	0.075	0.018	0.053	0.231	0.081	0.269	0.307	0.353
197.03	0.013	0.075	0.018	0.053	0.231	0.081	0.269	0.307	0.353
198	0.043	0.080	0.090	0.101	0.208	0.118	0.241	0.262	0.277

*Table D.4 Damage State Probabilities for Essential Facilities for
USGS Hazard Scenario Extensive to Complete Damage*

Structure No.	P(E)			P(C)		
	STR	NSA	NSD	STR	NSA	NSD
1	0.064	0.210	0.052	0.928	0.756	0.928
2.01	0.079	0.216	0.063	0.910	0.741	0.910
2.02	0.079	0.216	0.063	0.910	0.741	0.910

Table D.4 Damage State Probabilities for Essential Facilities for USGS Hazard Scenario Extensive to Complete Damage

Structure No.	P(E)			P(C)		
	STR	NSA	NSD	STR	NSA	NSD
3.01	0.021	0.179	0.020	0.974	0.811	0.974
3.02	0.021	0.179	0.020	0.974	0.811	0.974
3.03	0.021	0.179	0.020	0.974	0.811	0.974
4	0.001	0.170	0.003	0.997	0.828	0.997
5	0.027	0.180	0.026	0.966	0.806	0.966
13	0.422	0.208	0.276	0.241	0.190	0.270
14.01	0.071	0.299	0.086	0.023	0.080	0.055
14.02	0.423	0.249	0.278	0.270	0.218	0.299
15	0.409	0.258	0.275	0.363	0.289	0.390
16	0.369	0.265	0.254	0.474	0.376	0.496
17.01	0.295	0.255	0.210	0.524	0.414	0.524
17.02	0.295	0.255	0.210	0.524	0.414	0.524
17.03	0.246	0.246	0.196	0.672	0.525	0.672
18	0.081	0.221	0.065	0.908	0.733	0.908
19.01	0.131	0.228	0.115	0.863	0.700	0.863
19.02	0.148	0.233	0.126	0.838	0.683	0.838
19.03	0.148	0.233	0.126	0.838	0.683	0.838
20	0.385	0.366	0.247	0.182	0.181	0.213
21	0.146	0.246	0.124	0.801	0.662	0.801
22	0.146	0.246	0.124	0.801	0.662	0.801
23	0.290	0.385	0.239	0.136	0.206	0.266
24	0.207	0.363	0.184	0.061	0.161	0.150
25	0.219	0.249	0.183	0.759	0.606	0.759
26	0.443	0.337	0.324	0.339	0.300	0.419
27.01	0.246	0.400	0.235	0.128	0.238	0.227
27.02	0.246	0.400	0.235	0.128	0.238	0.227
28	0.237	0.276	0.188	0.657	0.531	0.657
29	0.185	0.393	0.190	0.081	0.207	0.157
30	0.250	0.373	0.214	0.092	0.178	0.202
31	0.173	0.392	0.181	0.074	0.203	0.145
32	0.422	0.250	0.275	0.239	0.194	0.268
33	0.412	0.260	0.276	0.350	0.280	0.377
34	0.420	0.269	0.278	0.306	0.249	0.335
35.01	0.334	0.111	0.178	0.098	0.076	0.098

Table D.4 Damage State Probabilities for Essential Facilities for USGS Hazard Scenario Extensive to Complete Damage

Structure No.	P(E)			P(C)		
	STR	NSA	NSD	STR	NSA	NSD
35.02	0.400	0.129	0.249	0.275	0.209	0.275
36	0.354	0.131	0.196	0.123	0.096	0.123
37	0.371	0.150	0.216	0.158	0.123	0.158
38	0.232	0.101	0.103	0.033	0.027	0.033
39	0.359	0.157	0.202	0.132	0.104	0.132
40	0.361	0.130	0.203	0.135	0.104	0.135
41	0.380	0.145	0.228	0.189	0.145	0.189
42	0.324	0.126	0.144	0.229	0.174	0.229
43	0.374	0.148	0.198	0.236	0.181	0.236
44	0.364	0.144	0.170	0.161	0.125	0.161
45	0.327	0.122	0.172	0.090	0.071	0.090
46	0.350	0.130	0.193	0.118	0.092	0.118
47	0.364	0.146	0.207	0.141	0.110	0.141
48	0.374	0.137	0.220	0.167	0.129	0.167
49	0.339	0.136	0.232	0.201	0.155	0.211
50	0.324	0.145	0.171	0.335	0.254	0.335
51	0.295	0.103	0.105	0.065	0.052	0.065
52	0.310	0.130	0.158	0.075	0.060	0.075
53	0.354	0.131	0.196	0.123	0.096	0.123
54	0.299	0.105	0.149	0.067	0.052	0.067
55	0.274	0.121	0.184	0.126	0.098	0.136
56	0.038	0.125	0.042	0.003	0.017	0.018
57.01	0.349	0.133	0.240	0.218	0.167	0.227
57.02	0.053	0.158	0.057	0.006	0.026	0.027
57.03	0.379	0.159	0.259	0.396	0.300	0.396
57.04	0.344	0.137	0.234	0.179	0.138	0.191
58	0.308	0.117	0.208	0.160	0.123	0.169
59	0.364	0.146	0.207	0.141	0.110	0.141
60	0.230	0.201	0.145	0.036	0.042	0.053
61	0.241	0.209	0.152	0.041	0.045	0.058
62	0.180	0.169	0.113	0.021	0.030	0.033
63	0.226	0.198	0.142	0.035	0.040	0.050
64	0.288	0.259	0.201	0.470	0.371	0.470
65	0.172	0.167	0.109	0.019	0.029	0.030

Table D.4 Damage State Probabilities for Essential Facilities for USGS Hazard Scenario Extensive to Complete Damage

Structure No.	P(E)			P(C)		
	STR	NSA	NSD	STR	NSA	NSD
66	0.351	0.264	0.223	0.119	0.108	0.147
67	0.386	0.234	0.244	0.249	0.199	0.249
68	0.309	0.245	0.195	0.078	0.074	0.102
69	0.403	0.229	0.258	0.163	0.135	0.190
70	0.155	0.143	0.098	0.015	0.022	0.025
71	0.418	0.219	0.270	0.208	0.167	0.237
72	0.241	0.209	0.152	0.041	0.045	0.058
73.01	0.283	0.263	0.155	0.685	0.542	0.685
73.02	0.372	0.334	0.248	0.408	0.359	0.433
73.03	0.049	0.204	0.045	0.944	0.769	0.944
73.04	0.252	0.273	0.184	0.681	0.555	0.690
73.05	0.372	0.334	0.248	0.408	0.359	0.433
73.06	0.372	0.334	0.248	0.408	0.359	0.433
74	0.211	0.018	0.050	0.046	0.034	0.046
75	0.286	0.124	0.144	0.137	0.106	0.137
76	0.329	0.105	0.112	0.226	0.171	0.226
77.01	0.267	0.223	0.169	0.053	0.052	0.072
77.02	0.267	0.223	0.169	0.053	0.052	0.072
77.03	0.423	0.207	0.277	0.254	0.200	0.283
77.04	0.423	0.207	0.277	0.254	0.200	0.283
77.05	0.423	0.207	0.277	0.254	0.200	0.283
78	0.372	0.334	0.248	0.408	0.359	0.433
79	0.372	0.334	0.248	0.408	0.359	0.433
80	0.370	0.323	0.247	0.415	0.358	0.440
81	0.349	0.311	0.236	0.471	0.400	0.493
82	0.083	0.333	0.099	0.028	0.107	0.065
83.01	0.296	0.261	0.206	0.431	0.342	0.431
83.02	0.422	0.208	0.276	0.241	0.190	0.270
84	0.379	0.291	0.243	0.167	0.149	0.197
85.01	0.423	0.249	0.278	0.270	0.218	0.299
85.02	0.348	0.279	0.221	0.115	0.107	0.143
86	0.294	0.353	0.219	0.178	0.172	0.247
88.01	0.108	0.109	0.068	0.007	0.014	0.013
88.02	0.108	0.109	0.068	0.007	0.014	0.013

Table D.4 Damage State Probabilities for Essential Facilities for USGS Hazard Scenario Extensive to Complete Damage

Structure No.	P(E)			P(C)		
	STR	NSA	NSD	STR	NSA	NSD
88.03	0.108	0.109	0.068	0.007	0.014	0.013
88.04	0.108	0.109	0.068	0.007	0.014	0.013
88.05	0.108	0.109	0.068	0.007	0.014	0.013
89	0.095	0.101	0.060	0.006	0.012	0.011
90	0.095	0.101	0.060	0.006	0.012	0.011
91	0.258	0.177	0.170	0.161	0.128	0.161
94	0.241	0.209	0.152	0.041	0.045	0.058
95	0.422	0.189	0.275	0.238	0.186	0.267
96	0.334	0.222	0.216	0.373	0.291	0.373
97	0.303	0.263	0.209	0.337	0.271	0.337
98	0.155	0.143	0.098	0.015	0.022	0.025
99	0.241	0.209	0.152	0.041	0.045	0.058
100	0.381	0.345	0.253	0.378	0.338	0.405
101	0.327	0.313	0.223	0.522	0.449	0.539
102	0.363	0.320	0.243	0.436	0.374	0.460
103.01	0.068	0.216	0.072	0.901	0.736	0.901
103.02	0.146	0.246	0.124	0.801	0.662	0.801
104	0.363	0.320	0.243	0.436	0.374	0.460
105.01	0.372	0.334	0.248	0.408	0.359	0.433
105.02	0.146	0.246	0.124	0.801	0.662	0.801
105.03	0.372	0.334	0.248	0.408	0.359	0.433
106	0.214	0.269	0.173	0.696	0.560	0.696
109.01	0.068	0.216	0.072	0.901	0.736	0.901
109.02	0.068	0.216	0.072	0.901	0.736	0.901
109.03	0.068	0.216	0.072	0.901	0.736	0.901
109.04	0.146	0.246	0.124	0.801	0.662	0.801
109.05	0.146	0.246	0.124	0.801	0.662	0.801
109.06	0.146	0.246	0.124	0.801	0.662	0.801
109.07	0.146	0.246	0.124	0.801	0.662	0.801
110	0.131	0.241	0.112	0.809	0.658	0.809
111	0.057	0.210	0.051	0.932	0.756	0.932
112	0.036	0.206	0.040	0.949	0.769	0.949
113.01	0.370	0.323	0.247	0.415	0.358	0.440
113.02	0.096	0.225	0.083	0.881	0.713	0.881

Table D.4 Damage State Probabilities for Essential Facilities for USGS Hazard Scenario Extensive to Complete Damage

Structure No.	P(E)			P(C)		
	STR	NSA	NSD	STR	NSA	NSD
113.03	0.096	0.225	0.083	0.881	0.713	0.881
114.01	0.145	0.244	0.101	0.802	0.664	0.802
114.02	0.145	0.244	0.101	0.802	0.664	0.802
114.03	0.247	0.268	0.181	0.689	0.555	0.698
115	0.076	0.219	0.066	0.908	0.733	0.908
116.01	0.009	0.171	0.010	0.988	0.824	0.988
116.02	0.064	0.210	0.052	0.928	0.756	0.928
116.03	0.064	0.210	0.052	0.928	0.756	0.928
116.04	0.191	0.254	0.140	0.754	0.634	0.754
117.01	0.049	0.184	0.033	0.941	0.794	0.941
117.02	0.034	0.176	0.022	0.961	0.809	0.961
117.03	0.079	0.216	0.063	0.910	0.741	0.910
117.04	0.051	0.206	0.042	0.943	0.766	0.943
118.01	0.031	0.182	0.030	0.968	0.804	0.968
118.02	0.049	0.184	0.033	0.941	0.794	0.941
118.03	0.028	0.175	0.018	0.968	0.813	0.968
118.04	0.214	0.264	0.155	0.719	0.606	0.722
119.01	0.260	0.272	0.203	0.616	0.491	0.616
119.02	0.396	0.301	0.256	0.233	0.202	0.265
119.03	0.396	0.301	0.256	0.233	0.202	0.265
119.04	0.260	0.272	0.203	0.616	0.491	0.616
120.01	0.396	0.301	0.256	0.233	0.202	0.265
120.02	0.396	0.301	0.256	0.233	0.202	0.265
122	0.348	0.279	0.221	0.115	0.107	0.143
123.01	0.361	0.276	0.251	0.390	0.314	0.390
123.02	0.401	0.251	0.267	0.163	0.137	0.187
123.03	0.348	0.279	0.221	0.115	0.107	0.143
123.04	0.348	0.279	0.221	0.115	0.107	0.143
123.05	0.401	0.251	0.267	0.163	0.137	0.187
124	0.290	0.250	0.183	0.065	0.065	0.087
125	0.348	0.279	0.221	0.115	0.107	0.143
130	0.363	0.285	0.252	0.384	0.311	0.384
131	0.348	0.279	0.221	0.115	0.107	0.143
133	0.103	0.108	0.065	0.007	0.014	0.012

Table D.4 Damage State Probabilities for Essential Facilities for USGS Hazard Scenario Extensive to Complete Damage

Structure No.	P(E)			P(C)		
	STR	NSA	NSD	STR	NSA	NSD
135	0.278	0.190	0.178	0.337	0.259	0.337
135.01	0.269	0.176	0.179	0.182	0.143	0.182
135.02	0.379	0.159	0.259	0.396	0.300	0.396
135.03	0.269	0.176	0.179	0.182	0.143	0.182
136.01	0.117	0.116	0.074	0.009	0.016	0.015
136.02	0.209	0.116	0.172	0.048	0.040	0.068
136.03	0.209	0.116	0.172	0.048	0.040	0.068
136.04	0.371	0.118	0.234	0.115	0.090	0.140
136.05	0.371	0.118	0.234	0.115	0.090	0.140
136.06	0.371	0.118	0.234	0.115	0.090	0.140
136.07	0.371	0.118	0.234	0.115	0.090	0.140
136.08	0.371	0.118	0.234	0.115	0.090	0.140
136.09	0.371	0.118	0.234	0.115	0.090	0.140
136.1	0.101	0.107	0.064	0.007	0.014	0.012
136.11	0.371	0.118	0.234	0.115	0.090	0.140
136.12	0.371	0.118	0.234	0.115	0.090	0.140
137	0.371	0.118	0.234	0.115	0.090	0.140
138	0.347	0.123	0.189	0.113	0.088	0.113
139	0.258	0.177	0.170	0.161	0.128	0.161
139.01	0.129	0.118	0.085	0.011	0.016	0.018
139.02	0.120	0.104	0.103	0.018	0.017	0.027
139.03	0.294	0.102	0.180	0.057	0.045	0.074
139.04	0.294	0.102	0.180	0.057	0.045	0.074
140	0.262	0.174	0.173	0.168	0.132	0.168
140.01	0.103	0.108	0.065	0.007	0.014	0.012
140.02	0.338	0.106	0.210	0.084	0.066	0.105
140.03	0.338	0.106	0.210	0.084	0.066	0.105
140.04	0.338	0.106	0.210	0.084	0.066	0.105
140.05	0.338	0.106	0.210	0.084	0.066	0.105
140.06	0.338	0.106	0.210	0.084	0.066	0.105
140.07	0.338	0.106	0.210	0.084	0.066	0.105
141	0.268	0.176	0.164	0.256	0.198	0.256
141.01	0.238	0.160	0.154	0.131	0.104	0.131
141.02	0.238	0.160	0.154	0.131	0.104	0.131

Table D.4 Damage State Probabilities for Essential Facilities for USGS Hazard Scenario Extensive to Complete Damage

Structure No.	P(E)			P(C)		
	STR	NSA	NSD	STR	NSA	NSD
141.03	0.237	0.108	0.158	0.097	0.076	0.106
141.04	0.043	0.144	0.047	0.004	0.022	0.021
141.05	0.043	0.144	0.047	0.004	0.022	0.021
142	0.278	0.185	0.176	0.326	0.251	0.326
142.01	0.347	0.123	0.189	0.113	0.088	0.113
142.02	0.153	0.099	0.129	0.027	0.023	0.040
143	0.268	0.172	0.163	0.253	0.195	0.253
143.01	0.296	0.112	0.147	0.064	0.051	0.064
143.02	0.281	0.106	0.181	0.124	0.096	0.136
143.03	0.281	0.106	0.181	0.124	0.096	0.136
143.04	0.230	0.154	0.148	0.121	0.096	0.121
143.05	0.296	0.112	0.147	0.064	0.051	0.064
143.06	0.296	0.112	0.147	0.064	0.051	0.064
144	0.271	0.180	0.181	0.187	0.147	0.187
144.01	0.109	0.112	0.069	0.008	0.015	0.013
144.02	0.354	0.112	0.222	0.098	0.076	0.120
144.03	0.354	0.112	0.222	0.098	0.076	0.120
144.04	0.354	0.112	0.222	0.098	0.076	0.120
144.05	0.354	0.112	0.222	0.098	0.076	0.120
145	0.271	0.188	0.167	0.270	0.210	0.270
145.01	0.286	0.124	0.144	0.137	0.106	0.137
145.02	0.397	0.138	0.237	0.226	0.173	0.226
145.03	0.397	0.138	0.237	0.226	0.173	0.226
145.04	0.397	0.138	0.237	0.226	0.173	0.226
145.05	0.397	0.138	0.237	0.226	0.173	0.226
145.06	0.397	0.138	0.237	0.226	0.173	0.226
145.07	0.397	0.138	0.237	0.226	0.173	0.226
146	0.309	0.124	0.199	0.124	0.096	0.136
147	0.261	0.172	0.172	0.166	0.131	0.166
147.01	0.126	0.112	0.083	0.010	0.015	0.017
147.02	0.126	0.112	0.083	0.010	0.015	0.017
148	0.071	0.087	0.045	0.003	0.010	0.007
149	0.282	0.186	0.189	0.213	0.167	0.213
149.01	0.297	0.172	0.182	0.461	0.349	0.461

Table D.4 Damage State Probabilities for Essential Facilities for USGS Hazard Scenario Extensive to Complete Damage

Structure No.	P(E)			P(C)		
	STR	NSA	NSD	STR	NSA	NSD
149.02	0.274	0.202	0.181	0.417	0.320	0.417
149.03	0.274	0.202	0.181	0.417	0.320	0.417
149.04	0.106	0.175	0.086	0.022	0.031	0.047
149.05	0.380	0.145	0.228	0.189	0.145	0.189
149.06	0.117	0.116	0.074	0.009	0.016	0.015
149.07	0.338	0.147	0.205	0.295	0.225	0.295
149.08	0.380	0.145	0.228	0.189	0.145	0.189
149.09	0.368	0.167	0.256	0.430	0.326	0.430
149.1	0.101	0.107	0.064	0.007	0.014	0.012
149.11	0.368	0.167	0.256	0.430	0.326	0.430
149.12	0.368	0.167	0.256	0.430	0.326	0.430
150	0.368	0.167	0.256	0.430	0.326	0.430
151	0.117	0.116	0.074	0.009	0.016	0.015
152	0.333	0.135	0.187	0.219	0.167	0.219
153	0.262	0.174	0.173	0.168	0.132	0.168
153.01	0.199	0.095	0.167	0.035	0.028	0.056
153.02	0.338	0.106	0.210	0.084	0.066	0.105
153.03	0.338	0.106	0.210	0.084	0.066	0.105
153.04	0.338	0.106	0.210	0.084	0.066	0.105
153.05	0.127	0.114	0.084	0.011	0.015	0.017
154	0.347	0.123	0.189	0.113	0.088	0.113
155	0.249	0.166	0.163	0.147	0.116	0.147
155.01	0.103	0.108	0.065	0.007	0.014	0.012
155.02	0.095	0.103	0.060	0.006	0.013	0.011
155.03	0.319	0.099	0.197	0.071	0.056	0.091
155.04	0.319	0.099	0.197	0.071	0.056	0.091
155.05	0.319	0.099	0.197	0.071	0.056	0.091
155.06	0.095	0.103	0.060	0.006	0.013	0.011
156	0.374	0.148	0.198	0.236	0.181	0.236
157	0.278	0.185	0.176	0.326	0.251	0.326
157.01	0.361	0.130	0.203	0.135	0.104	0.135
157.02	0.361	0.130	0.203	0.135	0.104	0.135
157.03	0.361	0.130	0.203	0.135	0.104	0.135
157.04	0.361	0.130	0.203	0.135	0.104	0.135

Table D.4 Damage State Probabilities for Essential Facilities for USGS Hazard Scenario Extensive to Complete Damage

Structure No.	P(E)			P(C)		
	STR	NSA	NSD	STR	NSA	NSD
157.05	0.361	0.130	0.203	0.135	0.104	0.135
158	0.104	0.113	0.066	0.007	0.015	0.012
159	0.278	0.190	0.178	0.337	0.259	0.337
159.01	0.321	0.128	0.178	0.204	0.156	0.204
159.02	0.050	0.155	0.054	0.005	0.025	0.025
159.03	0.396	0.147	0.256	0.318	0.242	0.318
160	0.258	0.177	0.170	0.161	0.128	0.161
161	0.258	0.177	0.170	0.161	0.128	0.161
161.01	0.104	0.113	0.066	0.007	0.015	0.012
161.02	0.286	0.124	0.144	0.137	0.106	0.137
161.03	0.104	0.113	0.066	0.007	0.015	0.012
161.04	0.104	0.113	0.066	0.007	0.015	0.012
161.05	0.104	0.113	0.066	0.007	0.015	0.012
161.06	0.104	0.113	0.066	0.007	0.015	0.012
162	0.258	0.177	0.170	0.161	0.128	0.161
162.01	0.104	0.113	0.066	0.007	0.015	0.012
162.02	0.014	0.119	0.020	0.004	0.012	0.011
162.03	0.104	0.113	0.066	0.007	0.015	0.012
162.04	0.110	0.089	0.096	0.021	0.018	0.034
162.05	0.014	0.119	0.020	0.004	0.012	0.011
162.06	0.014	0.119	0.020	0.004	0.012	0.011
163	0.287	0.194	0.194	0.229	0.180	0.229
163.01	0.121	0.124	0.077	0.009	0.017	0.016
163.02	0.121	0.124	0.077	0.009	0.017	0.016
163.03	0.121	0.124	0.077	0.009	0.017	0.016
163.04	0.176	0.105	0.146	0.041	0.034	0.063
163.05	0.121	0.124	0.077	0.009	0.017	0.016
163.06	0.121	0.124	0.077	0.009	0.017	0.016
164	0.282	0.186	0.189	0.213	0.167	0.213
164.01	0.117	0.116	0.074	0.009	0.016	0.015
164.02	0.117	0.116	0.074	0.009	0.016	0.015
165	0.282	0.186	0.189	0.213	0.167	0.213
166	0.287	0.194	0.194	0.229	0.180	0.229
166.01	0.287	0.194	0.194	0.229	0.180	0.229

Table D.4 Damage State Probabilities for Essential Facilities for USGS Hazard Scenario Extensive to Complete Damage

Structure No.	P(E)			P(C)		
	STR	NSA	NSD	STR	NSA	NSD
166.02	0.287	0.194	0.194	0.229	0.180	0.229
166.03	0.287	0.194	0.194	0.229	0.180	0.229
167	0.261	0.172	0.172	0.166	0.131	0.166
168	0.258	0.177	0.170	0.161	0.128	0.161
169	0.271	0.188	0.167	0.270	0.210	0.270
170	0.271	0.188	0.167	0.270	0.210	0.270
171	0.278	0.190	0.178	0.337	0.259	0.337
172	0.269	0.176	0.179	0.182	0.143	0.182
172.01	0.269	0.176	0.179	0.182	0.143	0.182
172.02	0.269	0.176	0.179	0.182	0.143	0.182
172.03	0.269	0.176	0.179	0.182	0.143	0.182
172.04	0.269	0.176	0.179	0.182	0.143	0.182
172.05	0.269	0.176	0.179	0.182	0.143	0.182
173	0.282	0.186	0.189	0.213	0.167	0.213
173.01	0.117	0.116	0.074	0.009	0.016	0.015
173.02	0.117	0.116	0.074	0.009	0.016	0.015
173.03	0.338	0.147	0.205	0.295	0.225	0.295
173.04	0.117	0.116	0.074	0.009	0.016	0.015
173.05	0.338	0.147	0.205	0.295	0.225	0.295
173.06	0.282	0.186	0.189	0.213	0.167	0.213
173.07	0.117	0.116	0.074	0.009	0.016	0.015
174	0.278	0.190	0.178	0.337	0.259	0.337
174.01	0.333	0.135	0.187	0.219	0.167	0.219
174.02	0.333	0.135	0.187	0.219	0.167	0.219
174.03	0.321	0.128	0.178	0.204	0.156	0.204
174.04	0.013	0.113	0.020	0.004	0.011	0.011
174.05	0.043	0.103	0.074	0.004	0.014	0.011
174.06	0.333	0.135	0.187	0.219	0.167	0.219
174.07	0.013	0.113	0.020	0.004	0.011	0.011
174.08	0.157	0.091	0.131	0.034	0.028	0.054
174.09	0.261	0.172	0.172	0.166	0.131	0.166
174.1	0.333	0.135	0.187	0.219	0.167	0.219
174.11	0.278	0.190	0.179	0.352	0.270	0.352
174.12	0.333	0.135	0.187	0.219	0.167	0.219

Table D.4 Damage State Probabilities for Essential Facilities for USGS Hazard Scenario Extensive to Complete Damage

Structure No.	P(E)			P(C)		
	STR	NSA	NSD	STR	NSA	NSD
174.13	0.335	0.137	0.194	0.240	0.183	0.240
174.14	0.261	0.172	0.172	0.166	0.131	0.166
174.15	0.259	0.170	0.171	0.163	0.128	0.163
174.16	0.261	0.172	0.172	0.166	0.131	0.166
174.17	0.259	0.170	0.171	0.163	0.128	0.163
175	0.312	0.124	0.212	0.165	0.127	0.174
175.01	0.259	0.170	0.171	0.163	0.128	0.163
175.02	0.157	0.091	0.131	0.034	0.028	0.054
175.03	0.361	0.130	0.203	0.135	0.104	0.135
175.04	0.396	0.147	0.256	0.318	0.242	0.318
175.05	0.327	0.130	0.185	0.224	0.171	0.224
175.06	0.261	0.172	0.172	0.166	0.131	0.166
175.07	0.259	0.170	0.171	0.163	0.128	0.163
175.08	0.259	0.170	0.171	0.163	0.128	0.163
175.09	0.259	0.170	0.171	0.163	0.128	0.163
175.1	0.335	0.137	0.194	0.240	0.183	0.240
176	0.117	0.116	0.074	0.009	0.016	0.015
177	0.258	0.177	0.170	0.161	0.128	0.161
178	0.278	0.190	0.178	0.337	0.259	0.337
178.01	0.352	0.129	0.195	0.121	0.094	0.121
178.02	0.352	0.129	0.195	0.121	0.094	0.121
178.03	0.321	0.128	0.178	0.204	0.156	0.204
178.04	0.261	0.172	0.172	0.166	0.131	0.166
178.05	0.333	0.135	0.187	0.219	0.167	0.219
178.06	0.352	0.129	0.195	0.121	0.094	0.121
178.07	0.352	0.129	0.195	0.121	0.094	0.121
178.08	0.352	0.129	0.195	0.121	0.094	0.121
178.09	0.321	0.128	0.178	0.204	0.156	0.204
178.1	0.333	0.135	0.187	0.219	0.167	0.219
179	0.068	0.081	0.044	0.003	0.009	0.006
180	0.199	0.133	0.126	0.089	0.071	0.089
181.01	0.190	0.175	0.120	0.024	0.032	0.036
181.02	0.190	0.175	0.120	0.024	0.032	0.036
182	0.260	0.218	0.164	0.049	0.049	0.068

Table D.4 Damage State Probabilities for Essential Facilities for USGS Hazard Scenario Extensive to Complete Damage

Structure No.	P(E)			P(C)		
	STR	NSA	NSD	STR	NSA	NSD
183.01	0.260	0.218	0.164	0.049	0.049	0.068
183.02	0.260	0.218	0.164	0.049	0.049	0.068
183.03	0.260	0.218	0.164	0.049	0.049	0.068
183.04	0.260	0.218	0.164	0.049	0.049	0.068
184	0.260	0.218	0.164	0.049	0.049	0.068
185	0.334	0.222	0.216	0.373	0.291	0.373
186	0.272	0.222	0.171	0.055	0.054	0.075
187.01	0.272	0.222	0.171	0.055	0.054	0.075
187.02	0.272	0.222	0.171	0.055	0.054	0.075
188.01	0.191	0.176	0.121	0.024	0.033	0.037
188.02	0.336	0.193	0.214	0.355	0.273	0.355
188.03	0.336	0.193	0.214	0.355	0.273	0.355
189	0.272	0.222	0.171	0.055	0.054	0.075
190.01	0.272	0.222	0.171	0.055	0.054	0.075
190.02	0.386	0.234	0.244	0.249	0.199	0.249
190.03	0.272	0.222	0.171	0.055	0.054	0.075
190.04	0.272	0.222	0.171	0.055	0.054	0.075
190.05	0.386	0.234	0.244	0.249	0.199	0.249
190.06	0.386	0.234	0.244	0.249	0.199	0.249
191	0.272	0.222	0.171	0.055	0.054	0.075
191.01	0.272	0.222	0.171	0.055	0.054	0.075
191.02	0.272	0.222	0.171	0.055	0.054	0.075
192	0.303	0.263	0.209	0.337	0.271	0.337
192.01	0.386	0.234	0.244	0.249	0.199	0.249
192.02	0.334	0.222	0.216	0.373	0.291	0.373
193	0.303	0.226	0.213	0.503	0.389	0.503
194	0.309	0.245	0.195	0.078	0.074	0.102
195	0.241	0.209	0.152	0.041	0.045	0.058
196.01	0.241	0.209	0.152	0.041	0.045	0.058
196.02	0.422	0.197	0.276	0.243	0.190	0.272
197.01	0.241	0.209	0.152	0.041	0.045	0.058
197.02	0.422	0.197	0.276	0.243	0.190	0.272
197.03	0.422	0.197	0.276	0.243	0.190	0.272
198	0.278	0.190	0.178	0.337	0.259	0.337

Table D.5 Damage State Probabilities for Bridges

<i>Hazus ID</i>	<i>P(N)</i>	<i>P(S)</i>	<i>P(M)</i>	<i>P(E)</i>	<i>P(C)</i>
<i>TN001276</i>	<i>0.457</i>	<i>0.147</i>	<i>0.111</i>	<i>0.160</i>	<i>0.126</i>
<i>TN001277</i>	<i>0.012</i>	<i>0.016</i>	<i>0.040</i>	<i>0.157</i>	<i>0.774</i>
<i>TN001278</i>	<i>0.324</i>	<i>0.030</i>	<i>0.118</i>	<i>0.223</i>	<i>0.305</i>
<i>TN001279</i>	<i>0.324</i>	<i>0.142</i>	<i>0.120</i>	<i>0.201</i>	<i>0.212</i>
<i>TN001280</i>	<i>0.008</i>	<i>0.021</i>	<i>0.041</i>	<i>0.159</i>	<i>0.771</i>
<i>TN001281</i>	<i>0.012</i>	<i>0.028</i>	<i>0.051</i>	<i>0.183</i>	<i>0.726</i>
<i>TN001282</i>	<i>0.183</i>	<i>0.269</i>	<i>0.207</i>	<i>0.213</i>	<i>0.128</i>
<i>TN001283</i>	<i>0.452</i>	<i>0.147</i>	<i>0.111</i>	<i>0.161</i>	<i>0.128</i>
<i>TN001284</i>	<i>0.082</i>	<i>0.072</i>	<i>0.169</i>	<i>0.161</i>	<i>0.516</i>
<i>TN001285</i>	<i>0.279</i>	<i>0.251</i>	<i>0.129</i>	<i>0.164</i>	<i>0.177</i>
<i>TN001286</i>	<i>0.279</i>	<i>0.251</i>	<i>0.129</i>	<i>0.164</i>	<i>0.177</i>
<i>TN001287</i>	<i>0.255</i>	<i>0.252</i>	<i>0.131</i>	<i>0.170</i>	<i>0.193</i>
<i>TN001288</i>	<i>0.255</i>	<i>0.252</i>	<i>0.131</i>	<i>0.170</i>	<i>0.193</i>
<i>TN001289</i>	<i>0.008</i>	<i>0.025</i>	<i>0.045</i>	<i>0.170</i>	<i>0.751</i>
<i>TN001290</i>	<i>0.015</i>	<i>0.039</i>	<i>0.063</i>	<i>0.208</i>	<i>0.674</i>
<i>TN001291</i>	<i>0.249</i>	<i>0.250</i>	<i>0.131</i>	<i>0.172</i>	<i>0.198</i>
<i>TN001292</i>	<i>0.249</i>	<i>0.250</i>	<i>0.131</i>	<i>0.172</i>	<i>0.198</i>
<i>TN001293</i>	<i>0.140</i>	<i>0.180</i>	<i>0.127</i>	<i>0.202</i>	<i>0.350</i>
<i>TN001294</i>	<i>0.140</i>	<i>0.180</i>	<i>0.127</i>	<i>0.202</i>	<i>0.350</i>
<i>TN001295</i>	<i>0.131</i>	<i>0.184</i>	<i>0.126</i>	<i>0.203</i>	<i>0.356</i>
<i>TN001296</i>	<i>0.131</i>	<i>0.184</i>	<i>0.126</i>	<i>0.203</i>	<i>0.356</i>
<i>TN001297</i>	<i>0.344</i>	<i>0.000</i>	<i>0.000</i>	<i>0.250</i>	<i>0.407</i>
<i>TN001298</i>	<i>0.143</i>	<i>0.200</i>	<i>0.129</i>	<i>0.200</i>	<i>0.327</i>
<i>TN001299</i>	<i>0.143</i>	<i>0.205</i>	<i>0.130</i>	<i>0.200</i>	<i>0.323</i>
<i>TN001300</i>	<i>0.276</i>	<i>0.028</i>	<i>0.113</i>	<i>0.228</i>	<i>0.355</i>
<i>TN001301</i>	<i>0.006</i>	<i>0.017</i>	<i>0.034</i>	<i>0.142</i>	<i>0.801</i>
<i>TN001302</i>	<i>0.006</i>	<i>0.017</i>	<i>0.034</i>	<i>0.142</i>	<i>0.801</i>
<i>TN001303</i>	<i>0.379</i>	<i>0.000</i>	<i>0.131</i>	<i>0.196</i>	<i>0.294</i>
<i>TN001304</i>	<i>0.379</i>	<i>0.000</i>	<i>0.131</i>	<i>0.196</i>	<i>0.294</i>
<i>TN001305</i>	<i>0.319</i>	<i>0.142</i>	<i>0.121</i>	<i>0.203</i>	<i>0.216</i>
<i>TN001306</i>	<i>0.120</i>	<i>0.228</i>	<i>0.208</i>	<i>0.251</i>	<i>0.193</i>
<i>TN001307</i>	<i>0.129</i>	<i>0.224</i>	<i>0.208</i>	<i>0.249</i>	<i>0.190</i>
<i>TN001308</i>	<i>0.129</i>	<i>0.224</i>	<i>0.208</i>	<i>0.249</i>	<i>0.190</i>
<i>TN001309</i>	<i>0.129</i>	<i>0.235</i>	<i>0.209</i>	<i>0.246</i>	<i>0.182</i>
<i>TN001310</i>	<i>0.129</i>	<i>0.235</i>	<i>0.209</i>	<i>0.246</i>	<i>0.182</i>
<i>TN001311</i>	<i>0.110</i>	<i>0.219</i>	<i>0.206</i>	<i>0.257</i>	<i>0.208</i>
<i>TN001312</i>	<i>0.387</i>	<i>0.000</i>	<i>0.132</i>	<i>0.195</i>	<i>0.287</i>

Table D.5 Damage State Probabilities for Bridges

<i>Hazus ID</i>	<i>P(N)</i>	<i>P(S)</i>	<i>P(M)</i>	<i>P(E)</i>	<i>P(C)</i>
<i>TN001313</i>	<i>0.006</i>	<i>0.019</i>	<i>0.037</i>	<i>0.150</i>	<i>0.788</i>
<i>TN001314</i>	<i>0.282</i>	<i>0.137</i>	<i>0.121</i>	<i>0.212</i>	<i>0.249</i>
<i>TN001315</i>	<i>0.337</i>	<i>0.138</i>	<i>0.120</i>	<i>0.199</i>	<i>0.205</i>
<i>TN001316</i>	<i>0.335</i>	<i>0.132</i>	<i>0.120</i>	<i>0.201</i>	<i>0.212</i>
<i>TN001317</i>	<i>0.186</i>	<i>0.149</i>	<i>0.128</i>	<i>0.201</i>	<i>0.336</i>
<i>TN001318</i>	<i>0.148</i>	<i>0.208</i>	<i>0.130</i>	<i>0.199</i>	<i>0.314</i>
<i>TN001319</i>	<i>0.148</i>	<i>0.208</i>	<i>0.130</i>	<i>0.199</i>	<i>0.314</i>
<i>TN001320</i>	<i>0.170</i>	<i>0.209</i>	<i>0.131</i>	<i>0.196</i>	<i>0.293</i>
<i>TN001321</i>	<i>0.170</i>	<i>0.209</i>	<i>0.131</i>	<i>0.196</i>	<i>0.293</i>
<i>TN001322</i>	<i>0.007</i>	<i>0.023</i>	<i>0.042</i>	<i>0.162</i>	<i>0.766</i>
<i>TN001323</i>	<i>0.007</i>	<i>0.023</i>	<i>0.042</i>	<i>0.162</i>	<i>0.766</i>
<i>TN001324</i>	<i>0.099</i>	<i>0.208</i>	<i>0.204</i>	<i>0.263</i>	<i>0.226</i>
<i>TN001325</i>	<i>0.099</i>	<i>0.208</i>	<i>0.204</i>	<i>0.263</i>	<i>0.226</i>
<i>TN001326</i>	<i>0.418</i>	<i>0.147</i>	<i>0.115</i>	<i>0.173</i>	<i>0.147</i>
<i>TN001327</i>	<i>0.016</i>	<i>0.028</i>	<i>0.055</i>	<i>0.192</i>	<i>0.709</i>
<i>TN001328</i>	<i>0.269</i>	<i>0.255</i>	<i>0.129</i>	<i>0.166</i>	<i>0.181</i>
<i>TN001329</i>	<i>0.259</i>	<i>0.253</i>	<i>0.130</i>	<i>0.169</i>	<i>0.189</i>
<i>TN001330</i>	<i>0.438</i>	<i>0.147</i>	<i>0.113</i>	<i>0.166</i>	<i>0.135</i>
<i>TN001331</i>	<i>0.373</i>	<i>0.135</i>	<i>0.119</i>	<i>0.190</i>	<i>0.183</i>
<i>TN001332</i>	<i>0.304</i>	<i>0.140</i>	<i>0.121</i>	<i>0.207</i>	<i>0.229</i>
<i>TN001333</i>	<i>0.313</i>	<i>0.141</i>	<i>0.121</i>	<i>0.204</i>	<i>0.221</i>
<i>TN001334</i>	<i>0.313</i>	<i>0.141</i>	<i>0.121</i>	<i>0.204</i>	<i>0.221</i>
<i>TN001335</i>	<i>0.432</i>	<i>0.000</i>	<i>0.133</i>	<i>0.187</i>	<i>0.249</i>
<i>TN001336</i>	<i>0.170</i>	<i>0.000</i>	<i>0.098</i>	<i>0.191</i>	<i>0.541</i>
<i>TN001337</i>	<i>0.339</i>	<i>0.031</i>	<i>0.119</i>	<i>0.221</i>	<i>0.290</i>
<i>TN001338</i>	<i>0.390</i>	<i>0.000</i>	<i>0.132</i>	<i>0.194</i>	<i>0.284</i>
<i>TN001339</i>	<i>0.012</i>	<i>0.021</i>	<i>0.044</i>	<i>0.167</i>	<i>0.756</i>
<i>TN001340</i>	<i>0.428</i>	<i>0.000</i>	<i>0.133</i>	<i>0.188</i>	<i>0.252</i>
<i>TN001341</i>	<i>0.195</i>	<i>0.232</i>	<i>0.133</i>	<i>0.188</i>	<i>0.252</i>
<i>TN001342</i>	<i>0.396</i>	<i>0.000</i>	<i>0.132</i>	<i>0.193</i>	<i>0.279</i>
<i>TN001343</i>	<i>0.195</i>	<i>0.200</i>	<i>0.132</i>	<i>0.193</i>	<i>0.279</i>
<i>TN001344</i>	<i>0.203</i>	<i>0.230</i>	<i>0.133</i>	<i>0.187</i>	<i>0.247</i>
<i>TN001345</i>	<i>0.203</i>	<i>0.230</i>	<i>0.133</i>	<i>0.187</i>	<i>0.247</i>
<i>TN001346</i>	<i>0.011</i>	<i>0.030</i>	<i>0.053</i>	<i>0.187</i>	<i>0.719</i>
<i>TN001347</i>	<i>0.011</i>	<i>0.030</i>	<i>0.053</i>	<i>0.187</i>	<i>0.719</i>
<i>TN001348</i>	<i>0.224</i>	<i>0.274</i>	<i>0.202</i>	<i>0.194</i>	<i>0.105</i>
<i>TN001349</i>	<i>0.014</i>	<i>0.036</i>	<i>0.060</i>	<i>0.201</i>	<i>0.689</i>
<i>TN001350</i>	<i>0.198</i>	<i>0.271</i>	<i>0.206</i>	<i>0.206</i>	<i>0.120</i>

Table D.5 Damage State Probabilities for Bridges

<i>Hazus ID</i>	<i>P(N)</i>	<i>P(S)</i>	<i>P(M)</i>	<i>P(E)</i>	<i>P(C)</i>
<i>TN001351</i>	<i>0.028</i>	<i>0.058</i>	<i>0.086</i>	<i>0.245</i>	<i>0.583</i>
<i>TN001352</i>	<i>0.279</i>	<i>0.105</i>	<i>0.119</i>	<i>0.219</i>	<i>0.279</i>
<i>TN001353</i>	<i>0.085</i>	<i>0.193</i>	<i>0.199</i>	<i>0.271</i>	<i>0.252</i>
<i>TN001354</i>	<i>0.427</i>	<i>0.136</i>	<i>0.115</i>	<i>0.173</i>	<i>0.149</i>
<i>TN001355</i>	<i>0.116</i>	<i>0.181</i>	<i>0.202</i>	<i>0.266</i>	<i>0.235</i>
<i>TN001356</i>	<i>0.370</i>	<i>0.146</i>	<i>0.119</i>	<i>0.188</i>	<i>0.178</i>
<i>TN001357</i>	<i>0.362</i>	<i>0.145</i>	<i>0.119</i>	<i>0.190</i>	<i>0.183</i>
<i>TN001358</i>	<i>0.361</i>	<i>0.145</i>	<i>0.119</i>	<i>0.191</i>	<i>0.184</i>
<i>TN001359</i>	<i>0.013</i>	<i>0.034</i>	<i>0.058</i>	<i>0.197</i>	<i>0.698</i>
<i>TN001360</i>	<i>0.011</i>	<i>0.031</i>	<i>0.054</i>	<i>0.189</i>	<i>0.715</i>
<i>TN001361</i>	<i>0.015</i>	<i>0.038</i>	<i>0.063</i>	<i>0.207</i>	<i>0.677</i>
<i>TN001362</i>	<i>0.018</i>	<i>0.031</i>	<i>0.059</i>	<i>0.199</i>	<i>0.694</i>
<i>TN001363</i>	<i>0.114</i>	<i>0.063</i>	<i>0.169</i>	<i>0.283</i>	<i>0.371</i>
<i>TN001364</i>	<i>0.317</i>	<i>0.142</i>	<i>0.121</i>	<i>0.203</i>	<i>0.217</i>
<i>TN001365</i>	<i>0.130</i>	<i>0.235</i>	<i>0.209</i>	<i>0.245</i>	<i>0.181</i>
<i>TN001366</i>	<i>0.132</i>	<i>0.237</i>	<i>0.209</i>	<i>0.244</i>	<i>0.178</i>
<i>TN001367</i>	<i>0.132</i>	<i>0.193</i>	<i>0.206</i>	<i>0.258</i>	<i>0.211</i>
<i>TN001368</i>	<i>0.337</i>	<i>0.070</i>	<i>0.120</i>	<i>0.215</i>	<i>0.259</i>
<i>TN001369</i>	<i>0.015</i>	<i>0.014</i>	<i>0.040</i>	<i>0.157</i>	<i>0.774</i>
<i>TN001370</i>	<i>0.015</i>	<i>0.038</i>	<i>0.062</i>	<i>0.206</i>	<i>0.679</i>
<i>TN001371</i>	<i>0.014</i>	<i>0.037</i>	<i>0.060</i>	<i>0.203</i>	<i>0.686</i>
<i>TN001372</i>	<i>0.322</i>	<i>0.095</i>	<i>0.121</i>	<i>0.212</i>	<i>0.250</i>
<i>TN001373</i>	<i>0.291</i>	<i>0.113</i>	<i>0.120</i>	<i>0.215</i>	<i>0.261</i>
<i>TN001435</i>	<i>0.737</i>	<i>0.106</i>	<i>0.062</i>	<i>0.066</i>	<i>0.029</i>
<i>TN003006</i>	<i>0.551</i>	<i>0.033</i>	<i>0.113</i>	<i>0.167</i>	<i>0.137</i>
<i>TN003007</i>	<i>0.029</i>	<i>0.062</i>	<i>0.089</i>	<i>0.249</i>	<i>0.570</i>
<i>TN003008</i>	<i>0.028</i>	<i>0.053</i>	<i>0.083</i>	<i>0.241</i>	<i>0.595</i>
<i>TN003009</i>	<i>0.488</i>	<i>0.135</i>	<i>0.109</i>	<i>0.153</i>	<i>0.116</i>
<i>TN003010</i>	<i>0.355</i>	<i>0.264</i>	<i>0.119</i>	<i>0.138</i>	<i>0.124</i>
<i>TN003011</i>	<i>0.466</i>	<i>0.147</i>	<i>0.110</i>	<i>0.157</i>	<i>0.121</i>
<i>TN003012</i>	<i>0.395</i>	<i>0.147</i>	<i>0.117</i>	<i>0.180</i>	<i>0.161</i>
<i>TN003013</i>	<i>0.013</i>	<i>0.024</i>	<i>0.049</i>	<i>0.179</i>	<i>0.735</i>
<i>TN003014</i>	<i>0.374</i>	<i>0.098</i>	<i>0.120</i>	<i>0.200</i>	<i>0.208</i>
<i>TN003015</i>	<i>0.523</i>	<i>0.000</i>	<i>0.129</i>	<i>0.166</i>	<i>0.182</i>
<i>TN003016</i>	<i>0.431</i>	<i>0.147</i>	<i>0.114</i>	<i>0.168</i>	<i>0.140</i>
<i>TN003017</i>	<i>0.556</i>	<i>0.097</i>	<i>0.104</i>	<i>0.142</i>	<i>0.101</i>
<i>TN003018</i>	<i>0.561</i>	<i>0.129</i>	<i>0.098</i>	<i>0.128</i>	<i>0.084</i>
<i>TN003019</i>	<i>0.562</i>	<i>0.139</i>	<i>0.096</i>	<i>0.124</i>	<i>0.079</i>

Table D.5 Damage State Probabilities for Bridges

<i>Hazus ID</i>	<i>P(N)</i>	<i>P(S)</i>	<i>P(M)</i>	<i>P(E)</i>	<i>P(C)</i>
<i>TN003020</i>	<i>0.350</i>	<i>0.000</i>	<i>0.000</i>	<i>0.250</i>	<i>0.400</i>
<i>TN003021</i>	<i>0.350</i>	<i>0.000</i>	<i>0.000</i>	<i>0.250</i>	<i>0.400</i>
<i>TN003022</i>	<i>0.452</i>	<i>0.100</i>	<i>0.116</i>	<i>0.177</i>	<i>0.155</i>
<i>TN003023</i>	<i>0.019</i>	<i>0.047</i>	<i>0.072</i>	<i>0.224</i>	<i>0.637</i>
<i>TN003024</i>	<i>0.022</i>	<i>0.051</i>	<i>0.077</i>	<i>0.232</i>	<i>0.617</i>
<i>TN003025</i>	<i>0.014</i>	<i>0.036</i>	<i>0.060</i>	<i>0.201</i>	<i>0.689</i>
<i>TN003026</i>	<i>0.014</i>	<i>0.036</i>	<i>0.060</i>	<i>0.201</i>	<i>0.689</i>
<i>TN003027</i>	<i>0.026</i>	<i>0.057</i>	<i>0.084</i>	<i>0.243</i>	<i>0.590</i>
<i>TN003028</i>	<i>0.036</i>	<i>0.071</i>	<i>0.098</i>	<i>0.260</i>	<i>0.534</i>
<i>TN003029</i>	<i>0.422</i>	<i>0.000</i>	<i>0.133</i>	<i>0.189</i>	<i>0.257</i>
<i>TN003030</i>	<i>0.422</i>	<i>0.000</i>	<i>0.133</i>	<i>0.189</i>	<i>0.257</i>
<i>TN003031</i>	<i>0.009</i>	<i>0.024</i>	<i>0.045</i>	<i>0.169</i>	<i>0.752</i>
<i>TN003032</i>	<i>0.112</i>	<i>0.210</i>	<i>0.205</i>	<i>0.259</i>	<i>0.213</i>
<i>TN003033</i>	<i>0.336</i>	<i>0.232</i>	<i>0.125</i>	<i>0.153</i>	<i>0.153</i>
<i>TN003034</i>	<i>0.509</i>	<i>0.144</i>	<i>0.104</i>	<i>0.142</i>	<i>0.100</i>
<i>TN003035</i>	<i>0.307</i>	<i>0.261</i>	<i>0.125</i>	<i>0.153</i>	<i>0.153</i>
<i>TN003036</i>	<i>0.597</i>	<i>0.000</i>	<i>0.122</i>	<i>0.145</i>	<i>0.137</i>
<i>TN003037</i>	<i>0.354</i>	<i>0.264</i>	<i>0.119</i>	<i>0.138</i>	<i>0.125</i>
<i>TN003038</i>	<i>0.362</i>	<i>0.264</i>	<i>0.118</i>	<i>0.135</i>	<i>0.120</i>
<i>TN003039</i>	<i>0.348</i>	<i>0.264</i>	<i>0.120</i>	<i>0.140</i>	<i>0.128</i>
<i>TN003040</i>	<i>0.554</i>	<i>0.140</i>	<i>0.097</i>	<i>0.126</i>	<i>0.082</i>
<i>TN003041</i>	<i>0.366</i>	<i>0.264</i>	<i>0.117</i>	<i>0.134</i>	<i>0.118</i>
<i>TN003042</i>	<i>0.257</i>	<i>0.252</i>	<i>0.130</i>	<i>0.169</i>	<i>0.191</i>
<i>TN003043</i>	<i>0.257</i>	<i>0.252</i>	<i>0.130</i>	<i>0.169</i>	<i>0.191</i>
<i>TN003044</i>	<i>0.285</i>	<i>0.258</i>	<i>0.128</i>	<i>0.160</i>	<i>0.168</i>
<i>TN003045</i>	<i>0.437</i>	<i>0.115</i>	<i>0.116</i>	<i>0.177</i>	<i>0.155</i>
<i>TN003046</i>	<i>0.427</i>	<i>0.115</i>	<i>0.117</i>	<i>0.180</i>	<i>0.161</i>
<i>TN003047</i>	<i>0.016</i>	<i>0.037</i>	<i>0.062</i>	<i>0.206</i>	<i>0.679</i>
<i>TN003048</i>	<i>0.488</i>	<i>0.146</i>	<i>0.107</i>	<i>0.149</i>	<i>0.110</i>
<i>TN003049</i>	<i>0.500</i>	<i>0.099</i>	<i>0.111</i>	<i>0.161</i>	<i>0.128</i>
<i>TN003050</i>	<i>0.436</i>	<i>0.100</i>	<i>0.117</i>	<i>0.182</i>	<i>0.165</i>
<i>TN003051</i>	<i>0.406</i>	<i>0.122</i>	<i>0.129</i>	<i>0.165</i>	<i>0.179</i>
<i>TN003052</i>	<i>0.333</i>	<i>0.260</i>	<i>0.123</i>	<i>0.146</i>	<i>0.139</i>
<i>TN003053</i>	<i>0.607</i>	<i>0.130</i>	<i>0.089</i>	<i>0.110</i>	<i>0.064</i>
<i>TN003054</i>	<i>0.496</i>	<i>0.033</i>	<i>0.118</i>	<i>0.184</i>	<i>0.169</i>
<i>TN003055</i>	<i>0.417</i>	<i>0.257</i>	<i>0.110</i>	<i>0.120</i>	<i>0.096</i>
<i>TN003056</i>	<i>0.484</i>	<i>0.100</i>	<i>0.113</i>	<i>0.166</i>	<i>0.136</i>
<i>TN003057</i>	<i>0.599</i>	<i>0.117</i>	<i>0.093</i>	<i>0.118</i>	<i>0.073</i>

Table D.5 Damage State Probabilities for Bridges

<i>Hazus ID</i>	<i>P(N)</i>	<i>P(S)</i>	<i>P(M)</i>	<i>P(E)</i>	<i>P(C)</i>
<i>TN003058</i>	<i>0.476</i>	<i>0.146</i>	<i>0.109</i>	<i>0.153</i>	<i>0.116</i>
<i>TN003059</i>	<i>0.498</i>	<i>0.145</i>	<i>0.106</i>	<i>0.146</i>	<i>0.105</i>
<i>TN003060</i>	<i>0.613</i>	<i>0.132</i>	<i>0.087</i>	<i>0.106</i>	<i>0.061</i>
<i>TN003061</i>	<i>0.522</i>	<i>0.143</i>	<i>0.102</i>	<i>0.138</i>	<i>0.095</i>
<i>TN003062</i>	<i>0.280</i>	<i>0.257</i>	<i>0.128</i>	<i>0.162</i>	<i>0.172</i>
<i>TN003063</i>	<i>0.428</i>	<i>0.142</i>	<i>0.114</i>	<i>0.171</i>	<i>0.144</i>
<i>TN003064</i>	<i>0.532</i>	<i>0.138</i>	<i>0.101</i>	<i>0.136</i>	<i>0.093</i>
<i>TN003065</i>	<i>0.502</i>	<i>0.134</i>	<i>0.107</i>	<i>0.148</i>	<i>0.109</i>
<i>TN003066</i>	<i>0.292</i>	<i>0.259</i>	<i>0.127</i>	<i>0.158</i>	<i>0.164</i>
<i>TN003067</i>	<i>0.447</i>	<i>0.147</i>	<i>0.112</i>	<i>0.163</i>	<i>0.131</i>
<i>TN003068</i>	<i>0.424</i>	<i>0.100</i>	<i>0.118</i>	<i>0.186</i>	<i>0.173</i>
<i>TN003069</i>	<i>0.327</i>	<i>0.263</i>	<i>0.123</i>	<i>0.147</i>	<i>0.140</i>
<i>TN003070</i>	<i>0.325</i>	<i>0.263</i>	<i>0.123</i>	<i>0.147</i>	<i>0.142</i>
<i>TN003071</i>	<i>0.323</i>	<i>0.263</i>	<i>0.123</i>	<i>0.148</i>	<i>0.143</i>
<i>TN003072</i>	<i>0.318</i>	<i>0.262</i>	<i>0.124</i>	<i>0.150</i>	<i>0.146</i>
<i>TN003073</i>	<i>0.314</i>	<i>0.262</i>	<i>0.125</i>	<i>0.151</i>	<i>0.148</i>
<i>TN003074</i>	<i>0.316</i>	<i>0.262</i>	<i>0.124</i>	<i>0.150</i>	<i>0.147</i>
<i>TN003075</i>	<i>0.508</i>	<i>0.144</i>	<i>0.104</i>	<i>0.142</i>	<i>0.101</i>
<i>TN003076</i>	<i>0.309</i>	<i>0.261</i>	<i>0.125</i>	<i>0.153</i>	<i>0.152</i>
<i>TN003077</i>	<i>0.496</i>	<i>0.145</i>	<i>0.106</i>	<i>0.146</i>	<i>0.106</i>
<i>TN003078</i>	<i>0.288</i>	<i>0.258</i>	<i>0.128</i>	<i>0.160</i>	<i>0.167</i>
<i>TN003079</i>	<i>0.432</i>	<i>0.147</i>	<i>0.113</i>	<i>0.168</i>	<i>0.139</i>
<i>TN003080</i>	<i>0.361</i>	<i>0.098</i>	<i>0.121</i>	<i>0.203</i>	<i>0.218</i>
<i>TN003081</i>	<i>0.209</i>	<i>0.191</i>	<i>0.132</i>	<i>0.193</i>	<i>0.276</i>
<i>TN003082</i>	<i>0.388</i>	<i>0.147</i>	<i>0.117</i>	<i>0.182</i>	<i>0.166</i>
<i>TN003083</i>	<i>0.283</i>	<i>0.230</i>	<i>0.130</i>	<i>0.168</i>	<i>0.188</i>
<i>TN003430</i>	<i>0.684</i>	<i>0.029</i>	<i>0.094</i>	<i>0.119</i>	<i>0.074</i>
<i>TN003431</i>	<i>0.715</i>	<i>0.111</i>	<i>0.067</i>	<i>0.073</i>	<i>0.034</i>
<i>TN003432</i>	<i>0.828</i>	<i>0.056</i>	<i>0.049</i>	<i>0.048</i>	<i>0.019</i>
<i>TN003433</i>	<i>0.763</i>	<i>0.087</i>	<i>0.060</i>	<i>0.063</i>	<i>0.028</i>
<i>TN003434</i>	<i>0.847</i>	<i>0.001</i>	<i>0.061</i>	<i>0.064</i>	<i>0.028</i>
<i>TN003435</i>	<i>0.887</i>	<i>0.053</i>	<i>0.029</i>	<i>0.024</i>	<i>0.007</i>
<i>TN003436</i>	<i>0.806</i>	<i>0.000</i>	<i>0.000</i>	<i>0.127</i>	<i>0.067</i>
<i>TN003437</i>	<i>0.847</i>	<i>0.037</i>	<i>0.049</i>	<i>0.048</i>	<i>0.019</i>
<i>TN003438</i>	<i>0.174</i>	<i>0.079</i>	<i>0.150</i>	<i>0.285</i>	<i>0.313</i>
<i>TN003439</i>	<i>0.174</i>	<i>0.079</i>	<i>0.150</i>	<i>0.285</i>	<i>0.313</i>
<i>TN003440</i>	<i>0.072</i>	<i>0.059</i>	<i>0.110</i>	<i>0.272</i>	<i>0.488</i>
<i>TN003441</i>	<i>0.072</i>	<i>0.059</i>	<i>0.110</i>	<i>0.272</i>	<i>0.488</i>

Table D.5 Damage State Probabilities for Bridges

<i>Hazus ID</i>	<i>P(N)</i>	<i>P(S)</i>	<i>P(M)</i>	<i>P(E)</i>	<i>P(C)</i>
<i>TN003442</i>	<i>0.690</i>	<i>0.094</i>	<i>0.078</i>	<i>0.090</i>	<i>0.047</i>
<i>TN003443</i>	<i>0.143</i>	<i>0.128</i>	<i>0.153</i>	<i>0.283</i>	<i>0.293</i>
<i>TN003444</i>	<i>0.106</i>	<i>0.140</i>	<i>0.148</i>	<i>0.286</i>	<i>0.319</i>
<i>TN003445</i>	<i>0.106</i>	<i>0.140</i>	<i>0.148</i>	<i>0.286</i>	<i>0.319</i>
<i>TN003446</i>	<i>0.130</i>	<i>0.156</i>	<i>0.156</i>	<i>0.280</i>	<i>0.277</i>
<i>TN003447</i>	<i>0.094</i>	<i>0.131</i>	<i>0.143</i>	<i>0.287</i>	<i>0.344</i>
<i>TN003448</i>	<i>0.072</i>	<i>0.112</i>	<i>0.131</i>	<i>0.285</i>	<i>0.401</i>
<i>TN003449</i>	<i>0.073</i>	<i>0.113</i>	<i>0.132</i>	<i>0.286</i>	<i>0.398</i>
<i>TN003450</i>	<i>0.370</i>	<i>0.304</i>	<i>0.163</i>	<i>0.119</i>	<i>0.044</i>
<i>TN003451</i>	<i>0.370</i>	<i>0.304</i>	<i>0.163</i>	<i>0.119</i>	<i>0.044</i>
<i>TN003452</i>	<i>0.097</i>	<i>0.125</i>	<i>0.142</i>	<i>0.287</i>	<i>0.349</i>
<i>TN003453</i>	<i>0.096</i>	<i>0.123</i>	<i>0.142</i>	<i>0.287</i>	<i>0.352</i>
<i>TN003454</i>	<i>0.104</i>	<i>0.090</i>	<i>0.134</i>	<i>0.286</i>	<i>0.385</i>
<i>TN003455</i>	<i>0.104</i>	<i>0.090</i>	<i>0.134</i>	<i>0.286</i>	<i>0.385</i>
<i>TN003456</i>	<i>0.952</i>	<i>0.000</i>	<i>0.025</i>	<i>0.017</i>	<i>0.006</i>
<i>TN003457</i>	<i>0.778</i>	<i>0.151</i>	<i>0.048</i>	<i>0.020</i>	<i>0.003</i>
<i>TN003458</i>	<i>0.743</i>	<i>0.000</i>	<i>0.095</i>	<i>0.096</i>	<i>0.066</i>
<i>TN003459</i>	<i>0.744</i>	<i>0.000</i>	<i>0.095</i>	<i>0.095</i>	<i>0.066</i>
<i>TN003460</i>	<i>0.493</i>	<i>0.251</i>	<i>0.095</i>	<i>0.095</i>	<i>0.066</i>
<i>TN003461</i>	<i>0.535</i>	<i>0.242</i>	<i>0.086</i>	<i>0.083</i>	<i>0.053</i>
<i>TN003462</i>	<i>0.535</i>	<i>0.242</i>	<i>0.086</i>	<i>0.083</i>	<i>0.053</i>
<i>TN003463</i>	<i>0.244</i>	<i>0.203</i>	<i>0.165</i>	<i>0.234</i>	<i>0.153</i>
<i>TN003464</i>	<i>0.244</i>	<i>0.203</i>	<i>0.165</i>	<i>0.234</i>	<i>0.153</i>
<i>TN003465</i>	<i>0.475</i>	<i>0.194</i>	<i>0.111</i>	<i>0.121</i>	<i>0.099</i>
<i>TN003466</i>	<i>0.475</i>	<i>0.194</i>	<i>0.111</i>	<i>0.121</i>	<i>0.099</i>
<i>TN003467</i>	<i>0.508</i>	<i>0.232</i>	<i>0.096</i>	<i>0.097</i>	<i>0.068</i>
<i>TN003468</i>	<i>0.719</i>	<i>0.000</i>	<i>0.101</i>	<i>0.104</i>	<i>0.076</i>
<i>TN003469</i>	<i>0.891</i>	<i>0.055</i>	<i>0.026</i>	<i>0.022</i>	<i>0.007</i>
<i>TN003470</i>	<i>0.866</i>	<i>0.065</i>	<i>0.032</i>	<i>0.028</i>	<i>0.009</i>
<i>TN003471</i>	<i>0.764</i>	<i>0.155</i>	<i>0.040</i>	<i>0.030</i>	<i>0.012</i>
<i>TN003472</i>	<i>0.855</i>	<i>0.071</i>	<i>0.034</i>	<i>0.030</i>	<i>0.010</i>
<i>TN003473</i>	<i>0.868</i>	<i>0.000</i>	<i>0.000</i>	<i>0.093</i>	<i>0.040</i>
<i>TN003474</i>	<i>0.828</i>	<i>0.078</i>	<i>0.041</i>	<i>0.038</i>	<i>0.014</i>
<i>TN003475</i>	<i>0.828</i>	<i>0.078</i>	<i>0.041</i>	<i>0.038</i>	<i>0.014</i>
<i>TN003476</i>	<i>0.185</i>	<i>0.173</i>	<i>0.164</i>	<i>0.264</i>	<i>0.215</i>
<i>TN003477</i>	<i>0.185</i>	<i>0.173</i>	<i>0.164</i>	<i>0.264</i>	<i>0.215</i>
<i>TN003478</i>	<i>0.921</i>	<i>0.000</i>	<i>0.039</i>	<i>0.029</i>	<i>0.012</i>
<i>TN003479</i>	<i>0.942</i>	<i>0.045</i>	<i>0.007</i>	<i>0.004</i>	<i>0.001</i>

Table D.5 Damage State Probabilities for Bridges

<i>Hazus ID</i>	<i>P(N)</i>	<i>P(S)</i>	<i>P(M)</i>	<i>P(E)</i>	<i>P(C)</i>
TN003480	0.988	0.000	0.007	0.004	0.001
TN003481	0.081	0.016	0.092	0.253	0.558
TN003482	0.736	0.075	0.071	0.079	0.039
TN003483	0.798	0.000	0.081	0.075	0.046
TN003484	0.694	0.116	0.071	0.079	0.039
TN003485	0.694	0.029	0.092	0.115	0.070
TN003486	0.694	0.082	0.080	0.094	0.050
TN003487	0.503	0.189	0.157	0.112	0.040
TN003488	0.429	0.298	0.145	0.097	0.032
TN003489	0.488	0.286	0.126	0.077	0.022
TN003490	0.408	0.301	0.151	0.104	0.035
TN003491	0.712	0.112	0.067	0.074	0.035
TN003492	0.081	0.112	0.134	0.286	0.387
TN003493	0.081	0.112	0.134	0.286	0.387
TN003494	0.396	0.302	0.155	0.109	0.038
TN003495	0.396	0.302	0.155	0.109	0.038
TN003496	0.557	0.266	0.105	0.058	0.015
TN003497	0.557	0.266	0.105	0.058	0.015
TN003498	0.542	0.271	0.109	0.062	0.016
TN003499	0.542	0.271	0.109	0.062	0.016
TN003500	0.701	0.119	0.074	0.067	0.039
TN003501	0.701	0.119	0.074	0.067	0.039
TN003502	0.586	0.256	0.096	0.051	0.012
TN003503	0.664	0.061	0.092	0.115	0.070
TN003504	0.128	0.154	0.155	0.281	0.282
TN003505	0.157	0.170	0.161	0.272	0.240
TN003506	0.139	0.121	0.151	0.284	0.304
TN003507	0.667	0.199	0.059	0.050	0.025
TN003508	0.851	0.018	0.054	0.054	0.022
TN003509	0.859	0.049	0.041	0.038	0.014
TN003510	0.902	0.014	0.038	0.034	0.012
TN003511	0.679	0.199	0.077	0.037	0.008
TN003512	0.906	0.048	0.022	0.018	0.005
TN003513	0.842	0.073	0.038	0.035	0.012
TN003514	0.895	0.000	0.049	0.039	0.018
TN003515	0.880	0.043	0.035	0.031	0.010
TN003516	0.192	0.083	0.154	0.282	0.290
TN003517	0.214	0.190	0.166	0.249	0.180

Table D.5 Damage State Probabilities for Bridges

<i>Hazus ID</i>	<i>P(N)</i>	<i>P(S)</i>	<i>P(M)</i>	<i>P(E)</i>	<i>P(C)</i>
<i>TN003518</i>	<i>0.214</i>	<i>0.190</i>	<i>0.166</i>	<i>0.249</i>	<i>0.180</i>
<i>TN003519</i>	<i>0.189</i>	<i>0.185</i>	<i>0.165</i>	<i>0.259</i>	<i>0.202</i>
<i>TN003520</i>	<i>0.189</i>	<i>0.185</i>	<i>0.165</i>	<i>0.259</i>	<i>0.202</i>
<i>TN003521</i>	<i>0.826</i>	<i>0.000</i>	<i>0.000</i>	<i>0.117</i>	<i>0.057</i>
<i>TN003522</i>	<i>0.604</i>	<i>0.242</i>	<i>0.094</i>	<i>0.049</i>	<i>0.012</i>
<i>TN003523</i>	<i>0.607</i>	<i>0.247</i>	<i>0.089</i>	<i>0.046</i>	<i>0.011</i>
<i>TN003524</i>	<i>0.607</i>	<i>0.247</i>	<i>0.089</i>	<i>0.046</i>	<i>0.011</i>
<i>TN003525</i>	<i>0.183</i>	<i>0.129</i>	<i>0.160</i>	<i>0.275</i>	<i>0.253</i>
<i>TN003526</i>	<i>0.772</i>	<i>0.069</i>	<i>0.063</i>	<i>0.066</i>	<i>0.030</i>
<i>TN003527</i>	<i>0.729</i>	<i>0.000</i>	<i>0.098</i>	<i>0.100</i>	<i>0.072</i>
<i>TN003528</i>	<i>0.358</i>	<i>0.303</i>	<i>0.167</i>	<i>0.125</i>	<i>0.047</i>
<i>TN003529</i>	<i>0.380</i>	<i>0.304</i>	<i>0.160</i>	<i>0.115</i>	<i>0.042</i>
<i>TN003530</i>	<i>0.749</i>	<i>0.000</i>	<i>0.094</i>	<i>0.093</i>	<i>0.064</i>
<i>TN003531</i>	<i>0.728</i>	<i>0.027</i>	<i>0.085</i>	<i>0.102</i>	<i>0.058</i>
<i>TN003532</i>	<i>0.884</i>	<i>0.054</i>	<i>0.029</i>	<i>0.025</i>	<i>0.008</i>
<i>TN003533</i>	<i>0.818</i>	<i>0.066</i>	<i>0.049</i>	<i>0.048</i>	<i>0.019</i>
<i>TN003534</i>	<i>0.800</i>	<i>0.000</i>	<i>0.080</i>	<i>0.074</i>	<i>0.045</i>
<i>TN003535</i>	<i>0.800</i>	<i>0.000</i>	<i>0.080</i>	<i>0.074</i>	<i>0.045</i>
<i>TN003536</i>	<i>0.781</i>	<i>0.093</i>	<i>0.052</i>	<i>0.052</i>	<i>0.021</i>
<i>TN003537</i>	<i>0.705</i>	<i>0.114</i>	<i>0.069</i>	<i>0.076</i>	<i>0.036</i>
<i>TN003538</i>	<i>0.463</i>	<i>0.122</i>	<i>0.123</i>	<i>0.148</i>	<i>0.143</i>
<i>TN003539</i>	<i>0.463</i>	<i>0.122</i>	<i>0.123</i>	<i>0.148</i>	<i>0.143</i>
<i>TN003540</i>	<i>0.641</i>	<i>0.031</i>	<i>0.101</i>	<i>0.135</i>	<i>0.092</i>
<i>TN003541</i>	<i>0.700</i>	<i>0.115</i>	<i>0.070</i>	<i>0.078</i>	<i>0.038</i>
<i>TN003542</i>	<i>0.700</i>	<i>0.081</i>	<i>0.079</i>	<i>0.092</i>	<i>0.048</i>
<i>TN003543</i>	<i>0.740</i>	<i>0.000</i>	<i>0.096</i>	<i>0.096</i>	<i>0.067</i>
<i>TN003544</i>	<i>0.688</i>	<i>0.118</i>	<i>0.072</i>	<i>0.081</i>	<i>0.040</i>
<i>TN003545</i>	<i>0.398</i>	<i>0.292</i>	<i>0.158</i>	<i>0.112</i>	<i>0.040</i>
<i>TN003546</i>	<i>0.700</i>	<i>0.115</i>	<i>0.070</i>	<i>0.078</i>	<i>0.038</i>
<i>TN003547</i>	<i>0.714</i>	<i>0.112</i>	<i>0.067</i>	<i>0.073</i>	<i>0.034</i>
<i>TN003548</i>	<i>0.848</i>	<i>0.067</i>	<i>0.038</i>	<i>0.035</i>	<i>0.012</i>
<i>TN003549</i>	<i>0.150</i>	<i>0.157</i>	<i>0.159</i>	<i>0.277</i>	<i>0.258</i>
<i>TN003550</i>	<i>0.150</i>	<i>0.167</i>	<i>0.160</i>	<i>0.274</i>	<i>0.249</i>
<i>TN003551</i>	<i>0.694</i>	<i>0.116</i>	<i>0.071</i>	<i>0.079</i>	<i>0.039</i>
<i>TN005142</i>	<i>0.039</i>	<i>0.054</i>	<i>0.090</i>	<i>0.250</i>	<i>0.566</i>
<i>TN005143</i>	<i>0.700</i>	<i>0.115</i>	<i>0.070</i>	<i>0.078</i>	<i>0.038</i>
<i>TN005144</i>	<i>0.588</i>	<i>0.000</i>	<i>0.123</i>	<i>0.147</i>	<i>0.142</i>
<i>TN005145</i>	<i>0.066</i>	<i>0.106</i>	<i>0.127</i>	<i>0.284</i>	<i>0.417</i>

Table D.5 Damage State Probabilities for Bridges

<i>Hazus ID</i>	<i>P(N)</i>	<i>P(S)</i>	<i>P(M)</i>	<i>P(E)</i>	<i>P(C)</i>
<i>TN005146</i>	<i>0.663</i>	<i>0.123</i>	<i>0.078</i>	<i>0.090</i>	<i>0.047</i>
<i>TN005147</i>	<i>0.664</i>	<i>0.114</i>	<i>0.080</i>	<i>0.093</i>	<i>0.050</i>
<i>TN005148</i>	<i>0.652</i>	<i>0.112</i>	<i>0.083</i>	<i>0.099</i>	<i>0.054</i>
<i>TN005149</i>	<i>0.738</i>	<i>0.000</i>	<i>0.089</i>	<i>0.109</i>	<i>0.064</i>
<i>TN005150</i>	<i>0.687</i>	<i>0.118</i>	<i>0.073</i>	<i>0.082</i>	<i>0.041</i>
<i>TN005151</i>	<i>0.387</i>	<i>0.303</i>	<i>0.158</i>	<i>0.112</i>	<i>0.040</i>
<i>TN005152</i>	<i>0.380</i>	<i>0.304</i>	<i>0.160</i>	<i>0.115</i>	<i>0.042</i>
<i>TN005153</i>	<i>0.684</i>	<i>0.118</i>	<i>0.073</i>	<i>0.083</i>	<i>0.041</i>
<i>TN005154</i>	<i>0.658</i>	<i>0.124</i>	<i>0.079</i>	<i>0.091</i>	<i>0.048</i>
<i>TN005155</i>	<i>0.471</i>	<i>0.246</i>	<i>0.101</i>	<i>0.105</i>	<i>0.077</i>
<i>TN005156</i>	<i>0.646</i>	<i>0.089</i>	<i>0.089</i>	<i>0.111</i>	<i>0.065</i>
<i>TN005157</i>	<i>0.646</i>	<i>0.089</i>	<i>0.089</i>	<i>0.111</i>	<i>0.065</i>
<i>TN005158</i>	<i>0.652</i>	<i>0.030</i>	<i>0.099</i>	<i>0.131</i>	<i>0.087</i>
<i>TN005159</i>	<i>0.616</i>	<i>0.092</i>	<i>0.095</i>	<i>0.121</i>	<i>0.076</i>
<i>TN005160</i>	<i>0.680</i>	<i>0.111</i>	<i>0.076</i>	<i>0.087</i>	<i>0.045</i>
<i>TN005161</i>	<i>0.677</i>	<i>0.120</i>	<i>0.075</i>	<i>0.085</i>	<i>0.043</i>
<i>TN005162</i>	<i>0.735</i>	<i>0.000</i>	<i>0.097</i>	<i>0.098</i>	<i>0.070</i>
<i>TN005163</i>	<i>0.659</i>	<i>0.115</i>	<i>0.081</i>	<i>0.095</i>	<i>0.051</i>
<i>TN005164</i>	<i>0.647</i>	<i>0.000</i>	<i>0.115</i>	<i>0.129</i>	<i>0.110</i>
<i>TN005165</i>	<i>0.618</i>	<i>0.131</i>	<i>0.086</i>	<i>0.105</i>	<i>0.060</i>
<i>TN005166</i>	<i>0.505</i>	<i>0.000</i>	<i>0.119</i>	<i>0.191</i>	<i>0.185</i>
<i>TN005167</i>	<i>0.040</i>	<i>0.076</i>	<i>0.103</i>	<i>0.265</i>	<i>0.516</i>
<i>TN005168</i>	<i>0.671</i>	<i>0.000</i>	<i>0.110</i>	<i>0.121</i>	<i>0.098</i>
<i>TN005169</i>	<i>0.031</i>	<i>0.065</i>	<i>0.092</i>	<i>0.253</i>	<i>0.559</i>
<i>TN005170</i>	<i>0.631</i>	<i>0.129</i>	<i>0.084</i>	<i>0.100</i>	<i>0.056</i>
<i>TN005171</i>	<i>0.662</i>	<i>0.000</i>	<i>0.112</i>	<i>0.124</i>	<i>0.102</i>
<i>TN005172</i>	<i>0.565</i>	<i>0.000</i>	<i>0.115</i>	<i>0.173</i>	<i>0.147</i>
<i>TN005173</i>	<i>0.069</i>	<i>0.080</i>	<i>0.118</i>	<i>0.279</i>	<i>0.454</i>
<i>TN005174</i>	<i>0.074</i>	<i>0.046</i>	<i>0.105</i>	<i>0.267</i>	<i>0.508</i>
<i>TN005175</i>	<i>0.699</i>	<i>0.107</i>	<i>0.072</i>	<i>0.081</i>	<i>0.040</i>
<i>TN005176</i>	<i>0.048</i>	<i>0.087</i>	<i>0.112</i>	<i>0.274</i>	<i>0.480</i>
<i>TN005177</i>	<i>0.572</i>	<i>0.138</i>	<i>0.094</i>	<i>0.120</i>	<i>0.075</i>
<i>TN005178</i>	<i>0.054</i>	<i>0.094</i>	<i>0.117</i>	<i>0.278</i>	<i>0.457</i>
<i>TN005179</i>	<i>0.599</i>	<i>0.093</i>	<i>0.098</i>	<i>0.127</i>	<i>0.083</i>
<i>TN005180</i>	<i>0.049</i>	<i>0.088</i>	<i>0.113</i>	<i>0.275</i>	<i>0.476</i>
<i>TN005181</i>	<i>0.060</i>	<i>0.100</i>	<i>0.123</i>	<i>0.281</i>	<i>0.435</i>
<i>TN005182</i>	<i>0.060</i>	<i>0.100</i>	<i>0.122</i>	<i>0.281</i>	<i>0.438</i>
<i>TN005183</i>	<i>0.607</i>	<i>0.000</i>	<i>0.000</i>	<i>0.211</i>	<i>0.181</i>

Table D.5 Damage State Probabilities for Bridges

<i>Hazus ID</i>	<i>P(N)</i>	<i>P(S)</i>	<i>P(M)</i>	<i>P(E)</i>	<i>P(C)</i>
<i>TN005184</i>	<i>0.507</i>	<i>0.145</i>	<i>0.104</i>	<i>0.143</i>	<i>0.102</i>
<i>TN005185</i>	<i>0.030</i>	<i>0.064</i>	<i>0.091</i>	<i>0.252</i>	<i>0.563</i>
<i>TN005186</i>	<i>0.598</i>	<i>0.134</i>	<i>0.090</i>	<i>0.111</i>	<i>0.066</i>
<i>TN005187</i>	<i>0.569</i>	<i>0.138</i>	<i>0.095</i>	<i>0.121</i>	<i>0.077</i>
<i>TN005188</i>	<i>0.579</i>	<i>0.137</i>	<i>0.093</i>	<i>0.118</i>	<i>0.073</i>
<i>TN005189</i>	<i>0.579</i>	<i>0.137</i>	<i>0.093</i>	<i>0.118</i>	<i>0.073</i>
<i>TN005190</i>	<i>0.609</i>	<i>0.000</i>	<i>0.120</i>	<i>0.141</i>	<i>0.130</i>
<i>TN005191</i>	<i>0.703</i>	<i>0.092</i>	<i>0.075</i>	<i>0.086</i>	<i>0.044</i>
<i>TN005192</i>	<i>0.698</i>	<i>0.028</i>	<i>0.091</i>	<i>0.114</i>	<i>0.069</i>
<i>TN005193</i>	<i>0.729</i>	<i>0.000</i>	<i>0.098</i>	<i>0.100</i>	<i>0.072</i>
<i>TN005194</i>	<i>0.578</i>	<i>0.127</i>	<i>0.095</i>	<i>0.122</i>	<i>0.077</i>
<i>TN005195</i>	<i>0.577</i>	<i>0.048</i>	<i>0.108</i>	<i>0.152</i>	<i>0.115</i>
<i>TN007709</i>	<i>0.749</i>	<i>0.103</i>	<i>0.059</i>	<i>0.062</i>	<i>0.027</i>
<i>TN008620</i>	<i>0.377</i>	<i>0.146</i>	<i>0.118</i>	<i>0.186</i>	<i>0.173</i>
<i>TN008621</i>	<i>0.006</i>	<i>0.006</i>	<i>0.021</i>	<i>0.102</i>	<i>0.866</i>
<i>TN008622</i>	<i>0.341</i>	<i>0.144</i>	<i>0.120</i>	<i>0.196</i>	<i>0.199</i>
<i>TN008623</i>	<i>0.011</i>	<i>0.031</i>	<i>0.053</i>	<i>0.188</i>	<i>0.718</i>
<i>TN008624</i>	<i>0.450</i>	<i>0.082</i>	<i>0.118</i>	<i>0.183</i>	<i>0.168</i>
<i>TN008625</i>	<i>0.569</i>	<i>0.000</i>	<i>0.125</i>	<i>0.153</i>	<i>0.153</i>
<i>TN008626</i>	<i>0.307</i>	<i>0.140</i>	<i>0.121</i>	<i>0.206</i>	<i>0.226</i>
<i>TN008627</i>	<i>0.324</i>	<i>0.140</i>	<i>0.121</i>	<i>0.202</i>	<i>0.214</i>
<i>TN008628</i>	<i>0.286</i>	<i>0.029</i>	<i>0.114</i>	<i>0.227</i>	<i>0.344</i>
<i>TN008629</i>	<i>0.377</i>	<i>0.146</i>	<i>0.118</i>	<i>0.186</i>	<i>0.173</i>
<i>TN008630</i>	<i>0.320</i>	<i>0.030</i>	<i>0.118</i>	<i>0.224</i>	<i>0.309</i>
<i>TN008631</i>	<i>0.010</i>	<i>0.029</i>	<i>0.051</i>	<i>0.183</i>	<i>0.727</i>
<i>TN008632</i>	<i>0.377</i>	<i>0.135</i>	<i>0.119</i>	<i>0.189</i>	<i>0.181</i>
<i>TN008633</i>	<i>0.403</i>	<i>0.100</i>	<i>0.119</i>	<i>0.192</i>	<i>0.187</i>
<i>TN008634</i>	<i>0.337</i>	<i>0.144</i>	<i>0.120</i>	<i>0.197</i>	<i>0.201</i>
<i>TN008635</i>	<i>0.387</i>	<i>0.099</i>	<i>0.120</i>	<i>0.196</i>	<i>0.198</i>
<i>TN008636</i>	<i>0.309</i>	<i>0.094</i>	<i>0.120</i>	<i>0.215</i>	<i>0.262</i>
<i>TN008637</i>	<i>0.354</i>	<i>0.031</i>	<i>0.120</i>	<i>0.218</i>	<i>0.276</i>
<i>TN008638</i>	<i>0.370</i>	<i>0.141</i>	<i>0.119</i>	<i>0.189</i>	<i>0.181</i>
<i>TN008639</i>	<i>0.009</i>	<i>0.027</i>	<i>0.048</i>	<i>0.176</i>	<i>0.740</i>
<i>TN008640</i>	<i>0.447</i>	<i>0.136</i>	<i>0.113</i>	<i>0.167</i>	<i>0.137</i>
<i>TN008641</i>	<i>0.344</i>	<i>0.144</i>	<i>0.120</i>	<i>0.196</i>	<i>0.196</i>
<i>TN008642</i>	<i>0.432</i>	<i>0.147</i>	<i>0.114</i>	<i>0.168</i>	<i>0.139</i>
<i>TN008643</i>	<i>0.424</i>	<i>0.100</i>	<i>0.118</i>	<i>0.185</i>	<i>0.172</i>
<i>TN008644</i>	<i>0.424</i>	<i>0.147</i>	<i>0.114</i>	<i>0.170</i>	<i>0.143</i>

Table D.5 Damage State Probabilities for Bridges

<i>Hazus ID</i>	<i>P(N)</i>	<i>P(S)</i>	<i>P(M)</i>	<i>P(E)</i>	<i>P(C)</i>
<i>TN008646</i>	<i>0.425</i>	<i>0.100</i>	<i>0.118</i>	<i>0.185</i>	<i>0.172</i>
<i>TN008647</i>	<i>0.370</i>	<i>0.134</i>	<i>0.119</i>	<i>0.191</i>	<i>0.186</i>
<i>TN008648</i>	<i>0.256</i>	<i>0.132</i>	<i>0.120</i>	<i>0.218</i>	<i>0.274</i>
<i>TN008649</i>	<i>0.256</i>	<i>0.132</i>	<i>0.120</i>	<i>0.218</i>	<i>0.274</i>
<i>TN008650</i>	<i>0.364</i>	<i>0.146</i>	<i>0.119</i>	<i>0.190</i>	<i>0.182</i>
<i>TN008651</i>	<i>0.285</i>	<i>0.126</i>	<i>0.120</i>	<i>0.214</i>	<i>0.255</i>
<i>TN008652</i>	<i>0.260</i>	<i>0.133</i>	<i>0.120</i>	<i>0.217</i>	<i>0.271</i>
<i>TN008653</i>	<i>0.287</i>	<i>0.138</i>	<i>0.121</i>	<i>0.211</i>	<i>0.244</i>
<i>TN008654</i>	<i>0.243</i>	<i>0.125</i>	<i>0.119</i>	<i>0.221</i>	<i>0.293</i>
<i>TN008655</i>	<i>0.198</i>	<i>0.109</i>	<i>0.113</i>	<i>0.227</i>	<i>0.352</i>
<i>TN008656</i>	<i>0.308</i>	<i>0.140</i>	<i>0.121</i>	<i>0.206</i>	<i>0.225</i>
<i>TN008657</i>	<i>0.328</i>	<i>0.131</i>	<i>0.121</i>	<i>0.203</i>	<i>0.218</i>
<i>TN008658</i>	<i>0.268</i>	<i>0.134</i>	<i>0.120</i>	<i>0.215</i>	<i>0.262</i>
<i>TN008659</i>	<i>0.325</i>	<i>0.142</i>	<i>0.120</i>	<i>0.201</i>	<i>0.211</i>
<i>TN008660</i>	<i>0.272</i>	<i>0.135</i>	<i>0.120</i>	<i>0.215</i>	<i>0.258</i>
<i>TN008661</i>	<i>0.269</i>	<i>0.123</i>	<i>0.120</i>	<i>0.217</i>	<i>0.271</i>
<i>TN008662</i>	<i>0.265</i>	<i>0.028</i>	<i>0.112</i>	<i>0.228</i>	<i>0.367</i>
<i>TN008663</i>	<i>0.264</i>	<i>0.134</i>	<i>0.120</i>	<i>0.216</i>	<i>0.266</i>
<i>TN008665</i>	<i>0.370</i>	<i>0.146</i>	<i>0.119</i>	<i>0.188</i>	<i>0.178</i>
<i>TN008666</i>	<i>0.320</i>	<i>0.142</i>	<i>0.121</i>	<i>0.202</i>	<i>0.215</i>
<i>TN008667</i>	<i>0.304</i>	<i>0.093</i>	<i>0.120</i>	<i>0.216</i>	<i>0.267</i>
<i>TN008668</i>	<i>0.329</i>	<i>0.143</i>	<i>0.120</i>	<i>0.200</i>	<i>0.208</i>
<i>TN008669</i>	<i>0.352</i>	<i>0.145</i>	<i>0.120</i>	<i>0.193</i>	<i>0.191</i>
<i>TN008670</i>	<i>0.318</i>	<i>0.130</i>	<i>0.121</i>	<i>0.206</i>	<i>0.226</i>
<i>TN008671</i>	<i>0.298</i>	<i>0.128</i>	<i>0.121</i>	<i>0.211</i>	<i>0.243</i>
<i>TN008672</i>	<i>0.367</i>	<i>0.032</i>	<i>0.120</i>	<i>0.216</i>	<i>0.265</i>
<i>TN008673</i>	<i>0.355</i>	<i>0.124</i>	<i>0.120</i>	<i>0.198</i>	<i>0.203</i>
<i>TN008674</i>	<i>0.376</i>	<i>0.146</i>	<i>0.118</i>	<i>0.186</i>	<i>0.174</i>
<i>TN008675</i>	<i>0.397</i>	<i>0.136</i>	<i>0.118</i>	<i>0.183</i>	<i>0.167</i>
<i>TN008676</i>	<i>0.322</i>	<i>0.142</i>	<i>0.121</i>	<i>0.202</i>	<i>0.213</i>
<i>TN008677</i>	<i>0.355</i>	<i>0.097</i>	<i>0.121</i>	<i>0.205</i>	<i>0.222</i>
<i>TN008678</i>	<i>0.319</i>	<i>0.142</i>	<i>0.121</i>	<i>0.203</i>	<i>0.216</i>
<i>TN008679</i>	<i>0.449</i>	<i>0.033</i>	<i>0.120</i>	<i>0.197</i>	<i>0.201</i>
<i>TN008680</i>	<i>0.395</i>	<i>0.147</i>	<i>0.117</i>	<i>0.180</i>	<i>0.161</i>
<i>TN008681</i>	<i>0.379</i>	<i>0.146</i>	<i>0.118</i>	<i>0.185</i>	<i>0.172</i>
<i>TN008682</i>	<i>0.411</i>	<i>0.147</i>	<i>0.116</i>	<i>0.175</i>	<i>0.151</i>
<i>TN008683</i>	<i>0.427</i>	<i>0.147</i>	<i>0.114</i>	<i>0.170</i>	<i>0.142</i>
<i>TN008684</i>	<i>0.435</i>	<i>0.147</i>	<i>0.113</i>	<i>0.167</i>	<i>0.138</i>

Table D.5 Damage State Probabilities for Bridges

<i>Hazus ID</i>	<i>P(N)</i>	<i>P(S)</i>	<i>P(M)</i>	<i>P(E)</i>	<i>P(C)</i>
<i>TN008685</i>	<i>0.426</i>	<i>0.147</i>	<i>0.114</i>	<i>0.170</i>	<i>0.143</i>
<i>TN008686</i>	<i>0.394</i>	<i>0.114</i>	<i>0.119</i>	<i>0.190</i>	<i>0.183</i>
<i>TN008687</i>	<i>0.446</i>	<i>0.147</i>	<i>0.112</i>	<i>0.163</i>	<i>0.131</i>
<i>TN008688</i>	<i>0.190</i>	<i>0.161</i>	<i>0.208</i>	<i>0.250</i>	<i>0.192</i>
<i>TN008689</i>	<i>0.253</i>	<i>0.203</i>	<i>0.133</i>	<i>0.182</i>	<i>0.229</i>
<i>TN008690</i>	<i>0.451</i>	<i>0.136</i>	<i>0.113</i>	<i>0.165</i>	<i>0.135</i>
<i>TN008691</i>	<i>0.133</i>	<i>0.238</i>	<i>0.209</i>	<i>0.243</i>	<i>0.177</i>
<i>TN008692</i>	<i>0.357</i>	<i>0.031</i>	<i>0.120</i>	<i>0.218</i>	<i>0.274</i>
<i>TN008693</i>	<i>0.373</i>	<i>0.113</i>	<i>0.120</i>	<i>0.196</i>	<i>0.197</i>
<i>TN008694</i>	<i>0.368</i>	<i>0.141</i>	<i>0.119</i>	<i>0.190</i>	<i>0.183</i>
<i>TN008695</i>	<i>0.391</i>	<i>0.122</i>	<i>0.119</i>	<i>0.189</i>	<i>0.180</i>
<i>TN008696</i>	<i>0.350</i>	<i>0.145</i>	<i>0.120</i>	<i>0.194</i>	<i>0.192</i>
<i>TN008697</i>	<i>0.358</i>	<i>0.143</i>	<i>0.119</i>	<i>0.192</i>	<i>0.188</i>
<i>TN008698</i>	<i>0.329</i>	<i>0.031</i>	<i>0.118</i>	<i>0.222</i>	<i>0.300</i>
<i>TN008699</i>	<i>0.009</i>	<i>0.015</i>	<i>0.035</i>	<i>0.144</i>	<i>0.797</i>
<i>TN008700</i>	<i>0.354</i>	<i>0.031</i>	<i>0.120</i>	<i>0.218</i>	<i>0.277</i>
<i>TN008701</i>	<i>0.338</i>	<i>0.132</i>	<i>0.120</i>	<i>0.200</i>	<i>0.209</i>
<i>TN008702</i>	<i>0.476</i>	<i>0.146</i>	<i>0.108</i>	<i>0.153</i>	<i>0.116</i>
<i>TN008703</i>	<i>0.384</i>	<i>0.147</i>	<i>0.118</i>	<i>0.183</i>	<i>0.168</i>
<i>TN008704</i>	<i>0.470</i>	<i>0.147</i>	<i>0.109</i>	<i>0.155</i>	<i>0.119</i>
<i>TN008705</i>	<i>0.280</i>	<i>0.125</i>	<i>0.120</i>	<i>0.215</i>	<i>0.260</i>
<i>TN008706</i>	<i>0.294</i>	<i>0.127</i>	<i>0.121</i>	<i>0.212</i>	<i>0.246</i>
<i>TN008707</i>	<i>0.298</i>	<i>0.137</i>	<i>0.121</i>	<i>0.209</i>	<i>0.236</i>
<i>TN008708</i>	<i>0.336</i>	<i>0.143</i>	<i>0.120</i>	<i>0.198</i>	<i>0.202</i>
<i>TN008709</i>	<i>0.373</i>	<i>0.146</i>	<i>0.118</i>	<i>0.187</i>	<i>0.175</i>
<i>TN008711</i>	<i>0.306</i>	<i>0.140</i>	<i>0.121</i>	<i>0.206</i>	<i>0.227</i>
<i>TN008712</i>	<i>0.322</i>	<i>0.122</i>	<i>0.121</i>	<i>0.207</i>	<i>0.229</i>
<i>TN008713</i>	<i>0.347</i>	<i>0.133</i>	<i>0.120</i>	<i>0.198</i>	<i>0.202</i>
<i>TN008714</i>	<i>0.257</i>	<i>0.027</i>	<i>0.111</i>	<i>0.228</i>	<i>0.377</i>
<i>TN008715</i>	<i>0.297</i>	<i>0.092</i>	<i>0.120</i>	<i>0.218</i>	<i>0.273</i>
<i>TN008716</i>	<i>0.315</i>	<i>0.072</i>	<i>0.120</i>	<i>0.218</i>	<i>0.275</i>
<i>TN008717</i>	<i>0.435</i>	<i>0.000</i>	<i>0.133</i>	<i>0.186</i>	<i>0.246</i>
<i>TN008718</i>	<i>0.253</i>	<i>0.132</i>	<i>0.120</i>	<i>0.218</i>	<i>0.277</i>
<i>TN008719</i>	<i>0.404</i>	<i>0.147</i>	<i>0.116</i>	<i>0.177</i>	<i>0.155</i>
<i>TN008720</i>	<i>0.377</i>	<i>0.135</i>	<i>0.119</i>	<i>0.189</i>	<i>0.181</i>
<i>TN008721</i>	<i>0.471</i>	<i>0.136</i>	<i>0.111</i>	<i>0.159</i>	<i>0.124</i>
<i>TN008722</i>	<i>0.018</i>	<i>0.044</i>	<i>0.069</i>	<i>0.219</i>	<i>0.650</i>
<i>TN008723</i>	<i>0.188</i>	<i>0.228</i>	<i>0.133</i>	<i>0.190</i>	<i>0.262</i>

Table D.5 Damage State Probabilities for Bridges

<i>Hazus ID</i>	<i>P(N)</i>	<i>P(S)</i>	<i>P(M)</i>	<i>P(E)</i>	<i>P(C)</i>
<i>TN008724</i>	<i>0.146</i>	<i>0.196</i>	<i>0.129</i>	<i>0.201</i>	<i>0.329</i>
<i>TN008725</i>	<i>0.170</i>	<i>0.220</i>	<i>0.132</i>	<i>0.194</i>	<i>0.284</i>
<i>TN008726</i>	<i>0.223</i>	<i>0.237</i>	<i>0.132</i>	<i>0.181</i>	<i>0.226</i>
<i>TN008727</i>	<i>0.141</i>	<i>0.203</i>	<i>0.129</i>	<i>0.200</i>	<i>0.326</i>
<i>TN008728</i>	<i>0.418</i>	<i>0.000</i>	<i>0.133</i>	<i>0.190</i>	<i>0.259</i>
<i>TN008729</i>	<i>0.155</i>	<i>0.212</i>	<i>0.131</i>	<i>0.198</i>	<i>0.305</i>
<i>TN008730</i>	<i>0.197</i>	<i>0.118</i>	<i>0.114</i>	<i>0.227</i>	<i>0.343</i>
<i>TN008731</i>	<i>0.008</i>	<i>0.023</i>	<i>0.043</i>	<i>0.164</i>	<i>0.762</i>
<i>TN008732</i>	<i>0.004</i>	<i>0.014</i>	<i>0.029</i>	<i>0.128</i>	<i>0.825</i>
<i>TN008733</i>	<i>0.004</i>	<i>0.014</i>	<i>0.028</i>	<i>0.125</i>	<i>0.830</i>
<i>TN008734</i>	<i>0.004</i>	<i>0.013</i>	<i>0.026</i>	<i>0.119</i>	<i>0.839</i>
<i>TN008735</i>	<i>0.252</i>	<i>0.131</i>	<i>0.119</i>	<i>0.219</i>	<i>0.278</i>
<i>TN008736</i>	<i>0.309</i>	<i>0.000</i>	<i>0.000</i>	<i>0.247</i>	<i>0.444</i>
<i>TN008737</i>	<i>0.343</i>	<i>0.144</i>	<i>0.120</i>	<i>0.196</i>	<i>0.197</i>
<i>TN008738</i>	<i>0.326</i>	<i>0.142</i>	<i>0.120</i>	<i>0.201</i>	<i>0.210</i>
<i>TN008739</i>	<i>0.255</i>	<i>0.132</i>	<i>0.120</i>	<i>0.218</i>	<i>0.275</i>
<i>TN008740</i>	<i>0.297</i>	<i>0.139</i>	<i>0.121</i>	<i>0.208</i>	<i>0.235</i>
<i>TN008741</i>	<i>0.007</i>	<i>0.019</i>	<i>0.037</i>	<i>0.150</i>	<i>0.787</i>
<i>TN008742</i>	<i>0.278</i>	<i>0.136</i>	<i>0.120</i>	<i>0.213</i>	<i>0.252</i>
<i>TN008743</i>	<i>0.084</i>	<i>0.139</i>	<i>0.186</i>	<i>0.281</i>	<i>0.310</i>
<i>TN008744</i>	<i>0.211</i>	<i>0.025</i>	<i>0.103</i>	<i>0.227</i>	<i>0.435</i>
<i>TN008745</i>	<i>0.165</i>	<i>0.218</i>	<i>0.132</i>	<i>0.195</i>	<i>0.290</i>
<i>TN008746</i>	<i>0.184</i>	<i>0.225</i>	<i>0.133</i>	<i>0.191</i>	<i>0.268</i>
<i>TN008747</i>	<i>0.197</i>	<i>0.221</i>	<i>0.133</i>	<i>0.190</i>	<i>0.259</i>
<i>TN008748</i>	<i>0.185</i>	<i>0.216</i>	<i>0.132</i>	<i>0.192</i>	<i>0.273</i>
<i>TN008749</i>	<i>0.154</i>	<i>0.110</i>	<i>0.119</i>	<i>0.204</i>	<i>0.413</i>
<i>TN008750</i>	<i>0.177</i>	<i>0.118</i>	<i>0.124</i>	<i>0.204</i>	<i>0.378</i>
<i>TN008751</i>	<i>0.185</i>	<i>0.120</i>	<i>0.125</i>	<i>0.203</i>	<i>0.366</i>
<i>TN008752</i>	<i>0.199</i>	<i>0.196</i>	<i>0.132</i>	<i>0.193</i>	<i>0.279</i>
<i>TN008754</i>	<i>0.364</i>	<i>0.000</i>	<i>0.131</i>	<i>0.198</i>	<i>0.308</i>
<i>TN008755</i>	<i>0.457</i>	<i>0.082</i>	<i>0.117</i>	<i>0.181</i>	<i>0.163</i>
<i>TN008756</i>	<i>0.435</i>	<i>0.136</i>	<i>0.114</i>	<i>0.171</i>	<i>0.144</i>
<i>TN008757</i>	<i>0.451</i>	<i>0.050</i>	<i>0.119</i>	<i>0.192</i>	<i>0.188</i>
<i>TN008758</i>	<i>0.346</i>	<i>0.097</i>	<i>0.121</i>	<i>0.207</i>	<i>0.229</i>
<i>TN008759</i>	<i>0.322</i>	<i>0.142</i>	<i>0.121</i>	<i>0.202</i>	<i>0.213</i>
<i>TN008760</i>	<i>0.319</i>	<i>0.142</i>	<i>0.121</i>	<i>0.203</i>	<i>0.216</i>
<i>TN009385</i>	<i>0.484</i>	<i>0.130</i>	<i>0.110</i>	<i>0.156</i>	<i>0.120</i>
<i>TN010956</i>	<i>0.714</i>	<i>0.104</i>	<i>0.069</i>	<i>0.076</i>	<i>0.037</i>

Table D.5 Damage State Probabilities for Bridges

<i>Hazus ID</i>	<i>P(N)</i>	<i>P(S)</i>	<i>P(M)</i>	<i>P(E)</i>	<i>P(C)</i>
<i>TN011004</i>	<i>0.885</i>	<i>0.057</i>	<i>0.028</i>	<i>0.023</i>	<i>0.007</i>
<i>TN012349</i>	<i>0.545</i>	<i>0.141</i>	<i>0.099</i>	<i>0.129</i>	<i>0.085</i>
<i>TN012350</i>	<i>0.531</i>	<i>0.143</i>	<i>0.101</i>	<i>0.135</i>	<i>0.091</i>
<i>TN012351</i>	<i>0.525</i>	<i>0.143</i>	<i>0.102</i>	<i>0.136</i>	<i>0.094</i>
<i>TN012352</i>	<i>0.029</i>	<i>0.059</i>	<i>0.087</i>	<i>0.246</i>	<i>0.580</i>
<i>TN012353</i>	<i>0.513</i>	<i>0.144</i>	<i>0.103</i>	<i>0.140</i>	<i>0.099</i>
<i>TN012354</i>	<i>0.513</i>	<i>0.144</i>	<i>0.103</i>	<i>0.140</i>	<i>0.099</i>
<i>TN012355</i>	<i>0.530</i>	<i>0.000</i>	<i>0.129</i>	<i>0.164</i>	<i>0.177</i>
<i>TN012356</i>	<i>0.521</i>	<i>0.000</i>	<i>0.130</i>	<i>0.166</i>	<i>0.183</i>
<i>TN012357</i>	<i>0.439</i>	<i>0.139</i>	<i>0.114</i>	<i>0.168</i>	<i>0.140</i>
<i>TN012358</i>	<i>0.508</i>	<i>0.099</i>	<i>0.110</i>	<i>0.159</i>	<i>0.124</i>
<i>TN012359</i>	<i>0.013</i>	<i>0.036</i>	<i>0.059</i>	<i>0.201</i>	<i>0.691</i>
<i>TN012360</i>	<i>0.479</i>	<i>0.135</i>	<i>0.110</i>	<i>0.156</i>	<i>0.120</i>
<i>TN012361</i>	<i>0.508</i>	<i>0.144</i>	<i>0.104</i>	<i>0.142</i>	<i>0.101</i>
<i>TN012362</i>	<i>0.448</i>	<i>0.147</i>	<i>0.112</i>	<i>0.163</i>	<i>0.130</i>
<i>TN012363</i>	<i>0.514</i>	<i>0.133</i>	<i>0.105</i>	<i>0.144</i>	<i>0.103</i>
<i>TN012364</i>	<i>0.447</i>	<i>0.147</i>	<i>0.112</i>	<i>0.163</i>	<i>0.131</i>
<i>TN012365</i>	<i>0.525</i>	<i>0.143</i>	<i>0.102</i>	<i>0.136</i>	<i>0.094</i>
<i>TN012366</i>	<i>0.384</i>	<i>0.000</i>	<i>0.132</i>	<i>0.195</i>	<i>0.289</i>
<i>TN012367</i>	<i>0.310</i>	<i>0.261</i>	<i>0.125</i>	<i>0.152</i>	<i>0.151</i>
<i>TN012368</i>	<i>0.512</i>	<i>0.144</i>	<i>0.104</i>	<i>0.141</i>	<i>0.099</i>
<i>TN012369</i>	<i>0.484</i>	<i>0.115</i>	<i>0.111</i>	<i>0.161</i>	<i>0.128</i>
<i>TN012370</i>	<i>0.561</i>	<i>0.139</i>	<i>0.096</i>	<i>0.124</i>	<i>0.080</i>
<i>TN012371</i>	<i>0.500</i>	<i>0.145</i>	<i>0.105</i>	<i>0.145</i>	<i>0.105</i>
<i>TN012372</i>	<i>0.470</i>	<i>0.000</i>	<i>0.132</i>	<i>0.179</i>	<i>0.219</i>
<i>TN012373</i>	<i>0.545</i>	<i>0.141</i>	<i>0.099</i>	<i>0.130</i>	<i>0.086</i>
<i>TN012374</i>	<i>0.519</i>	<i>0.144</i>	<i>0.103</i>	<i>0.139</i>	<i>0.096</i>
<i>TN012375</i>	<i>0.033</i>	<i>0.068</i>	<i>0.095</i>	<i>0.256</i>	<i>0.548</i>
<i>TN012376</i>	<i>0.500</i>	<i>0.134</i>	<i>0.107</i>	<i>0.149</i>	<i>0.110</i>
<i>TN012377</i>	<i>0.543</i>	<i>0.106</i>	<i>0.105</i>	<i>0.144</i>	<i>0.103</i>
<i>TN012378</i>	<i>0.498</i>	<i>0.000</i>	<i>0.131</i>	<i>0.172</i>	<i>0.199</i>
<i>TN012379</i>	<i>0.272</i>	<i>0.244</i>	<i>0.130</i>	<i>0.168</i>	<i>0.186</i>
<i>TN012380</i>	<i>0.424</i>	<i>0.147</i>	<i>0.114</i>	<i>0.170</i>	<i>0.143</i>
<i>TN012381</i>	<i>0.458</i>	<i>0.147</i>	<i>0.111</i>	<i>0.159</i>	<i>0.125</i>
<i>TN012382</i>	<i>0.527</i>	<i>0.000</i>	<i>0.129</i>	<i>0.165</i>	<i>0.179</i>
<i>TN012383</i>	<i>0.471</i>	<i>0.100</i>	<i>0.114</i>	<i>0.171</i>	<i>0.144</i>
<i>TN012384</i>	<i>0.452</i>	<i>0.147</i>	<i>0.111</i>	<i>0.161</i>	<i>0.128</i>
<i>TN012385</i>	<i>0.378</i>	<i>0.135</i>	<i>0.119</i>	<i>0.189</i>	<i>0.180</i>

Table D.5 Damage State Probabilities for Bridges

<i>Hazus ID</i>	<i>P(N)</i>	<i>P(S)</i>	<i>P(M)</i>	<i>P(E)</i>	<i>P(C)</i>
<i>TN012386</i>	<i>0.443</i>	<i>0.250</i>	<i>0.106</i>	<i>0.113</i>	<i>0.088</i>
<i>TN012387</i>	<i>0.424</i>	<i>0.033</i>	<i>0.121</i>	<i>0.204</i>	<i>0.219</i>
<i>TN012388</i>	<i>0.516</i>	<i>0.000</i>	<i>0.130</i>	<i>0.168</i>	<i>0.186</i>
<i>TN012389</i>	<i>0.416</i>	<i>0.136</i>	<i>0.116</i>	<i>0.177</i>	<i>0.155</i>
<i>TN012390</i>	<i>0.531</i>	<i>0.132</i>	<i>0.103</i>	<i>0.139</i>	<i>0.096</i>
<i>TN012391</i>	<i>0.466</i>	<i>0.000</i>	<i>0.000</i>	<i>0.244</i>	<i>0.290</i>
<i>TN012392</i>	<i>0.448</i>	<i>0.147</i>	<i>0.112</i>	<i>0.163</i>	<i>0.130</i>
<i>TN012393</i>	<i>0.513</i>	<i>0.099</i>	<i>0.110</i>	<i>0.157</i>	<i>0.121</i>
<i>TN012394</i>	<i>0.487</i>	<i>0.000</i>	<i>0.132</i>	<i>0.175</i>	<i>0.207</i>
<i>TN012395</i>	<i>0.438</i>	<i>0.147</i>	<i>0.113</i>	<i>0.166</i>	<i>0.136</i>
<i>TN012396</i>	<i>0.442</i>	<i>0.147</i>	<i>0.112</i>	<i>0.165</i>	<i>0.133</i>
<i>TN012397</i>	<i>0.458</i>	<i>0.147</i>	<i>0.111</i>	<i>0.159</i>	<i>0.125</i>
<i>TN012398</i>	<i>0.466</i>	<i>0.147</i>	<i>0.110</i>	<i>0.157</i>	<i>0.121</i>
<i>TN012399</i>	<i>0.485</i>	<i>0.000</i>	<i>0.000</i>	<i>0.241</i>	<i>0.274</i>
<i>TN012400</i>	<i>0.413</i>	<i>0.147</i>	<i>0.115</i>	<i>0.174</i>	<i>0.150</i>
<i>TN012401</i>	<i>0.480</i>	<i>0.146</i>	<i>0.108</i>	<i>0.152</i>	<i>0.114</i>
<i>TN012402</i>	<i>0.454</i>	<i>0.147</i>	<i>0.111</i>	<i>0.161</i>	<i>0.127</i>
<i>TN012403</i>	<i>0.434</i>	<i>0.147</i>	<i>0.113</i>	<i>0.167</i>	<i>0.138</i>
<i>TN012404</i>	<i>0.412</i>	<i>0.136</i>	<i>0.116</i>	<i>0.178</i>	<i>0.157</i>
<i>TN012405</i>	<i>0.429</i>	<i>0.147</i>	<i>0.114</i>	<i>0.169</i>	<i>0.141</i>
<i>TN012406</i>	<i>0.360</i>	<i>0.098</i>	<i>0.121</i>	<i>0.203</i>	<i>0.218</i>
<i>TN012407</i>	<i>0.017</i>	<i>0.043</i>	<i>0.068</i>	<i>0.217</i>	<i>0.655</i>
<i>TN012408</i>	<i>0.425</i>	<i>0.136</i>	<i>0.115</i>	<i>0.174</i>	<i>0.150</i>
<i>TN012409</i>	<i>0.442</i>	<i>0.136</i>	<i>0.114</i>	<i>0.168</i>	<i>0.140</i>
<i>TN012410</i>	<i>0.453</i>	<i>0.147</i>	<i>0.111</i>	<i>0.161</i>	<i>0.128</i>
<i>TN012411</i>	<i>0.522</i>	<i>0.133</i>	<i>0.104</i>	<i>0.141</i>	<i>0.100</i>
<i>TN012412</i>	<i>0.557</i>	<i>0.000</i>	<i>0.127</i>	<i>0.156</i>	<i>0.160</i>
<i>TN012413</i>	<i>0.522</i>	<i>0.143</i>	<i>0.102</i>	<i>0.138</i>	<i>0.095</i>
<i>TN012414</i>	<i>0.234</i>	<i>0.289</i>	<i>0.199</i>	<i>0.184</i>	<i>0.095</i>
<i>TN012415</i>	<i>0.311</i>	<i>0.261</i>	<i>0.125</i>	<i>0.152</i>	<i>0.150</i>
<i>TN012416</i>	<i>0.469</i>	<i>0.000</i>	<i>0.000</i>	<i>0.243</i>	<i>0.288</i>
<i>TN012417</i>	<i>0.513</i>	<i>0.000</i>	<i>0.130</i>	<i>0.168</i>	<i>0.188</i>
<i>TN012418</i>	<i>0.399</i>	<i>0.144</i>	<i>0.117</i>	<i>0.180</i>	<i>0.161</i>
<i>TN012419</i>	<i>0.399</i>	<i>0.147</i>	<i>0.117</i>	<i>0.179</i>	<i>0.159</i>
<i>TN012420</i>	<i>0.407</i>	<i>0.133</i>	<i>0.117</i>	<i>0.181</i>	<i>0.163</i>
<i>TN012421</i>	<i>0.407</i>	<i>0.136</i>	<i>0.117</i>	<i>0.180</i>	<i>0.161</i>
<i>TN012422</i>	<i>0.423</i>	<i>0.147</i>	<i>0.114</i>	<i>0.171</i>	<i>0.144</i>
<i>TN012423</i>	<i>0.399</i>	<i>0.139</i>	<i>0.117</i>	<i>0.181</i>	<i>0.164</i>

Table D.5 Damage State Probabilities for Bridges

<i>Hazus ID</i>	<i>P(N)</i>	<i>P(S)</i>	<i>P(M)</i>	<i>P(E)</i>	<i>P(C)</i>
<i>TN012424</i>	<i>0.394</i>	<i>0.136</i>	<i>0.118</i>	<i>0.184</i>	<i>0.169</i>
<i>TN012425</i>	<i>0.434</i>	<i>0.100</i>	<i>0.117</i>	<i>0.182</i>	<i>0.166</i>
<i>TN012427</i>	<i>0.016</i>	<i>0.041</i>	<i>0.066</i>	<i>0.212</i>	<i>0.665</i>
<i>TN012428</i>	<i>0.028</i>	<i>0.046</i>	<i>0.078</i>	<i>0.234</i>	<i>0.614</i>
<i>TN012429</i>	<i>0.393</i>	<i>0.147</i>	<i>0.117</i>	<i>0.181</i>	<i>0.163</i>
<i>TN012431</i>	<i>0.191</i>	<i>0.230</i>	<i>0.133</i>	<i>0.189</i>	<i>0.257</i>
<i>TN012432</i>	<i>0.359</i>	<i>0.145</i>	<i>0.119</i>	<i>0.191</i>	<i>0.185</i>
<i>TN012433</i>	<i>0.359</i>	<i>0.098</i>	<i>0.121</i>	<i>0.204</i>	<i>0.219</i>
<i>TN012434</i>	<i>0.347</i>	<i>0.144</i>	<i>0.120</i>	<i>0.195</i>	<i>0.194</i>
<i>TN012435</i>	<i>0.334</i>	<i>0.143</i>	<i>0.120</i>	<i>0.198</i>	<i>0.204</i>
<i>TN012436</i>	<i>0.168</i>	<i>0.219</i>	<i>0.132</i>	<i>0.195</i>	<i>0.286</i>
<i>TN012437</i>	<i>0.374</i>	<i>0.138</i>	<i>0.119</i>	<i>0.189</i>	<i>0.181</i>
<i>TN012438</i>	<i>0.339</i>	<i>0.144</i>	<i>0.120</i>	<i>0.197</i>	<i>0.200</i>
<i>TN012439</i>	<i>0.374</i>	<i>0.098</i>	<i>0.120</i>	<i>0.200</i>	<i>0.208</i>
<i>TN012440</i>	<i>0.418</i>	<i>0.127</i>	<i>0.117</i>	<i>0.179</i>	<i>0.159</i>
<i>TN012441</i>	<i>0.273</i>	<i>0.244</i>	<i>0.130</i>	<i>0.167</i>	<i>0.186</i>
<i>TN012442</i>	<i>0.434</i>	<i>0.100</i>	<i>0.117</i>	<i>0.182</i>	<i>0.166</i>
<i>TN012443</i>	<i>0.394</i>	<i>0.000</i>	<i>0.132</i>	<i>0.194</i>	<i>0.280</i>
<i>TN012444</i>	<i>0.478</i>	<i>0.000</i>	<i>0.132</i>	<i>0.177</i>	<i>0.213</i>
<i>TN012445</i>	<i>0.411</i>	<i>0.147</i>	<i>0.115</i>	<i>0.175</i>	<i>0.151</i>
<i>TN012446</i>	<i>0.416</i>	<i>0.147</i>	<i>0.115</i>	<i>0.173</i>	<i>0.148</i>
<i>TN012447</i>	<i>0.426</i>	<i>0.147</i>	<i>0.114</i>	<i>0.170</i>	<i>0.143</i>
<i>TN012448</i>	<i>0.366</i>	<i>0.000</i>	<i>0.131</i>	<i>0.198</i>	<i>0.306</i>
<i>TN012449</i>	<i>0.438</i>	<i>0.147</i>	<i>0.113</i>	<i>0.166</i>	<i>0.136</i>
<i>TN012450</i>	<i>0.573</i>	<i>0.138</i>	<i>0.094</i>	<i>0.120</i>	<i>0.075</i>
<i>TN012451</i>	<i>0.484</i>	<i>0.135</i>	<i>0.109</i>	<i>0.154</i>	<i>0.117</i>
<i>TN012452</i>	<i>0.519</i>	<i>0.144</i>	<i>0.103</i>	<i>0.138</i>	<i>0.096</i>
<i>TN012453</i>	<i>0.404</i>	<i>0.000</i>	<i>0.000</i>	<i>0.250</i>	<i>0.346</i>
<i>TN012454</i>	<i>0.513</i>	<i>0.133</i>	<i>0.105</i>	<i>0.145</i>	<i>0.104</i>
<i>TN012455</i>	<i>0.492</i>	<i>0.100</i>	<i>0.112</i>	<i>0.164</i>	<i>0.132</i>
<i>TN012456</i>	<i>0.512</i>	<i>0.144</i>	<i>0.104</i>	<i>0.141</i>	<i>0.099</i>
<i>TN012457</i>	<i>0.565</i>	<i>0.129</i>	<i>0.097</i>	<i>0.127</i>	<i>0.082</i>
<i>TN012458</i>	<i>0.508</i>	<i>0.000</i>	<i>0.130</i>	<i>0.170</i>	<i>0.192</i>
<i>TN012459</i>	<i>0.464</i>	<i>0.147</i>	<i>0.110</i>	<i>0.157</i>	<i>0.122</i>
<i>TN012460</i>	<i>0.545</i>	<i>0.097</i>	<i>0.106</i>	<i>0.146</i>	<i>0.106</i>
<i>TN012461</i>	<i>0.504</i>	<i>0.125</i>	<i>0.108</i>	<i>0.151</i>	<i>0.112</i>
<i>TN012462</i>	<i>0.472</i>	<i>0.100</i>	<i>0.114</i>	<i>0.171</i>	<i>0.143</i>
<i>TN012463</i>	<i>0.484</i>	<i>0.100</i>	<i>0.113</i>	<i>0.166</i>	<i>0.136</i>

Table D.5 Damage State Probabilities for Bridges

<i>Hazus ID</i>	<i>P(N)</i>	<i>P(S)</i>	<i>P(M)</i>	<i>P(E)</i>	<i>P(C)</i>
<i>TN012464</i>	<i>0.480</i>	<i>0.100</i>	<i>0.114</i>	<i>0.168</i>	<i>0.139</i>
<i>TN012465</i>	<i>0.510</i>	<i>0.000</i>	<i>0.130</i>	<i>0.169</i>	<i>0.190</i>
<i>TN012466</i>	<i>0.608</i>	<i>0.123</i>	<i>0.090</i>	<i>0.112</i>	<i>0.067</i>
<i>TN012467</i>	<i>0.497</i>	<i>0.145</i>	<i>0.106</i>	<i>0.146</i>	<i>0.106</i>
<i>TN012468</i>	<i>0.603</i>	<i>0.124</i>	<i>0.091</i>	<i>0.114</i>	<i>0.068</i>
<i>TN012469</i>	<i>0.311</i>	<i>0.303</i>	<i>0.180</i>	<i>0.145</i>	<i>0.061</i>
<i>TN012470</i>	<i>0.488</i>	<i>0.000</i>	<i>0.132</i>	<i>0.175</i>	<i>0.206</i>
<i>TN012471</i>	<i>0.545</i>	<i>0.141</i>	<i>0.099</i>	<i>0.130</i>	<i>0.086</i>
<i>TN012472</i>	<i>0.522</i>	<i>0.143</i>	<i>0.102</i>	<i>0.138</i>	<i>0.095</i>
<i>TN012473</i>	<i>0.522</i>	<i>0.143</i>	<i>0.102</i>	<i>0.138</i>	<i>0.095</i>
<i>TN012474</i>	<i>0.522</i>	<i>0.143</i>	<i>0.102</i>	<i>0.138</i>	<i>0.095</i>
<i>TN012475</i>	<i>0.499</i>	<i>0.099</i>	<i>0.111</i>	<i>0.161</i>	<i>0.128</i>
<i>TN012476</i>	<i>0.516</i>	<i>0.144</i>	<i>0.103</i>	<i>0.140</i>	<i>0.098</i>
<i>TN012477</i>	<i>0.516</i>	<i>0.144</i>	<i>0.103</i>	<i>0.140</i>	<i>0.098</i>
<i>TN012478</i>	<i>0.493</i>	<i>0.100</i>	<i>0.112</i>	<i>0.163</i>	<i>0.131</i>
<i>TN012479</i>	<i>0.493</i>	<i>0.141</i>	<i>0.107</i>	<i>0.149</i>	<i>0.110</i>
<i>TN012480</i>	<i>0.469</i>	<i>0.136</i>	<i>0.111</i>	<i>0.159</i>	<i>0.125</i>
<i>TN012481</i>	<i>0.505</i>	<i>0.145</i>	<i>0.105</i>	<i>0.143</i>	<i>0.102</i>
<i>TN012482</i>	<i>0.524</i>	<i>0.143</i>	<i>0.102</i>	<i>0.137</i>	<i>0.094</i>
<i>TN012483</i>	<i>0.024</i>	<i>0.054</i>	<i>0.080</i>	<i>0.236</i>	<i>0.606</i>
<i>TN012484</i>	<i>0.473</i>	<i>0.135</i>	<i>0.110</i>	<i>0.158</i>	<i>0.123</i>
<i>TN012485</i>	<i>0.463</i>	<i>0.147</i>	<i>0.110</i>	<i>0.158</i>	<i>0.122</i>
<i>TN012486</i>	<i>0.574</i>	<i>0.131</i>	<i>0.095</i>	<i>0.122</i>	<i>0.077</i>
<i>TN012487</i>	<i>0.461</i>	<i>0.136</i>	<i>0.112</i>	<i>0.162</i>	<i>0.129</i>
<i>TN012488</i>	<i>0.119</i>	<i>0.216</i>	<i>0.207</i>	<i>0.255</i>	<i>0.203</i>
<i>TN012489</i>	<i>0.411</i>	<i>0.147</i>	<i>0.116</i>	<i>0.175</i>	<i>0.151</i>
<i>TN012490</i>	<i>0.016</i>	<i>0.040</i>	<i>0.064</i>	<i>0.210</i>	<i>0.670</i>
<i>TN012491</i>	<i>0.480</i>	<i>0.000</i>	<i>0.132</i>	<i>0.177</i>	<i>0.212</i>
<i>TN012492</i>	<i>0.516</i>	<i>0.000</i>	<i>0.130</i>	<i>0.168</i>	<i>0.187</i>
<i>TN012493</i>	<i>0.396</i>	<i>0.000</i>	<i>0.000</i>	<i>0.250</i>	<i>0.354</i>
<i>TN012494</i>	<i>0.515</i>	<i>0.000</i>	<i>0.130</i>	<i>0.168</i>	<i>0.187</i>
<i>TN012495</i>	<i>0.515</i>	<i>0.000</i>	<i>0.130</i>	<i>0.168</i>	<i>0.187</i>
<i>TN012496</i>	<i>0.016</i>	<i>0.040</i>	<i>0.064</i>	<i>0.210</i>	<i>0.670</i>
<i>TN012497</i>	<i>0.533</i>	<i>0.000</i>	<i>0.129</i>	<i>0.163</i>	<i>0.175</i>
<i>TN012498</i>	<i>0.540</i>	<i>0.000</i>	<i>0.128</i>	<i>0.161</i>	<i>0.170</i>
<i>TN012499</i>	<i>0.209</i>	<i>0.226</i>	<i>0.133</i>	<i>0.186</i>	<i>0.246</i>
<i>TN012500</i>	<i>0.370</i>	<i>0.146</i>	<i>0.119</i>	<i>0.188</i>	<i>0.178</i>
<i>TN012501</i>	<i>0.377</i>	<i>0.116</i>	<i>0.120</i>	<i>0.194</i>	<i>0.193</i>

Table D.5 Damage State Probabilities for Bridges

<i>Hazus ID</i>	<i>P(N)</i>	<i>P(S)</i>	<i>P(M)</i>	<i>P(E)</i>	<i>P(C)</i>
<i>TN012502</i>	<i>0.357</i>	<i>0.134</i>	<i>0.120</i>	<i>0.195</i>	<i>0.195</i>
<i>TN012503</i>	<i>0.324</i>	<i>0.142</i>	<i>0.120</i>	<i>0.201</i>	<i>0.212</i>
<i>TN012504</i>	<i>0.426</i>	<i>0.100</i>	<i>0.118</i>	<i>0.185</i>	<i>0.171</i>
<i>TN012505</i>	<i>0.429</i>	<i>0.147</i>	<i>0.114</i>	<i>0.169</i>	<i>0.141</i>
<i>TN012506</i>	<i>0.014</i>	<i>0.025</i>	<i>0.051</i>	<i>0.183</i>	<i>0.726</i>
<i>TN012507</i>	<i>0.498</i>	<i>0.134</i>	<i>0.107</i>	<i>0.150</i>	<i>0.111</i>
<i>TN012508</i>	<i>0.421</i>	<i>0.136</i>	<i>0.116</i>	<i>0.175</i>	<i>0.152</i>
<i>TN012509</i>	<i>0.550</i>	<i>0.141</i>	<i>0.098</i>	<i>0.128</i>	<i>0.084</i>
<i>TN012510</i>	<i>0.492</i>	<i>0.146</i>	<i>0.106</i>	<i>0.148</i>	<i>0.108</i>
<i>TN012511</i>	<i>0.480</i>	<i>0.135</i>	<i>0.109</i>	<i>0.156</i>	<i>0.119</i>
<i>TN012512</i>	<i>0.448</i>	<i>0.147</i>	<i>0.112</i>	<i>0.163</i>	<i>0.130</i>
<i>TN012513</i>	<i>0.467</i>	<i>0.147</i>	<i>0.110</i>	<i>0.156</i>	<i>0.120</i>
<i>TN012514</i>	<i>0.603</i>	<i>0.124</i>	<i>0.091</i>	<i>0.114</i>	<i>0.068</i>
<i>TN012515</i>	<i>0.382</i>	<i>0.147</i>	<i>0.118</i>	<i>0.184</i>	<i>0.170</i>
<i>TN012516</i>	<i>0.488</i>	<i>0.000</i>	<i>0.132</i>	<i>0.175</i>	<i>0.206</i>
<i>TN012517</i>	<i>0.259</i>	<i>0.187</i>	<i>0.133</i>	<i>0.184</i>	<i>0.237</i>
<i>TN012518</i>	<i>0.324</i>	<i>0.263</i>	<i>0.123</i>	<i>0.148</i>	<i>0.142</i>
<i>TN012519</i>	<i>0.525</i>	<i>0.143</i>	<i>0.102</i>	<i>0.136</i>	<i>0.094</i>
<i>TN012520</i>	<i>0.458</i>	<i>0.147</i>	<i>0.111</i>	<i>0.159</i>	<i>0.125</i>
<i>TN012521</i>	<i>0.515</i>	<i>0.144</i>	<i>0.103</i>	<i>0.140</i>	<i>0.098</i>
<i>TN012522</i>	<i>0.513</i>	<i>0.144</i>	<i>0.104</i>	<i>0.141</i>	<i>0.099</i>
<i>TN012523</i>	<i>0.513</i>	<i>0.144</i>	<i>0.104</i>	<i>0.141</i>	<i>0.099</i>
<i>TN012524</i>	<i>0.325</i>	<i>0.263</i>	<i>0.123</i>	<i>0.147</i>	<i>0.142</i>
<i>TN012525</i>	<i>0.323</i>	<i>0.263</i>	<i>0.123</i>	<i>0.148</i>	<i>0.143</i>
<i>TN012526</i>	<i>0.508</i>	<i>0.144</i>	<i>0.104</i>	<i>0.142</i>	<i>0.101</i>
<i>TN012527</i>	<i>0.505</i>	<i>0.145</i>	<i>0.105</i>	<i>0.143</i>	<i>0.102</i>
<i>TN012528</i>	<i>0.489</i>	<i>0.146</i>	<i>0.107</i>	<i>0.149</i>	<i>0.110</i>
<i>TN012529</i>	<i>0.243</i>	<i>0.249</i>	<i>0.131</i>	<i>0.174</i>	<i>0.203</i>
<i>TN012530</i>	<i>0.432</i>	<i>0.100</i>	<i>0.118</i>	<i>0.183</i>	<i>0.167</i>
<i>TN012531</i>	<i>0.432</i>	<i>0.033</i>	<i>0.120</i>	<i>0.202</i>	<i>0.213</i>
<i>TN012532</i>	<i>0.278</i>	<i>0.257</i>	<i>0.129</i>	<i>0.163</i>	<i>0.174</i>
<i>TN012533</i>	<i>0.278</i>	<i>0.257</i>	<i>0.129</i>	<i>0.163</i>	<i>0.174</i>
<i>TN012534</i>	<i>0.292</i>	<i>0.259</i>	<i>0.127</i>	<i>0.158</i>	<i>0.164</i>
<i>TN012535</i>	<i>0.430</i>	<i>0.000</i>	<i>0.000</i>	<i>0.248</i>	<i>0.322</i>
<i>TN012536</i>	<i>0.569</i>	<i>0.000</i>	<i>0.125</i>	<i>0.153</i>	<i>0.153</i>
<i>TN013372</i>	<i>0.441</i>	<i>0.000</i>	<i>0.133</i>	<i>0.185</i>	<i>0.241</i>
<i>TN013543</i>	<i>0.764</i>	<i>0.098</i>	<i>0.056</i>	<i>0.058</i>	<i>0.024</i>
<i>TN013544</i>	<i>0.746</i>	<i>0.103</i>	<i>0.060</i>	<i>0.063</i>	<i>0.028</i>

Table D.5 Damage State Probabilities for Bridges

<i>Hazus ID</i>	<i>P(N)</i>	<i>P(S)</i>	<i>P(M)</i>	<i>P(E)</i>	<i>P(C)</i>
<i>TN013545</i>	<i>0.784</i>	<i>0.092</i>	<i>0.051</i>	<i>0.051</i>	<i>0.021</i>
<i>TN013546</i>	<i>0.681</i>	<i>0.119</i>	<i>0.074</i>	<i>0.084</i>	<i>0.042</i>
<i>TN013547</i>	<i>0.628</i>	<i>0.130</i>	<i>0.084</i>	<i>0.101</i>	<i>0.057</i>
<i>TN013548</i>	<i>0.548</i>	<i>0.239</i>	<i>0.084</i>	<i>0.079</i>	<i>0.050</i>
<i>TN013549</i>	<i>0.076</i>	<i>0.085</i>	<i>0.123</i>	<i>0.282</i>	<i>0.434</i>
<i>TN013550</i>	<i>0.780</i>	<i>0.024</i>	<i>0.073</i>	<i>0.082</i>	<i>0.041</i>
<i>TN013551</i>	<i>0.784</i>	<i>0.024</i>	<i>0.072</i>	<i>0.081</i>	<i>0.040</i>
<i>TN013552</i>	<i>0.851</i>	<i>0.066</i>	<i>0.037</i>	<i>0.034</i>	<i>0.012</i>
<i>TN013553</i>	<i>0.876</i>	<i>0.057</i>	<i>0.031</i>	<i>0.027</i>	<i>0.009</i>
<i>TN013554</i>	<i>0.879</i>	<i>0.059</i>	<i>0.029</i>	<i>0.025</i>	<i>0.008</i>
<i>TN013555</i>	<i>0.869</i>	<i>0.062</i>	<i>0.032</i>	<i>0.028</i>	<i>0.009</i>
<i>TN013556</i>	<i>0.077</i>	<i>0.047</i>	<i>0.107</i>	<i>0.269</i>	<i>0.499</i>
<i>TN013557</i>	<i>0.696</i>	<i>0.028</i>	<i>0.091</i>	<i>0.115</i>	<i>0.069</i>
<i>TN013558</i>	<i>0.719</i>	<i>0.078</i>	<i>0.075</i>	<i>0.085</i>	<i>0.043</i>
<i>TN013559</i>	<i>0.858</i>	<i>0.063</i>	<i>0.036</i>	<i>0.032</i>	<i>0.011</i>
<i>TN013560</i>	<i>0.804</i>	<i>0.070</i>	<i>0.052</i>	<i>0.052</i>	<i>0.021</i>
<i>TN013561</i>	<i>0.676</i>	<i>0.120</i>	<i>0.075</i>	<i>0.085</i>	<i>0.043</i>
<i>TN013562</i>	<i>0.667</i>	<i>0.019</i>	<i>0.099</i>	<i>0.130</i>	<i>0.085</i>
<i>TN013563</i>	<i>0.804</i>	<i>0.000</i>	<i>0.079</i>	<i>0.073</i>	<i>0.044</i>
<i>TN013564</i>	<i>0.921</i>	<i>0.000</i>	<i>0.039</i>	<i>0.029</i>	<i>0.012</i>
<i>TN013565</i>	<i>0.888</i>	<i>0.054</i>	<i>0.028</i>	<i>0.023</i>	<i>0.007</i>
<i>TN013566</i>	<i>0.802</i>	<i>0.087</i>	<i>0.047</i>	<i>0.046</i>	<i>0.018</i>
<i>TN013567</i>	<i>0.805</i>	<i>0.086</i>	<i>0.047</i>	<i>0.045</i>	<i>0.017</i>
<i>TN013568</i>	<i>0.143</i>	<i>0.163</i>	<i>0.159</i>	<i>0.277</i>	<i>0.258</i>
<i>TN013569</i>	<i>0.139</i>	<i>0.161</i>	<i>0.158</i>	<i>0.278</i>	<i>0.265</i>
<i>TN013570</i>	<i>0.792</i>	<i>0.089</i>	<i>0.050</i>	<i>0.049</i>	<i>0.019</i>
<i>TN013571</i>	<i>0.792</i>	<i>0.090</i>	<i>0.050</i>	<i>0.049</i>	<i>0.019</i>
<i>TN013572</i>	<i>0.885</i>	<i>0.042</i>	<i>0.034</i>	<i>0.030</i>	<i>0.010</i>
<i>TN013573</i>	<i>0.231</i>	<i>0.199</i>	<i>0.166</i>	<i>0.240</i>	<i>0.164</i>
<i>TN013574</i>	<i>0.792</i>	<i>0.065</i>	<i>0.058</i>	<i>0.060</i>	<i>0.026</i>
<i>TN013575</i>	<i>0.737</i>	<i>0.026</i>	<i>0.083</i>	<i>0.099</i>	<i>0.055</i>
<i>TN013576</i>	<i>0.893</i>	<i>0.039</i>	<i>0.031</i>	<i>0.027</i>	<i>0.009</i>
<i>TN013577</i>	<i>0.753</i>	<i>0.082</i>	<i>0.064</i>	<i>0.069</i>	<i>0.032</i>
<i>TN013578</i>	<i>0.727</i>	<i>0.077</i>	<i>0.073</i>	<i>0.082</i>	<i>0.041</i>
<i>TN013579</i>	<i>0.166</i>	<i>0.175</i>	<i>0.163</i>	<i>0.268</i>	<i>0.229</i>
<i>TN013580</i>	<i>0.904</i>	<i>0.000</i>	<i>0.046</i>	<i>0.035</i>	<i>0.016</i>
<i>TN013581</i>	<i>0.220</i>	<i>0.133</i>	<i>0.164</i>	<i>0.265</i>	<i>0.218</i>
<i>TN013582</i>	<i>0.881</i>	<i>0.000</i>	<i>0.054</i>	<i>0.044</i>	<i>0.021</i>

Table D.5 Damage State Probabilities for Bridges

<i>Hazus ID</i>	<i>P(N)</i>	<i>P(S)</i>	<i>P(M)</i>	<i>P(E)</i>	<i>P(C)</i>
<i>TN013583</i>	<i>0.838</i>	<i>0.075</i>	<i>0.039</i>	<i>0.036</i>	<i>0.013</i>
<i>TN013584</i>	<i>0.886</i>	<i>0.055</i>	<i>0.028</i>	<i>0.024</i>	<i>0.007</i>
<i>TN013585</i>	<i>0.886</i>	<i>0.053</i>	<i>0.029</i>	<i>0.024</i>	<i>0.008</i>
<i>TN013586</i>	<i>0.901</i>	<i>0.051</i>	<i>0.024</i>	<i>0.019</i>	<i>0.006</i>
<i>TN013587</i>	<i>0.790</i>	<i>0.116</i>	<i>0.045</i>	<i>0.034</i>	<i>0.015</i>
<i>TN013588</i>	<i>0.172</i>	<i>0.178</i>	<i>0.163</i>	<i>0.266</i>	<i>0.221</i>
<i>TN013589</i>	<i>0.839</i>	<i>0.074</i>	<i>0.039</i>	<i>0.035</i>	<i>0.012</i>
<i>TN013590</i>	<i>0.142</i>	<i>0.163</i>	<i>0.159</i>	<i>0.277</i>	<i>0.259</i>
<i>TN013591</i>	<i>0.142</i>	<i>0.163</i>	<i>0.159</i>	<i>0.277</i>	<i>0.259</i>
<i>TN013592</i>	<i>0.081</i>	<i>0.120</i>	<i>0.136</i>	<i>0.287</i>	<i>0.376</i>
<i>TN013593</i>	<i>0.705</i>	<i>0.100</i>	<i>0.073</i>	<i>0.082</i>	<i>0.041</i>
<i>TN013594</i>	<i>0.807</i>	<i>0.022</i>	<i>0.066</i>	<i>0.071</i>	<i>0.033</i>
<i>TN013595</i>	<i>0.809</i>	<i>0.084</i>	<i>0.046</i>	<i>0.044</i>	<i>0.017</i>
<i>TN013596</i>	<i>0.740</i>	<i>0.105</i>	<i>0.061</i>	<i>0.065</i>	<i>0.029</i>
<i>TN013597</i>	<i>0.579</i>	<i>0.196</i>	<i>0.087</i>	<i>0.084</i>	<i>0.054</i>
<i>TN013598</i>	<i>0.697</i>	<i>0.112</i>	<i>0.072</i>	<i>0.080</i>	<i>0.039</i>
<i>TN013599</i>	<i>0.886</i>	<i>0.057</i>	<i>0.027</i>	<i>0.023</i>	<i>0.007</i>
<i>TN013601</i>	<i>0.888</i>	<i>0.050</i>	<i>0.029</i>	<i>0.025</i>	<i>0.008</i>
<i>TN013602</i>	<i>0.616</i>	<i>0.132</i>	<i>0.087</i>	<i>0.105</i>	<i>0.060</i>
<i>TN013603</i>	<i>0.616</i>	<i>0.132</i>	<i>0.087</i>	<i>0.105</i>	<i>0.060</i>
<i>TN013604</i>	<i>0.616</i>	<i>0.092</i>	<i>0.095</i>	<i>0.121</i>	<i>0.076</i>
<i>TN013605</i>	<i>0.838</i>	<i>0.054</i>	<i>0.046</i>	<i>0.045</i>	<i>0.017</i>
<i>TN013606</i>	<i>0.702</i>	<i>0.114</i>	<i>0.070</i>	<i>0.077</i>	<i>0.037</i>
<i>TN013607</i>	<i>0.692</i>	<i>0.117</i>	<i>0.072</i>	<i>0.080</i>	<i>0.039</i>
<i>TN013608</i>	<i>0.659</i>	<i>0.087</i>	<i>0.087</i>	<i>0.106</i>	<i>0.061</i>
<i>TN013609</i>	<i>0.730</i>	<i>0.100</i>	<i>0.066</i>	<i>0.071</i>	<i>0.033</i>
<i>TN013610</i>	<i>0.807</i>	<i>0.085</i>	<i>0.046</i>	<i>0.044</i>	<i>0.017</i>
<i>TN013611</i>	<i>0.798</i>	<i>0.088</i>	<i>0.048</i>	<i>0.047</i>	<i>0.018</i>
<i>TN013612</i>	<i>0.680</i>	<i>0.084</i>	<i>0.083</i>	<i>0.099</i>	<i>0.054</i>
<i>TN013613</i>	<i>0.651</i>	<i>0.125</i>	<i>0.080</i>	<i>0.094</i>	<i>0.050</i>
<i>TN013614</i>	<i>0.094</i>	<i>0.131</i>	<i>0.143</i>	<i>0.287</i>	<i>0.344</i>
<i>TN013615</i>	<i>0.922</i>	<i>0.039</i>	<i>0.020</i>	<i>0.015</i>	<i>0.004</i>
<i>TN013616</i>	<i>0.715</i>	<i>0.012</i>	<i>0.091</i>	<i>0.113</i>	<i>0.068</i>
<i>TN013617</i>	<i>0.901</i>	<i>0.037</i>	<i>0.029</i>	<i>0.025</i>	<i>0.008</i>
<i>TN013618</i>	<i>0.901</i>	<i>0.050</i>	<i>0.024</i>	<i>0.019</i>	<i>0.006</i>
<i>TN013619</i>	<i>0.746</i>	<i>0.103</i>	<i>0.060</i>	<i>0.063</i>	<i>0.028</i>
<i>TN013620</i>	<i>0.703</i>	<i>0.114</i>	<i>0.069</i>	<i>0.077</i>	<i>0.037</i>
<i>TN013621</i>	<i>0.869</i>	<i>0.063</i>	<i>0.031</i>	<i>0.027</i>	<i>0.009</i>

Table D.5 Damage State Probabilities for Bridges

<i>Hazus ID</i>	<i>P(N)</i>	<i>P(S)</i>	<i>P(M)</i>	<i>P(E)</i>	<i>P(C)</i>
<i>TN013622</i>	<i>0.845</i>	<i>0.068</i>	<i>0.039</i>	<i>0.036</i>	<i>0.013</i>
<i>TN013623</i>	<i>0.797</i>	<i>0.088</i>	<i>0.049</i>	<i>0.048</i>	<i>0.019</i>
<i>TN013624</i>	<i>0.739</i>	<i>0.093</i>	<i>0.065</i>	<i>0.071</i>	<i>0.033</i>
<i>TN013625</i>	<i>0.706</i>	<i>0.106</i>	<i>0.071</i>	<i>0.079</i>	<i>0.039</i>
<i>TN013626</i>	<i>0.731</i>	<i>0.107</i>	<i>0.063</i>	<i>0.068</i>	<i>0.031</i>
<i>TN013627</i>	<i>0.085</i>	<i>0.124</i>	<i>0.139</i>	<i>0.287</i>	<i>0.365</i>
<i>TN013628</i>	<i>0.075</i>	<i>0.046</i>	<i>0.106</i>	<i>0.268</i>	<i>0.505</i>
<i>TN013629</i>	<i>0.895</i>	<i>0.050</i>	<i>0.026</i>	<i>0.022</i>	<i>0.007</i>
<i>TN013630</i>	<i>0.895</i>	<i>0.050</i>	<i>0.026</i>	<i>0.022</i>	<i>0.007</i>
<i>TN013631</i>	<i>0.076</i>	<i>0.102</i>	<i>0.129</i>	<i>0.285</i>	<i>0.408</i>
<i>TN013632</i>	<i>0.743</i>	<i>0.104</i>	<i>0.061</i>	<i>0.064</i>	<i>0.028</i>
<i>TN013633</i>	<i>0.717</i>	<i>0.111</i>	<i>0.066</i>	<i>0.072</i>	<i>0.034</i>
<i>TN013634</i>	<i>0.722</i>	<i>0.110</i>	<i>0.065</i>	<i>0.071</i>	<i>0.033</i>
<i>TN013635</i>	<i>0.695</i>	<i>0.116</i>	<i>0.071</i>	<i>0.079</i>	<i>0.039</i>
<i>TN013636</i>	<i>0.398</i>	<i>0.302</i>	<i>0.154</i>	<i>0.108</i>	<i>0.038</i>
<i>TN013637</i>	<i>0.684</i>	<i>0.110</i>	<i>0.075</i>	<i>0.086</i>	<i>0.044</i>
<i>TN013638</i>	<i>0.636</i>	<i>0.128</i>	<i>0.083</i>	<i>0.099</i>	<i>0.054</i>
<i>TN013639</i>	<i>0.662</i>	<i>0.123</i>	<i>0.078</i>	<i>0.090</i>	<i>0.047</i>
<i>TN013640</i>	<i>0.840</i>	<i>0.072</i>	<i>0.039</i>	<i>0.036</i>	<i>0.013</i>
<i>TN013641</i>	<i>0.792</i>	<i>0.065</i>	<i>0.058</i>	<i>0.060</i>	<i>0.026</i>
<i>TN013642</i>	<i>0.812</i>	<i>0.084</i>	<i>0.045</i>	<i>0.043</i>	<i>0.016</i>
<i>TN013643</i>	<i>0.860</i>	<i>0.000</i>	<i>0.061</i>	<i>0.052</i>	<i>0.027</i>
<i>TN013644</i>	<i>0.809</i>	<i>0.084</i>	<i>0.046</i>	<i>0.044</i>	<i>0.017</i>
<i>TN013645</i>	<i>0.809</i>	<i>0.079</i>	<i>0.048</i>	<i>0.046</i>	<i>0.018</i>
<i>TN013646</i>	<i>0.675</i>	<i>0.029</i>	<i>0.095</i>	<i>0.122</i>	<i>0.078</i>
<i>TN013647</i>	<i>0.779</i>	<i>0.094</i>	<i>0.053</i>	<i>0.053</i>	<i>0.021</i>
<i>TN013648</i>	<i>0.794</i>	<i>0.089</i>	<i>0.049</i>	<i>0.048</i>	<i>0.019</i>
<i>TN013649</i>	<i>0.617</i>	<i>0.131</i>	<i>0.086</i>	<i>0.105</i>	<i>0.060</i>
<i>TN013650</i>	<i>0.745</i>	<i>0.104</i>	<i>0.060</i>	<i>0.063</i>	<i>0.028</i>
<i>TN013651</i>	<i>0.889</i>	<i>0.055</i>	<i>0.027</i>	<i>0.022</i>	<i>0.007</i>
<i>TN013652</i>	<i>0.864</i>	<i>0.065</i>	<i>0.033</i>	<i>0.029</i>	<i>0.009</i>
<i>TN013653</i>	<i>0.741</i>	<i>0.098</i>	<i>0.063</i>	<i>0.068</i>	<i>0.031</i>
<i>TN013654</i>	<i>0.746</i>	<i>0.074</i>	<i>0.069</i>	<i>0.076</i>	<i>0.036</i>
<i>TN013655</i>	<i>0.884</i>	<i>0.042</i>	<i>0.034</i>	<i>0.030</i>	<i>0.010</i>
<i>TN013656</i>	<i>0.854</i>	<i>0.069</i>	<i>0.035</i>	<i>0.031</i>	<i>0.011</i>
<i>TN013657</i>	<i>0.897</i>	<i>0.038</i>	<i>0.030</i>	<i>0.026</i>	<i>0.008</i>
<i>TN013658</i>	<i>0.902</i>	<i>0.050</i>	<i>0.023</i>	<i>0.019</i>	<i>0.005</i>
<i>TN013659</i>	<i>0.903</i>	<i>0.047</i>	<i>0.024</i>	<i>0.020</i>	<i>0.006</i>

Table D.5 Damage State Probabilities for Bridges

<i>Hazus ID</i>	<i>P(N)</i>	<i>P(S)</i>	<i>P(M)</i>	<i>P(E)</i>	<i>P(C)</i>
<i>TN013660</i>	<i>0.900</i>	<i>0.048</i>	<i>0.025</i>	<i>0.021</i>	<i>0.006</i>
<i>TN013661</i>	<i>0.902</i>	<i>0.050</i>	<i>0.023</i>	<i>0.019</i>	<i>0.005</i>
<i>TN013662</i>	<i>0.878</i>	<i>0.053</i>	<i>0.032</i>	<i>0.028</i>	<i>0.009</i>
<i>TN013663</i>	<i>0.895</i>	<i>0.044</i>	<i>0.029</i>	<i>0.025</i>	<i>0.008</i>
<i>TN013664</i>	<i>0.843</i>	<i>0.073</i>	<i>0.038</i>	<i>0.034</i>	<i>0.012</i>
<i>TN013665</i>	<i>0.899</i>	<i>0.051</i>	<i>0.024</i>	<i>0.020</i>	<i>0.006</i>
<i>TN013666</i>	<i>0.883</i>	<i>0.042</i>	<i>0.034</i>	<i>0.030</i>	<i>0.010</i>
<i>TN013667</i>	<i>0.878</i>	<i>0.060</i>	<i>0.029</i>	<i>0.025</i>	<i>0.008</i>
<i>TN013668</i>	<i>0.890</i>	<i>0.037</i>	<i>0.034</i>	<i>0.030</i>	<i>0.010</i>
<i>TN013669</i>	<i>0.893</i>	<i>0.014</i>	<i>0.041</i>	<i>0.038</i>	<i>0.014</i>
<i>TN013670</i>	<i>0.908</i>	<i>0.047</i>	<i>0.022</i>	<i>0.018</i>	<i>0.005</i>
<i>TN013671</i>	<i>0.845</i>	<i>0.072</i>	<i>0.037</i>	<i>0.034</i>	<i>0.012</i>
<i>TN013672</i>	<i>0.886</i>	<i>0.057</i>	<i>0.027</i>	<i>0.023</i>	<i>0.007</i>
<i>TN013673</i>	<i>0.772</i>	<i>0.057</i>	<i>0.066</i>	<i>0.071</i>	<i>0.033</i>
<i>TN013674</i>	<i>0.772</i>	<i>0.085</i>	<i>0.058</i>	<i>0.060</i>	<i>0.026</i>
<i>TN013675</i>	<i>0.875</i>	<i>0.061</i>	<i>0.030</i>	<i>0.026</i>	<i>0.008</i>
<i>TN013676</i>	<i>0.875</i>	<i>0.061</i>	<i>0.030</i>	<i>0.026</i>	<i>0.008</i>
<i>TN013677</i>	<i>0.751</i>	<i>0.095</i>	<i>0.061</i>	<i>0.064</i>	<i>0.029</i>
<i>TN013678</i>	<i>0.724</i>	<i>0.102</i>	<i>0.067</i>	<i>0.073</i>	<i>0.034</i>
<i>TN013680</i>	<i>0.855</i>	<i>0.050</i>	<i>0.042</i>	<i>0.039</i>	<i>0.014</i>
<i>TN013681</i>	<i>0.721</i>	<i>0.103</i>	<i>0.068</i>	<i>0.074</i>	<i>0.035</i>
<i>TN013682</i>	<i>0.708</i>	<i>0.028</i>	<i>0.089</i>	<i>0.110</i>	<i>0.065</i>
<i>TN013683</i>	<i>0.750</i>	<i>0.102</i>	<i>0.059</i>	<i>0.062</i>	<i>0.027</i>
<i>TN013684</i>	<i>0.742</i>	<i>0.074</i>	<i>0.070</i>	<i>0.077</i>	<i>0.037</i>
<i>TN013685</i>	<i>0.746</i>	<i>0.097</i>	<i>0.062</i>	<i>0.066</i>	<i>0.030</i>
<i>TN013686</i>	<i>0.768</i>	<i>0.025</i>	<i>0.076</i>	<i>0.087</i>	<i>0.045</i>
<i>TN013687</i>	<i>0.786</i>	<i>0.092</i>	<i>0.051</i>	<i>0.051</i>	<i>0.020</i>
<i>TN013688</i>	<i>0.750</i>	<i>0.102</i>	<i>0.059</i>	<i>0.062</i>	<i>0.027</i>
<i>TN013689</i>	<i>0.741</i>	<i>0.075</i>	<i>0.070</i>	<i>0.077</i>	<i>0.037</i>
<i>TN013690</i>	<i>0.689</i>	<i>0.117</i>	<i>0.072</i>	<i>0.081</i>	<i>0.040</i>
<i>TN013691</i>	<i>0.713</i>	<i>0.112</i>	<i>0.067</i>	<i>0.073</i>	<i>0.035</i>
<i>TN013692</i>	<i>0.713</i>	<i>0.112</i>	<i>0.067</i>	<i>0.073</i>	<i>0.035</i>
<i>TN013693</i>	<i>0.739</i>	<i>0.105</i>	<i>0.062</i>	<i>0.065</i>	<i>0.029</i>
<i>TN013694</i>	<i>0.783</i>	<i>0.000</i>	<i>0.085</i>	<i>0.081</i>	<i>0.051</i>
<i>TN013695</i>	<i>0.719</i>	<i>0.078</i>	<i>0.075</i>	<i>0.085</i>	<i>0.043</i>
<i>TN013696</i>	<i>0.776</i>	<i>0.068</i>	<i>0.062</i>	<i>0.065</i>	<i>0.029</i>
<i>TN013697</i>	<i>0.767</i>	<i>0.098</i>	<i>0.056</i>	<i>0.057</i>	<i>0.024</i>
<i>TN013698</i>	<i>0.731</i>	<i>0.107</i>	<i>0.063</i>	<i>0.068</i>	<i>0.031</i>

Table D.5 Damage State Probabilities for Bridges

<i>Hazus ID</i>	<i>P(N)</i>	<i>P(S)</i>	<i>P(M)</i>	<i>P(E)</i>	<i>P(C)</i>
<i>TN013699</i>	<i>0.724</i>	<i>0.096</i>	<i>0.069</i>	<i>0.076</i>	<i>0.036</i>
<i>TN013700</i>	<i>0.785</i>	<i>0.066</i>	<i>0.060</i>	<i>0.062</i>	<i>0.027</i>
<i>TN013702</i>	<i>0.701</i>	<i>0.115</i>	<i>0.070</i>	<i>0.077</i>	<i>0.037</i>
<i>TN013704</i>	<i>0.773</i>	<i>0.093</i>	<i>0.055</i>	<i>0.055</i>	<i>0.023</i>
<i>TN013705</i>	<i>0.796</i>	<i>0.089</i>	<i>0.049</i>	<i>0.048</i>	<i>0.019</i>
<i>TN013706</i>	<i>0.780</i>	<i>0.024</i>	<i>0.073</i>	<i>0.082</i>	<i>0.041</i>
<i>TN013707</i>	<i>0.698</i>	<i>0.082</i>	<i>0.079</i>	<i>0.092</i>	<i>0.049</i>
<i>TN013708</i>	<i>0.922</i>	<i>0.041</i>	<i>0.018</i>	<i>0.014</i>	<i>0.004</i>
<i>TN013709</i>	<i>0.708</i>	<i>0.200</i>	<i>0.060</i>	<i>0.026</i>	<i>0.005</i>
<i>TN013710</i>	<i>0.694</i>	<i>0.108</i>	<i>0.073</i>	<i>0.083</i>	<i>0.041</i>
<i>TN013711</i>	<i>0.740</i>	<i>0.105</i>	<i>0.061</i>	<i>0.065</i>	<i>0.029</i>
<i>TN013712</i>	<i>0.840</i>	<i>0.074</i>	<i>0.038</i>	<i>0.035</i>	<i>0.012</i>
<i>TN013713</i>	<i>0.866</i>	<i>0.064</i>	<i>0.033</i>	<i>0.029</i>	<i>0.009</i>
<i>TN013714</i>	<i>0.851</i>	<i>0.066</i>	<i>0.037</i>	<i>0.034</i>	<i>0.012</i>
<i>TN013715</i>	<i>0.898</i>	<i>0.052</i>	<i>0.024</i>	<i>0.020</i>	<i>0.006</i>
<i>TN013716</i>	<i>0.667</i>	<i>0.122</i>	<i>0.077</i>	<i>0.088</i>	<i>0.046</i>
<i>TN013717</i>	<i>0.878</i>	<i>0.044</i>	<i>0.036</i>	<i>0.032</i>	<i>0.011</i>
<i>TN013718</i>	<i>0.207</i>	<i>0.192</i>	<i>0.166</i>	<i>0.251</i>	<i>0.184</i>
<i>TN013719</i>	<i>0.197</i>	<i>0.183</i>	<i>0.165</i>	<i>0.257</i>	<i>0.198</i>
<i>TN013720</i>	<i>0.207</i>	<i>0.192</i>	<i>0.166</i>	<i>0.251</i>	<i>0.184</i>
<i>TN013721</i>	<i>0.847</i>	<i>0.067</i>	<i>0.038</i>	<i>0.035</i>	<i>0.012</i>
<i>TN013722</i>	<i>0.851</i>	<i>0.070</i>	<i>0.036</i>	<i>0.032</i>	<i>0.011</i>
<i>TN013723</i>	<i>0.851</i>	<i>0.070</i>	<i>0.036</i>	<i>0.032</i>	<i>0.011</i>
<i>TN013724</i>	<i>0.851</i>	<i>0.067</i>	<i>0.037</i>	<i>0.033</i>	<i>0.011</i>
<i>TN013725</i>	<i>0.859</i>	<i>0.018</i>	<i>0.051</i>	<i>0.051</i>	<i>0.021</i>
<i>TN013726</i>	<i>0.837</i>	<i>0.041</i>	<i>0.051</i>	<i>0.051</i>	<i>0.020</i>
<i>TN013727</i>	<i>0.835</i>	<i>0.034</i>	<i>0.054</i>	<i>0.054</i>	<i>0.022</i>
<i>TN013728</i>	<i>0.798</i>	<i>0.063</i>	<i>0.056</i>	<i>0.058</i>	<i>0.024</i>
<i>TN013729</i>	<i>0.710</i>	<i>0.113</i>	<i>0.068</i>	<i>0.074</i>	<i>0.035</i>
<i>TN013730</i>	<i>0.563</i>	<i>0.000</i>	<i>0.115</i>	<i>0.173</i>	<i>0.148</i>
<i>TN013731</i>	<i>0.690</i>	<i>0.117</i>	<i>0.072</i>	<i>0.081</i>	<i>0.040</i>
<i>TN013732</i>	<i>0.826</i>	<i>0.075</i>	<i>0.043</i>	<i>0.041</i>	<i>0.015</i>
<i>TN013733</i>	<i>0.772</i>	<i>0.024</i>	<i>0.075</i>	<i>0.085</i>	<i>0.043</i>
<i>TN013734</i>	<i>0.781</i>	<i>0.093</i>	<i>0.052</i>	<i>0.052</i>	<i>0.021</i>
<i>TN013735</i>	<i>0.781</i>	<i>0.087</i>	<i>0.054</i>	<i>0.055</i>	<i>0.023</i>
<i>TN013736</i>	<i>0.430</i>	<i>0.270</i>	<i>0.154</i>	<i>0.108</i>	<i>0.038</i>
<i>TN013737</i>	<i>0.632</i>	<i>0.129</i>	<i>0.083</i>	<i>0.100</i>	<i>0.055</i>
<i>TN013738</i>	<i>0.888</i>	<i>0.056</i>	<i>0.027</i>	<i>0.023</i>	<i>0.007</i>

Table D.5 Damage State Probabilities for Bridges

<i>Hazus ID</i>	<i>P(N)</i>	<i>P(S)</i>	<i>P(M)</i>	<i>P(E)</i>	<i>P(C)</i>
<i>TN013739</i>	<i>0.893</i>	<i>0.050</i>	<i>0.027</i>	<i>0.023</i>	<i>0.007</i>
<i>TN013740</i>	<i>0.893</i>	<i>0.050</i>	<i>0.027</i>	<i>0.023</i>	<i>0.007</i>
<i>TN013741</i>	<i>0.875</i>	<i>0.061</i>	<i>0.030</i>	<i>0.026</i>	<i>0.008</i>
<i>TN013742</i>	<i>0.902</i>	<i>0.037</i>	<i>0.029</i>	<i>0.025</i>	<i>0.008</i>
<i>TN013743</i>	<i>0.904</i>	<i>0.049</i>	<i>0.023</i>	<i>0.018</i>	<i>0.005</i>
<i>TN013744</i>	<i>0.081</i>	<i>0.088</i>	<i>0.126</i>	<i>0.283</i>	<i>0.421</i>
<i>TN013745</i>	<i>0.838</i>	<i>0.070</i>	<i>0.041</i>	<i>0.038</i>	<i>0.014</i>
<i>TN013746</i>	<i>0.658</i>	<i>0.124</i>	<i>0.079</i>	<i>0.091</i>	<i>0.048</i>
<i>TN013747</i>	<i>0.660</i>	<i>0.124</i>	<i>0.078</i>	<i>0.091</i>	<i>0.048</i>
<i>TN013748</i>	<i>0.691</i>	<i>0.117</i>	<i>0.072</i>	<i>0.080</i>	<i>0.040</i>
<i>TN013749</i>	<i>0.725</i>	<i>0.093</i>	<i>0.069</i>	<i>0.076</i>	<i>0.037</i>
<i>TN013750</i>	<i>0.717</i>	<i>0.111</i>	<i>0.066</i>	<i>0.072</i>	<i>0.034</i>
<i>TN013751</i>	<i>0.722</i>	<i>0.027</i>	<i>0.086</i>	<i>0.105</i>	<i>0.060</i>
<i>TN013752</i>	<i>0.645</i>	<i>0.208</i>	<i>0.064</i>	<i>0.055</i>	<i>0.029</i>
<i>TN013753</i>	<i>0.612</i>	<i>0.220</i>	<i>0.071</i>	<i>0.063</i>	<i>0.035</i>
<i>TN013754</i>	<i>0.074</i>	<i>0.087</i>	<i>0.123</i>	<i>0.282</i>	<i>0.435</i>
<i>TN013755</i>	<i>0.076</i>	<i>0.089</i>	<i>0.124</i>	<i>0.282</i>	<i>0.428</i>
<i>TN013756</i>	<i>0.065</i>	<i>0.099</i>	<i>0.124</i>	<i>0.282</i>	<i>0.431</i>
<i>TN013757</i>	<i>0.558</i>	<i>0.228</i>	<i>0.084</i>	<i>0.080</i>	<i>0.050</i>
<i>TN013758</i>	<i>0.581</i>	<i>0.000</i>	<i>0.000</i>	<i>0.219</i>	<i>0.199</i>
<i>TN013759</i>	<i>0.363</i>	<i>0.304</i>	<i>0.165</i>	<i>0.122</i>	<i>0.046</i>
<i>TN013760</i>	<i>0.432</i>	<i>0.218</i>	<i>0.114</i>	<i>0.128</i>	<i>0.108</i>
<i>TN013761</i>	<i>0.435</i>	<i>0.218</i>	<i>0.114</i>	<i>0.127</i>	<i>0.107</i>
<i>TN013762</i>	<i>0.469</i>	<i>0.215</i>	<i>0.108</i>	<i>0.116</i>	<i>0.092</i>
<i>TN013763</i>	<i>0.468</i>	<i>0.235</i>	<i>0.104</i>	<i>0.110</i>	<i>0.083</i>
<i>TN013764</i>	<i>0.740</i>	<i>0.000</i>	<i>0.096</i>	<i>0.097</i>	<i>0.068</i>
<i>TN013765</i>	<i>0.772</i>	<i>0.069</i>	<i>0.063</i>	<i>0.066</i>	<i>0.030</i>
<i>TN013766</i>	<i>0.799</i>	<i>0.088</i>	<i>0.048</i>	<i>0.047</i>	<i>0.018</i>
<i>TN013767</i>	<i>0.696</i>	<i>0.108</i>	<i>0.073</i>	<i>0.082</i>	<i>0.041</i>
<i>TN013768</i>	<i>0.688</i>	<i>0.094</i>	<i>0.078</i>	<i>0.091</i>	<i>0.048</i>
<i>TN013769</i>	<i>0.685</i>	<i>0.029</i>	<i>0.094</i>	<i>0.119</i>	<i>0.074</i>
<i>TN013770</i>	<i>0.884</i>	<i>0.042</i>	<i>0.034</i>	<i>0.030</i>	<i>0.010</i>
<i>TN013771</i>	<i>0.884</i>	<i>0.054</i>	<i>0.029</i>	<i>0.025</i>	<i>0.008</i>
<i>TN013772</i>	<i>0.152</i>	<i>0.168</i>	<i>0.161</i>	<i>0.273</i>	<i>0.245</i>
<i>TN013773</i>	<i>0.133</i>	<i>0.153</i>	<i>0.156</i>	<i>0.281</i>	<i>0.278</i>
<i>TN013774</i>	<i>0.852</i>	<i>0.065</i>	<i>0.037</i>	<i>0.034</i>	<i>0.012</i>
<i>TN013775</i>	<i>0.734</i>	<i>0.094</i>	<i>0.066</i>	<i>0.072</i>	<i>0.034</i>
<i>TN013776</i>	<i>0.716</i>	<i>0.027</i>	<i>0.087</i>	<i>0.107</i>	<i>0.062</i>

Table D.5 Damage State Probabilities for Bridges

<i>Hazus ID</i>	<i>P(N)</i>	<i>P(S)</i>	<i>P(M)</i>	<i>P(E)</i>	<i>P(C)</i>
<i>TN013777</i>	<i>0.232</i>	<i>0.153</i>	<i>0.165</i>	<i>0.255</i>	<i>0.194</i>
<i>TN013778</i>	<i>0.871</i>	<i>0.063</i>	<i>0.031</i>	<i>0.027</i>	<i>0.009</i>
<i>TN013779</i>	<i>0.247</i>	<i>0.204</i>	<i>0.165</i>	<i>0.233</i>	<i>0.151</i>
<i>TN013780</i>	<i>0.744</i>	<i>0.160</i>	<i>0.046</i>	<i>0.035</i>	<i>0.016</i>
<i>TN013781</i>	<i>0.902</i>	<i>0.014</i>	<i>0.038</i>	<i>0.034</i>	<i>0.012</i>
<i>TN013782</i>	<i>0.888</i>	<i>0.056</i>	<i>0.027</i>	<i>0.023</i>	<i>0.007</i>
<i>TN013783</i>	<i>0.899</i>	<i>0.000</i>	<i>0.047</i>	<i>0.037</i>	<i>0.017</i>
<i>TN013784</i>	<i>0.862</i>	<i>0.052</i>	<i>0.039</i>	<i>0.036</i>	<i>0.012</i>
<i>TN013785</i>	<i>0.629</i>	<i>0.000</i>	<i>0.117</i>	<i>0.134</i>	<i>0.119</i>
<i>TN013786</i>	<i>0.733</i>	<i>0.107</i>	<i>0.063</i>	<i>0.067</i>	<i>0.030</i>
<i>TN013787</i>	<i>0.824</i>	<i>0.000</i>	<i>0.073</i>	<i>0.066</i>	<i>0.037</i>
<i>TN013788</i>	<i>0.772</i>	<i>0.096</i>	<i>0.054</i>	<i>0.055</i>	<i>0.023</i>
<i>TN013789</i>	<i>0.728</i>	<i>0.087</i>	<i>0.070</i>	<i>0.078</i>	<i>0.038</i>
<i>TN013790</i>	<i>0.430</i>	<i>0.298</i>	<i>0.144</i>	<i>0.096</i>	<i>0.031</i>
<i>TN013791</i>	<i>0.578</i>	<i>0.258</i>	<i>0.098</i>	<i>0.053</i>	<i>0.013</i>
<i>TN013792</i>	<i>0.578</i>	<i>0.258</i>	<i>0.098</i>	<i>0.053</i>	<i>0.013</i>
<i>TN013793</i>	<i>0.581</i>	<i>0.257</i>	<i>0.097</i>	<i>0.052</i>	<i>0.012</i>
<i>TN013794</i>	<i>0.581</i>	<i>0.257</i>	<i>0.097</i>	<i>0.052</i>	<i>0.012</i>
<i>TN013795</i>	<i>0.777</i>	<i>0.000</i>	<i>0.000</i>	<i>0.142</i>	<i>0.081</i>
<i>TN013796</i>	<i>0.878</i>	<i>0.000</i>	<i>0.055</i>	<i>0.045</i>	<i>0.022</i>
<i>TN013797</i>	<i>0.878</i>	<i>0.000</i>	<i>0.055</i>	<i>0.045</i>	<i>0.022</i>
<i>TN013798</i>	<i>0.900</i>	<i>0.048</i>	<i>0.025</i>	<i>0.021</i>	<i>0.006</i>
<i>TN013799</i>	<i>0.872</i>	<i>0.017</i>	<i>0.048</i>	<i>0.046</i>	<i>0.018</i>
<i>TN013800</i>	<i>0.910</i>	<i>0.039</i>	<i>0.025</i>	<i>0.021</i>	<i>0.006</i>
<i>TN013801</i>	<i>0.281</i>	<i>0.211</i>	<i>0.163</i>	<i>0.217</i>	<i>0.128</i>
<i>TN013802</i>	<i>0.800</i>	<i>0.088</i>	<i>0.048</i>	<i>0.047</i>	<i>0.018</i>
<i>TN013803</i>	<i>0.821</i>	<i>0.081</i>	<i>0.043</i>	<i>0.041</i>	<i>0.015</i>
<i>TN013804</i>	<i>0.770</i>	<i>0.000</i>	<i>0.088</i>	<i>0.086</i>	<i>0.056</i>
<i>TN013805</i>	<i>0.694</i>	<i>0.116</i>	<i>0.071</i>	<i>0.079</i>	<i>0.039</i>
<i>TN013806</i>	<i>0.511</i>	<i>0.209</i>	<i>0.100</i>	<i>0.104</i>	<i>0.076</i>
<i>TN013807</i>	<i>0.885</i>	<i>0.000</i>	<i>0.053</i>	<i>0.042</i>	<i>0.020</i>
<i>TN013808</i>	<i>0.807</i>	<i>0.085</i>	<i>0.046</i>	<i>0.044</i>	<i>0.017</i>
<i>TN013809</i>	<i>0.686</i>	<i>0.083</i>	<i>0.082</i>	<i>0.096</i>	<i>0.053</i>
<i>TN013810</i>	<i>0.923</i>	<i>0.000</i>	<i>0.038</i>	<i>0.028</i>	<i>0.012</i>
<i>TN013811</i>	<i>0.689</i>	<i>0.210</i>	<i>0.066</i>	<i>0.030</i>	<i>0.006</i>
<i>TN013812</i>	<i>0.929</i>	<i>0.000</i>	<i>0.035</i>	<i>0.025</i>	<i>0.010</i>
<i>TN013813</i>	<i>0.899</i>	<i>0.051</i>	<i>0.024</i>	<i>0.020</i>	<i>0.006</i>
<i>TN013814</i>	<i>0.079</i>	<i>0.118</i>	<i>0.135</i>	<i>0.287</i>	<i>0.381</i>

Table D.5 Damage State Probabilities for Bridges

<i>Hazus ID</i>	<i>P(N)</i>	<i>P(S)</i>	<i>P(M)</i>	<i>P(E)</i>	<i>P(C)</i>
<i>TN013815</i>	<i>0.700</i>	<i>0.115</i>	<i>0.070</i>	<i>0.078</i>	<i>0.038</i>
<i>TN013816</i>	<i>0.885</i>	<i>0.054</i>	<i>0.029</i>	<i>0.025</i>	<i>0.008</i>
<i>TN013817</i>	<i>0.882</i>	<i>0.058</i>	<i>0.028</i>	<i>0.024</i>	<i>0.007</i>
<i>TN013818</i>	<i>0.862</i>	<i>0.062</i>	<i>0.035</i>	<i>0.031</i>	<i>0.010</i>
<i>TN013819</i>	<i>0.835</i>	<i>0.076</i>	<i>0.040</i>	<i>0.037</i>	<i>0.013</i>
<i>TN013820</i>	<i>0.776</i>	<i>0.089</i>	<i>0.055</i>	<i>0.056</i>	<i>0.024</i>
<i>TN013821</i>	<i>0.842</i>	<i>0.001</i>	<i>0.062</i>	<i>0.066</i>	<i>0.029</i>
<i>TN013822</i>	<i>0.744</i>	<i>0.000</i>	<i>0.095</i>	<i>0.095</i>	<i>0.066</i>
<i>TN013823</i>	<i>0.708</i>	<i>0.105</i>	<i>0.070</i>	<i>0.078</i>	<i>0.038</i>
<i>TN013824</i>	<i>0.709</i>	<i>0.000</i>	<i>0.103</i>	<i>0.108</i>	<i>0.081</i>
<i>TN013825</i>	<i>0.709</i>	<i>0.000</i>	<i>0.103</i>	<i>0.108</i>	<i>0.081</i>
<i>TN013826</i>	<i>0.660</i>	<i>0.030</i>	<i>0.098</i>	<i>0.128</i>	<i>0.084</i>
<i>TN013827</i>	<i>0.901</i>	<i>0.037</i>	<i>0.029</i>	<i>0.025</i>	<i>0.008</i>
<i>TN013828</i>	<i>0.641</i>	<i>0.127</i>	<i>0.082</i>	<i>0.097</i>	<i>0.053</i>
<i>TN013829</i>	<i>0.161</i>	<i>0.173</i>	<i>0.162</i>	<i>0.270</i>	<i>0.234</i>
<i>TN013830</i>	<i>0.765</i>	<i>0.000</i>	<i>0.090</i>	<i>0.088</i>	<i>0.058</i>
<i>TN013831</i>	<i>0.757</i>	<i>0.000</i>	<i>0.092</i>	<i>0.090</i>	<i>0.061</i>
<i>TN013832</i>	<i>0.757</i>	<i>0.000</i>	<i>0.092</i>	<i>0.090</i>	<i>0.061</i>
<i>TN013833</i>	<i>0.671</i>	<i>0.121</i>	<i>0.076</i>	<i>0.087</i>	<i>0.045</i>
<i>TN013834</i>	<i>0.625</i>	<i>0.130</i>	<i>0.085</i>	<i>0.102</i>	<i>0.058</i>
<i>TN013835</i>	<i>0.680</i>	<i>0.119</i>	<i>0.074</i>	<i>0.084</i>	<i>0.042</i>
<i>TN013836</i>	<i>0.701</i>	<i>0.101</i>	<i>0.074</i>	<i>0.083</i>	<i>0.042</i>
<i>TN013837</i>	<i>0.682</i>	<i>0.111</i>	<i>0.076</i>	<i>0.087</i>	<i>0.045</i>
<i>TN013838</i>	<i>0.720</i>	<i>0.110</i>	<i>0.066</i>	<i>0.071</i>	<i>0.033</i>
<i>TN013839</i>	<i>0.761</i>	<i>0.000</i>	<i>0.091</i>	<i>0.089</i>	<i>0.059</i>
<i>TN013840</i>	<i>0.774</i>	<i>0.000</i>	<i>0.087</i>	<i>0.084</i>	<i>0.055</i>
<i>TN013841</i>	<i>0.761</i>	<i>0.000</i>	<i>0.091</i>	<i>0.089</i>	<i>0.059</i>
<i>TN013842</i>	<i>0.988</i>	<i>0.007</i>	<i>0.003</i>	<i>0.001</i>	<i>0.000</i>
<i>TN013843</i>	<i>0.694</i>	<i>0.082</i>	<i>0.080</i>	<i>0.094</i>	<i>0.050</i>
<i>TN017943</i>	<i>0.621</i>	<i>0.131</i>	<i>0.086</i>	<i>0.104</i>	<i>0.059</i>
<i>TN017944</i>	<i>0.656</i>	<i>0.116</i>	<i>0.081</i>	<i>0.096</i>	<i>0.052</i>
<i>TN017945</i>	<i>0.639</i>	<i>0.102</i>	<i>0.088</i>	<i>0.108</i>	<i>0.063</i>
<i>TN017946</i>	<i>0.574</i>	<i>0.138</i>	<i>0.094</i>	<i>0.120</i>	<i>0.075</i>
<i>TN017947</i>	<i>0.610</i>	<i>0.133</i>	<i>0.088</i>	<i>0.108</i>	<i>0.063</i>
<i>TN017948</i>	<i>0.611</i>	<i>0.132</i>	<i>0.088</i>	<i>0.107</i>	<i>0.062</i>
<i>TN017949</i>	<i>0.659</i>	<i>0.000</i>	<i>0.113</i>	<i>0.125</i>	<i>0.104</i>
<i>TN017950</i>	<i>0.637</i>	<i>0.128</i>	<i>0.083</i>	<i>0.098</i>	<i>0.054</i>
<i>TN017951</i>	<i>0.671</i>	<i>0.097</i>	<i>0.082</i>	<i>0.097</i>	<i>0.053</i>

Table D.5 Damage State Probabilities for Bridges

<i>Hazus ID</i>	<i>P(N)</i>	<i>P(S)</i>	<i>P(M)</i>	<i>P(E)</i>	<i>P(C)</i>
<i>TN017952</i>	<i>0.643</i>	<i>0.127</i>	<i>0.081</i>	<i>0.096</i>	<i>0.052</i>
<i>TN017953</i>	<i>0.582</i>	<i>0.000</i>	<i>0.113</i>	<i>0.167</i>	<i>0.138</i>
<i>TN017954</i>	<i>0.721</i>	<i>0.110</i>	<i>0.066</i>	<i>0.071</i>	<i>0.033</i>
<i>TN017955</i>	<i>0.699</i>	<i>0.115</i>	<i>0.070</i>	<i>0.078</i>	<i>0.038</i>
<i>TN017956</i>	<i>0.699</i>	<i>0.115</i>	<i>0.070</i>	<i>0.078</i>	<i>0.038</i>
<i>TN017957</i>	<i>0.617</i>	<i>0.122</i>	<i>0.088</i>	<i>0.109</i>	<i>0.064</i>
<i>TN017958</i>	<i>0.618</i>	<i>0.131</i>	<i>0.086</i>	<i>0.105</i>	<i>0.060</i>
<i>TN017959</i>	<i>0.631</i>	<i>0.129</i>	<i>0.084</i>	<i>0.100</i>	<i>0.056</i>
<i>TN017960</i>	<i>0.673</i>	<i>0.000</i>	<i>0.110</i>	<i>0.120</i>	<i>0.097</i>
<i>TN017961</i>	<i>0.595</i>	<i>0.135</i>	<i>0.090</i>	<i>0.113</i>	<i>0.067</i>
<i>TN017962</i>	<i>0.577</i>	<i>0.137</i>	<i>0.093</i>	<i>0.119</i>	<i>0.074</i>
<i>TN017963</i>	<i>0.577</i>	<i>0.137</i>	<i>0.093</i>	<i>0.119</i>	<i>0.074</i>
<i>TN017964</i>	<i>0.551</i>	<i>0.111</i>	<i>0.103</i>	<i>0.139</i>	<i>0.097</i>
<i>TN017965</i>	<i>0.562</i>	<i>0.129</i>	<i>0.098</i>	<i>0.128</i>	<i>0.084</i>
<i>TN017966</i>	<i>0.599</i>	<i>0.125</i>	<i>0.092</i>	<i>0.115</i>	<i>0.070</i>
<i>TN017967</i>	<i>0.606</i>	<i>0.124</i>	<i>0.090</i>	<i>0.113</i>	<i>0.067</i>
<i>TN017968</i>	<i>0.583</i>	<i>0.127</i>	<i>0.094</i>	<i>0.120</i>	<i>0.075</i>
<i>TN017969</i>	<i>0.568</i>	<i>0.000</i>	<i>0.125</i>	<i>0.153</i>	<i>0.153</i>
<i>TN017970</i>	<i>0.448</i>	<i>0.253</i>	<i>0.105</i>	<i>0.110</i>	<i>0.084</i>
<i>TN017971</i>	<i>0.621</i>	<i>0.000</i>	<i>0.119</i>	<i>0.137</i>	<i>0.123</i>
<i>TN017972</i>	<i>0.644</i>	<i>0.000</i>	<i>0.115</i>	<i>0.130</i>	<i>0.111</i>
<i>TN017973</i>	<i>0.539</i>	<i>0.142</i>	<i>0.100</i>	<i>0.132</i>	<i>0.088</i>
<i>TN017974</i>	<i>0.596</i>	<i>0.135</i>	<i>0.090</i>	<i>0.112</i>	<i>0.067</i>
<i>TN017975</i>	<i>0.596</i>	<i>0.135</i>	<i>0.090</i>	<i>0.112</i>	<i>0.067</i>
<i>TN017976</i>	<i>0.789</i>	<i>0.085</i>	<i>0.052</i>	<i>0.052</i>	<i>0.021</i>
<i>TN017977</i>	<i>0.841</i>	<i>0.000</i>	<i>0.068</i>	<i>0.059</i>	<i>0.032</i>
<i>TN017978</i>	<i>0.504</i>	<i>0.145</i>	<i>0.105</i>	<i>0.144</i>	<i>0.103</i>
<i>TN017979</i>	<i>0.508</i>	<i>0.144</i>	<i>0.104</i>	<i>0.142</i>	<i>0.101</i>
<i>TN017980</i>	<i>0.537</i>	<i>0.142</i>	<i>0.100</i>	<i>0.132</i>	<i>0.089</i>
<i>TN017981</i>	<i>0.539</i>	<i>0.142</i>	<i>0.100</i>	<i>0.132</i>	<i>0.088</i>
<i>TN017982</i>	<i>0.492</i>	<i>0.135</i>	<i>0.108</i>	<i>0.152</i>	<i>0.114</i>
<i>TN017983</i>	<i>0.575</i>	<i>0.021</i>	<i>0.112</i>	<i>0.162</i>	<i>0.130</i>
<i>TN017984</i>	<i>0.583</i>	<i>0.136</i>	<i>0.092</i>	<i>0.116</i>	<i>0.071</i>
<i>TN017985</i>	<i>0.596</i>	<i>0.117</i>	<i>0.094</i>	<i>0.119</i>	<i>0.074</i>
<i>TN017986</i>	<i>0.556</i>	<i>0.130</i>	<i>0.099</i>	<i>0.130</i>	<i>0.086</i>
<i>TN017987</i>	<i>0.546</i>	<i>0.141</i>	<i>0.099</i>	<i>0.129</i>	<i>0.085</i>
<i>TN017988</i>	<i>0.665</i>	<i>0.102</i>	<i>0.082</i>	<i>0.097</i>	<i>0.053</i>
<i>TN017989</i>	<i>0.654</i>	<i>0.125</i>	<i>0.079</i>	<i>0.093</i>	<i>0.049</i>

Table D.5 Damage State Probabilities for Bridges

<i>Hazus ID</i>	<i>P(N)</i>	<i>P(S)</i>	<i>P(M)</i>	<i>P(E)</i>	<i>P(C)</i>
<i>TN017990</i>	<i>0.570</i>	<i>0.120</i>	<i>0.098</i>	<i>0.128</i>	<i>0.084</i>
<i>TN017991</i>	<i>0.570</i>	<i>0.134</i>	<i>0.096</i>	<i>0.123</i>	<i>0.078</i>
<i>TN017992</i>	<i>0.605</i>	<i>0.133</i>	<i>0.089</i>	<i>0.109</i>	<i>0.064</i>
<i>TN017993</i>	<i>0.613</i>	<i>0.132</i>	<i>0.087</i>	<i>0.106</i>	<i>0.061</i>
<i>TN017994</i>	<i>0.661</i>	<i>0.123</i>	<i>0.078</i>	<i>0.090</i>	<i>0.048</i>
<i>TN017995</i>	<i>0.677</i>	<i>0.120</i>	<i>0.075</i>	<i>0.085</i>	<i>0.043</i>
<i>TN017996</i>	<i>0.580</i>	<i>0.127</i>	<i>0.095</i>	<i>0.122</i>	<i>0.077</i>
<i>TN017997</i>	<i>0.696</i>	<i>0.112</i>	<i>0.072</i>	<i>0.080</i>	<i>0.040</i>
<i>TN017998</i>	<i>0.689</i>	<i>0.083</i>	<i>0.081</i>	<i>0.095</i>	<i>0.052</i>
<i>TN017999</i>	<i>0.689</i>	<i>0.083</i>	<i>0.081</i>	<i>0.095</i>	<i>0.052</i>
<i>TN018000</i>	<i>0.639</i>	<i>0.128</i>	<i>0.082</i>	<i>0.098</i>	<i>0.054</i>
<i>TN018001</i>	<i>0.644</i>	<i>0.118</i>	<i>0.083</i>	<i>0.100</i>	<i>0.055</i>
<i>TN018002</i>	<i>0.690</i>	<i>0.083</i>	<i>0.081</i>	<i>0.095</i>	<i>0.051</i>
<i>TN018003</i>	<i>0.667</i>	<i>0.117</i>	<i>0.078</i>	<i>0.090</i>	<i>0.047</i>
<i>TN018004</i>	<i>0.605</i>	<i>0.133</i>	<i>0.089</i>	<i>0.109</i>	<i>0.064</i>
<i>TN018005</i>	<i>0.637</i>	<i>0.119</i>	<i>0.085</i>	<i>0.102</i>	<i>0.057</i>
<i>TN018006</i>	<i>0.635</i>	<i>0.128</i>	<i>0.083</i>	<i>0.099</i>	<i>0.055</i>
<i>TN018007</i>	<i>0.696</i>	<i>0.000</i>	<i>0.106</i>	<i>0.112</i>	<i>0.086</i>
<i>TN018008</i>	<i>0.617</i>	<i>0.131</i>	<i>0.086</i>	<i>0.105</i>	<i>0.060</i>
<i>TN018009</i>	<i>0.634</i>	<i>0.128</i>	<i>0.083</i>	<i>0.099</i>	<i>0.055</i>
<i>TN018010</i>	<i>0.640</i>	<i>0.127</i>	<i>0.082</i>	<i>0.097</i>	<i>0.053</i>
<i>TN018011</i>	<i>0.676</i>	<i>0.117</i>	<i>0.076</i>	<i>0.087</i>	<i>0.045</i>
<i>TN018013</i>	<i>0.617</i>	<i>0.122</i>	<i>0.088</i>	<i>0.109</i>	<i>0.064</i>
<i>TN018014</i>	<i>0.598</i>	<i>0.134</i>	<i>0.090</i>	<i>0.111</i>	<i>0.066</i>
<i>TN018015</i>	<i>0.644</i>	<i>0.118</i>	<i>0.083</i>	<i>0.100</i>	<i>0.055</i>
<i>TN018016</i>	<i>0.741</i>	<i>0.000</i>	<i>0.096</i>	<i>0.096</i>	<i>0.067</i>
<i>TN018017</i>	<i>0.667</i>	<i>0.122</i>	<i>0.077</i>	<i>0.088</i>	<i>0.046</i>
<i>TN018018</i>	<i>0.057</i>	<i>0.097</i>	<i>0.120</i>	<i>0.280</i>	<i>0.446</i>
<i>TN018019</i>	<i>0.668</i>	<i>0.122</i>	<i>0.076</i>	<i>0.088</i>	<i>0.045</i>
<i>TN018020</i>	<i>0.646</i>	<i>0.126</i>	<i>0.081</i>	<i>0.095</i>	<i>0.052</i>
<i>TN018021</i>	<i>0.363</i>	<i>0.304</i>	<i>0.165</i>	<i>0.122</i>	<i>0.046</i>
<i>TN018022</i>	<i>0.653</i>	<i>0.125</i>	<i>0.080</i>	<i>0.093</i>	<i>0.050</i>
<i>TN018023</i>	<i>0.638</i>	<i>0.128</i>	<i>0.082</i>	<i>0.098</i>	<i>0.054</i>
<i>TN018024</i>	<i>0.635</i>	<i>0.128</i>	<i>0.083</i>	<i>0.099</i>	<i>0.055</i>
<i>TN018025</i>	<i>0.644</i>	<i>0.126</i>	<i>0.082</i>	<i>0.096</i>	<i>0.052</i>
<i>TN018026</i>	<i>0.647</i>	<i>0.126</i>	<i>0.081</i>	<i>0.095</i>	<i>0.051</i>
<i>TN018027</i>	<i>0.574</i>	<i>0.138</i>	<i>0.094</i>	<i>0.120</i>	<i>0.075</i>
<i>TN018028</i>	<i>0.572</i>	<i>0.128</i>	<i>0.096</i>	<i>0.124</i>	<i>0.079</i>

Table D.5 Damage State Probabilities for Bridges

<i>Hazus ID</i>	<i>P(N)</i>	<i>P(S)</i>	<i>P(M)</i>	<i>P(E)</i>	<i>P(C)</i>
<i>TN018029</i>	<i>0.649</i>	<i>0.126</i>	<i>0.080</i>	<i>0.094</i>	<i>0.051</i>
<i>TN018030</i>	<i>0.567</i>	<i>0.129</i>	<i>0.097</i>	<i>0.126</i>	<i>0.081</i>
<i>TN018031</i>	<i>0.655</i>	<i>0.124</i>	<i>0.079</i>	<i>0.093</i>	<i>0.049</i>
<i>TN018032</i>	<i>0.062</i>	<i>0.074</i>	<i>0.112</i>	<i>0.274</i>	<i>0.478</i>
<i>TN018033</i>	<i>0.468</i>	<i>0.152</i>	<i>0.119</i>	<i>0.137</i>	<i>0.124</i>
<i>TN018034</i>	<i>0.542</i>	<i>0.141</i>	<i>0.099</i>	<i>0.131</i>	<i>0.087</i>
<i>TN018035</i>	<i>0.560</i>	<i>0.129</i>	<i>0.098</i>	<i>0.128</i>	<i>0.084</i>
<i>TN018036</i>	<i>0.594</i>	<i>0.135</i>	<i>0.091</i>	<i>0.113</i>	<i>0.068</i>
<i>TN018037</i>	<i>0.591</i>	<i>0.135</i>	<i>0.091</i>	<i>0.114</i>	<i>0.069</i>
<i>TN018038</i>	<i>0.589</i>	<i>0.126</i>	<i>0.093</i>	<i>0.118</i>	<i>0.073</i>
<i>TN018039</i>	<i>0.604</i>	<i>0.133</i>	<i>0.089</i>	<i>0.109</i>	<i>0.064</i>
<i>TN018040</i>	<i>0.641</i>	<i>0.127</i>	<i>0.082</i>	<i>0.097</i>	<i>0.053</i>
<i>TN018041</i>	<i>0.606</i>	<i>0.093</i>	<i>0.096</i>	<i>0.125</i>	<i>0.080</i>
<i>TN018042</i>	<i>0.370</i>	<i>0.264</i>	<i>0.117</i>	<i>0.133</i>	<i>0.116</i>
<i>TN018043</i>	<i>0.531</i>	<i>0.132</i>	<i>0.103</i>	<i>0.139</i>	<i>0.096</i>
<i>TN018044</i>	<i>0.523</i>	<i>0.143</i>	<i>0.102</i>	<i>0.137</i>	<i>0.095</i>
<i>TN018045</i>	<i>0.526</i>	<i>0.143</i>	<i>0.102</i>	<i>0.136</i>	<i>0.093</i>
<i>TN018046</i>	<i>0.591</i>	<i>0.126</i>	<i>0.093</i>	<i>0.118</i>	<i>0.073</i>
<i>TN018047</i>	<i>0.660</i>	<i>0.115</i>	<i>0.080</i>	<i>0.094</i>	<i>0.051</i>
<i>TN018048</i>	<i>0.648</i>	<i>0.126</i>	<i>0.081</i>	<i>0.095</i>	<i>0.051</i>
<i>TN018049</i>	<i>0.648</i>	<i>0.126</i>	<i>0.081</i>	<i>0.095</i>	<i>0.051</i>
<i>TN018050</i>	<i>0.648</i>	<i>0.126</i>	<i>0.081</i>	<i>0.095</i>	<i>0.051</i>
<i>TN018051</i>	<i>0.583</i>	<i>0.127</i>	<i>0.094</i>	<i>0.120</i>	<i>0.075</i>
<i>TN018052</i>	<i>0.626</i>	<i>0.091</i>	<i>0.093</i>	<i>0.118</i>	<i>0.073</i>
<i>TN018053</i>	<i>0.298</i>	<i>0.260</i>	<i>0.127</i>	<i>0.156</i>	<i>0.160</i>
<i>TN018054</i>	<i>0.690</i>	<i>0.029</i>	<i>0.093</i>	<i>0.117</i>	<i>0.072</i>
<i>TN018055</i>	<i>0.675</i>	<i>0.120</i>	<i>0.075</i>	<i>0.086</i>	<i>0.044</i>
<i>TN018056</i>	<i>0.647</i>	<i>0.117</i>	<i>0.083</i>	<i>0.099</i>	<i>0.054</i>
<i>TN018057</i>	<i>0.710</i>	<i>0.105</i>	<i>0.070</i>	<i>0.078</i>	<i>0.038</i>
<i>TN018058</i>	<i>0.710</i>	<i>0.113</i>	<i>0.068</i>	<i>0.074</i>	<i>0.035</i>
<i>TN018059</i>	<i>0.695</i>	<i>0.082</i>	<i>0.080</i>	<i>0.093</i>	<i>0.050</i>
<i>TN018060</i>	<i>0.576</i>	<i>0.000</i>	<i>0.114</i>	<i>0.169</i>	<i>0.141</i>
<i>TN018061</i>	<i>0.562</i>	<i>0.129</i>	<i>0.098</i>	<i>0.128</i>	<i>0.084</i>
<i>TN018062</i>	<i>0.611</i>	<i>0.132</i>	<i>0.087</i>	<i>0.107</i>	<i>0.062</i>
<i>TN018063</i>	<i>0.560</i>	<i>0.139</i>	<i>0.096</i>	<i>0.125</i>	<i>0.080</i>
<i>TN018064</i>	<i>0.591</i>	<i>0.135</i>	<i>0.091</i>	<i>0.114</i>	<i>0.069</i>
<i>TN018065</i>	<i>0.685</i>	<i>0.118</i>	<i>0.073</i>	<i>0.082</i>	<i>0.041</i>
<i>TN018066</i>	<i>0.680</i>	<i>0.119</i>	<i>0.074</i>	<i>0.084</i>	<i>0.042</i>

Table D.5 Damage State Probabilities for Bridges

<i>Hazus ID</i>	<i>P(N)</i>	<i>P(S)</i>	<i>P(M)</i>	<i>P(E)</i>	<i>P(C)</i>
<i>TN018067</i>	<i>0.544</i>	<i>0.141</i>	<i>0.099</i>	<i>0.130</i>	<i>0.086</i>
<i>TN018068</i>	<i>0.544</i>	<i>0.141</i>	<i>0.099</i>	<i>0.130</i>	<i>0.086</i>
<i>TN018069</i>	<i>0.640</i>	<i>0.127</i>	<i>0.082</i>	<i>0.097</i>	<i>0.053</i>
<i>TN018070</i>	<i>0.737</i>	<i>0.106</i>	<i>0.062</i>	<i>0.066</i>	<i>0.029</i>
<i>TN018071</i>	<i>0.705</i>	<i>0.114</i>	<i>0.069</i>	<i>0.076</i>	<i>0.036</i>
<i>TN018072</i>	<i>0.705</i>	<i>0.114</i>	<i>0.069</i>	<i>0.076</i>	<i>0.036</i>
<i>TN018073</i>	<i>0.705</i>	<i>0.114</i>	<i>0.069</i>	<i>0.076</i>	<i>0.036</i>
<i>TN018074</i>	<i>0.063</i>	<i>0.104</i>	<i>0.125</i>	<i>0.283</i>	<i>0.425</i>
<i>TN018075</i>	<i>0.063</i>	<i>0.104</i>	<i>0.125</i>	<i>0.283</i>	<i>0.425</i>
<i>TN018076</i>	<i>0.641</i>	<i>0.089</i>	<i>0.090</i>	<i>0.112</i>	<i>0.067</i>
<i>TN018077</i>	<i>0.639</i>	<i>0.128</i>	<i>0.082</i>	<i>0.098</i>	<i>0.054</i>
<i>TN018078</i>	<i>0.057</i>	<i>0.097</i>	<i>0.120</i>	<i>0.280</i>	<i>0.446</i>
<i>TN018079</i>	<i>0.605</i>	<i>0.133</i>	<i>0.089</i>	<i>0.109</i>	<i>0.064</i>
<i>TN018080</i>	<i>0.600</i>	<i>0.000</i>	<i>0.122</i>	<i>0.144</i>	<i>0.135</i>
<i>TN018081</i>	<i>0.517</i>	<i>0.144</i>	<i>0.103</i>	<i>0.139</i>	<i>0.097</i>
<i>TN018082</i>	<i>0.606</i>	<i>0.133</i>	<i>0.088</i>	<i>0.109</i>	<i>0.064</i>
<i>TN018083</i>	<i>0.598</i>	<i>0.093</i>	<i>0.098</i>	<i>0.127</i>	<i>0.083</i>
<i>TN018084</i>	<i>0.664</i>	<i>0.000</i>	<i>0.112</i>	<i>0.123</i>	<i>0.101</i>
<i>TN018085</i>	<i>0.640</i>	<i>0.104</i>	<i>0.087</i>	<i>0.107</i>	<i>0.062</i>
<i>TN018086</i>	<i>0.577</i>	<i>0.137</i>	<i>0.093</i>	<i>0.119</i>	<i>0.074</i>
<i>TN018087</i>	<i>0.584</i>	<i>0.000</i>	<i>0.124</i>	<i>0.148</i>	<i>0.144</i>
<i>TN018088</i>	<i>0.576</i>	<i>0.095</i>	<i>0.101</i>	<i>0.135</i>	<i>0.092</i>
<i>TN018089</i>	<i>0.581</i>	<i>0.095</i>	<i>0.101</i>	<i>0.134</i>	<i>0.090</i>
<i>TN018090</i>	<i>0.636</i>	<i>0.000</i>	<i>0.117</i>	<i>0.132</i>	<i>0.116</i>
<i>TN100001</i>	<i>0.033</i>	<i>0.045</i>	<i>0.061</i>	<i>0.184</i>	<i>0.677</i>
<i>TN100002</i>	<i>0.008</i>	<i>0.025</i>	<i>0.045</i>	<i>0.170</i>	<i>0.752</i>
<i>TN100003</i>	<i>0.167</i>	<i>0.219</i>	<i>0.132</i>	<i>0.195</i>	<i>0.287</i>
<i>TN100004</i>	<i>0.038</i>	<i>0.012</i>	<i>0.045</i>	<i>0.151</i>	<i>0.753</i>
<i>TN100005</i>	<i>0.041</i>	<i>0.048</i>	<i>0.066</i>	<i>0.193</i>	<i>0.652</i>
<i>TN100006</i>	<i>0.009</i>	<i>0.027</i>	<i>0.047</i>	<i>0.175</i>	<i>0.742</i>
<i>TN100007</i>	<i>0.008</i>	<i>0.024</i>	<i>0.044</i>	<i>0.168</i>	<i>0.755</i>
<i>TN100008</i>	<i>0.106</i>	<i>0.205</i>	<i>0.204</i>	<i>0.262</i>	<i>0.223</i>
<i>TN100009</i>	<i>0.109</i>	<i>0.209</i>	<i>0.205</i>	<i>0.260</i>	<i>0.217</i>
<i>TN100010</i>	<i>0.204</i>	<i>0.236</i>	<i>0.238</i>	<i>0.113</i>	<i>0.210</i>
<i>TN100012</i>	<i>0.080</i>	<i>0.187</i>	<i>0.197</i>	<i>0.273</i>	<i>0.264</i>
<i>TN100013</i>	<i>0.137</i>	<i>0.180</i>	<i>0.205</i>	<i>0.261</i>	<i>0.218</i>
<i>TN100014</i>	<i>0.314</i>	<i>0.141</i>	<i>0.121</i>	<i>0.204</i>	<i>0.220</i>
<i>TN100015</i>	<i>0.289</i>	<i>0.133</i>	<i>0.121</i>	<i>0.212</i>	<i>0.246</i>

Table D.5 Damage State Probabilities for Bridges

<i>Hazus ID</i>	<i>P(N)</i>	<i>P(S)</i>	<i>P(M)</i>	<i>P(E)</i>	<i>P(C)</i>
<i>TN100016</i>	<i>1.000</i>	<i>0.000</i>	<i>0.000</i>	<i>0.000</i>	<i>0.000</i>
<i>TN100017</i>	<i>0.351</i>	<i>0.145</i>	<i>0.120</i>	<i>0.193</i>	<i>0.191</i>
<i>TN100018</i>	<i>0.303</i>	<i>0.140</i>	<i>0.121</i>	<i>0.207</i>	<i>0.229</i>
<i>TN100019</i>	<i>0.302</i>	<i>0.140</i>	<i>0.121</i>	<i>0.207</i>	<i>0.230</i>
<i>TN100020</i>	<i>0.289</i>	<i>0.126</i>	<i>0.121</i>	<i>0.213</i>	<i>0.252</i>
<i>TN100021</i>	<i>0.291</i>	<i>0.092</i>	<i>0.119</i>	<i>0.219</i>	<i>0.279</i>
<i>TN100022</i>	<i>0.215</i>	<i>0.123</i>	<i>0.117</i>	<i>0.225</i>	<i>0.320</i>
<i>TN100023</i>	<i>0.261</i>	<i>0.133</i>	<i>0.120</i>	<i>0.217</i>	<i>0.269</i>
<i>TN100024</i>	<i>0.350</i>	<i>0.145</i>	<i>0.120</i>	<i>0.194</i>	<i>0.192</i>
<i>TN100025</i>	<i>0.333</i>	<i>0.143</i>	<i>0.120</i>	<i>0.199</i>	<i>0.205</i>
<i>TN100026</i>	<i>0.295</i>	<i>0.029</i>	<i>0.115</i>	<i>0.226</i>	<i>0.334</i>
<i>TN100027</i>	<i>0.295</i>	<i>0.127</i>	<i>0.121</i>	<i>0.211</i>	<i>0.245</i>
<i>TN100028</i>	<i>0.312</i>	<i>0.141</i>	<i>0.121</i>	<i>0.204</i>	<i>0.222</i>
<i>TN100029</i>	<i>0.302</i>	<i>0.140</i>	<i>0.121</i>	<i>0.207</i>	<i>0.230</i>
<i>TN100030</i>	<i>0.367</i>	<i>0.032</i>	<i>0.120</i>	<i>0.216</i>	<i>0.265</i>
<i>TN100031</i>	<i>0.270</i>	<i>0.089</i>	<i>0.118</i>	<i>0.222</i>	<i>0.301</i>
<i>TN100032</i>	<i>1.000</i>	<i>0.000</i>	<i>0.000</i>	<i>0.000</i>	<i>0.000</i>
<i>TN100033</i>	<i>0.370</i>	<i>0.000</i>	<i>0.131</i>	<i>0.197</i>	<i>0.302</i>
<i>TN100034</i>	<i>0.359</i>	<i>0.145</i>	<i>0.119</i>	<i>0.191</i>	<i>0.185</i>
<i>TN100035</i>	<i>0.160</i>	<i>0.215</i>	<i>0.131</i>	<i>0.196</i>	<i>0.297</i>
<i>TN100036</i>	<i>0.545</i>	<i>0.141</i>	<i>0.099</i>	<i>0.129</i>	<i>0.085</i>
<i>TN100037</i>	<i>0.607</i>	<i>0.133</i>	<i>0.088</i>	<i>0.109</i>	<i>0.063</i>
<i>TN100038</i>	<i>0.544</i>	<i>0.141</i>	<i>0.099</i>	<i>0.130</i>	<i>0.086</i>
<i>TN100039</i>	<i>0.513</i>	<i>0.144</i>	<i>0.103</i>	<i>0.140</i>	<i>0.099</i>
<i>TN100040</i>	<i>0.480</i>	<i>0.146</i>	<i>0.108</i>	<i>0.152</i>	<i>0.114</i>
<i>TN100041</i>	<i>0.622</i>	<i>0.131</i>	<i>0.085</i>	<i>0.103</i>	<i>0.059</i>
<i>TN100042</i>	<i>0.649</i>	<i>0.126</i>	<i>0.080</i>	<i>0.094</i>	<i>0.051</i>
<i>TN100043</i>	<i>0.622</i>	<i>0.131</i>	<i>0.085</i>	<i>0.103</i>	<i>0.059</i>
<i>TN100044</i>	<i>0.581</i>	<i>0.137</i>	<i>0.093</i>	<i>0.117</i>	<i>0.072</i>
<i>TN100045</i>	<i>0.593</i>	<i>0.135</i>	<i>0.091</i>	<i>0.113</i>	<i>0.068</i>

Appendix E. Hazus-MH 5.1 Results: Economic Losses

Table E.1 Predicted Economic Losses for Essential Facilities for the CERI Hazard Scenario

Structure No.	Economic Losses (Thousands)			
	STR	NSA	NSD	Total
1	\$ 128	\$ 282	\$ 342	\$ 752
2.01	\$ 275	\$ 602	\$ 701	\$ 1,578
2.02	\$ 24	\$ 52	\$ 61	\$ 137
3.01	\$ 340	\$ 756	\$ 920	\$ 2,017
3.02	\$ 340	\$ 756	\$ 920	\$ 2,017
3.03	\$ 340	\$ 756	\$ 920	\$ 2,017
4	\$ 4,208	\$ 9,422	\$ 11,692	\$ 25,322
5	\$ 354	\$ 790	\$ 979	\$ 2,123
13	\$ 124	\$ 265	\$ 267	\$ 657
14.01	\$ 9	\$ 30	\$ 71	\$ 109
14.02	\$ 226	\$ 489	\$ 521	\$ 1,236
15	\$ 96	\$ 209	\$ 232	\$ 538
16	\$ 208	\$ 452	\$ 506	\$ 1,166
17.01	\$ 339	\$ 823	\$ 950	\$ 2,112
17.02	\$ 339	\$ 823	\$ 950	\$ 2,112
17.03	\$ 374	\$ 921	\$ 1,089	\$ 2,384
18	\$ 53	\$ 114	\$ 122	\$ 288
19.01	\$ 254	\$ 565	\$ 681	\$ 1,500
19.02	\$ 104	\$ 230	\$ 276	\$ 610
19.03	\$ 54	\$ 120	\$ 144	\$ 317
20	\$ 112	\$ 238	\$ 262	\$ 612
21	\$ 135	\$ 299	\$ 357	\$ 791
22	\$ 449	\$ 997	\$ 1,198	\$ 2,643
23	\$ 23	\$ 71	\$ 93	\$ 187
24	\$ 8	\$ 25	\$ 42	\$ 75
25	\$ 89	\$ 198	\$ 236	\$ 523
26	\$ 270	\$ 626	\$ 634	\$ 1,530
27.01	\$ 12	\$ 40	\$ 98	\$ 150
27.02	\$ 4	\$ 13	\$ 33	\$ 50
28	\$ 106	\$ 234	\$ 278	\$ 618
29	\$ 18	\$ 57	\$ 142	\$ 216
30	\$ 31	\$ 93	\$ 109	\$ 232

Table E.1 Predicted Economic Losses for Essential Facilities for the CERl Hazard Scenario

Structure No.	Economic Losses (Thousands)			
	STR	NSA	NSD	Total
31	\$ 9	\$ 30	\$ 65	\$ 104
32	\$ 73	\$ 156	\$ 159	\$ 387
33	\$ 104	\$ 225	\$ 241	\$ 570
34	\$ 110	\$ 239	\$ 263	\$ 612
35.01	\$ 3	\$ 4	\$ 12	\$ 18
35.02	\$ 6	\$ 8	\$ 6	\$ 20
36	\$ 66	\$ 127	\$ 115	\$ 308
37	\$ 108	\$ 223	\$ 227	\$ 558
38	\$ 60	\$ 107	\$ 109	\$ 276
39	\$ 69	\$ 136	\$ 129	\$ 333
40	\$ 67	\$ 129	\$ 128	\$ 325
41	\$ 231	\$ 477	\$ 483	\$ 1,191
42	\$ 201	\$ 411	\$ 444	\$ 1,055
43	\$ 232	\$ 492	\$ 543	\$ 1,268
44	\$ 295	\$ 606	\$ 658	\$ 1,560
45	\$ 78	\$ 155	\$ 159	\$ 392
46	\$ 112	\$ 217	\$ 222	\$ 550
47	\$ 122	\$ 255	\$ 261	\$ 638
48	\$ 132	\$ 274	\$ 280	\$ 687
49	\$ 82	\$ 170	\$ 153	\$ 405
50	\$ 690	\$ 1,469	\$ 1,650	\$ 3,809
51	\$ 242	\$ 471	\$ 498	\$ 1,210
52	\$ 401	\$ 834	\$ 857	\$ 2,091
53	\$ 49	\$ 97	\$ 100	\$ 246
54	\$ 49	\$ 90	\$ 88	\$ 226
55	\$ 84	\$ 179	\$ 185	\$ 448
56	\$ 8	\$ 24	\$ 50	\$ 81
57.01	\$ 347	\$ 738	\$ 758	\$ 1,843
57.02	\$ 1	\$ 2	\$ 6	\$ 9
57.03	\$ 48	\$ 105	\$ 117	\$ 269
57.04	\$ 41	\$ 88	\$ 89	\$ 218
58	\$ 103	\$ 217	\$ 223	\$ 542
59	\$ 203	\$ 414	\$ 410	\$ 1,026
60	\$ 20	\$ 38	\$ 81	\$ 139

Table E.1 Predicted Economic Losses for Essential Facilities for the CERI Hazard Scenario

Structure No.	Economic Losses (Thousands)			
	STR	NSA	NSD	Total
61	\$ 22	\$ 42	\$ 92	\$ 156
62	\$ 11	\$ 21	\$ 49	\$ 80
63	\$ 17	\$ 32	\$ 59	\$ 107
64	\$ 370	\$ 793	\$ 909	\$ 2,073
65	\$ 17	\$ 31	\$ 66	\$ 114
66	\$ 14	\$ 27	\$ 47	\$ 89
67	\$ 215	\$ 456	\$ 483	\$ 1,154
68	\$ 30	\$ 57	\$ 118	\$ 205
69	\$ 154	\$ 331	\$ 337	\$ 822
70	\$ 6	\$ 12	\$ 27	\$ 46
71	\$ 42	\$ 83	\$ 66	\$ 190
72	\$ 55	\$ 104	\$ 225	\$ 384
73.01	\$ 3,258	\$ 7,769	\$ 9,064	\$ 20,090
73.02	\$ 2,491	\$ 5,930	\$ 6,587	\$ 15,008
73.03	\$ 3,633	\$ 9,002	\$ 11,085	\$ 23,721
73.04	\$ 3,196	\$ 7,783	\$ 9,075	\$ 20,053
73.05	\$ 2,491	\$ 5,930	\$ 6,587	\$ 15,008
73.06	\$ 2,491	\$ 5,930	\$ 6,587	\$ 15,008
74	\$ 3,109	\$ 5,008	\$ 3,792	\$ 11,909
75	\$ 426	\$ 968	\$ 1,025	\$ 2,419
76	\$ 1,492	\$ 3,146	\$ 3,320	\$ 7,958
77.01	\$ 121	\$ 262	\$ 527	\$ 910
77.02	\$ 121	\$ 262	\$ 527	\$ 910
77.03	\$ 537	\$ 1,187	\$ 932	\$ 2,656
77.04	\$ 537	\$ 1,187	\$ 932	\$ 2,656
77.05	\$ 537	\$ 1,187	\$ 932	\$ 2,656
78	\$ 239	\$ 511	\$ 560	\$ 1,310
79	\$ 238	\$ 509	\$ 571	\$ 1,318
80	\$ 120	\$ 242	\$ 261	\$ 623
81	\$ 146	\$ 301	\$ 306	\$ 753
82	\$ 31	\$ 100	\$ 211	\$ 342
83.01	\$ 281	\$ 604	\$ 704	\$ 1,589
83.02	\$ 239	\$ 511	\$ 515	\$ 1,266
84	\$ 195	\$ 410	\$ 424	\$ 1,029

Table E.1 Predicted Economic Losses for Essential Facilities for the CERl Hazard Scenario

Structure No.	Economic Losses (Thousands)			
	STR	NSA	NSD	Total
85.01	\$ 261	\$ 562	\$ 602	\$ 1,425
85.02	\$ 179	\$ 374	\$ 388	\$ 941
86	\$ 51	\$ 126	\$ 192	\$ 368
88.01	\$ 25	\$ 46	\$ 93	\$ 164
88.02	\$ 25	\$ 46	\$ 93	\$ 164
88.03	\$ 25	\$ 46	\$ 93	\$ 164
88.04	\$ 25	\$ 46	\$ 93	\$ 164
88.05	\$ 25	\$ 46	\$ 93	\$ 164
89	\$ 67	\$ 130	\$ 142	\$ 338
90	\$ 71	\$ 138	\$ 153	\$ 361
91	\$ 162	\$ 329	\$ 358	\$ 850
94	\$ 24	\$ 45	\$ 100	\$ 169
95	\$ 149	\$ 301	\$ 249	\$ 699
96	\$ 296	\$ 643	\$ 719	\$ 1,658
97	\$ 272	\$ 581	\$ 660	\$ 1,513
98	\$ 21	\$ 40	\$ 91	\$ 152
99	\$ 25	\$ 47	\$ 101	\$ 172
100	\$ 776	\$ 1,911	\$ 944	\$ 3,631
101	\$ 895	\$ 2,218	\$ 1,139	\$ 4,251
102	\$ 345	\$ 784	\$ 406	\$ 1,534
103.01	\$ 1,935	\$ 4,994	\$ 2,749	\$ 9,678
103.02	\$ 1,849	\$ 4,738	\$ 2,578	\$ 9,165
104	\$ 1,204	\$ 2,953	\$ 1,444	\$ 5,601
105.01	\$ 881	\$ 2,152	\$ 1,039	\$ 4,072
105.02	\$ 1,353	\$ 3,462	\$ 1,867	\$ 6,682
105.03	\$ 970	\$ 2,387	\$ 1,199	\$ 4,557
106	\$ 554	\$ 1,412	\$ 755	\$ 2,721
109.01	\$ 4,062	\$ 22,200	\$ 8,869	\$ 35,131
109.02	\$ 780	\$ 4,264	\$ 1,703	\$ 6,747
109.03	\$ 4,062	\$ 22,200	\$ 8,869	\$ 35,131
109.04	\$ 3,892	\$ 21,122	\$ 8,339	\$ 33,353
109.05	\$ 3,892	\$ 21,122	\$ 8,339	\$ 33,353
109.06	\$ 3,840	\$ 20,813	\$ 8,178	\$ 32,830
109.07	\$ 3,840	\$ 20,813	\$ 8,178	\$ 32,830

Table E.1 Predicted Economic Losses for Essential Facilities for the CERl Hazard Scenario

Structure No.	Economic Losses (Thousands)			
	STR	NSA	NSD	Total
110	\$ 770	\$ 1,985	\$ 1,099	\$ 3,855
111	\$ 2,771	\$ 7,106	\$ 3,847	\$ 13,723
112	\$ 1,099	\$ 2,836	\$ 1,546	\$ 5,480
113.01	\$ 489	\$ 1,138	\$ 550	\$ 2,176
113.02	\$ 1,386	\$ 3,555	\$ 1,924	\$ 6,865
113.03	\$ 1,386	\$ 3,555	\$ 1,924	\$ 6,865
114.01	\$ 544	\$ 2,909	\$ 1,151	\$ 4,604
114.02	\$ 544	\$ 2,909	\$ 1,151	\$ 4,604
114.03	\$ 503	\$ 2,685	\$ 994	\$ 4,183
115	\$ 438	\$ 1,124	\$ 610	\$ 2,172
116.01	\$ 1,018	\$ 2,624	\$ 1,463	\$ 5,105
116.02	\$ 915	\$ 2,315	\$ 1,230	\$ 4,460
116.03	\$ 915	\$ 2,315	\$ 1,230	\$ 4,460
116.04	\$ 720	\$ 1,779	\$ 910	\$ 3,408
117.01	\$ 564	\$ 1,432	\$ 800	\$ 2,796
117.02	\$ 559	\$ 1,418	\$ 787	\$ 2,765
117.03	\$ 527	\$ 1,331	\$ 700	\$ 2,557
117.04	\$ 534	\$ 1,351	\$ 718	\$ 2,603
118.01	\$ 528	\$ 1,356	\$ 743	\$ 2,627
118.02	\$ 502	\$ 1,272	\$ 706	\$ 2,480
118.03	\$ 499	\$ 1,265	\$ 701	\$ 2,465
118.04	\$ 359	\$ 884	\$ 445	\$ 1,689
119.01	\$ 950	\$ 2,419	\$ 1,285	\$ 4,653
119.02	\$ 524	\$ 1,260	\$ 582	\$ 2,366
119.03	\$ 524	\$ 1,260	\$ 582	\$ 2,366
119.04	\$ 525	\$ 1,337	\$ 710	\$ 2,573
120.01	\$ 990	\$ 2,396	\$ 1,115	\$ 4,501
120.02	\$ 990	\$ 2,396	\$ 1,115	\$ 4,501
122	\$ 358	\$ 803	\$ 415	\$ 1,576
123.01	\$ 1,485	\$ 3,645	\$ 1,798	\$ 6,928
123.02	\$ 1,025	\$ 2,455	\$ 1,015	\$ 4,495
123.03	\$ 283	\$ 620	\$ 460	\$ 1,363
123.04	\$ 283	\$ 620	\$ 460	\$ 1,363
123.05	\$ 1,025	\$ 2,455	\$ 1,015	\$ 4,495

Table E.1 Predicted Economic Losses for Essential Facilities for the CERI Hazard Scenario

Structure No.	Economic Losses (Thousands)			
	STR	NSA	NSD	Total
124	\$ 487	\$ 1,111	\$ 540	\$ 2,139
125	\$ 514	\$ 1,190	\$ 556	\$ 2,261
130	\$ 251	\$ 1,342	\$ 516	\$ 2,108
131	\$ 120	\$ 567	\$ 280	\$ 967
133	\$ 34	\$ 72	\$ 78	\$ 184
135	\$ 81	\$ 202	\$ 105	\$ 389
135.01	\$ 42	\$ 95	\$ 47	\$ 184
135.02	\$ 96	\$ 241	\$ 121	\$ 457
135.03	\$ 42	\$ 95	\$ 47	\$ 184
136.01	\$ 69	\$ 148	\$ 141	\$ 358
136.02	\$ 198	\$ 523	\$ 188	\$ 909
136.03	\$ 198	\$ 523	\$ 188	\$ 909
136.04	\$ 300	\$ 673	\$ 230	\$ 1,203
136.05	\$ 300	\$ 673	\$ 230	\$ 1,203
136.06	\$ 300	\$ 673	\$ 230	\$ 1,203
136.07	\$ 300	\$ 673	\$ 230	\$ 1,203
136.08	\$ 300	\$ 673	\$ 230	\$ 1,203
136.09	\$ 300	\$ 673	\$ 230	\$ 1,203
136.1	\$ 353	\$ 808	\$ 366	\$ 1,527
136.11	\$ 300	\$ 673	\$ 230	\$ 1,203
136.12	\$ 300	\$ 673	\$ 230	\$ 1,203
137	\$ 300	\$ 673	\$ 230	\$ 1,203
138	\$ 355	\$ 756	\$ 341	\$ 1,451
139	\$ 745	\$ 1,809	\$ 903	\$ 3,457
139.01	\$ 157	\$ 344	\$ 205	\$ 706
139.02	\$ 425	\$ 1,130	\$ 385	\$ 1,941
139.03	\$ 525	\$ 1,228	\$ 455	\$ 2,208
139.04	\$ 525	\$ 1,228	\$ 455	\$ 2,208
140	\$ 614	\$ 1,501	\$ 754	\$ 2,868
140.01	\$ 86	\$ 186	\$ 145	\$ 417
140.02	\$ 310	\$ 701	\$ 240	\$ 1,251
140.03	\$ 388	\$ 903	\$ 327	\$ 1,617
140.04	\$ 388	\$ 903	\$ 327	\$ 1,617
140.05	\$ 310	\$ 701	\$ 240	\$ 1,251

Table E.1 Predicted Economic Losses for Essential Facilities for the CERl Hazard Scenario

Structure No.	Economic Losses (Thousands)			
	STR	NSA	NSD	Total
140.06	\$ 310	\$ 701	\$ 240	\$ 1,251
140.07	\$ 310	\$ 701	\$ 240	\$ 1,251
141	\$ 600	\$ 1,480	\$ 769	\$ 2,849
141.01	\$ 540	\$ 1,300	\$ 651	\$ 2,491
141.02	\$ 540	\$ 1,300	\$ 651	\$ 2,491
141.03	\$ 591	\$ 1,435	\$ 655	\$ 2,681
141.04	\$ 93	\$ 335	\$ 224	\$ 653
141.05	\$ 93	\$ 335	\$ 224	\$ 653
142	\$ 184	\$ 447	\$ 235	\$ 866
142.01	\$ 147	\$ 333	\$ 158	\$ 638
142.02	\$ 71	\$ 188	\$ 77	\$ 337
143	\$ 958	\$ 2,287	\$ 1,187	\$ 4,432
143.01	\$ 715	\$ 1,527	\$ 694	\$ 2,936
143.02	\$ 942	\$ 2,247	\$ 972	\$ 4,161
143.03	\$ 942	\$ 2,247	\$ 972	\$ 4,161
143.04	\$ 793	\$ 1,836	\$ 942	\$ 3,570
143.05	\$ 716	\$ 1,531	\$ 708	\$ 2,955
143.06	\$ 716	\$ 1,531	\$ 708	\$ 2,955
144	\$ 1,178	\$ 2,885	\$ 1,457	\$ 5,519
144.01	\$ 205	\$ 445	\$ 296	\$ 946
144.02	\$ 1,061	\$ 2,578	\$ 1,068	\$ 4,707
144.03	\$ 1,061	\$ 2,578	\$ 1,068	\$ 4,707
144.04	\$ 1,061	\$ 2,578	\$ 1,068	\$ 4,707
144.05	\$ 1,061	\$ 2,578	\$ 1,068	\$ 4,707
145	\$ 636	\$ 1,534	\$ 792	\$ 2,963
145.01	\$ 596	\$ 1,379	\$ 651	\$ 2,625
145.02	\$ 763	\$ 1,851	\$ 876	\$ 3,489
145.03	\$ 763	\$ 1,851	\$ 876	\$ 3,489
145.04	\$ 763	\$ 1,851	\$ 876	\$ 3,489
145.05	\$ 763	\$ 1,851	\$ 876	\$ 3,489
145.06	\$ 763	\$ 1,851	\$ 876	\$ 3,489
145.07	\$ 763	\$ 1,851	\$ 876	\$ 3,489
146	\$ 45	\$ 105	\$ 46	\$ 196
147	\$ 707	\$ 1,717	\$ 861	\$ 3,285

Table E.1 Predicted Economic Losses for Essential Facilities for the CERI Hazard Scenario

Structure No.	Economic Losses (Thousands)			
	STR	NSA	NSD	Total
147.01	\$ 174	\$ 384	\$ 205	\$ 763
147.02	\$ 174	\$ 384	\$ 205	\$ 763
148	\$ 199	\$ 444	\$ 224	\$ 867
149	\$ 1,425	\$ 3,455	\$ 1,709	\$ 6,589
149.01	\$ 2,067	\$ 5,246	\$ 2,704	\$ 10,016
149.02	\$ 1,871	\$ 4,641	\$ 2,403	\$ 8,916
149.03	\$ 1,871	\$ 4,641	\$ 2,403	\$ 8,916
149.04	\$ 279	\$ 790	\$ 504	\$ 1,573
149.05	\$ 1,500	\$ 3,589	\$ 1,648	\$ 6,737
149.06	\$ 239	\$ 516	\$ 355	\$ 1,110
149.07	\$ 1,739	\$ 4,277	\$ 2,062	\$ 8,078
149.08	\$ 1,500	\$ 3,589	\$ 1,648	\$ 6,737
149.09	\$ 2,028	\$ 5,118	\$ 2,563	\$ 9,708
149.1	\$ 246	\$ 548	\$ 275	\$ 1,069
149.11	\$ 2,028	\$ 5,118	\$ 2,563	\$ 9,708
149.12	\$ 2,028	\$ 5,118	\$ 2,563	\$ 9,708
150	\$ 2,028	\$ 5,118	\$ 2,563	\$ 9,708
151	\$ 148	\$ 319	\$ 259	\$ 725
152	\$ 704	\$ 1,781	\$ 887	\$ 3,372
153	\$ 542	\$ 1,312	\$ 665	\$ 2,519
153.01	\$ 343	\$ 919	\$ 312	\$ 1,574
153.02	\$ 375	\$ 873	\$ 332	\$ 1,580
153.03	\$ 375	\$ 873	\$ 332	\$ 1,580
153.04	\$ 375	\$ 873	\$ 332	\$ 1,580
153.05	\$ 246	\$ 559	\$ 248	\$ 1,052
154	\$ 613	\$ 1,401	\$ 653	\$ 2,667
155	\$ 401	\$ 857	\$ 454	\$ 1,712
155.01	\$ 95	\$ 204	\$ 222	\$ 522
155.02	\$ 173	\$ 373	\$ 289	\$ 835
155.03	\$ 409	\$ 887	\$ 295	\$ 1,591
155.04	\$ 409	\$ 887	\$ 295	\$ 1,591
155.05	\$ 409	\$ 887	\$ 295	\$ 1,591
155.06	\$ 95	\$ 204	\$ 222	\$ 522
156	\$ 603	\$ 1,499	\$ 756	\$ 2,858

Table E.1 Predicted Economic Losses for Essential Facilities for the CERI Hazard Scenario

Structure No.	Economic Losses (Thousands)			
	STR	NSA	NSD	Total
157	\$ 478	\$ 1,144	\$ 595	\$ 2,217
157.01	\$ 340	\$ 721	\$ 318	\$ 1,379
157.02	\$ 354	\$ 762	\$ 344	\$ 1,460
157.03	\$ 354	\$ 762	\$ 344	\$ 1,460
157.04	\$ 354	\$ 762	\$ 344	\$ 1,460
157.05	\$ 354	\$ 762	\$ 344	\$ 1,460
158	\$ 246	\$ 544	\$ 289	\$ 1,079
159	\$ 79	\$ 196	\$ 103	\$ 377
159.01	\$ 82	\$ 203	\$ 100	\$ 384
159.02	\$ 10	\$ 35	\$ 26	\$ 70
159.03	\$ 93	\$ 237	\$ 121	\$ 451
160	\$ 80	\$ 195	\$ 97	\$ 373
161	\$ 934	\$ 2,257	\$ 1,119	\$ 4,311
161.01	\$ 127	\$ 273	\$ 239	\$ 640
161.02	\$ 1,140	\$ 2,788	\$ 1,341	\$ 5,268
161.03	\$ 155	\$ 334	\$ 251	\$ 740
161.04	\$ 155	\$ 334	\$ 251	\$ 740
161.05	\$ 155	\$ 334	\$ 251	\$ 740
161.06	\$ 155	\$ 334	\$ 251	\$ 740
162	\$ 305	\$ 738	\$ 374	\$ 1,417
162.01	\$ 111	\$ 250	\$ 119	\$ 481
162.02	\$ 28	\$ 102	\$ 102	\$ 232
162.03	\$ 111	\$ 250	\$ 119	\$ 481
162.04	\$ 185	\$ 498	\$ 168	\$ 850
162.05	\$ 28	\$ 102	\$ 102	\$ 232
162.06	\$ 28	\$ 102	\$ 102	\$ 232
163	\$ 547	\$ 1,177	\$ 622	\$ 2,346
163.01	\$ 129	\$ 276	\$ 300	\$ 705
163.02	\$ 129	\$ 276	\$ 300	\$ 705
163.03	\$ 129	\$ 276	\$ 300	\$ 705
163.04	\$ 654	\$ 1,786	\$ 536	\$ 2,976
163.05	\$ 113	\$ 244	\$ 287	\$ 645
163.06	\$ 206	\$ 444	\$ 344	\$ 995
164	\$ 74	\$ 165	\$ 83	\$ 323

Table E.1 Predicted Economic Losses for Essential Facilities for the CERl Hazard Scenario

Structure No.	Economic Losses (Thousands)			
	STR	NSA	NSD	Total
164.01	\$ 16	\$ 35	\$ 34	\$ 86
164.02	\$ 16	\$ 35	\$ 34	\$ 86
165	\$ 23	\$ 57	\$ 28	\$ 109
166	\$ 845	\$ 2,022	\$ 985	\$ 3,853
166.01	\$ 927	\$ 2,219	\$ 1,081	\$ 4,227
166.02	\$ 927	\$ 2,219	\$ 1,081	\$ 4,227
166.03	\$ 927	\$ 2,219	\$ 1,081	\$ 4,227
167	\$ 7	\$ 16	\$ 8	\$ 31
168	\$ 88	\$ 214	\$ 109	\$ 411
169	\$ 210	\$ 1,080	\$ 406	\$ 1,696
170	\$ 66	\$ 340	\$ 128	\$ 534
171	\$ 6,031	\$ 31,725	\$ 12,053	\$ 49,810
172	\$ 328	\$ 1,575	\$ 570	\$ 2,472
172.01	\$ 341	\$ 1,680	\$ 599	\$ 2,620
172.02	\$ 341	\$ 1,680	\$ 599	\$ 2,620
172.03	\$ 245	\$ 1,164	\$ 424	\$ 1,833
172.04	\$ 275	\$ 1,320	\$ 477	\$ 2,072
172.05	\$ 275	\$ 1,320	\$ 477	\$ 2,072
173	\$ 1,383	\$ 6,306	\$ 2,430	\$ 10,118
173.01	\$ 351	\$ 1,632	\$ 1,089	\$ 3,072
173.02	\$ 351	\$ 1,632	\$ 1,089	\$ 3,072
173.03	\$ 3,625	\$ 18,876	\$ 6,605	\$ 29,106
173.04	\$ 434	\$ 2,011	\$ 1,126	\$ 3,571
173.05	\$ 3,485	\$ 18,016	\$ 6,178	\$ 27,679
173.06	\$ 1,831	\$ 8,801	\$ 3,129	\$ 13,761
173.07	\$ 361	\$ 1,671	\$ 1,028	\$ 3,060
174	\$ 1,912	\$ 9,968	\$ 3,801	\$ 15,681
174.01	\$ 1,484	\$ 7,772	\$ 2,776	\$ 12,032
174.02	\$ 1,484	\$ 7,772	\$ 2,776	\$ 12,032
174.03	\$ 1,451	\$ 7,438	\$ 2,639	\$ 11,528
174.04	\$ 153	\$ 1,201	\$ 751	\$ 2,105
174.05	\$ 342	\$ 2,551	\$ 751	\$ 3,645
174.06	\$ 1,484	\$ 7,772	\$ 2,776	\$ 12,032
174.07	\$ 153	\$ 1,201	\$ 751	\$ 2,105

Table E.1 Predicted Economic Losses for Essential Facilities for the CERI Hazard Scenario

Structure No.	Economic Losses (Thousands)			
	STR	NSA	NSD	Total
174.08	\$ 673	\$ 3,881	\$ 992	\$ 5,546
174.09	\$ 1,302	\$ 6,622	\$ 2,454	\$ 10,378
174.1	\$ 1,484	\$ 7,772	\$ 2,776	\$ 12,032
174.11	\$ 578	\$ 2,965	\$ 1,118	\$ 4,661
174.12	\$ 1,484	\$ 7,772	\$ 2,776	\$ 12,032
174.13	\$ 427	\$ 2,150	\$ 747	\$ 3,323
174.14	\$ 1,302	\$ 6,622	\$ 2,454	\$ 10,378
174.15	\$ 374	\$ 1,866	\$ 688	\$ 2,928
174.16	\$ 1,302	\$ 6,622	\$ 2,454	\$ 10,378
174.17	\$ 374	\$ 1,866	\$ 688	\$ 2,928
175	\$ 1,426	\$ 7,324	\$ 2,458	\$ 11,208
175.01	\$ 374	\$ 1,866	\$ 688	\$ 2,928
175.02	\$ 673	\$ 3,881	\$ 992	\$ 5,546
175.03	\$ 344	\$ 1,622	\$ 542	\$ 2,508
175.04	\$ 1,751	\$ 9,276	\$ 3,363	\$ 14,390
175.05	\$ 406	\$ 1,995	\$ 684	\$ 3,084
175.06	\$ 1,302	\$ 6,622	\$ 2,454	\$ 10,378
175.07	\$ 364	\$ 1,811	\$ 664	\$ 2,840
175.08	\$ 374	\$ 1,866	\$ 688	\$ 2,928
175.09	\$ 374	\$ 1,866	\$ 688	\$ 2,928
175.1	\$ 427	\$ 2,150	\$ 747	\$ 3,323
176	\$ 57	\$ 266	\$ 155	\$ 479
177	\$ 590	\$ 3,035	\$ 1,097	\$ 4,723
178	\$ 669	\$ 3,494	\$ 1,321	\$ 5,484
178.01	\$ 436	\$ 2,179	\$ 734	\$ 3,349
178.02	\$ 477	\$ 2,429	\$ 831	\$ 3,736
178.03	\$ 551	\$ 2,876	\$ 1,024	\$ 4,450
178.04	\$ 497	\$ 2,558	\$ 936	\$ 3,991
178.05	\$ 562	\$ 2,997	\$ 1,077	\$ 4,637
178.06	\$ 477	\$ 2,429	\$ 831	\$ 3,736
178.07	\$ 477	\$ 2,429	\$ 831	\$ 3,736
178.08	\$ 436	\$ 2,179	\$ 734	\$ 3,349
178.09	\$ 514	\$ 2,648	\$ 931	\$ 4,092
178.1	\$ 523	\$ 2,754	\$ 976	\$ 4,253

Table E.1 Predicted Economic Losses for Essential Facilities for the CERl Hazard Scenario

Structure No.	Economic Losses (Thousands)			
	STR	NSA	NSD	Total
179	\$ 97	\$ 212	\$ 125	\$ 434
180	\$ 26	\$ 58	\$ 29	\$ 112
181.01	\$ 149	\$ 320	\$ 321	\$ 791
181.02	\$ 149	\$ 320	\$ 321	\$ 791
182	\$ 178	\$ 382	\$ 348	\$ 908
183.01	\$ 237	\$ 510	\$ 495	\$ 1,242
183.02	\$ 237	\$ 510	\$ 495	\$ 1,242
183.03	\$ 234	\$ 503	\$ 492	\$ 1,229
183.04	\$ 234	\$ 503	\$ 492	\$ 1,229
184	\$ 123	\$ 265	\$ 259	\$ 647
185	\$ 161	\$ 404	\$ 204	\$ 768
186	\$ 128	\$ 276	\$ 214	\$ 618
187.01	\$ 129	\$ 278	\$ 246	\$ 653
187.02	\$ 129	\$ 278	\$ 246	\$ 653
188.01	\$ 116	\$ 249	\$ 244	\$ 610
188.02	\$ 1,310	\$ 3,251	\$ 1,593	\$ 6,154
188.03	\$ 1,310	\$ 3,251	\$ 1,593	\$ 6,154
189	\$ 224	\$ 485	\$ 386	\$ 1,095
190.01	\$ 170	\$ 367	\$ 324	\$ 862
190.02	\$ 1,427	\$ 3,524	\$ 1,716	\$ 6,667
190.03	\$ 170	\$ 367	\$ 324	\$ 862
190.04	\$ 170	\$ 367	\$ 324	\$ 862
190.05	\$ 1,427	\$ 3,524	\$ 1,716	\$ 6,667
190.06	\$ 1,427	\$ 3,524	\$ 1,716	\$ 6,667
191	\$ 32	\$ 69	\$ 50	\$ 150
191.01	\$ 37	\$ 80	\$ 58	\$ 175
191.02	\$ 37	\$ 80	\$ 58	\$ 175
192	\$ 358	\$ 1,856	\$ 684	\$ 2,898
192.01	\$ 333	\$ 1,748	\$ 620	\$ 2,702
192.02	\$ 373	\$ 1,988	\$ 730	\$ 3,091
193	\$ 1,914	\$ 10,152	\$ 3,678	\$ 15,744
194	\$ 139	\$ 298	\$ 279	\$ 716
195	\$ 136	\$ 293	\$ 284	\$ 712
196.01	\$ 153	\$ 328	\$ 317	\$ 798

Table E.1 Predicted Economic Losses for Essential Facilities for the CERI Hazard Scenario

Structure No.	Economic Losses (Thousands)			
	STR	NSA	NSD	Total
196.02	\$ 672	\$ 1,518	\$ 535	\$ 2,724
197.01	\$ 235	\$ 504	\$ 478	\$ 1,217
197.02	\$ 1,019	\$ 2,308	\$ 818	\$ 4,144
197.03	\$ 1,019	\$ 2,308	\$ 818	\$ 4,144
198	\$ 849	\$ 2,083	\$ 1,091	\$ 4,022

Table E.2 Predicted Economic Losses for Essential Facilities for the USGS Hazard Scenario

Structure No.	Economic Losses (Thousands)			
	STR	NSA	NSD	Total
1	\$ 133	\$ 295	\$ 374	\$ 801
2.01	\$ 307	\$ 680	\$ 861	\$ 1,848
2.02	\$ 27	\$ 59	\$ 75	\$ 161
3.01	\$ 362	\$ 810	\$ 1,051	\$ 2,223
3.02	\$ 362	\$ 810	\$ 1,051	\$ 2,223
3.03	\$ 362	\$ 810	\$ 1,051	\$ 2,223
4	\$ 4,244	\$ 9,491	\$ 12,346	\$ 26,081
5	\$ 361	\$ 806	\$ 1,046	\$ 2,212
13	\$ 92	\$ 190	\$ 182	\$ 463
14.01	\$ 16	\$ 50	\$ 107	\$ 173
14.02	\$ 156	\$ 324	\$ 331	\$ 811
15	\$ 71	\$ 151	\$ 159	\$ 381
16	\$ 174	\$ 372	\$ 409	\$ 955
17.01	\$ 281	\$ 662	\$ 769	\$ 1,711
17.02	\$ 281	\$ 662	\$ 769	\$ 1,711
17.03	\$ 329	\$ 794	\$ 922	\$ 2,044
18	\$ 68	\$ 152	\$ 191	\$ 411
19.01	\$ 248	\$ 551	\$ 683	\$ 1,482
19.02	\$ 101	\$ 223	\$ 276	\$ 600
19.03	\$ 52	\$ 116	\$ 144	\$ 312
20	\$ 69	\$ 143	\$ 183	\$ 395
21	\$ 131	\$ 290	\$ 366	\$ 787

Table E.2 Predicted Economic Losses for Essential Facilities for the USGS Hazard Scenario

Structure No.	Economic Losses (Thousands)			
	STR	NSA	NSD	Total
22	\$ 432	\$ 954	\$ 1,205	\$ 2,591
23	\$ 37	\$ 107	\$ 132	\$ 275
24	\$ 13	\$ 38	\$ 60	\$ 111
25	\$ 84	\$ 185	\$ 220	\$ 489
26	\$ 203	\$ 472	\$ 495	\$ 1,170
27.01	\$ 46	\$ 134	\$ 198	\$ 379
27.02	\$ 15	\$ 45	\$ 66	\$ 126
28	\$ 94	\$ 204	\$ 248	\$ 545
29	\$ 58	\$ 173	\$ 303	\$ 535
30	\$ 38	\$ 115	\$ 156	\$ 309
31	\$ 26	\$ 77	\$ 141	\$ 245
32	\$ 53	\$ 109	\$ 111	\$ 273
33	\$ 80	\$ 168	\$ 177	\$ 426
34	\$ 76	\$ 159	\$ 168	\$ 403
35.01	\$ 72	\$ 124	\$ 116	\$ 312
35.02	\$ 47	\$ 91	\$ 85	\$ 223
36	\$ 48	\$ 85	\$ 83	\$ 216
37	\$ 67	\$ 122	\$ 120	\$ 309
38	\$ 33	\$ 51	\$ 58	\$ 142
39	\$ 48	\$ 85	\$ 87	\$ 220
40	\$ 53	\$ 94	\$ 90	\$ 237
41	\$ 155	\$ 291	\$ 282	\$ 729
42	\$ 137	\$ 248	\$ 260	\$ 645
43	\$ 150	\$ 278	\$ 284	\$ 713
44	\$ 178	\$ 305	\$ 322	\$ 804
45	\$ 45	\$ 77	\$ 76	\$ 198
46	\$ 78	\$ 137	\$ 133	\$ 348
47	\$ 69	\$ 124	\$ 123	\$ 317
48	\$ 83	\$ 153	\$ 147	\$ 383
49	\$ 63	\$ 127	\$ 116	\$ 306
50	\$ 504	\$ 982	\$ 1,032	\$ 2,518
51	\$ 114	\$ 164	\$ 183	\$ 460
52	\$ 170	\$ 284	\$ 295	\$ 749
53	\$ 34	\$ 60	\$ 58	\$ 152

Table E.2 Predicted Economic Losses for Essential Facilities for the USGS Hazard Scenario

Structure No.	Economic Losses (Thousands)			
	STR	NSA	NSD	Total
54	\$ 31	\$ 52	\$ 50	\$ 133
55	\$ 37	\$ 74	\$ 67	\$ 178
56	\$ 7	\$ 23	\$ 45	\$ 75
57.01	\$ 208	\$ 424	\$ 383	\$ 1,014
57.02	\$ 1	\$ 3	\$ 6	\$ 10
57.03	\$ 34	\$ 70	\$ 70	\$ 174
57.04	\$ 24	\$ 49	\$ 44	\$ 118
58	\$ 57	\$ 116	\$ 102	\$ 274
59	\$ 125	\$ 226	\$ 224	\$ 575
60	\$ 56	\$ 108	\$ 140	\$ 304
61	\$ 69	\$ 134	\$ 170	\$ 373
62	\$ 30	\$ 58	\$ 84	\$ 172
63	\$ 35	\$ 68	\$ 89	\$ 193
64	\$ 315	\$ 662	\$ 777	\$ 1,753
65	\$ 39	\$ 76	\$ 112	\$ 227
66	\$ 45	\$ 91	\$ 102	\$ 237
67	\$ 147	\$ 286	\$ 317	\$ 750
68	\$ 108	\$ 216	\$ 250	\$ 573
69	\$ 92	\$ 185	\$ 184	\$ 461
70	\$ 14	\$ 27	\$ 39	\$ 81
71	\$ 57	\$ 117	\$ 114	\$ 288
72	\$ 165	\$ 323	\$ 410	\$ 899
73.01	\$ 3,057	\$ 7,103	\$ 8,582	\$ 18,743
73.02	\$ 2,260	\$ 5,345	\$ 6,523	\$ 14,128
73.03	\$ 3,570	\$ 8,837	\$ 11,235	\$ 23,643
73.04	\$ 2,996	\$ 7,258	\$ 8,781	\$ 19,035
73.05	\$ 2,260	\$ 5,345	\$ 6,523	\$ 14,128
73.06	\$ 2,260	\$ 5,345	\$ 6,523	\$ 14,128
74	\$ 1,954	\$ 2,827	\$ 1,860	\$ 6,642
75	\$ 234	\$ 466	\$ 483	\$ 1,182
76	\$ 998	\$ 1,878	\$ 1,968	\$ 4,844
77.01	\$ 370	\$ 817	\$ 980	\$ 2,167
77.02	\$ 370	\$ 817	\$ 980	\$ 2,167
77.03	\$ 806	\$ 1,861	\$ 1,779	\$ 4,446

Table E.2 Predicted Economic Losses for Essential Facilities for the USGS Hazard Scenario

Structure No.	Economic Losses (Thousands)			
	STR	NSA	NSD	Total
77.04	\$ 806	\$ 1,861	\$ 1,779	\$ 4,446
77.05	\$ 806	\$ 1,861	\$ 1,779	\$ 4,446
78	\$ 226	\$ 481	\$ 587	\$ 1,293
79	\$ 226	\$ 481	\$ 587	\$ 1,293
80	\$ 228	\$ 485	\$ 582	\$ 1,295
81	\$ 244	\$ 521	\$ 626	\$ 1,391
82	\$ 43	\$ 135	\$ 300	\$ 478
83.01	\$ 221	\$ 462	\$ 543	\$ 1,225
83.02	\$ 177	\$ 365	\$ 350	\$ 892
84	\$ 144	\$ 295	\$ 334	\$ 773
85.01	\$ 187	\$ 389	\$ 398	\$ 974
85.02	\$ 120	\$ 244	\$ 282	\$ 646
86	\$ 134	\$ 325	\$ 380	\$ 838
88.01	\$ 32	\$ 61	\$ 99	\$ 193
88.02	\$ 32	\$ 61	\$ 99	\$ 193
88.03	\$ 32	\$ 61	\$ 99	\$ 193
88.04	\$ 32	\$ 61	\$ 99	\$ 193
88.05	\$ 32	\$ 61	\$ 99	\$ 193
89	\$ 29	\$ 55	\$ 94	\$ 178
90	\$ 29	\$ 55	\$ 94	\$ 178
91	\$ 113	\$ 220	\$ 251	\$ 584
94	\$ 74	\$ 145	\$ 184	\$ 404
95	\$ 176	\$ 363	\$ 338	\$ 877
96	\$ 207	\$ 421	\$ 470	\$ 1,098
97	\$ 190	\$ 390	\$ 463	\$ 1,042
98	\$ 48	\$ 91	\$ 131	\$ 270
99	\$ 74	\$ 145	\$ 184	\$ 404
100	\$ 702	\$ 1,714	\$ 952	\$ 3,367
101	\$ 868	\$ 2,147	\$ 1,194	\$ 4,209
102	\$ 889	\$ 2,184	\$ 1,182	\$ 4,254
103.01	\$ 1,886	\$ 4,866	\$ 2,774	\$ 9,527
103.02	\$ 1,768	\$ 4,506	\$ 2,563	\$ 8,837
104	\$ 1,227	\$ 3,014	\$ 1,631	\$ 5,872
105.01	\$ 918	\$ 2,248	\$ 1,236	\$ 4,402

*Table E.2 Predicted Economic Losses for Essential Facilities for the
USGS Hazard Scenario*

Structure No.	Economic Losses (Thousands)			
	STR	NSA	NSD	Total
105.02	\$ 1,313	\$ 3,347	\$ 1,904	\$ 6,564
105.03	\$ 918	\$ 2,248	\$ 1,236	\$ 4,402
106	\$ 509	\$ 1,282	\$ 702	\$ 2,494
109.01	\$ 3,950	\$ 21,581	\$ 8,940	\$ 34,472
109.02	\$ 759	\$ 4,145	\$ 1,717	\$ 6,621
109.03	\$ 3,950	\$ 21,581	\$ 8,940	\$ 34,472
109.04	\$ 3,702	\$ 19,985	\$ 8,260	\$ 31,947
109.05	\$ 3,702	\$ 19,985	\$ 8,260	\$ 31,947
109.06	\$ 3,702	\$ 19,985	\$ 8,260	\$ 31,947
109.07	\$ 3,702	\$ 19,985	\$ 8,260	\$ 31,947
110	\$ 688	\$ 1,756	\$ 989	\$ 3,433
111	\$ 2,832	\$ 7,278	\$ 4,146	\$ 14,257
112	\$ 1,118	\$ 2,884	\$ 1,647	\$ 5,649
113.01	\$ 914	\$ 2,241	\$ 1,211	\$ 4,365
113.02	\$ 1,373	\$ 3,517	\$ 1,985	\$ 6,875
113.03	\$ 1,373	\$ 3,517	\$ 1,985	\$ 6,875
114.01	\$ 537	\$ 2,869	\$ 1,199	\$ 4,606
114.02	\$ 537	\$ 2,869	\$ 1,199	\$ 4,606
114.03	\$ 500	\$ 2,664	\$ 1,045	\$ 4,208
115	\$ 441	\$ 1,132	\$ 641	\$ 2,214
116.01	\$ 1,036	\$ 2,670	\$ 1,567	\$ 5,273
116.02	\$ 1,003	\$ 2,570	\$ 1,471	\$ 5,043
116.03	\$ 1,003	\$ 2,570	\$ 1,471	\$ 5,043
116.04	\$ 893	\$ 2,243	\$ 1,286	\$ 4,422
117.01	\$ 593	\$ 1,516	\$ 894	\$ 3,003
117.02	\$ 600	\$ 1,538	\$ 908	\$ 3,045
117.03	\$ 583	\$ 1,492	\$ 851	\$ 2,925
117.04	\$ 594	\$ 1,525	\$ 873	\$ 2,992
118.01	\$ 541	\$ 1,393	\$ 810	\$ 2,745
118.02	\$ 532	\$ 1,360	\$ 802	\$ 2,694
118.03	\$ 540	\$ 1,387	\$ 817	\$ 2,744
118.04	\$ 458	\$ 1,149	\$ 656	\$ 2,264
119.01	\$ 821	\$ 2,046	\$ 1,097	\$ 3,964
119.02	\$ 501	\$ 1,200	\$ 609	\$ 2,309

Table E.2 Predicted Economic Losses for Essential Facilities for the USGS Hazard Scenario

Structure No.	Economic Losses (Thousands)			
	STR	NSA	NSD	Total
119.03	\$ 501	\$ 1,200	\$ 609	\$ 2,309
119.04	\$ 454	\$ 1,131	\$ 606	\$ 2,192
120.01	\$ 867	\$ 2,078	\$ 1,054	\$ 3,999
120.02	\$ 867	\$ 2,078	\$ 1,054	\$ 3,999
122	\$ 563	\$ 1,309	\$ 682	\$ 2,555
123.01	\$ 1,256	\$ 2,977	\$ 1,549	\$ 5,783
123.02	\$ 845	\$ 1,976	\$ 919	\$ 3,739
123.03	\$ 697	\$ 1,622	\$ 845	\$ 3,164
123.04	\$ 697	\$ 1,622	\$ 845	\$ 3,164
123.05	\$ 845	\$ 1,976	\$ 919	\$ 3,739
124	\$ 477	\$ 1,086	\$ 597	\$ 2,160
125	\$ 551	\$ 1,283	\$ 668	\$ 2,502
130	\$ 177	\$ 890	\$ 340	\$ 1,408
131	\$ 264	\$ 1,308	\$ 496	\$ 2,068
133	\$ 68	\$ 147	\$ 111	\$ 327
135	\$ 53	\$ 123	\$ 62	\$ 237
135.01	\$ 40	\$ 91	\$ 46	\$ 178
135.02	\$ 69	\$ 163	\$ 73	\$ 306
135.03	\$ 40	\$ 91	\$ 46	\$ 178
136.01	\$ 105	\$ 227	\$ 162	\$ 494
136.02	\$ 204	\$ 540	\$ 201	\$ 945
136.03	\$ 204	\$ 540	\$ 201	\$ 945
136.04	\$ 353	\$ 806	\$ 287	\$ 1,445
136.05	\$ 353	\$ 806	\$ 287	\$ 1,445
136.06	\$ 353	\$ 806	\$ 287	\$ 1,445
136.07	\$ 353	\$ 806	\$ 287	\$ 1,445
136.08	\$ 353	\$ 806	\$ 287	\$ 1,445
136.09	\$ 353	\$ 806	\$ 287	\$ 1,445
136.1	\$ 117	\$ 253	\$ 193	\$ 563
136.11	\$ 353	\$ 806	\$ 287	\$ 1,445
136.12	\$ 353	\$ 806	\$ 287	\$ 1,445
137	\$ 353	\$ 806	\$ 287	\$ 1,445
138	\$ 290	\$ 584	\$ 251	\$ 1,125
139	\$ 373	\$ 834	\$ 428	\$ 1,635

*Table E.2 Predicted Economic Losses for Essential Facilities for the
USGS Hazard Scenario*

Structure No.	Economic Losses (Thousands)			
	STR	NSA	NSD	Total
139.01	\$ 140	\$ 306	\$ 198	\$ 644
139.02	\$ 148	\$ 395	\$ 185	\$ 728
139.03	\$ 309	\$ 681	\$ 244	\$ 1,235
139.04	\$ 309	\$ 681	\$ 244	\$ 1,235
140	\$ 298	\$ 667	\$ 338	\$ 1,303
140.01	\$ 88	\$ 189	\$ 144	\$ 421
140.02	\$ 287	\$ 644	\$ 224	\$ 1,155
140.03	\$ 287	\$ 644	\$ 224	\$ 1,155
140.04	\$ 287	\$ 644	\$ 224	\$ 1,155
140.05	\$ 287	\$ 644	\$ 224	\$ 1,155
140.06	\$ 287	\$ 644	\$ 224	\$ 1,155
140.07	\$ 287	\$ 644	\$ 224	\$ 1,155
141	\$ 344	\$ 779	\$ 398	\$ 1,521
141.01	\$ 259	\$ 569	\$ 294	\$ 1,122
141.02	\$ 259	\$ 569	\$ 294	\$ 1,122
141.03	\$ 232	\$ 540	\$ 220	\$ 992
141.04	\$ 50	\$ 180	\$ 166	\$ 396
141.05	\$ 50	\$ 180	\$ 166	\$ 396
142	\$ 137	\$ 318	\$ 160	\$ 615
142.01	\$ 97	\$ 196	\$ 85	\$ 379
142.02	\$ 45	\$ 118	\$ 47	\$ 210
143	\$ 688	\$ 1,555	\$ 791	\$ 3,034
143.01	\$ 449	\$ 844	\$ 384	\$ 1,677
143.02	\$ 552	\$ 1,280	\$ 497	\$ 2,329
143.03	\$ 552	\$ 1,280	\$ 497	\$ 2,329
143.04	\$ 496	\$ 1,085	\$ 562	\$ 2,143
143.05	\$ 449	\$ 844	\$ 384	\$ 1,677
143.06	\$ 449	\$ 844	\$ 384	\$ 1,677
144	\$ 602	\$ 1,362	\$ 686	\$ 2,650
144.01	\$ 175	\$ 377	\$ 280	\$ 832
144.02	\$ 581	\$ 1,314	\$ 461	\$ 2,356
144.03	\$ 581	\$ 1,314	\$ 461	\$ 2,356
144.04	\$ 581	\$ 1,314	\$ 461	\$ 2,356
144.05	\$ 581	\$ 1,314	\$ 461	\$ 2,356

Table E.2 Predicted Economic Losses for Essential Facilities for the USGS Hazard Scenario

Structure No.	Economic Losses (Thousands)			
	STR	NSA	NSD	Total
145	\$ 443	\$ 1,010	\$ 522	\$ 1,976
145.01	\$ 354	\$ 726	\$ 341	\$ 1,421
145.02	\$ 507	\$ 1,105	\$ 470	\$ 2,081
145.03	\$ 507	\$ 1,105	\$ 470	\$ 2,081
145.04	\$ 507	\$ 1,105	\$ 470	\$ 2,081
145.05	\$ 507	\$ 1,105	\$ 470	\$ 2,081
145.06	\$ 507	\$ 1,105	\$ 470	\$ 2,081
145.07	\$ 507	\$ 1,105	\$ 470	\$ 2,081
146	\$ 33	\$ 75	\$ 30	\$ 138
147	\$ 359	\$ 804	\$ 406	\$ 1,569
147.01	\$ 129	\$ 283	\$ 180	\$ 592
147.02	\$ 129	\$ 283	\$ 180	\$ 592
148	\$ 69	\$ 148	\$ 132	\$ 349
149	\$ 864	\$ 1,971	\$ 985	\$ 3,820
149.01	\$ 1,530	\$ 3,629	\$ 1,763	\$ 6,923
149.02	\$ 1,405	\$ 3,350	\$ 1,699	\$ 6,454
149.03	\$ 1,405	\$ 3,350	\$ 1,699	\$ 6,454
149.04	\$ 283	\$ 801	\$ 529	\$ 1,614
149.05	\$ 996	\$ 2,150	\$ 937	\$ 4,083
149.06	\$ 246	\$ 533	\$ 381	\$ 1,160
149.07	\$ 1,197	\$ 2,721	\$ 1,243	\$ 5,161
149.08	\$ 996	\$ 2,150	\$ 937	\$ 4,083
149.09	\$ 1,537	\$ 3,663	\$ 1,666	\$ 6,867
149.1	\$ 117	\$ 253	\$ 193	\$ 563
149.11	\$ 1,537	\$ 3,663	\$ 1,666	\$ 6,867
149.12	\$ 1,537	\$ 3,663	\$ 1,666	\$ 6,867
150	\$ 1,537	\$ 3,663	\$ 1,666	\$ 6,867
151	\$ 166	\$ 359	\$ 256	\$ 781
152	\$ 386	\$ 839	\$ 380	\$ 1,604
153	\$ 288	\$ 646	\$ 327	\$ 1,261
153.01	\$ 169	\$ 456	\$ 153	\$ 778
153.02	\$ 278	\$ 624	\$ 217	\$ 1,118
153.03	\$ 278	\$ 624	\$ 217	\$ 1,118
153.04	\$ 278	\$ 624	\$ 217	\$ 1,118

Table E.2 Predicted Economic Losses for Essential Facilities for the USGS Hazard Scenario

Structure No.	Economic Losses (Thousands)			
	STR	NSA	NSD	Total
153.05	\$ 104	\$ 228	\$ 145	\$ 477
154	\$ 385	\$ 776	\$ 334	\$ 1,495
155	\$ 546	\$ 1,212	\$ 618	\$ 2,376
155.01	\$ 176	\$ 379	\$ 287	\$ 841
155.02	\$ 164	\$ 354	\$ 276	\$ 795
155.03	\$ 531	\$ 1,182	\$ 406	\$ 2,119
155.04	\$ 531	\$ 1,182	\$ 406	\$ 2,119
155.05	\$ 531	\$ 1,182	\$ 406	\$ 2,119
155.06	\$ 164	\$ 354	\$ 276	\$ 795
156	\$ 359	\$ 764	\$ 352	\$ 1,476
157	\$ 395	\$ 919	\$ 463	\$ 1,777
157.01	\$ 306	\$ 631	\$ 272	\$ 1,209
157.02	\$ 306	\$ 631	\$ 272	\$ 1,209
157.03	\$ 306	\$ 631	\$ 272	\$ 1,209
157.04	\$ 306	\$ 631	\$ 272	\$ 1,209
157.05	\$ 306	\$ 631	\$ 272	\$ 1,209
158	\$ 134	\$ 289	\$ 224	\$ 646
159	\$ 50	\$ 116	\$ 59	\$ 224
159.01	\$ 43	\$ 93	\$ 42	\$ 178
159.02	\$ 7	\$ 24	\$ 21	\$ 52
159.03	\$ 58	\$ 134	\$ 58	\$ 250
160	\$ 40	\$ 90	\$ 46	\$ 176
161	\$ 489	\$ 1,093	\$ 561	\$ 2,143
161.01	\$ 149	\$ 323	\$ 250	\$ 722
161.02	\$ 520	\$ 1,066	\$ 501	\$ 2,087
161.03	\$ 149	\$ 323	\$ 250	\$ 722
161.04	\$ 149	\$ 323	\$ 250	\$ 722
161.05	\$ 149	\$ 323	\$ 250	\$ 722
161.06	\$ 149	\$ 323	\$ 250	\$ 722
162	\$ 158	\$ 353	\$ 181	\$ 692
162.01	\$ 48	\$ 104	\$ 81	\$ 233
162.02	\$ 19	\$ 71	\$ 80	\$ 170
162.03	\$ 48	\$ 104	\$ 81	\$ 233
162.04	\$ 63	\$ 185	\$ 75	\$ 322

Table E.2 Predicted Economic Losses for Essential Facilities for the USGS Hazard Scenario

Structure No.	Economic Losses (Thousands)			
	STR	NSA	NSD	Total
162.05	\$ 19	\$ 71	\$ 80	\$ 170
162.06	\$ 19	\$ 71	\$ 80	\$ 170
163	\$ 925	\$ 2,123	\$ 1,066	\$ 4,114
163.01	\$ 261	\$ 565	\$ 410	\$ 1,235
163.02	\$ 261	\$ 565	\$ 410	\$ 1,235
163.03	\$ 261	\$ 565	\$ 410	\$ 1,235
163.04	\$ 435	\$ 1,229	\$ 442	\$ 2,106
163.05	\$ 261	\$ 565	\$ 410	\$ 1,235
163.06	\$ 261	\$ 565	\$ 410	\$ 1,235
164	\$ 90	\$ 205	\$ 103	\$ 398
164.01	\$ 26	\$ 56	\$ 40	\$ 121
164.02	\$ 26	\$ 56	\$ 40	\$ 121
165	\$ 14	\$ 32	\$ 16	\$ 62
166	\$ 596	\$ 1,367	\$ 686	\$ 2,649
166.01	\$ 654	\$ 1,500	\$ 753	\$ 2,907
166.02	\$ 654	\$ 1,500	\$ 753	\$ 2,907
166.03	\$ 654	\$ 1,500	\$ 753	\$ 2,907
167	\$ 10	\$ 23	\$ 11	\$ 44
168	\$ 45	\$ 100	\$ 51	\$ 196
169	\$ 140	\$ 680	\$ 255	\$ 1,075
170	\$ 44	\$ 214	\$ 80	\$ 338
171	\$ 3,913	\$ 19,386	\$ 7,130	\$ 30,429
172	\$ 322	\$ 1,543	\$ 563	\$ 2,427
172.01	\$ 269	\$ 1,293	\$ 471	\$ 2,034
172.02	\$ 269	\$ 1,293	\$ 471	\$ 2,034
172.03	\$ 269	\$ 1,293	\$ 471	\$ 2,034
172.04	\$ 269	\$ 1,293	\$ 471	\$ 2,034
172.05	\$ 269	\$ 1,293	\$ 471	\$ 2,034
173	\$ 2,364	\$ 11,473	\$ 4,167	\$ 18,004
173.01	\$ 511	\$ 2,375	\$ 1,232	\$ 4,118
173.02	\$ 511	\$ 2,375	\$ 1,232	\$ 4,118
173.03	\$ 2,505	\$ 12,089	\$ 4,012	\$ 18,606
173.04	\$ 511	\$ 2,375	\$ 1,232	\$ 4,118
173.05	\$ 2,505	\$ 12,089	\$ 4,012	\$ 18,606

*Table E.2 Predicted Economic Losses for Essential Facilities for the
USGS Hazard Scenario*

Structure No.	Economic Losses (Thousands)			
	STR	NSA	NSD	Total
173.06	\$ 1,981	\$ 9,614	\$ 3,491	\$ 15,087
173.07	\$ 511	\$ 2,375	\$ 1,232	\$ 4,118
174	\$ 1,331	\$ 6,591	\$ 2,424	\$ 10,346
174.01	\$ 924	\$ 4,270	\$ 1,405	\$ 6,599
174.02	\$ 924	\$ 4,270	\$ 1,405	\$ 6,599
174.03	\$ 881	\$ 4,050	\$ 1,326	\$ 6,256
174.04	\$ 77	\$ 623	\$ 497	\$ 1,197
174.05	\$ 131	\$ 1,035	\$ 489	\$ 1,655
174.06	\$ 924	\$ 4,270	\$ 1,405	\$ 6,599
174.07	\$ 77	\$ 623	\$ 497	\$ 1,197
174.08	\$ 348	\$ 2,116	\$ 539	\$ 3,003
174.09	\$ 738	\$ 3,519	\$ 1,293	\$ 5,550
174.1	\$ 924	\$ 4,270	\$ 1,405	\$ 6,599
174.11	\$ 469	\$ 2,335	\$ 856	\$ 3,660
174.12	\$ 924	\$ 4,270	\$ 1,405	\$ 6,599
174.13	\$ 333	\$ 1,562	\$ 512	\$ 2,407
174.14	\$ 738	\$ 3,519	\$ 1,293	\$ 5,550
174.15	\$ 250	\$ 1,190	\$ 437	\$ 1,876
174.16	\$ 738	\$ 3,519	\$ 1,293	\$ 5,550
174.17	\$ 250	\$ 1,190	\$ 437	\$ 1,876
175	\$ 795	\$ 3,945	\$ 1,154	\$ 5,894
175.01	\$ 250	\$ 1,190	\$ 437	\$ 1,876
175.02	\$ 348	\$ 2,116	\$ 539	\$ 3,003
175.03	\$ 264	\$ 1,159	\$ 362	\$ 1,785
175.04	\$ 1,196	\$ 5,813	\$ 1,831	\$ 8,841
175.05	\$ 319	\$ 1,483	\$ 484	\$ 2,285
175.06	\$ 738	\$ 3,519	\$ 1,293	\$ 5,550
175.07	\$ 250	\$ 1,190	\$ 437	\$ 1,876
175.08	\$ 250	\$ 1,190	\$ 437	\$ 1,876
175.09	\$ 250	\$ 1,190	\$ 437	\$ 1,876
175.1	\$ 333	\$ 1,562	\$ 512	\$ 2,407
176	\$ 76	\$ 354	\$ 184	\$ 614
177	\$ 297	\$ 1,410	\$ 526	\$ 2,233
178	\$ 456	\$ 2,261	\$ 832	\$ 3,549

Table E.2 Predicted Economic Losses for Essential Facilities for the USGS Hazard Scenario

Structure No.	Economic Losses (Thousands)			
	STR	NSA	NSD	Total
178.01	\$ 251	\$ 1,085	\$ 343	\$ 1,679
178.02	\$ 251	\$ 1,085	\$ 343	\$ 1,679
178.03	\$ 302	\$ 1,389	\$ 455	\$ 2,146
178.04	\$ 253	\$ 1,207	\$ 444	\$ 1,904
178.05	\$ 317	\$ 1,465	\$ 482	\$ 2,264
178.06	\$ 251	\$ 1,085	\$ 343	\$ 1,679
178.07	\$ 251	\$ 1,085	\$ 343	\$ 1,679
178.08	\$ 251	\$ 1,085	\$ 343	\$ 1,679
178.09	\$ 302	\$ 1,389	\$ 455	\$ 2,146
178.1	\$ 317	\$ 1,465	\$ 482	\$ 2,264
179	\$ 47	\$ 101	\$ 88	\$ 236
180	\$ 16	\$ 35	\$ 19	\$ 70
181.01	\$ 360	\$ 795	\$ 501	\$ 1,656
181.02	\$ 360	\$ 795	\$ 501	\$ 1,656
182	\$ 513	\$ 1,156	\$ 632	\$ 2,301
183.01	\$ 796	\$ 1,794	\$ 981	\$ 3,571
183.02	\$ 796	\$ 1,794	\$ 981	\$ 3,571
183.03	\$ 796	\$ 1,794	\$ 981	\$ 3,571
183.04	\$ 796	\$ 1,794	\$ 981	\$ 3,571
184	\$ 419	\$ 945	\$ 517	\$ 1,881
185	\$ 112	\$ 263	\$ 132	\$ 507
186	\$ 296	\$ 670	\$ 360	\$ 1,326
187.01	\$ 347	\$ 786	\$ 422	\$ 1,555
187.02	\$ 347	\$ 786	\$ 422	\$ 1,555
188.01	\$ 278	\$ 613	\$ 386	\$ 1,277
188.02	\$ 953	\$ 2,218	\$ 1,076	\$ 4,247
188.03	\$ 953	\$ 2,218	\$ 1,076	\$ 4,247
189	\$ 558	\$ 1,262	\$ 677	\$ 2,496
190.01	\$ 461	\$ 1,043	\$ 559	\$ 2,063
190.02	\$ 931	\$ 2,084	\$ 1,038	\$ 4,054
190.03	\$ 461	\$ 1,043	\$ 559	\$ 2,063
190.04	\$ 461	\$ 1,043	\$ 559	\$ 2,063
190.05	\$ 931	\$ 2,084	\$ 1,038	\$ 4,054
190.06	\$ 931	\$ 2,084	\$ 1,038	\$ 4,054

Table E.2 Predicted Economic Losses for Essential Facilities for the USGS Hazard Scenario

Structure No.	Economic Losses (Thousands)			
	STR	NSA	NSD	Total
191	\$ 69	\$ 156	\$ 84	\$ 309
191.01	\$ 80	\$ 182	\$ 98	\$ 360
191.02	\$ 80	\$ 182	\$ 98	\$ 360
192	\$ 266	\$ 1,336	\$ 519	\$ 2,121
192.01	\$ 215	\$ 1,023	\$ 370	\$ 1,608
192.02	\$ 258	\$ 1,285	\$ 469	\$ 2,012
193	\$ 1,623	\$ 8,362	\$ 3,068	\$ 13,053
194	\$ 495	\$ 1,133	\$ 591	\$ 2,218
195	\$ 395	\$ 885	\$ 506	\$ 1,787
196.01	\$ 438	\$ 980	\$ 560	\$ 1,978
196.02	\$ 1,042	\$ 2,480	\$ 1,051	\$ 4,572
197.01	\$ 649	\$ 1,453	\$ 830	\$ 2,931
197.02	\$ 1,544	\$ 3,675	\$ 1,557	\$ 6,776
197.03	\$ 1,544	\$ 3,675	\$ 1,557	\$ 6,776
198	\$ 602	\$ 1,406	\$ 712	\$ 2,720

Table E.3 Predicted Economic Losses for Bridges

HazusID	Bridge Class	Year Built	Year Remodeled	Latitude	Longitude	Economic Losses (Thousands)	Damage ratio
TN001276	HWB3	1923	1953	36.0776	-89.3263	\$ 61.97	0.179
TN001277	HWB5	1953	1953	36.0817	-89.3206	\$ 386.22	0.817
TN001278	HWB4	1923	2010	36.0851	-89.3155	\$ 124.80	0.371
TN001279	HWB3	1922	1953	36.0853	-89.3154	\$ 57.41	0.276
TN001280	HWB5	1928	1962	36.1785	-89.2162	\$ 428.08	0.558
TN001281	HWB5	1928	1962	36.1869	-89.2092	\$ 379.00	0.535
TN001282	HWB7	1924	2009	35.9335	-89.3895	\$ 304.77	0.121
TN001283	HWB4	2006		35.9374	-89.3891	\$ 256.33	0.182
TN001284	HWB1	1975	1987	36.1116	-89.6112	\$ 18,765.68	0.073
TN001285	HWB22	1977		36.0895	-89.5686	\$ 246.03	0.177
TN001286	HWB22	1977		36.0893	-89.5686	\$ 246.03	0.177
TN001287	HWB22	1977		36.0843	-89.5458	\$ 644.91	0.125
TN001288	HWB22	1977		36.0845	-89.5458	\$ 644.91	0.125

Table E.3 Predicted Economic Losses for Bridges

HazusID	Bridge Class	Year Built	Year Remodeled	Latitude	Longitude	Economic Losses (Thousands)	Damage ratio
TN001289	HWB17	1977		36.2411	-89.5308	\$ 1,855.80	0.197
TN001290	HWB17	1977		36.0812	-89.5309	\$ 1,818.33	0.193
TN001291	HWB22	1977		36.0781	-89.5176	\$ 655.97	0.127
TN001292	HWB22	1977		36.0782	-89.5176	\$ 655.97	0.127
TN001293	HWB22	1977		36.0761	-89.5011	\$ 581.60	0.300
TN001294	HWB22	1977		36.0759	-89.5010	\$ 654.30	0.300
TN001295	HWB22	1977		36.0754	-89.4969	\$ 620.65	0.303
TN001296	HWB22	1977		36.0756	-89.4968	\$ 620.65	0.303
TN001297	HWB15	1977		36.0930	-89.5859	\$ 1,422.00	0.469
TN001298	HWB10	1979		36.0688	-89.3967	\$ 764.67	0.394
TN001299	HWB10	1979		36.0686	-89.3967	\$ 930.77	0.389
TN001300	HWB28	1979		36.0685	-89.3901	\$ 108.88	0.422
TN001301	HWB17	1979		36.0684	-89.3823	\$ 759.37	0.573
TN001302	HWB17	1979		36.0687	-89.3825	\$ 759.37	0.573
TN001303	HWB23	1979	1997	36.0732	-89.3477	\$ 745.61	0.353
TN001304	HWB23	1979	1997	36.0733	-89.3475	\$ 745.61	0.353
TN001305	HWB28	1960		36.1017	-89.4377	\$ 48.25	0.281
TN001306	HWB19	1960	2014	36.0855	-89.4871	\$ 188.17	0.215
TN001307	HWB19	1959	1995	35.9481	-89.4082	\$ 983.29	0.099
TN001308	HWB19	1959	1995	35.9481	-89.4082	\$ 983.29	0.099
TN001309	HWB7	1995	1959	35.9521	-89.4041	\$ 424.57	0.118
TN001310	HWB7	1995	1959	35.9521	-89.4041	\$ 424.57	0.118
TN001311	HWB7	1933	1991	36.0215	-89.3902	\$ 1,078.57	0.109
TN001312	HWB16	1933	1991	36.0294	-89.3863	\$ 1,607.23	0.091
TN001313	HWB17	1923	1953	36.0537	-89.3614	\$ 1,478.09	0.566
TN001314	HWB28	1980		36.0552	-89.3593	\$ 234.68	0.191
TN001315	HWB28	1979		36.0913	-89.3210	\$ 57.81	0.269
TN001316	HWB28	1979		36.0957	-89.3147	\$ 47.36	0.275
TN001317	HWB10	1979		36.1215	-89.2811	\$ 1,056.78	0.401
TN001318	HWB22	1979		36.1808	-89.2247	\$ 504.08	0.276
TN001319	HWB22	1979		36.1807	-89.2244	\$ 504.08	0.276
TN001320	HWB22	1984		36.0662	-89.3436	\$ 787.05	0.212
TN001321	HWB22	1984		36.0660	-89.3434	\$ 787.05	0.212
TN001322	HWB5	1959		36.0203	-89.4055	\$ 515.65	0.184
TN001323	HWB5	1959		36.0203	-89.4055	\$ 515.65	0.184

Table E.3 Predicted Economic Losses for Bridges

HazusID	Bridge Class	Year Built	Year Remodeled	Latitude	Longitude	Economic Losses (Thousands)	Damage ratio
TN001324	HWB14	1959	1993	36.0218	-89.4071	\$ 941.44	0.129
TN001325	HWB14	1959	1993	36.0218	-89.4071	\$ 941.44	0.129
TN001326	HWB28	1920		36.0593	-89.5911	\$ 62.18	0.155
TN001327	HWB17	1987		36.0584	-89.5881	\$ 939.25	0.526
TN001328	HWB22	1985		36.0557	-89.5794	\$ 136.96	0.180
TN001329	HWB22	1985		36.0505	-89.5626	\$ 141.66	0.186
TN001330	HWB28	1948	1993	36.0488	-89.5572	\$ 270.52	0.076
TN001331	HWB28	1997		36.0408	-89.5257	\$ 77.95	0.183
TN001332	HWB4	2009		36.0359	-89.4865	\$ 114.59	0.295
TN001333	HWB4	1920	1992	36.0343	-89.4672	\$ 85.45	0.286
TN001334	HWB4	1920	1992	36.0360	-89.4261	\$ 115.58	0.286
TN001335	HWB23	2000		35.9760	-89.3864	\$ 364.50	0.182
TN001336	HWB16	2005		35.9723	-89.3632	\$ 3,452.76	0.272
TN001337	HWB4	1940	1992	36.0340	-89.4395	\$ 93.19	0.356
TN001338	HWB23	1995		36.0375	-89.3377	\$ 762.43	0.248
TN001339	HWB17	1985		36.0351	-89.3391	\$ 1,478.50	0.550
TN001340	HWB23	1994		36.0487	-89.3341	\$ 443.02	0.225
TN001341	HWB22	1985		36.0487	-89.3341	\$ 461.02	0.232
TN001342	HWB23	1994		36.0522	-89.3349	\$ 611.09	0.245
TN001343	HWB22	1985		36.0522	-89.3349	\$ 621.64	0.251
TN001344	HWB22	1986		36.0252	-89.3398	\$ 520.50	0.229
TN001345	HWB22	1986		36.0252	-89.3398	\$ 520.50	0.229
TN001346	HWB17	1986		36.0173	-89.3404	\$ 1,368.33	0.339
TN001347	HWB17	1986		36.0173	-89.3404	\$ 1,368.33	0.339
TN001348	HWB19	1994		35.9928	-89.3421	\$ 2,438.34	0.080
TN001349	HWB17	1986		35.9986	-89.3419	\$ 2,853.54	0.104
TN001350	HWB19	1995		35.9945	-89.3421	\$ 604.71	0.124
TN001351	HWB17	1986		35.9888	-89.3424	\$ 1,490.85	0.303
TN001352	HWB28	1979	2004	36.0724	-89.3971	\$ 89.26	0.346
TN001353	HWB19	1995		36.1358	-89.4314	\$ 3,951.68	0.115
TN001354	HWB3	1926		36.1747	-89.4439	\$ 78.28	0.205
TN001355	HWB7	1926	1993	36.1983	-89.4570	\$ 219.92	0.245
TN001356	HWB28	1991		36.1606	-89.5630	\$ 68.70	0.179
TN001357	HWB28	1990		36.1594	-89.5243	\$ 65.08	0.184
TN001358	HWB28	1990		36.1605	-89.5152	\$ 78.39	0.184

Table E.3 Predicted Economic Losses for Bridges

HazusID	Bridge Class	Year Built	Year Remodeled	Latitude	Longitude	Economic Losses (Thousands)	Damage ratio
TN001359	HWB17	1985		36.1620	-89.5080	\$ 553.07	0.520
TN001360	HWB17	1985		36.1615	-89.5102	\$ 323.53	0.529
TN001361	HWB17	1985		36.1630	-89.4770	\$ 311.22	0.509
TN001362	HWB17	1985		36.1609	-89.4611	\$ 316.60	0.518
TN001363	HWB14	1936	1993	36.0312	-89.3750	\$ 1,169.67	0.192
TN001364	HWB28	1940		36.0269	-89.3626	\$ 46.65	0.282
TN001365	HWB19	1939	2015	36.0256	-89.3353	\$ 229.89	0.176
TN001366	HWB19	1939	1993	36.0257	-89.3305	\$ 280.35	0.156
TN001367	HWB19	1939	2015	36.0258	-89.3291	\$ 307.69	0.171
TN001368	HWB28	1986		36.0236	-89.2844	\$ 138.74	0.238
TN001369	HWB17	1967		36.0334	-89.1998	\$ 581.23	0.559
TN001370	HWB17	1967		36.0280	-89.1828	\$ 644.92	0.397
TN001371	HWB17	1967		36.0237	-89.1729	\$ 649.31	0.400
TN001372	HWB28	1985		36.1874	-89.1843	\$ 111.84	0.232
TN001373	HWB28	1987		36.0501	-89.3667	\$ 173.25	0.327
TN001435	HWB4	1996	1996	35.4073	-89.5428	\$ 17.78	0.054
TN003006	HWB28	1938		35.6781	-89.5697	\$ 44.55	0.188
TN003007	HWB5	1936		35.7242	-89.5466	\$ 514.98	0.641
TN003008	HWB5	1924	1983	35.7598	-89.5229	\$ 466.89	0.465
TN003009	HWB3	1925	1983	35.7844	-89.4994	\$ 57.81	0.167
TN003010	HWB10	1924		35.8159	-89.4431	\$ 26.66	0.176
TN003011	HWB3	1925		35.8223	-89.4350	\$ 42.00	0.173
TN003012	HWB3	1925		35.8304	-89.4192	\$ 53.25	0.219
TN003013	HWB5	1926		35.8362	-89.4078	\$ 275.49	0.784
TN003014	HWB3	1983	1983	35.8815	-89.3952	\$ 137.80	0.270
TN003015	HWB23	1990		35.9295	-89.3899	\$ 1,352.13	0.069
TN003016	HWB28	1978		35.7588	-89.5385	\$ 47.94	0.149
TN003017	HWB28	1960		35.6274	-89.5273	\$ 25.36	0.147
TN003018	HWB28	1960		35.6247	-89.5211	\$ 21.94	0.128
TN003019	HWB28	1987		35.6201	-89.4810	\$ 44.57	0.095
TN003020	HWB15	1971		35.7550	-89.5501	\$ 1,203.91	0.329
TN003021	HWB15	1971		35.7550	-89.5501	\$ 1,203.91	0.329
TN003022	HWB28	1970		35.7566	-89.5494	\$ 51.51	0.160
TN003023	HWB17	1963		35.7663	-89.5400	\$ 345.87	0.488
TN003024	HWB17	1963		35.7730	-89.5304	\$ 338.16	0.477

Table E.3 Predicted Economic Losses for Bridges

HazusID	Bridge Class	Year Built	Year Remodeled	Latitude	Longitude	Economic Losses (Thousands)	Damage ratio
TN003025	HWB17	1963		35.8523	-89.4407	\$ 365.34	0.515
TN003026	HWB17	1963		35.8523	-89.4407	\$ 365.34	0.515
TN003027	HWB17	1963		35.8676	-89.4311	\$ 327.55	0.462
TN003028	HWB17	1963		35.8667	-89.4317	\$ 305.55	0.431
TN003029	HWB23	1960	2000	35.9041	-89.4199	\$ 281.35	0.229
TN003030	HWB23	1960	2000	35.9041	-89.4199	\$ 281.35	0.229
TN003031	HWB5	1960		35.9331	-89.4162	\$ 420.96	0.548
TN003032	HWB7	1960	2014	35.9331	-89.4162	\$ 223.09	0.229
TN003033	HWB10	1964		35.8810	-89.4228	\$ 177.09	0.132
TN003034	HWB28	1988		35.7648	-89.7673	\$ 60.07	0.088
TN003035	HWB22	1988		35.7650	-89.7617	\$ 293.89	0.100
TN003036	HWB23	1995	1995	35.7666	-89.7501	\$ 213.52	0.137
TN003037	HWB22	1988		35.7674	-89.7439	\$ 235.04	0.093
TN003038	HWB22	1988		35.7732	-89.7111	\$ 295.50	0.078
TN003039	HWB22	1988		35.7731	-89.7067	\$ 175.63	0.138
TN003040	HWB28	1988		35.7739	-89.7000	\$ 41.72	0.098
TN003041	HWB22	1988		35.7746	-89.6965	\$ 208.19	0.098
TN003042	HWB22	1988		35.7735	-89.6855	\$ 290.30	0.137
TN003043	HWB22	1988		35.7732	-89.6839	\$ 239.08	0.188
TN003044	HWB22	1988		35.7725	-89.6728	\$ 241.46	0.142
TN003045	HWB28	1933		35.7732	-89.6241	\$ 31.90	0.212
TN003046	HWB28	1933		35.7642	-89.5690	\$ 32.91	0.219
TN003047	HWB5	1928	1963	35.7563	-89.5514	\$ 587.49	0.510
TN003048	HWB3	1962	1962	35.7154	-89.4796	\$ 55.64	0.161
TN003049	HWB28	1929		35.7143	-89.4689	\$ 34.04	0.180
TN003050	HWB28	1987		35.7314	-89.5557	\$ 91.44	0.168
TN003051	HWB22	1987		35.7279	-89.5504	\$ 230.34	0.174
TN003052	HWB22	1986		35.7254	-89.5460	\$ 333.33	0.147
TN003053	HWB28	1987		35.7247	-89.5446	\$ 17.68	0.103
TN003054	HWB28	1987		35.7245	-89.5261	\$ 48.52	0.226
TN003055	HWB22	1987		35.7242	-89.5432	\$ 237.70	0.111
TN003056	HWB28	1982		35.6099	-89.8796	\$ 32.66	0.190
TN003057	HWB28	1982		35.6192	-89.8445	\$ 19.48	0.113
TN003058	HWB28	1971	1971	35.6362	-89.8064	\$ 43.82	0.129
TN003059	HWB28	1971	1971	35.6456	-89.7880	\$ 40.62	0.119

Table E.3 Predicted Economic Losses for Bridges

HazusID	Bridge Class	Year Built	Year Remodeled	Latitude	Longitude	Economic Losses (Thousands)	Damage ratio
TN003060	HWB28	1982		35.6907	-89.7017	\$ 16.99	0.099
TN003061	HWB3	1986		35.6808	-89.7068	\$ 32.16	0.142
TN003062	HWB22	1981		35.6935	-89.6952	\$ 268.09	0.173
TN003063	HWB4	2008		35.6853	-89.6309	\$ 243.47	0.200
TN003064	HWB4	2008		35.6829	-89.6135	\$ 182.35	0.139
TN003065	HWB28	1925		35.6809	-89.5948	\$ 45.01	0.159
TN003066	HWB22	1980		35.6750	-89.6894	\$ 257.35	0.166
TN003067	HWB28	1991		35.6747	-89.6843	\$ 55.08	0.185
TN003068	HWB28	1980		35.6827	-89.6386	\$ 62.40	0.145
TN003069	HWB22	1984		35.9201	-89.5831	\$ 171.22	0.148
TN003070	HWB22	1986		35.9198	-89.5761	\$ 213.63	0.149
TN003071	HWB22	1986		35.9196	-89.5728	\$ 215.77	0.095
TN003072	HWB22	1986		35.9193	-89.5662	\$ 121.91	0.153
TN003073	HWB22	1986		35.9187	-89.5531	\$ 106.79	0.204
TN003074	HWB22	1986		35.9185	-89.5495	\$ 122.81	0.154
TN003075	HWB28	1986		35.9183	-89.5451	\$ 41.02	0.116
TN003076	HWB22	1986		35.9179	-89.5373	\$ 171.16	0.132
TN003077	HWB28	1986		35.9178	-89.5353	\$ 42.66	0.120
TN003078	HWB22	1986		35.9169	-89.5181	\$ 130.50	0.169
TN003079	HWB28	1985		35.9166	-89.5115	\$ 46.13	0.148
TN003080	HWB28	1983		35.9065	-89.4819	\$ 70.47	0.209
TN003081	HWB22	1985		35.9044	-89.4540	\$ 255.82	0.248
TN003082	HWB28	1985		35.8944	-89.4355	\$ 33.85	0.225
TN003083	HWB22	1985		35.8667	-89.3967	\$ 251.48	0.185
TN003430	HWB28	1986		35.7842	-88.8298	\$ 33.75	0.112
TN003431	HWB4	2005		35.5038	-88.9949	\$ 36.94	0.061
TN003432	HWB28	1958		35.5375	-88.9913	\$ 13.14	0.036
TN003433	HWB28	1998		35.5598	-88.9518	\$ 13.36	0.041
TN003434	HWB28	1945		35.6121	-88.8023	\$ 15.73	0.049
TN003435	HWB28	2004		35.6092	-88.7827	\$ 9.47	0.015
TN003436	HWB15	1966		35.6124	-88.8230	\$ 402.33	0.076
TN003437	HWB3	1967		35.6124	-88.8250	\$ 65.48	0.036
TN003438	HWB17	1964		35.6204	-88.8418	\$ 295.15	0.294
TN003439	HWB17	1964		35.6202	-88.8420	\$ 295.15	0.294
TN003440	HWB17	1964		35.6387	-88.8497	\$ 880.33	0.323

Table E.3 Predicted Economic Losses for Bridges

HazusID	Bridge Class	Year Built	Year Remodeled	Latitude	Longitude	Economic Losses (Thousands)	Damage ratio
TN003441	HWB17	1964		35.6388	-88.8499	\$ 628.81	0.323
TN003442	HWB4	2002		35.7164	-88.8533	\$ 327.41	0.079
TN003443	HWB17	1960		35.5969	-89.0547	\$ 495.57	0.233
TN003444	HWB5	1959		35.6080	-89.0266	\$ 394.51	0.194
TN003445	HWB5	1959		35.6082	-89.0266	\$ 379.62	0.194
TN003446	HWB5	1959		35.6180	-88.9977	\$ 271.54	0.272
TN003447	HWB5	1959		35.6197	-88.9924	\$ 315.76	0.316
TN003448	HWB5	1960		35.6372	-88.9355	\$ 595.03	0.352
TN003449	HWB5	1960		35.6370	-88.9354	\$ 591.71	0.350
TN003450	HWB7	1992	1992	35.6474	-88.8995	\$ 282.36	0.060
TN003451	HWB7	1992	1992	35.6476	-88.8996	\$ 282.36	0.060
TN003452	HWB17	1960		35.6507	-88.8898	\$ 701.52	0.141
TN003453	HWB17	1960		35.6509	-88.8901	\$ 703.67	0.141
TN003454	HWB5	1960		35.6558	-88.8769	\$ 446.35	0.342
TN003455	HWB5	1960		35.6559	-88.8771	\$ 446.35	0.342
TN003456	HWB23	1992		35.6566	-88.8748	\$ 32.61	0.009
TN003457	HWB19	1992		35.6565	-88.8750	\$ 62.59	0.015
TN003458	HWB16	1995	2018	35.6636	-88.8541	\$ 364.03	0.098
TN003459	HWB23	1961	1991	35.6706	-88.8297	\$ 191.22	0.064
TN003460	HWB22	1961		35.6706	-88.8298	\$ 186.85	0.072
TN003461	HWB22	1961		35.6760	-88.7985	\$ 151.31	0.088
TN003462	HWB22	1961		35.6762	-88.7986	\$ 151.31	0.088
TN003463	HWB5	1961		35.6777	-88.7900	\$ 234.97	0.180
TN003464	HWB5	1961		35.6775	-88.7899	\$ 253.05	0.180
TN003465	HWB22	1960	1986	35.6809	-88.7429	\$ 237.75	0.094
TN003466	HWB22	1960	1986	35.6809	-88.7427	\$ 237.75	0.094
TN003467	HWB10	1960		35.7183	-88.6341	\$ 119.34	0.073
TN003468	HWB23	2002		35.6486	-88.7908	\$ 677.95	0.053
TN003469	HWB28	1994		35.6104	-88.7279	\$ 5.26	0.013
TN003470	HWB4	1992		35.6108	-88.7232	\$ 17.03	0.021
TN003471	HWB22	1989		35.6136	-88.7014	\$ 38.79	0.023
TN003472	HWB4	2006		35.6136	-88.6975	\$ 32.51	0.022
TN003473	HWB15	1948		35.6133	-88.6543	\$ 46.46	0.050
TN003474	HWB4	2017		35.5715	-88.6422	\$ 26.07	0.029
TN003475	HWB4	2017		35.5714	-88.6404	\$ 26.07	0.029

Table E.3 Predicted Economic Losses for Bridges

HazusID	Bridge Class	Year Built	Year Remodeled	Latitude	Longitude	Economic Losses (Thousands)	Damage ratio
TN003476	HWB17	1985		35.4953	-88.7148	\$ 370.35	0.227
TN003477	HWB17	1985		35.4967	-88.7122	\$ 595.84	0.138
TN003478	HWB23	1996		35.5905	-88.6390	\$ 28.82	0.015
TN003479	HWB22	1981		35.5923	-88.6375	\$ 3.82	0.004
TN003480	HWB23	1999		35.5939	-88.6361	\$ 3.72	0.002
TN003481	HWB17	1985		35.4778	-89.0163	\$ 492.20	0.443
TN003482	HWB3	1952		35.4953	-89.0015	\$ 10.25	0.066
TN003483	HWB23	2005		35.5000	-88.9951	\$ 74.52	0.071
TN003484	HWB28	1989		35.5186	-88.9965	\$ 14.18	0.055
TN003485	HWB28	1987		35.5189	-88.9989	\$ 37.02	0.084
TN003486	HWB28	1984		35.5208	-88.9974	\$ 15.94	0.082
TN003487	HWB7	1925	1994	35.6050	-89.0261	\$ 44.85	0.086
TN003488	HWB7	1925	1994	35.6067	-89.0245	\$ 39.92	0.076
TN003489	HWB7	1994	1994	35.6136	-89.0039	\$ 31.56	0.060
TN003490	HWB7	1925	1994	35.6121	-88.9412	\$ 43.26	0.083
TN003491	HWB28	1958		35.6119	-88.9369	\$ 9.32	0.062
TN003492	HWB5	1959		35.6144	-88.9001	\$ 340.77	0.240
TN003493	HWB5	1959		35.6146	-88.9001	\$ 340.77	0.240
TN003494	HWB7	1994	1994	35.6152	-88.8969	\$ 72.00	0.074
TN003495	HWB7	1994	1994	35.6150	-88.8969	\$ 72.00	0.074
TN003496	HWB7	1959	2000	35.6186	-88.8629	\$ 120.32	0.034
TN003497	HWB7	1959	2000	35.6185	-88.8629	\$ 120.32	0.034
TN003498	HWB7	2000	2000	35.6186	-88.8586	\$ 126.33	0.035
TN003499	HWB7	2000	2000	35.6185	-88.8586	\$ 126.33	0.035
TN003500	HWB10	1958		35.6186	-88.8531	\$ 86.86	0.034
TN003501	HWB10	1958		35.6184	-88.8529	\$ 86.86	0.034
TN003502	HWB7	1925	2007	35.6176	-88.8433	\$ 112.30	0.036
TN003503	HWB28	1928		35.7011	-88.7270	\$ 23.07	0.107
TN003504	HWB5	1926	1958	35.7415	-88.7013	\$ 211.30	0.275
TN003505	HWB5	1926	1958	35.7587	-88.6832	\$ 123.41	0.246
TN003506	HWB5	1958	1958	35.7711	-88.6716	\$ 196.29	0.391
TN003507	HWB22	1978		35.6124	-88.8135	\$ 401.94	0.030
TN003508	HWB28	1985		35.6104	-88.8051	\$ 6.13	0.041
TN003509	HWB28	1985		35.6187	-88.7948	\$ 5.94	0.028
TN003510	HWB28	1975	2000	35.4855	-88.7130	\$ 4.12	0.024

Table E.3 Predicted Economic Losses for Bridges

HazusID	Bridge Class	Year Built	Year Remodeled	Latitude	Longitude	Economic Losses (Thousands)	Damage ratio
TN003511	HWB7	1928	2010	35.4918	-88.7223	\$ 142.06	0.024
TN003512	HWB28	1975		35.5035	-88.7396	\$ 3.60	0.011
TN003513	HWB28	2004		35.5144	-88.7556	\$ 4.45	0.026
TN003514	HWB23	1999		35.5501	-88.8068	\$ 159.44	0.031
TN003515	HWB4	1999		35.5493	-88.8060	\$ 67.53	0.022
TN003516	HWB5	1929	1957	35.5715	-88.8149	\$ 839.06	0.168
TN003517	HWB5	1957	1989	35.5811	-88.8143	\$ 278.46	0.201
TN003518	HWB5	1929		35.5811	-88.8146	\$ 255.25	0.201
TN003519	HWB5	1929	1957	35.5894	-88.8141	\$ 384.00	0.128
TN003520	HWB5	1929		35.5894	-88.8143	\$ 384.00	0.128
TN003521	HWB15	1955	1989	35.5937	-88.8140	\$ 356.93	0.038
TN003522	HWB19	1992		35.5938	-88.8142	\$ 247.77	0.030
TN003523	HWB7	1957	1990	35.5985	-88.8138	\$ 86.22	0.029
TN003524	HWB7	1929	1990	35.5985	-88.8140	\$ 90.46	0.029
TN003525	HWB5	1958		35.6059	-88.8159	\$ 1,215.91	0.212
TN003526	HWB28	1968		35.6365	-88.8218	\$ 9.21	0.054
TN003527	HWB23	1999		35.7401	-88.8486	\$ 188.65	0.081
TN003528	HWB19	2003	2003	35.7399	-88.8482	\$ 242.28	0.085
TN003529	HWB19	1967	2002	35.7442	-88.8467	\$ 935.38	0.056
TN003530	HWB23	1968	2002	35.7440	-88.8463	\$ 549.79	0.039
TN003531	HWB28	1992		35.7869	-88.8677	\$ 26.22	0.072
TN003532	HWB28	1968		35.5398	-88.7931	\$ 2.72	0.018
TN003533	HWB28	2017		35.4903	-88.8450	\$ 18.59	0.027
TN003534	HWB23	1991		35.6910	-88.9973	\$ 58.72	0.055
TN003535	HWB11	1954	1992	35.6912	-88.9972	\$ 44.03	0.055
TN003536	HWB4	2011		35.6529	-88.8698	\$ 73.79	0.041
TN003537	HWB28	1929		35.6449	-88.8567	\$ 9.68	0.064
TN003538	HWB22	1989		35.7687	-88.8329	\$ 313.64	0.146
TN003539	HWB22	1989		35.7684	-88.8330	\$ 313.64	0.146
TN003540	HWB28	1992		35.7928	-88.7906	\$ 34.77	0.135
TN003541	HWB28	2017		35.4474	-89.0220	\$ 19.62	0.066
TN003542	HWB28	1988		35.4474	-89.0220	\$ 23.73	0.056
TN003543	HWB23	1992		35.4702	-89.0265	\$ 82.16	0.077
TN003544	HWB28	1949		35.4810	-89.0434	\$ 19.25	0.057
TN003545	HWB19	1991		35.4825	-89.0440	\$ 79.40	0.076

Table E.3 Predicted Economic Losses for Bridges

HazusID	Bridge Class	Year Built	Year Remodeled	Latitude	Longitude	Economic Losses (Thousands)	Damage ratio
TN003546	HWB28	1949		35.4835	-89.0450	\$ 24.00	0.043
TN003547	HWB28	1949		35.4852	-89.0528	\$ 14.33	0.061
TN003548	HWB28	1986		35.7823	-88.7006	\$ 9.29	0.022
TN003549	HWB17	1986		35.7802	-88.6980	\$ 327.61	0.259
TN003550	HWB17	1989		35.7776	-88.6954	\$ 485.54	0.211
TN003551	HWB28	1989		35.5203	-88.9973	\$ 14.18	0.055
TN005142	HWB17	1961		35.5734	-89.6360	\$ 357.92	0.449
TN005143	HWB4	2004		35.4950	-89.5057	\$ 70.53	0.066
TN005144	HWB23	1991		35.4389	-89.7792	\$ 273.67	0.141
TN005145	HWB5	1951		35.4353	-89.7532	\$ 196.75	0.362
TN005146	HWB28	1960		35.4374	-89.7449	\$ 17.03	0.079
TN005147	HWB28	1984		35.4345	-89.7297	\$ 12.49	0.083
TN005148	HWB28	2004		35.4797	-89.6500	\$ 15.29	0.089
TN005149	HWB3	1923	1961	35.4048	-89.5456	\$ 61.98	0.098
TN005150	HWB28	1929		35.4140	-89.5322	\$ 10.59	0.070
TN005151	HWB7	1993	1993	35.4151	-89.5248	\$ 122.70	0.063
TN005152	HWB7	1926	1993	35.4195	-89.5204	\$ 58.70	0.092
TN005153	HWB28	1929		35.4261	-89.5057	\$ 10.74	0.071
TN005154	HWB3	1966		35.4109	-89.8323	\$ 98.45	0.081
TN005155	HWB22	1927	1959	35.4110	-89.8325	\$ 30.78	0.093
TN005156	HWB28	1965		35.4267	-89.8116	\$ 24.32	0.103
TN005157	HWB28	1966		35.4269	-89.8118	\$ 15.48	0.103
TN005158	HWB28	1933		35.4505	-89.7806	\$ 19.41	0.129
TN005159	HWB28	1965		35.4622	-89.7658	\$ 22.58	0.117
TN005160	HWB28	1965		35.4912	-89.7251	\$ 16.39	0.076
TN005161	HWB3	1924	1958	35.4969	-89.7222	\$ 40.97	0.074
TN005162	HWB23	1998		35.4969	-89.7224	\$ 119.37	0.079
TN005163	HWB3	1959	1959	35.5105	-89.7096	\$ 21.28	0.084
TN005164	HWB23	1998		35.5139	-89.7076	\$ 117.22	0.114
TN005165	HWB28	1926		35.5121	-89.7081	\$ 14.56	0.097
TN005166	HWB28	1962		35.5172	-89.7013	\$ 36.46	0.242
TN005167	HWB5	1922	1938	35.5775	-89.6433	\$ 775.32	0.421
TN005168	HWB23	1992		35.6225	-89.6203	\$ 674.94	0.054
TN005169	HWB17	1974		35.6376	-89.6099	\$ 1,849.47	0.158
TN005170	HWB3	1975		35.4616	-89.7661	\$ 13.80	0.091

Table E.3 Predicted Economic Losses for Bridges

HazusID	Bridge Class	Year Built	Year Remodeled	Latitude	Longitude	Economic Losses (Thousands)	Damage ratio
TN005171	HWB23	2012		35.4397	-89.6660	\$ 283.35	0.108
TN005172	HWB28	1963		35.4629	-89.6313	\$ 64.74	0.151
TN005173	HWB5	1962		35.4674	-89.6237	\$ 295.04	0.384
TN005174	HWB5	1962		35.4715	-89.6161	\$ 363.56	0.280
TN005175	HWB28	1963		35.4790	-89.6022	\$ 10.46	0.069
TN005176	HWB5	1962		35.5498	-89.5147	\$ 306.94	0.400
TN005177	HWB28	1986		35.5643	-89.6349	\$ 46.84	0.092
TN005178	HWB17	1986		35.5527	-89.5853	\$ 588.63	0.386
TN005179	HWB28	1956		35.5544	-89.5388	\$ 33.15	0.097
TN005180	HWB5	1956		35.5610	-89.5108	\$ 351.61	0.271
TN005181	HWB5	1956		35.5644	-89.4930	\$ 286.72	0.373
TN005182	HWB5	1956		35.5680	-89.4844	\$ 501.65	0.150
TN005183	HWB15	1952		35.5686	-89.4831	\$ 2,154.59	0.057
TN005184	HWB28	1992		35.5315	-89.8480	\$ 40.36	0.150
TN005185	HWB17	1984		35.5527	-89.8221	\$ 890.14	0.297
TN005186	HWB4	2006		35.5581	-89.7200	\$ 97.26	0.105
TN005187	HWB4	2006		35.5640	-89.6809	\$ 121.11	0.119
TN005188	HWB4	2014		35.5492	-89.6447	\$ 76.67	0.114
TN005189	HWB4	2013		35.5480	-89.6409	\$ 125.23	0.114
TN005190	HWB23	1996		35.5420	-89.6358	\$ 173.53	0.131
TN005191	HWB28	2010		35.4958	-89.5988	\$ 42.20	0.060
TN005192	HWB28	1995		35.4921	-89.5959	\$ 61.28	0.082
TN005193	HWB23	1996		35.4501	-89.5626	\$ 186.48	0.054
TN005194	HWB28	1985		35.5369	-89.6412	\$ 17.95	0.119
TN005195	HWB28	1985		35.5423	-89.6376	\$ 34.97	0.163
TN007709	HWB28	1983		35.7404	-88.9415	\$ 10.70	0.050
TN008620	HWB3	1988		36.0383	-89.2026	\$ 172.05	0.233
TN008621	HWB17	1985		36.0949	-89.4084	\$ 835.11	0.604
TN008622	HWB28	1982		36.0346	-89.2797	\$ 51.73	0.195
TN008623	HWB5	1970		35.9726	-89.4123	\$ 546.31	0.132
TN008624	HWB4	2008		35.9584	-89.2266	\$ 141.56	0.225
TN008625	HWB16	1994		36.0016	-89.6466	\$ 790.83	0.109
TN008626	HWB3	1975		36.0522	-89.4738	\$ 57.76	0.291
TN008627	HWB4	1994		36.0516	-89.4613	\$ 252.71	0.278
TN008628	HWB28	1994		36.0462	-89.4264	\$ 135.76	0.410

Table E.3 Predicted Economic Losses for Bridges

HazusID	Bridge Class	Year Built	Year Remodeled	Latitude	Longitude	Economic Losses (Thousands)	Damage ratio
TN008629	HWB28	1970		36.0848	-89.2549	\$ 65.61	0.233
TN008630	HWB4	2016		36.0606	-89.2371	\$ 378.47	0.375
TN008631	HWB5	1960		36.0602	-89.2145	\$ 355.54	0.535
TN008632	HWB28	1975		36.0599	-89.2132	\$ 58.22	0.181
TN008633	HWB28	1984		36.0553	-89.2015	\$ 42.00	0.247
TN008634	HWB4	2000		36.1476	-89.2626	\$ 98.02	0.265
TN008635	HWB4	1997		36.0862	-89.2455	\$ 225.50	0.260
TN008636	HWB28	1987		36.0839	-89.2130	\$ 68.31	0.329
TN008637	HWB28	1992		36.1775	-89.4945	\$ 90.11	0.249
TN008638	HWB3	1979		36.1713	-89.2027	\$ 101.38	0.242
TN008639	HWB17	1988		35.9966	-89.3771	\$ 879.85	0.542
TN008640	HWB4	1997		35.8965	-89.2773	\$ 126.08	0.191
TN008641	HWB3	1965		36.0184	-89.3650	\$ 39.20	0.259
TN008642	HWB28	1984		35.9727	-89.2186	\$ 36.80	0.195
TN008643	HWB28	1986		35.9737	-89.2184	\$ 52.39	0.231
TN008644	HWB28	1983		35.9754	-89.2182	\$ 34.41	0.152
TN008646	HWB28	2006		36.1744	-89.4446	\$ 34.67	0.230
TN008647	HWB3	1974		36.1853	-89.4672	\$ 50.58	0.247
TN008648	HWB4	2014		36.2054	-89.3368	\$ 207.15	0.342
TN008649	HWB28	2000		36.2072	-89.3388	\$ 96.10	0.342
TN008650	HWB3	1983		36.1302	-89.4205	\$ 87.38	0.243
TN008651	HWB4	2003		36.1203	-89.4114	\$ 221.47	0.322
TN008652	HWB3	1975		36.1407	-89.4081	\$ 58.63	0.338
TN008653	HWB28	1984		36.1052	-89.4005	\$ 58.65	0.310
TN008654	HWB4	2005		36.1242	-89.3693	\$ 259.40	0.361
TN008655	HWB4	1999		36.1674	-89.3584	\$ 156.10	0.421
TN008656	HWB28	1983		36.1213	-89.3603	\$ 57.02	0.215
TN008657	HWB28	1983		36.1491	-89.3202	\$ 53.27	0.282
TN008658	HWB3	1972		36.1302	-89.2822	\$ 65.42	0.330
TN008659	HWB28	1972		36.1526	-89.3060	\$ 65.80	0.205
TN008660	HWB4	2015		36.1717	-89.3276	\$ 263.11	0.326
TN008661	HWB28	1999		36.1665	-89.3106	\$ 126.51	0.338
TN008662	HWB28	1983		36.1376	-89.2757	\$ 114.81	0.434
TN008663	HWB3	1988		36.1382	-89.2756	\$ 75.76	0.334
TN008665	HWB3	1965		36.1404	-89.2197	\$ 52.67	0.239

Table E.3 Predicted Economic Losses for Bridges

HazusID	Bridge Class	Year Built	Year Remodeled	Latitude	Longitude	Economic Losses (Thousands)	Damage ratio
TN008666	HWB28	1983		36.1290	-89.2038	\$ 47.56	0.280
TN008667	HWB28	1984		36.1553	-89.2752	\$ 50.40	0.333
TN008668	HWB28	1994		36.1474	-89.1901	\$ 46.72	0.272
TN008669	HWB28	1981		36.1331	-89.2283	\$ 57.32	0.253
TN008670	HWB28	1984		36.1326	-89.1703	\$ 54.90	0.290
TN008671	HWB28	1983		36.1107	-89.2021	\$ 58.33	0.309
TN008672	HWB3	1984		36.1119	-89.2475	\$ 65.43	0.330
TN008673	HWB28	1984		36.0597	-89.1692	\$ 59.84	0.198
TN008674	HWB28	1988		36.0832	-89.1726	\$ 39.91	0.176
TN008675	HWB28	1983		36.0434	-89.1803	\$ 48.37	0.171
TN008676	HWB3	1975		36.0585	-89.2290	\$ 55.11	0.278
TN008677	HWB3	1965		36.0490	-89.2249	\$ 56.77	0.286
TN008678	HWB3	1980		36.0235	-89.2629	\$ 39.77	0.281
TN008679	HWB4	2008		36.0221	-89.2828	\$ 171.58	0.261
TN008680	HWB4	2011		35.9972	-89.2778	\$ 133.03	0.219
TN008681	HWB28	1987		36.0152	-89.2715	\$ 43.83	0.232
TN008682	HWB28	1980		35.9709	-89.2503	\$ 47.35	0.209
TN008683	HWB3	1970		35.9502	-89.2277	\$ 44.93	0.198
TN008684	HWB28	1984		35.9336	-89.2860	\$ 25.50	0.193
TN008685	HWB28	1998		35.9326	-89.2827	\$ 39.96	0.151
TN008686	HWB3	1981		35.9586	-89.3367	\$ 48.24	0.243
TN008687	HWB28	1970		35.8926	-89.3040	\$ 39.85	0.142
TN008688	HWB19	2012		35.8931	-89.3018	\$ 176.01	0.212
TN008689	HWB22	1990		35.9210	-89.3253	\$ 147.07	0.215
TN008690	HWB28	1984		35.9229	-89.2772	\$ 25.01	0.189
TN008691	HWB19	1992		35.9688	-89.3861	\$ 313.96	0.203
TN008692	HWB28	1984		35.9686	-89.4376	\$ 89.56	0.338
TN008693	HWB4	2010		35.9756	-89.4312	\$ 155.19	0.259
TN008694	HWB3	1982		35.9683	-89.4484	\$ 32.28	0.244
TN008695	HWB3	1975		35.9475	-89.4571	\$ 42.31	0.240
TN008696	HWB4	2000		36.0486	-89.3318	\$ 95.11	0.254
TN008697	HWB4	1999		36.0479	-89.3221	\$ 176.43	0.250
TN008698	HWB28	1983		36.0712	-89.3040	\$ 77.72	0.366
TN008699	HWB24	1965		36.0726	-89.3026	\$ 192.79	0.571
TN008700	HWB3	1981		36.0481	-89.3134	\$ 118.49	0.342

Table E.3 Predicted Economic Losses for Bridges

HazusID	Bridge Class	Year Built	Year Remodeled	Latitude	Longitude	Economic Losses (Thousands)	Damage ratio
TN008701	HWB28	1965		36.0330	-89.4375	\$ 60.44	0.203
TN008702	HWB28	1980		35.9388	-89.5075	\$ 37.89	0.167
TN008703	HWB28	1980		36.0096	-89.4889	\$ 51.70	0.228
TN008704	HWB4	2012		35.9985	-89.5458	\$ 103.47	0.171
TN008705	HWB28	1979		36.0460	-89.4947	\$ 55.67	0.327
TN008706	HWB28	1984		36.0942	-89.4271	\$ 59.09	0.313
TN008707	HWB4	1994		36.0918	-89.4215	\$ 243.56	0.301
TN008708	HWB4	2011		36.0867	-89.4087	\$ 161.01	0.266
TN008709	HWB28	1999		36.0727	-89.4091	\$ 49.87	0.177
TN008711	HWB3	1981		36.0590	-89.2969	\$ 91.07	0.292
TN008712	HWB4	2003		36.1013	-89.3306	\$ 202.14	0.294
TN008713	HWB28	1987		36.1106	-89.3189	\$ 59.82	0.198
TN008714	HWB4	2010		36.1108	-89.3455	\$ 477.76	0.443
TN008715	HWB28	1984		36.1194	-89.3253	\$ 64.20	0.340
TN008716	HWB28	1993		36.0496	-89.3633	\$ 80.80	0.342
TN008717	HWB23	1998		36.0896	-89.3566	\$ 459.33	0.303
TN008718	HWB3	1980		36.1014	-89.3919	\$ 69.59	0.345
TN008719	HWB28	1988		36.0380	-89.2033	\$ 38.77	0.213
TN008720	HWB28	1988		36.0391	-89.2004	\$ 62.73	0.241
TN008721	HWB28	1990		36.0048	-89.5438	\$ 38.41	0.135
TN008722	HWB5	1950		35.9579	-89.2853	\$ 294.15	0.711
TN008723	HWB22	1979		36.0715	-89.4638	\$ 729.25	0.327
TN008724	HWB10	1979		36.0698	-89.4508	\$ 650.37	0.395
TN008725	HWB10	1979		36.0691	-89.4263	\$ 575.86	0.350
TN008726	HWB10	1979		36.0688	-89.4180	\$ 419.31	0.289
TN008727	HWB10	1979		36.0681	-89.3794	\$ 786.20	0.393
TN008728	HWB11	1979	1995	36.0680	-89.3723	\$ 544.40	0.317
TN008729	HWB22	1982		36.0439	-89.3496	\$ 228.66	0.269
TN008730	HWB28	1930		36.1728	-89.3391	\$ 63.40	0.298
TN008731	HWB5	1930		36.1584	-89.3203	\$ 304.98	0.807
TN008732	HWB5	1957		36.1820	-89.3597	\$ 494.37	0.152
TN008733	HWB5	1957	1974	36.1856	-89.3603	\$ 493.96	0.152
TN008734	HWB17	1957	1974	36.1913	-89.3613	\$ 802.25	0.219
TN008735	HWB28	1960		36.2091	-89.3596	\$ 52.16	0.347
TN008736	HWB15	1956		35.9755	-89.4023	\$ 843.40	0.125

Table E.3 Predicted Economic Losses for Bridges

HazusID	Bridge Class	Year Built	Year Remodeled	Latitude	Longitude	Economic Losses (Thousands)	Damage ratio
TN008737	HWB28	1979		36.1578	-89.1778	\$ 73.61	0.260
TN008738	HWB28	1960		36.1134	-89.3604	\$ 40.81	0.274
TN008739	HWB4	2002		36.1179	-89.3565	\$ 300.49	0.343
TN008740	HWB28	1960		36.1207	-89.3267	\$ 39.74	0.300
TN008741	HWB17	1962		36.1797	-89.2540	\$ 691.78	0.566
TN008742	HWB28	1960		36.0586	-89.3805	\$ 48.03	0.319
TN008743	HWB19	1990		36.0644	-89.3796	\$ 1,324.39	0.296
TN008744	HWB3	1960		36.1732	-89.3612	\$ 100.37	0.500
TN008745	HWB10	1980		36.0756	-89.3433	\$ 524.02	0.356
TN008746	HWB10	1980		36.0897	-89.3230	\$ 468.28	0.333
TN008747	HWB10	1980		36.1061	-89.2981	\$ 505.28	0.324
TN008748	HWB10	1979		36.1125	-89.2899	\$ 593.97	0.339
TN008749	HWB10	1979		36.1269	-89.2753	\$ 831.59	0.339
TN008750	HWB10	1979		36.1392	-89.2632	\$ 554.28	0.253
TN008751	HWB10	1979		36.1628	-89.2403	\$ 546.49	0.247
TN008752	HWB10	1979		36.1717	-89.2299	\$ 520.93	0.344
TN008754	HWB23	1996		35.9655	-89.3313	\$ 1,771.77	0.368
TN008755	HWB28	1996		35.9332	-89.2897	\$ 47.38	0.220
TN008756	HWB28	1996		35.9287	-89.2849	\$ 34.29	0.199
TN008757	HWB28	1996		35.9228	-89.2786	\$ 67.32	0.184
TN008758	HWB28	1998		36.2026	-89.1851	\$ 87.36	0.293
TN008759	HWB28	1998		36.1899	-89.1854	\$ 55.10	0.278
TN008760	HWB4	2010		36.1019	-89.4377	\$ 95.51	0.281
TN009385	HWB4	2014		35.9927	-89.6708	\$ 51.38	0.172
TN010956	HWB28	1984		35.6634	-88.8446	\$ 9.72	0.064
TN011004	HWB3	1900		35.6261	-88.6111	\$ 3.37	0.017
TN012349	HWB28	2007		35.6754	-89.5707	\$ 33.52	0.101
TN012350	HWB28	1975		35.6736	-89.5646	\$ 38.92	0.137
TN012351	HWB28	2016		35.6516	-89.5139	\$ 24.08	0.140
TN012352	HWB24	1968		35.6666	-89.5119	\$ 253.31	0.457
TN012353	HWB28	1984		35.6673	-89.4984	\$ 31.11	0.146
TN012354	HWB28	2017		35.6684	-89.4789	\$ 29.26	0.113
TN012355	HWB23	1990		35.7097	-89.5496	\$ 283.44	0.169
TN012356	HWB23	2012		35.6982	-89.7163	\$ 466.10	0.235
TN012357	HWB3	1955		35.7361	-89.4898	\$ 44.27	0.195

Table E.3 Predicted Economic Losses for Bridges

HazusID	Bridge Class	Year Built	Year Remodeled	Latitude	Longitude	Economic Losses (Thousands)	Damage ratio
TN012358	HWB3	1975		35.7389	-89.5058	\$ 39.81	0.175
TN012359	HWB5	1960		35.9019	-89.4820	\$ 356.91	0.516
TN012360	HWB4	2006		35.6630	-89.5999	\$ 121.65	0.172
TN012361	HWB28	2012		35.6637	-89.6054	\$ 40.89	0.115
TN012362	HWB4	2002		35.6700	-89.6331	\$ 142.56	0.184
TN012363	HWB28	1991		35.6648	-89.6141	\$ 32.26	0.152
TN012364	HWB28	2000		35.6734	-89.6856	\$ 47.21	0.185
TN012365	HWB28	1984		35.6827	-89.6560	\$ 18.52	0.140
TN012366	HWB23	1998		35.6931	-89.8042	\$ 539.73	0.204
TN012367	HWB22	1989		35.6475	-89.8342	\$ 208.83	0.132
TN012368	HWB3	1978		35.6351	-89.8418	\$ 32.46	0.147
TN012369	HWB4	1995		35.6105	-89.8771	\$ 42.63	0.181
TN012370	HWB4	2014		35.6869	-89.8594	\$ 43.97	0.122
TN012371	HWB28	1984		35.6900	-89.4703	\$ 23.21	0.154
TN012372	HWB23	1994		35.7010	-89.8047	\$ 403.98	0.274
TN012373	HWB28	1984		35.7214	-89.7754	\$ 24.60	0.130
TN012374	HWB3	1985		35.7713	-89.7506	\$ 22.17	0.144
TN012375	HWB24	1975		35.7882	-89.7300	\$ 409.47	0.622
TN012376	HWB28	1991		35.7480	-89.4513	\$ 33.96	0.160
TN012377	HWB3	1970		35.7427	-89.7011	\$ 34.01	0.150
TN012378	HWB23	1999		35.7426	-89.6996	\$ 243.87	0.186
TN012379	HWB22	1988		35.7106	-89.6694	\$ 234.88	0.184
TN012380	HWB3	1978		35.7402	-89.6564	\$ 30.16	0.199
TN012381	HWB3	1970		35.7402	-89.6500	\$ 23.54	0.178
TN012382	HWB23	1990		35.7327	-89.6432	\$ 237.15	0.171
TN012383	HWB28	2015		35.7199	-89.6481	\$ 42.73	0.199
TN012384	HWB3	1975		35.7400	-89.6551	\$ 36.07	0.182
TN012385	HWB28	1984		35.7601	-89.6353	\$ 45.44	0.240
TN012386	HWB22	1984		35.7423	-89.6248	\$ 136.15	0.088
TN012387	HWB4	2002		35.7558	-89.6355	\$ 125.79	0.280
TN012388	HWB23	1995		35.7488	-89.6092	\$ 284.90	0.176
TN012389	HWB28	1997		35.7400	-89.6108	\$ 36.20	0.213
TN012390	HWB28	1984		35.6885	-89.5918	\$ 41.91	0.111
TN012391	HWB26	1970		35.6958	-89.5910	\$ 79.55	0.351
TN012392	HWB3	1975		35.7324	-89.6002	\$ 36.54	0.184

Table E.3 Predicted Economic Losses for Bridges

HazusID	Bridge Class	Year Built	Year Remodeled	Latitude	Longitude	Economic Losses (Thousands)	Damage ratio
TN012393	HWB28	2016		35.7363	-89.5539	\$ 124.69	0.132
TN012394	HWB23	1992		35.7529	-89.5885	\$ 251.50	0.192
TN012395	HWB28	1984		35.7709	-89.5465	\$ 41.01	0.191
TN012396	HWB28	2016		35.8146	-89.5951	\$ 49.36	0.143
TN012397	HWB3	1958		35.8300	-89.6062	\$ 40.35	0.178
TN012398	HWB28	1984		35.7724	-89.5151	\$ 22.91	0.173
TN012399	HWB26	1975		35.7711	-89.5131	\$ 75.78	0.334
TN012400	HWB4	1970	2011	35.7883	-89.5271	\$ 49.63	0.207
TN012401	HWB28	1984		35.8320	-89.5120	\$ 40.45	0.165
TN012402	HWB28	1969		35.8179	-89.5200	\$ 22.99	0.180
TN012403	HWB28	2016		35.8168	-89.5204	\$ 53.82	0.147
TN012404	HWB28	2012		35.8217	-89.5450	\$ 65.39	0.163
TN012405	HWB3	1975		35.8233	-89.5294	\$ 44.59	0.197
TN012406	HWB4	1997		35.8321	-89.5665	\$ 256.12	0.282
TN012407	HWB24	1970		35.7879	-89.6012	\$ 471.59	0.716
TN012408	HWB28	1984		35.7802	-89.5994	\$ 31.04	0.206
TN012409	HWB28	1986		35.7918	-89.6148	\$ 42.07	0.148
TN012410	HWB28	1984		35.7785	-89.6157	\$ 27.39	0.181
TN012411	HWB28	1991		35.8326	-89.6643	\$ 29.15	0.114
TN012412	HWB23	1996		35.8205	-89.6597	\$ 208.25	0.156
TN012413	HWB4	1999		35.8327	-89.6643	\$ 114.55	0.142
TN012414	HWB14	2002		35.8434	-89.6884	\$ 92.73	0.133
TN012415	HWB22	1988		35.8811	-89.5973	\$ 228.81	0.106
TN012416	HWB26	1970		35.8804	-89.5698	\$ 79.06	0.349
TN012417	HWB23	1999		35.8716	-89.5015	\$ 246.69	0.178
TN012418	HWB4	1999		35.8523	-89.4652	\$ 45.94	0.219
TN012419	HWB28	1984		35.8532	-89.4644	\$ 32.83	0.217
TN012420	HWB3	1977		35.8629	-89.4604	\$ 43.86	0.221
TN012421	HWB28	1984		35.8665	-89.4577	\$ 32.57	0.219
TN012422	HWB28	1984		35.8717	-89.4552	\$ 34.49	0.200
TN012423	HWB4	2009		35.8523	-89.4636	\$ 60.03	0.223
TN012424	HWB4	2006		35.8530	-89.4573	\$ 68.33	0.228
TN012425	HWB28	1985		35.8509	-89.4384	\$ 57.78	0.224
TN012427	HWB24	1975		35.8706	-89.4451	\$ 395.45	0.725
TN012428	HWB24	1975		35.8839	-89.4840	\$ 296.43	0.475

Table E.3 Predicted Economic Losses for Bridges

HazusID	Bridge Class	Year Built	Year Remodeled	Latitude	Longitude	Economic Losses (Thousands)	Damage ratio
TN012429	HWB28	1984		35.9284	-89.4968	\$ 38.11	0.222
TN012431	HWB22	1986		35.9336	-89.4228	\$ 175.43	0.236
TN012432	HWB28	2003		35.9351	-89.4302	\$ 58.29	0.247
TN012433	HWB28	1992		35.9345	-89.4277	\$ 79.13	0.209
TN012434	HWB4	2001		35.9344	-89.4226	\$ 53.77	0.257
TN012435	HWB3	1985		35.9146	-89.4376	\$ 53.87	0.267
TN012436	HWB22	1989		35.9151	-89.3981	\$ 178.23	0.257
TN012437	HWB3	1975		35.8963	-89.3783	\$ 54.75	0.241
TN012438	HWB28	1984		35.8948	-89.3843	\$ 39.17	0.263
TN012439	HWB28	1984		35.8813	-89.3932	\$ 51.67	0.270
TN012440	HWB4	1995		35.8661	-89.4156	\$ 175.59	0.217
TN012441	HWB22	1987		35.8651	-89.4281	\$ 105.07	0.183
TN012442	HWB28	1987		35.8512	-89.4380	\$ 83.67	0.169
TN012443	HWB23	1993		35.8824	-89.3932	\$ 229.08	0.246
TN012444	HWB23	1996		35.8477	-89.3952	\$ 173.81	0.197
TN012445	HWB3	1984		35.8471	-89.3943	\$ 31.50	0.208
TN012446	HWB3	1975		35.8467	-89.3937	\$ 41.31	0.205
TN012447	HWB4	2000		35.8292	-89.4156	\$ 172.31	0.199
TN012448	HWB23	2003		35.8234	-89.4244	\$ 319.85	0.264
TN012449	HWB3	1975		35.8356	-89.4318	\$ 37.86	0.191
TN012450	HWB4	2009		35.8268	-89.4405	\$ 73.18	0.116
TN012451	HWB28	1984		35.8174	-89.4494	\$ 25.11	0.169
TN012452	HWB4	2004		35.8092	-89.4555	\$ 33.73	0.143
TN012453	HWB26	1975		35.8189	-89.4606	\$ 69.54	0.409
TN012454	HWB28	1983		35.8316	-89.4572	\$ 28.86	0.153
TN012455	HWB28	1984		35.8046	-89.4401	\$ 42.02	0.185
TN012456	HWB28	1984		35.8060	-89.4451	\$ 22.25	0.147
TN012457	HWB28	1986		35.6484	-89.4738	\$ 23.70	0.125
TN012458	HWB23	1997		35.7837	-89.4927	\$ 271.60	0.181
TN012459	HWB28	2008		35.7889	-89.4942	\$ 53.61	0.175
TN012460	HWB28	2005		35.7447	-89.4614	\$ 35.89	0.153
TN012461	HWB28	2008		35.7856	-89.4785	\$ 104.24	0.162
TN012462	HWB28	1988		35.7468	-89.4924	\$ 33.71	0.198
TN012463	HWB28	2002		35.7469	-89.4963	\$ 52.23	0.144
TN012464	HWB28	1982		35.7536	-89.5084	\$ 32.84	0.193

Table E.3 Predicted Economic Losses for Bridges

HazusID	Bridge Class	Year Built	Year Remodeled	Latitude	Longitude	Economic Losses (Thousands)	Damage ratio
TN012465	HWB23	1990		35.7568	-89.5065	\$ 264.87	0.180
TN012466	HWB28	1984		35.7717	-89.4902	\$ 15.98	0.106
TN012467	HWB3	1974		35.7662	-89.4956	\$ 23.49	0.155
TN012468	HWB3	1974		35.7756	-89.4900	\$ 16.29	0.108
TN012469	HWB14	1975	2006	35.7157	-89.5306	\$ 37.92	0.121
TN012470	HWB23	1994		35.6192	-89.5310	\$ 178.62	0.192
TN012471	HWB3	1970		35.6217	-89.5323	\$ 29.53	0.130
TN012472	HWB3	1960		35.6349	-89.5151	\$ 32.16	0.142
TN012473	HWB28	1973		35.6346	-89.5136	\$ 24.11	0.142
TN012474	HWB3	1970		35.6348	-89.5112	\$ 32.16	0.142
TN012475	HWB4	2015		35.6519	-89.5078	\$ 109.48	0.181
TN012476	HWB4	2015		35.6559	-89.5181	\$ 87.84	0.145
TN012477	HWB28	2012		35.6569	-89.5201	\$ 30.13	0.145
TN012478	HWB28	1983		35.6492	-89.5187	\$ 47.00	0.184
TN012479	HWB4	2003		35.6479	-89.5890	\$ 118.82	0.160
TN012480	HWB28	1997		35.6796	-89.5523	\$ 33.62	0.178
TN012481	HWB28	1984		35.6794	-89.5091	\$ 22.06	0.117
TN012482	HWB28	1984		35.6802	-89.5614	\$ 23.96	0.141
TN012483	HWB24	1974		35.6798	-89.5509	\$ 256.69	0.673
TN012484	HWB28	1983		35.7017	-89.5519	\$ 29.83	0.175
TN012485	HWB28	1984		35.7892	-89.4871	\$ 33.08	0.175
TN012486	HWB4	1992		35.7423	-89.7495	\$ 24.96	0.119
TN012487	HWB28	1986		35.9325	-89.4587	\$ 27.63	0.183
TN012488	HWB7	1990	1990	35.9169	-89.3904	\$ 196.99	0.289
TN012489	HWB28	2013		35.8806	-89.3586	\$ 48.63	0.158
TN012490	HWB24	1972		35.8808	-89.3541	\$ 480.06	0.729
TN012491	HWB16	1991		35.8807	-89.3537	\$ 442.61	0.139
TN012492	HWB23	1997		35.8808	-89.3503	\$ 266.11	0.146
TN012493	HWB15	1960		35.8806	-89.3478	\$ 307.24	0.240
TN012494	HWB23	1997		35.8811	-89.3444	\$ 241.44	0.239
TN012495	HWB23	2005		35.8814	-89.3433	\$ 150.66	0.177
TN012496	HWB5	1958		35.8632	-89.3642	\$ 495.13	0.282
TN012497	HWB23	1992		35.8618	-89.3501	\$ 1,039.35	0.086
TN012498	HWB23	1996		35.8620	-89.3410	\$ 445.38	0.093
TN012499	HWB22	1985		35.9048	-89.4534	\$ 152.65	0.228

Table E.3 Predicted Economic Losses for Bridges

HazusID	Bridge Class	Year Built	Year Remodeled	Latitude	Longitude	Economic Losses (Thousands)	Damage ratio
TN012500	HWB28	2001		35.9056	-89.4532	\$ 45.60	0.238
TN012501	HWB28	1997		35.9125	-89.4473	\$ 68.80	0.190
TN012502	HWB4	2015		35.9331	-89.4422	\$ 181.79	0.257
TN012503	HWB4	2017		35.9390	-89.4374	\$ 195.61	0.277
TN012504	HWB28	1970		35.8188	-89.6634	\$ 44.47	0.230
TN012505	HWB28	1980		35.8229	-89.5284	\$ 33.81	0.197
TN012506	HWB5	1953		35.8797	-89.5339	\$ 379.09	0.535
TN012507	HWB28	1970		35.8770	-89.4888	\$ 24.24	0.161
TN012508	HWB4	1991		35.7511	-89.6233	\$ 155.00	0.209
TN012509	HWB4	1992		35.6724	-89.5727	\$ 34.38	0.128
TN012510	HWB28	1970		35.6700	-89.5692	\$ 27.20	0.158
TN012511	HWB28	1997		35.8000	-89.4537	\$ 43.66	0.171
TN012512	HWB28	1960		35.7350	-89.5987	\$ 31.66	0.184
TN012513	HWB4	1996		35.7438	-89.5589	\$ 203.45	0.173
TN012514	HWB28	1997		35.7516	-89.4835	\$ 16.21	0.108
TN012515	HWB28	1950		35.8689	-89.3791	\$ 55.55	0.173
TN012516	HWB23	1991		35.8646	-89.3760	\$ 168.42	0.192
TN012517	HWB22	1987		35.8608	-89.3763	\$ 164.05	0.220
TN012518	HWB22	1987		35.7426	-89.5294	\$ 438.28	0.149
TN012519	HWB3	1986		35.6269	-89.8261	\$ 35.73	0.140
TN012520	HWB28	1986		35.9151	-89.6310	\$ 35.46	0.115
TN012521	HWB28	1986		35.9209	-89.5954	\$ 30.21	0.145
TN012522	HWB28	1986		35.9203	-89.5856	\$ 30.50	0.147
TN012523	HWB28	1986		35.9203	-89.5845	\$ 30.50	0.147
TN012524	HWB22	1986		35.9200	-89.5792	\$ 123.25	0.149
TN012525	HWB22	1986		35.9197	-89.5731	\$ 234.15	0.090
TN012526	HWB28	1986		35.9192	-89.5623	\$ 37.21	0.115
TN012527	HWB28	1986		35.9190	-89.5582	\$ 41.37	0.117
TN012528	HWB28	1986		35.9174	-89.5257	\$ 43.62	0.123
TN012529	HWB22	1985		35.8373	-89.4026	\$ 225.53	0.197
TN012530	HWB28	1985		35.8213	-89.3869	\$ 38.72	0.225
TN012531	HWB28	1985		35.8212	-89.3869	\$ 81.45	0.274
TN012532	HWB22	1985		35.8193	-89.3648	\$ 235.23	0.146
TN012533	HWB22	1985		35.8189	-89.3622	\$ 235.23	0.146
TN012534	HWB22	1985		35.8186	-89.3610	\$ 249.91	0.139

Table E.3 Predicted Economic Losses for Bridges

HazusID	Bridge Class	Year Built	Year Remodeled	Latitude	Longitude	Economic Losses (Thousands)	Damage ratio
TN012535	HWB15	1952	1989	35.8181	-89.3581	\$ 1,102.56	0.083
TN012536	HWB16	1995		35.9189	-89.6082	\$ 2,038.38	0.082
TN013372	HWB23	2007		35.9756	-89.4312	\$ 283.78	0.218
TN013543	HWB28	1973	2002	35.6381	-89.0567	\$ 20.98	0.038
TN013544	HWB4	1992		35.6546	-89.0396	\$ 46.60	0.051
TN013545	HWB4	1996		35.6475	-88.9961	\$ 36.17	0.040
TN013546	HWB28	1990		35.6539	-88.7855	\$ 12.47	0.072
TN013547	HWB28	1990		35.6703	-88.7810	\$ 15.98	0.093
TN013548	HWB22	1987		35.5119	-88.9198	\$ 54.70	0.067
TN013549	HWB17	1989		35.5789	-88.9073	\$ 404.67	0.372
TN013550	HWB28	2007		35.5846	-88.8605	\$ 23.37	0.068
TN013551	HWB28	2007		35.6925	-88.6751	\$ 19.73	0.066
TN013552	HWB28	1986		35.6705	-88.6870	\$ 6.77	0.021
TN013553	HWB4	2009		35.6506	-88.7164	\$ 14.50	0.020
TN013554	HWB28	2008	2008	35.6428	-88.7267	\$ 3.59	0.015
TN013555	HWB28	1998		35.6347	-88.7528	\$ 7.53	0.016
TN013556	HWB5	1955		35.7924	-88.9110	\$ 457.78	0.410
TN013557	HWB3	1956		35.6745	-88.9059	\$ 18.74	0.106
TN013558	HWB28	1956		35.7134	-88.9087	\$ 10.93	0.073
TN013559	HWB4	2005		35.5584	-89.0706	\$ 12.00	0.024
TN013560	HWB4	2005		35.5583	-89.0670	\$ 28.77	0.041
TN013561	HWB4	1999		35.7778	-88.7538	\$ 57.73	0.074
TN013562	HWB28	2000		35.6607	-88.7892	\$ 69.25	0.098
TN013563	HWB23	1997		35.7189	-88.7660	\$ 66.39	0.054
TN013564	HWB23	1994		35.5908	-88.6389	\$ 13.91	0.018
TN013565	HWB28	1983		35.5908	-88.6389	\$ 3.95	0.013
TN013566	HWB28	1958		35.7550	-88.7403	\$ 33.35	0.020
TN013567	HWB28	1965		35.7568	-88.7398	\$ 9.92	0.029
TN013568	HWB5	1970		35.7576	-88.7395	\$ 260.08	0.160
TN013569	HWB5	1951		35.7669	-88.7377	\$ 98.01	0.263
TN013570	HWB4	2012		35.5634	-88.8466	\$ 34.45	0.038
TN013571	HWB4	2000		35.5649	-88.8456	\$ 33.44	0.038
TN013572	HWB28	1990		35.4461	-88.8573	\$ 6.44	0.018
TN013573	HWB24	1970		35.4448	-88.8560	\$ 66.34	0.243
TN013574	HWB4	1999		35.5014	-89.0424	\$ 36.66	0.047

Table E.3 Predicted Economic Losses for Bridges

HazusID	Bridge Class	Year Built	Year Remodeled	Latitude	Longitude	Economic Losses (Thousands)	Damage ratio
TN013575	HWB28	1984		35.5081	-88.9736	\$ 25.09	0.069
TN013576	HWB28	1986		35.5147	-88.7052	\$ 5.89	0.016
TN013577	HWB3	1983		35.5314	-88.8474	\$ 27.10	0.057
TN013578	HWB28	1999		35.5492	-88.8688	\$ 29.12	0.056
TN013579	HWB17	1965		35.5503	-88.8375	\$ 199.28	0.151
TN013580	HWB23	1990		35.5803	-88.8095	\$ 18.76	0.023
TN013581	HWB17	1989		35.5769	-88.8026	\$ 249.81	0.229
TN013582	HWB23	1996		35.5753	-88.7993	\$ 20.61	0.036
TN013583	HWB28	1984		35.5753	-88.7993	\$ 3.99	0.027
TN013584	HWB28	1984		35.5735	-88.7746	\$ 2.53	0.017
TN013585	HWB28	1984		35.5702	-88.7671	\$ 3.83	0.015
TN013586	HWB28	1992		35.5624	-88.7525	\$ 3.12	0.012
TN013587	HWB22	1975		35.5624	-88.7525	\$ 36.43	0.026
TN013588	HWB5	1922		35.6160	-88.8561	\$ 141.19	0.195
TN013589	HWB28	2017		35.6155	-88.8595	\$ 8.31	0.026
TN013590	HWB5	1922		35.6149	-88.8611	\$ 128.70	0.259
TN013591	HWB5	1922		35.6141	-88.8627	\$ 157.40	0.190
TN013592	HWB5	1950		35.6061	-88.8976	\$ 208.87	0.337
TN013593	HWB3	1955		35.6066	-88.8995	\$ 20.06	0.070
TN013594	HWB4	1993		35.6132	-88.8636	\$ 44.76	0.057
TN013595	HWB28	1989		35.5948	-88.8542	\$ 10.28	0.028
TN013596	HWB28	1983		35.6297	-88.8910	\$ 17.54	0.039
TN013597	HWB22	1989		35.6326	-88.8928	\$ 84.79	0.070
TN013598	HWB4	2005		35.6306	-88.9338	\$ 57.29	0.068
TN013599	HWB3	1952		35.6261	-88.6172	\$ 3.30	0.017
TN013601	HWB28	2005		35.6355	-88.6101	\$ 3.39	0.018
TN013602	HWB28	1983		35.7633	-88.8897	\$ 20.75	0.098
TN013603	HWB4	2008		35.7633	-88.8893	\$ 52.57	0.098
TN013604	HWB28	1983		35.7631	-88.8885	\$ 27.30	0.117
TN013605	HWB28	1985		35.6256	-88.7692	\$ 10.17	0.028
TN013606	HWB28	1992		35.7190	-88.9013	\$ 18.01	0.053
TN013607	HWB28	1984		35.7184	-88.8766	\$ 11.67	0.069
TN013608	HWB4	1998		35.7198	-88.8153	\$ 96.08	0.097
TN013609	HWB28	1984		35.7200	-88.8138	\$ 15.29	0.048
TN013610	HWB4	1992		35.7239	-88.7697	\$ 26.57	0.034

Table E.3 Predicted Economic Losses for Bridges

HazusID	Bridge Class	Year Built	Year Remodeled	Latitude	Longitude	Economic Losses (Thousands)	Damage ratio
TN013611	HWB4	1995		35.7240	-88.7468	\$ 33.28	0.037
TN013612	HWB28	2000		35.6674	-88.8043	\$ 13.25	0.088
TN013613	HWB28	2000		35.6694	-88.7949	\$ 17.98	0.084
TN013614	HWB5	1962		35.6193	-88.9944	\$ 242.89	0.316
TN013615	HWB28	1988		35.4355	-88.8175	\$ 2.56	0.009
TN013616	HWB28	2013		35.6724	-88.7992	\$ 26.88	0.104
TN013617	HWB28	2000		35.6771	-88.9796	\$ 5.73	0.017
TN013618	HWB28	1992		35.6815	-88.9779	\$ 2.65	0.014
TN013619	HWB28	1984		35.6974	-88.9752	\$ 11.02	0.051
TN013620	HWB28	1970		35.6857	-88.9345	\$ 23.47	0.043
TN013621	HWB28	2001		35.4573	-88.7554	\$ 4.35	0.017
TN013622	HWB4	2000		35.7699	-88.6110	\$ 21.47	0.027
TN013623	HWB28	2004	2004	35.7815	-88.6142	\$ 10.46	0.031
TN013624	HWB28	1991		35.6666	-88.8897	\$ 10.01	0.058
TN013625	HWB28	1998		35.7023	-88.8761	\$ 25.36	0.054
TN013626	HWB28	1993		35.7084	-88.9070	\$ 11.09	0.056
TN013627	HWB17	1989		35.7354	-88.8621	\$ 219.17	0.330
TN013628	HWB17	1984		35.7179	-88.8569	\$ 450.52	0.413
TN013629	HWB28	1984		35.4322	-88.8591	\$ 3.38	0.016
TN013630	HWB28	1984		35.4326	-88.8594	\$ 3.45	0.014
TN013631	HWB17	1987		35.7518	-88.8373	\$ 269.46	0.356
TN013632	HWB28	2005		35.7634	-88.8571	\$ 4.91	0.038
TN013633	HWB28	2005		35.7847	-88.8514	\$ 18.16	0.060
TN013634	HWB28	1975		35.7856	-88.8629	\$ 18.10	0.048
TN013635	HWB28	2002		35.7889	-88.8306	\$ 20.95	0.055
TN013636	HWB7	2000		35.7918	-88.8840	\$ 55.05	0.063
TN013637	HWB28	1983		35.7908	-88.8054	\$ 15.52	0.060
TN013638	HWB4	1997		35.7918	-88.7515	\$ 72.23	0.089
TN013639	HWB28	1986		35.6873	-88.7474	\$ 20.61	0.064
TN013640	HWB28	1984		35.5286	-88.6456	\$ 5.71	0.027
TN013641	HWB4	2000		35.7622	-88.7117	\$ 31.73	0.047
TN013642	HWB4	1994		35.7688	-88.7003	\$ 15.53	0.033
TN013643	HWB23	1994		35.7689	-88.7019	\$ 21.16	0.036
TN013644	HWB28	1968		35.7692	-88.6927	\$ 8.26	0.034
TN013645	HWB28	1984		35.7698	-88.6919	\$ 9.43	0.030

Table E.3 Predicted Economic Losses for Bridges

HazusID	Bridge Class	Year Built	Year Remodeled	Latitude	Longitude	Economic Losses (Thousands)	Damage ratio
TN013646	HWB28	1984		35.7288	-88.7058	\$ 19.83	0.117
TN013647	HWB28	1991		35.7287	-88.7038	\$ 14.66	0.034
TN013648	HWB28	1989		35.7265	-88.6976	\$ 5.56	0.031
TN013649	HWB4	2000		35.7083	-88.7064	\$ 46.53	0.097
TN013650	HWB28	1965		35.7440	-88.9304	\$ 14.39	0.042
TN013651	HWB28	1970		35.5907	-88.6682	\$ 6.55	0.012
TN013652	HWB4	1998		35.5968	-88.6671	\$ 28.35	0.021
TN013653	HWB4	2014		35.6933	-88.9949	\$ 28.22	0.055
TN013654	HWB28	2005		35.7018	-88.9764	\$ 21.58	0.051
TN013655	HWB4	1996		35.6263	-88.6941	\$ 15.33	0.021
TN013656	HWB28	1984		35.6361	-88.7388	\$ 3.45	0.023
TN013657	HWB4	2001		35.5503	-88.7189	\$ 12.29	0.018
TN013658	HWB28	1970		35.5858	-88.7410	\$ 3.99	0.012
TN013659	HWB28	1965		35.5420	-88.6923	\$ 3.69	0.012
TN013660	HWB28	1984		35.5522	-88.7050	\$ 2.20	0.015
TN013661	HWB28	1975		35.5682	-88.6973	\$ 3.99	0.012
TN013662	HWB4	2009		35.5675	-88.6747	\$ 12.05	0.020
TN013663	HWB28	1984		35.5387	-88.6516	\$ 2.59	0.017
TN013664	HWB28	1998		35.5075	-88.6743	\$ 5.44	0.026
TN013665	HWB28	1965		35.5156	-88.6926	\$ 2.83	0.012
TN013666	HWB28	1984		35.5625	-88.7664	\$ 4.85	0.018
TN013667	HWB28	1984		35.5644	-88.7737	\$ 2.39	0.018
TN013668	HWB28	2005		35.5464	-88.8009	\$ 3.82	0.018
TN013669	HWB4	2001		35.5134	-88.7604	\$ 21.53	0.027
TN013670	HWB28	1982		35.4794	-88.7611	\$ 4.85	0.010
TN013671	HWB28	1992		35.5024	-88.8159	\$ 5.71	0.025
TN013672	HWB28	2001		35.5192	-88.8098	\$ 5.47	0.014
TN013673	HWB28	2009		35.4731	-88.8324	\$ 8.76	0.058
TN013674	HWB28	2009		35.4734	-88.8315	\$ 6.29	0.048
TN013675	HWB28	1945		35.4459	-88.8735	\$ 2.44	0.019
TN013676	HWB28	1945		35.4461	-88.8737	\$ 2.88	0.019
TN013677	HWB4	2011		35.5285	-88.8858	\$ 28.18	0.052
TN013678	HWB28	2005		35.4962	-88.9228	\$ 12.96	0.061
TN013680	HWB28	1984		35.4559	-88.8762	\$ 6.51	0.029
TN013681	HWB28	1984		35.4482	-88.8922	\$ 14.06	0.050

Table E.3 Predicted Economic Losses for Bridges

HazusID	Bridge Class	Year Built	Year Remodeled	Latitude	Longitude	Economic Losses (Thousands)	Damage ratio
TN013682	HWB28	1984		35.4436	-88.9013	\$ 30.22	0.100
TN013683	HWB28	2013	2013	35.4422	-88.9681	\$ 13.21	0.041
TN013684	HWB4	2011		35.4488	-88.9714	\$ 40.32	0.064
TN013685	HWB4	2002		35.4642	-88.9678	\$ 38.67	0.054
TN013686	HWB4	2006		35.4402	-88.9706	\$ 45.84	0.073
TN013687	HWB4	2006		35.4767	-88.9924	\$ 23.75	0.040
TN013688	HWB4	2002		35.4566	-88.9936	\$ 35.94	0.050
TN013689	HWB28	1984		35.4516	-89.0035	\$ 10.98	0.065
TN013690	HWB28	2002	2002	35.4485	-89.0558	\$ 21.56	0.050
TN013691	HWB4	2011		35.4431	-89.0422	\$ 47.75	0.062
TN013692	HWB4	2011		35.4425	-89.0404	\$ 47.75	0.062
TN013693	HWB3	1968		35.4385	-89.0366	\$ 10.76	0.053
TN013694	HWB23	2004		35.4433	-89.0736	\$ 73.22	0.053
TN013695	HWB28	1984		35.4877	-89.0678	\$ 10.98	0.073
TN013696	HWB4	2017		35.5116	-89.0386	\$ 32.83	0.052
TN013697	HWB4	2017		35.5116	-89.0442	\$ 24.87	0.045
TN013698	HWB28	1968		35.4406	-89.0593	\$ 13.59	0.046
TN013699	HWB28	2004		35.4425	-89.0526	\$ 21.82	0.051
TN013700	HWB28	2008		35.5823	-89.0162	\$ 12.74	0.049
TN013702	HWB4	1995		35.5743	-88.9503	\$ 51.06	0.066
TN013704	HWB4	1999		35.5733	-89.0315	\$ 32.94	0.044
TN013705	HWB28	1981		35.5659	-89.0307	\$ 5.48	0.031
TN013706	HWB28	2004		35.5883	-88.9651	\$ 30.79	0.054
TN013707	HWB28	1997		35.5675	-88.8791	\$ 28.49	0.064
TN013708	HWB28	2011		35.5336	-88.9239	\$ 4.41	0.008
TN013709	HWB7	2008		35.5365	-88.9295	\$ 10.53	0.021
TN013710	HWB4	1990		35.5733	-88.9028	\$ 44.74	0.071
TN013711	HWB28	2004		35.5286	-88.9694	\$ 15.71	0.043
TN013712	HWB4	2004		35.5610	-88.8218	\$ 30.62	0.026
TN013713	HWB4	1998		35.5428	-88.8110	\$ 19.77	0.021
TN013714	HWB28	1968		35.6469	-88.6113	\$ 4.81	0.021
TN013715	HWB28	1974		35.6519	-88.6158	\$ 2.70	0.014
TN013716	HWB4	2015		35.6207	-88.9082	\$ 46.92	0.077
TN013717	HWB4	2011		35.5749	-88.8131	\$ 20.62	0.023
TN013718	HWB5	1940	1970	35.5735	-88.8270	\$ 94.24	0.266

Table E.3 Predicted Economic Losses for Bridges

HazusID	Bridge Class	Year Built	Year Remodeled	Latitude	Longitude	Economic Losses (Thousands)	Damage ratio
TN013719	HWB17	1989		35.5696	-88.8164	\$ 197.73	0.215
TN013720	HWB5	1965		35.5761	-88.8272	\$ 103.66	0.266
TN013721	HWB28	1997		35.6139	-88.8273	\$ 6.81	0.026
TN013722	HWB28	2008		35.6087	-88.8065	\$ 9.73	0.020
TN013723	HWB28	1977		35.6103	-88.8052	\$ 4.74	0.018
TN013724	HWB28	2010		35.6095	-88.8053	\$ 7.06	0.025
TN013725	HWB28	1986		35.6209	-88.7946	\$ 16.43	0.031
TN013726	HWB28	1984		35.6176	-88.7957	\$ 10.14	0.031
TN013727	HWB28	1955		35.6170	-88.8217	\$ 7.11	0.041
TN013728	HWB4	2006		35.7825	-88.6486	\$ 24.38	0.045
TN013729	HWB28	1965		35.6928	-88.8082	\$ 17.30	0.051
TN013730	HWB4	1999		35.6881	-88.8096	\$ 150.34	0.201
TN013731	HWB3	1974		35.6849	-88.8409	\$ 13.77	0.069
TN013732	HWB3	1989		35.6320	-88.8301	\$ 20.90	0.031
TN013733	HWB28	1986		35.6358	-88.8232	\$ 26.05	0.071
TN013734	HWB28	2002		35.6289	-89.0082	\$ 17.88	0.027
TN013735	HWB28	2002		35.6287	-89.0062	\$ 11.47	0.036
TN013736	HWB19	1990		35.6804	-88.9437	\$ 65.43	0.062
TN013737	HWB28	1970		35.7909	-88.7807	\$ 24.64	0.072
TN013738	HWB28	1983		35.6685	-88.6799	\$ 2.45	0.016
TN013739	HWB28	2004		35.6633	-88.6692	\$ 3.04	0.016
TN013740	HWB4	2004		35.6631	-88.6684	\$ 5.78	0.016
TN013741	HWB4	2011		35.6624	-88.6565	\$ 11.80	0.019
TN013742	HWB28	1984		35.4835	-88.7181	\$ 2.95	0.017
TN013743	HWB28	1984		35.4803	-88.7141	\$ 1.97	0.013
TN013744	HWB17	1989		35.7040	-88.8508	\$ 333.43	0.364
TN013745	HWB28	1985		35.6255	-88.7691	\$ 9.22	0.024
TN013746	HWB28	1970		35.7246	-88.8353	\$ 13.96	0.081
TN013747	HWB28	1970		35.7243	-88.8334	\$ 15.55	0.080
TN013748	HWB28	1970		35.7243	-88.8283	\$ 10.38	0.069
TN013749	HWB28	1970		35.7241	-88.8184	\$ 17.85	0.052
TN013750	HWB28	1968	2017	35.4709	-88.9188	\$ 15.78	0.049
TN013751	HWB28	1984		35.4634	-88.8816	\$ 31.02	0.094
TN013752	HWB22	1957		35.6023	-89.0406	\$ 70.57	0.039
TN013753	HWB22	1961		35.6224	-88.9827	\$ 81.46	0.045

Table E.3 Predicted Economic Losses for Bridges

HazusID	Bridge Class	Year Built	Year Remodeled	Latitude	Longitude	Economic Losses (Thousands)	Damage ratio
TN013754	HWB17	1960		35.6329	-88.9489	\$ 638.19	0.300
TN013755	HWB17	1961		35.6386	-88.9169	\$ 505.63	0.297
TN013756	HWB17	1960		35.6742	-88.8075	\$ 1,628.51	0.299
TN013757	HWB22	1962		35.6766	-88.7937	\$ 113.10	0.059
TN013758	HWB15	1986		35.6788	-88.7804	\$ 1,453.31	0.254
TN013759	HWB19	1962	2009	35.6788	-88.7804	\$ 183.83	0.076
TN013760	HWB10	1960		35.6836	-88.7133	\$ 160.66	0.102
TN013761	HWB10	1964		35.6946	-88.7004	\$ 165.00	0.101
TN013762	HWB10	1960		35.7088	-88.6632	\$ 137.11	0.090
TN013763	HWB10	1964		35.7129	-88.6498	\$ 128.52	0.085
TN013764	HWB23	1992		35.6411	-88.9205	\$ 375.39	0.099
TN013765	HWB3	1930		35.6352	-88.8234	\$ 13.82	0.054
TN013766	HWB3	1930		35.6342	-88.8259	\$ 16.52	0.036
TN013767	HWB28	1994		35.6893	-88.8516	\$ 34.86	0.070
TN013768	HWB28	1993		35.6894	-88.8466	\$ 34.33	0.064
TN013769	HWB28	1991		35.6676	-88.8807	\$ 24.00	0.112
TN013770	HWB4	1992		35.6039	-88.8079	\$ 9.67	0.022
TN013771	HWB28	2014		35.6058	-88.8072	\$ 6.14	0.018
TN013772	HWB5	1950		35.6169	-88.8116	\$ 531.21	0.250
TN013773	HWB5	1940		35.6216	-88.8108	\$ 373.52	0.273
TN013774	HWB28	1990		35.5804	-88.8266	\$ 10.73	0.021
TN013775	HWB4	1996		35.5198	-88.9128	\$ 67.19	0.060
TN013776	HWB28	1950		35.5446	-88.8867	\$ 28.75	0.097
TN013777	HWB17	1987		35.5688	-88.7687	\$ 236.71	0.211
TN013778	HWB28	1989		35.5632	-88.7845	\$ 4.63	0.020
TN013779	HWB17	1987		35.5395	-88.7413	\$ 314.39	0.121
TN013780	HWB22	1987		35.5394	-88.7380	\$ 38.48	0.028
TN013781	HWB28	1981		35.5312	-88.6838	\$ 7.12	0.024
TN013782	HWB28	1960		35.5926	-88.7523	\$ 12.96	0.011
TN013783	HWB23	2003		35.6557	-88.6318	\$ 55.59	0.024
TN013784	HWB28	1986		35.5842	-88.7072	\$ 7.96	0.022
TN013785	HWB23	2004		35.6901	-88.8018	\$ 117.81	0.122
TN013786	HWB28	2002		35.7043	-88.8035	\$ 21.24	0.040
TN013787	HWB23	1997		35.7397	-88.7940	\$ 150.69	0.028
TN013788	HWB28	2001		35.7425	-88.7927	\$ 11.56	0.036

Table E.3 Predicted Economic Losses for Bridges

HazusID	Bridge Class	Year Built	Year Remodeled	Latitude	Longitude	Economic Losses (Thousands)	Damage ratio
TN013789	HWB28	1991		35.7583	-88.7897	\$ 17.39	0.053
TN013790	HWB7	1999		35.7583	-88.7897	\$ 33.30	0.065
TN013791	HWB19	1992		35.5953	-88.8336	\$ 75.06	0.035
TN013792	HWB19	1992		35.5962	-88.8333	\$ 48.84	0.037
TN013793	HWB19	1992		35.5971	-88.8330	\$ 135.02	0.032
TN013794	HWB19	1992		35.5989	-88.8325	\$ 89.36	0.033
TN013795	HWB15	1952		35.6009	-88.8319	\$ 184.80	0.089
TN013796	HWB23	1992		35.6030	-88.8311	\$ 33.40	0.030
TN013797	HWB23	1992		35.6056	-88.8301	\$ 47.85	0.027
TN013798	HWB4	2000		35.4568	-88.8496	\$ 9.93	0.015
TN013799	HWB28	1993		35.4646	-88.7929	\$ 10.02	0.034
TN013800	HWB4	2011		35.4606	-88.7697	\$ 6.73	0.014
TN013801	HWB17	1984		35.4706	-88.7511	\$ 127.55	0.159
TN013802	HWB28	2002	2002	35.5646	-88.9997	\$ 10.24	0.030
TN013803	HWB28	1965		35.5879	-89.0029	\$ 8.81	0.026
TN013804	HWB23	2004		35.7418	-88.9021	\$ 90.52	0.084
TN013805	HWB28	2011		35.7411	-88.8769	\$ 17.66	0.055
TN013806	HWB22	1989		35.7411	-88.8760	\$ 69.91	0.091
TN013807	HWB23	1993		35.6177	-88.8516	\$ 54.29	0.028
TN013808	HWB28	1950		35.6164	-88.8542	\$ 5.14	0.034
TN013809	HWB28	1988		35.5906	-88.9609	\$ 24.62	0.068
TN013810	HWB23	1998		35.6740	-88.9995	\$ 27.45	0.013
TN013811	HWB19	1998		35.6719	-89.0001	\$ 27.90	0.021
TN013812	HWB23	1998		35.6695	-89.0006	\$ 18.29	0.013
TN013813	HWB28	1960	1999	35.6673	-89.0009	\$ 10.47	0.010
TN013814	HWB17	1984		35.6662	-89.0011	\$ 470.18	0.340
TN013815	HWB28	1960	1999	35.6635	-89.0017	\$ 39.37	0.036
TN013816	HWB28	1984		35.6579	-88.6318	\$ 4.17	0.018
TN013817	HWB4	2003		35.6714	-88.6446	\$ 12.31	0.017
TN013818	HWB4	2013		35.6861	-88.6468	\$ 12.21	0.023
TN013819	HWB3	1930		35.6146	-88.8243	\$ 20.01	0.027
TN013820	HWB28	1928		35.6314	-88.7896	\$ 6.72	0.045
TN013821	HWB28	1975	1975	35.5154	-88.7570	\$ 10.89	0.051
TN013822	HWB16	1992		35.7610	-88.8460	\$ 902.15	0.097
TN013823	HWB28	1990		35.7886	-88.8695	\$ 11.41	0.066

Table E.3 Predicted Economic Losses for Bridges

HazusID	Bridge Class	Year Built	Year Remodeled	Latitude	Longitude	Economic Losses (Thousands)	Damage ratio
TN013824	HWB23	1997		35.7338	-88.8500	\$ 275.25	0.076
TN013825	HWB23	1997		35.7335	-88.8501	\$ 359.94	0.076
TN013826	HWB28	2013		35.7132	-88.8359	\$ 24.15	0.125
TN013827	HWB28	1958		35.6815	-88.9776	\$ 2.98	0.017
TN013828	HWB28	1958		35.6763	-88.9481	\$ 18.81	0.087
TN013829	HWB5	1929		35.6261	-88.8390	\$ 256.86	0.320
TN013830	HWB23	1991		35.6654	-88.8816	\$ 325.46	0.087
TN013831	HWB16	1991		35.6673	-88.8941	\$ 1,314.49	0.038
TN013832	HWB16	1991		35.6670	-88.8935	\$ 1,166.68	0.040
TN013833	HWB28	1991		35.6717	-88.9498	\$ 15.77	0.061
TN013834	HWB28	1991		35.6681	-88.9145	\$ 16.17	0.094
TN013835	HWB28	1991		35.6677	-88.8890	\$ 10.95	0.073
TN013836	HWB28	1990		35.6623	-88.8801	\$ 12.28	0.071
TN013837	HWB28	1991		35.7718	-88.8273	\$ 11.37	0.076
TN013838	HWB28	2017		35.4458	-89.0220	\$ 18.92	0.059
TN013839	HWB16	1997		35.6695	-88.8551	\$ 224.79	0.069
TN013840	HWB16	1997		35.6696	-88.8545	\$ 565.10	0.064
TN013841	HWB16	1997		35.6695	-88.8560	\$ 223.87	0.069
TN013842	HWB28	1998		35.5644	-88.6185	\$ 0.16	0.001
TN013843	HWB28	1995		35.6405	-88.9169	\$ 14.17	0.082
TN017943	HWB3	1984		35.3979	-89.6962	\$ 21.69	0.096
TN017944	HWB4	2004		35.5084	-89.9414	\$ 105.10	0.086
TN017945	HWB28	2004		35.4008	-89.8691	\$ 21.52	0.100
TN017946	HWB4	2001		35.4026	-89.8904	\$ 129.80	0.116
TN017947	HWB4	2002		35.4041	-89.9063	\$ 81.10	0.100
TN017948	HWB3	1970		35.4134	-89.9246	\$ 22.68	0.100
TN017949	HWB23	1997		35.5327	-89.6677	\$ 148.56	0.109
TN017950	HWB28	1997		35.5145	-89.6761	\$ 20.18	0.089
TN017951	HWB28	2012		35.4914	-89.6839	\$ 25.77	0.087
TN017952	HWB4	1991		35.5031	-89.6774	\$ 23.34	0.087
TN017953	HWB28	2012		35.4810	-89.6914	\$ 90.88	0.189
TN017954	HWB28	1991		35.4058	-89.5279	\$ 16.36	0.048
TN017955	HWB28	1991		35.4066	-89.5283	\$ 15.21	0.054
TN017956	HWB4	2007		35.4079	-89.5293	\$ 44.59	0.066
TN017957	HWB28	2013		35.4816	-89.7196	\$ 40.29	0.101

Table E.3 Predicted Economic Losses for Bridges

HazusID	Bridge Class	Year Built	Year Remodeled	Latitude	Longitude	Economic Losses (Thousands)	Damage ratio
TN017958	HWB28	2003		35.4804	-89.7170	\$ 16.52	0.077
TN017959	HWB28	1973		35.4796	-89.7159	\$ 25.99	0.092
TN017960	HWB23	2008		35.5882	-89.5612	\$ 134.97	0.103
TN017961	HWB28	1969		35.5781	-89.5596	\$ 24.12	0.084
TN017962	HWB3	1975		35.5989	-89.6678	\$ 26.03	0.115
TN017963	HWB28	1970		35.5994	-89.6676	\$ 32.53	0.115
TN017964	HWB28	1974		35.6271	-89.6529	\$ 42.49	0.143
TN017965	HWB28	1974		35.6261	-89.6287	\$ 24.03	0.127
TN017966	HWB4	2000		35.6231	-89.6062	\$ 94.12	0.109
TN017967	HWB4	1997		35.6219	-89.6045	\$ 107.57	0.106
TN017968	HWB4	2001		35.6043	-89.7208	\$ 73.30	0.117
TN017969	HWB23	1997		35.6176	-89.7015	\$ 192.28	0.125
TN017970	HWB10	1974		35.4325	-89.6544	\$ 56.13	0.100
TN017971	HWB23	1993		35.5596	-89.8305	\$ 110.99	0.126
TN017972	HWB23	2006		35.5799	-89.6535	\$ 83.82	0.116
TN017973	HWB4	2006		35.5469	-89.8371	\$ 80.48	0.133
TN017974	HWB28	1984		35.5137	-89.8636	\$ 26.72	0.084
TN017975	HWB28	2005		35.5133	-89.8621	\$ 33.07	0.106
TN017976	HWB28	1995		35.3941	-89.6421	\$ 9.69	0.041
TN017977	HWB23	1995		35.3942	-89.6417	\$ 36.51	0.042
TN017978	HWB3	1978		35.5876	-89.8134	\$ 34.33	0.151
TN017979	HWB3	1981		35.5878	-89.8033	\$ 33.80	0.149
TN017980	HWB3	1972		35.5895	-89.7881	\$ 26.63	0.134
TN017981	HWB28	1983		35.5958	-89.7578	\$ 28.24	0.133
TN017982	HWB28	1992		35.6077	-89.7711	\$ 31.07	0.164
TN017983	HWB28	2005		35.6085	-89.7393	\$ 42.58	0.180
TN017984	HWB3	1970		35.5905	-89.7469	\$ 25.36	0.112
TN017985	HWB28	2008		35.5713	-89.7258	\$ 19.70	0.115
TN017986	HWB28	2010		35.5826	-89.6991	\$ 36.80	0.130
TN017987	HWB3	1970		35.5964	-89.6890	\$ 29.33	0.129
TN017988	HWB28	1983		35.6050	-89.5821	\$ 14.82	0.087
TN017989	HWB28	1970		35.5751	-89.6015	\$ 18.73	0.083
TN017990	HWB28	2013		35.5724	-89.6346	\$ 43.30	0.127
TN017991	HWB28	2013		35.5723	-89.6349	\$ 53.50	0.094
TN017992	HWB3	1976		35.5857	-89.5375	\$ 23.22	0.102

Table E.3 Predicted Economic Losses for Bridges

HazusID	Bridge Class	Year Built	Year Remodeled	Latitude	Longitude	Economic Losses (Thousands)	Damage ratio
TN017993	HWB28	1992		35.5493	-89.5070	\$ 17.77	0.078
TN017994	HWB28	1983		35.5172	-89.5048	\$ 17.02	0.080
TN017995	HWB3	1970		35.4753	-89.5370	\$ 14.69	0.074
TN017996	HWB3	1969		35.5421	-89.6359	\$ 26.86	0.118
TN017997	HWB3	1984		35.4263	-89.6240	\$ 12.11	0.069
TN017998	HWB3	1984		35.4316	-89.6240	\$ 13.03	0.084
TN017999	HWB28	2006		35.4407	-89.5897	\$ 14.36	0.084
TN018000	HWB28	1983		35.4348	-89.6796	\$ 13.35	0.088
TN018001	HWB3	1969		35.4621	-89.6349	\$ 20.48	0.090
TN018002	HWB28	2009		35.4986	-89.6243	\$ 19.64	0.084
TN018003	HWB28	1982		35.5098	-89.6376	\$ 10.55	0.080
TN018004	HWB28	1984		35.5207	-89.6936	\$ 24.18	0.102
TN018005	HWB28	1988		35.5049	-89.6919	\$ 17.59	0.093
TN018006	HWB3	1976		35.4907	-89.6953	\$ 20.37	0.090
TN018007	HWB23	2005		35.4906	-89.6952	\$ 61.54	0.094
TN018008	HWB28	1989		35.4860	-89.7173	\$ 19.90	0.077
TN018009	HWB4	2014		35.5083	-89.6878	\$ 45.88	0.090
TN018010	HWB3	1975		35.4445	-89.6748	\$ 19.94	0.088
TN018011	HWB28	1987		35.4244	-89.7363	\$ 12.88	0.076
TN018013	HWB28	1987		35.4855	-89.7170	\$ 16.79	0.101
TN018014	HWB4	2005		35.4896	-89.7784	\$ 85.06	0.105
TN018015	HWB28	2015		35.4920	-89.7577	\$ 35.19	0.090
TN018016	HWB16	1990		35.4727	-89.7409	\$ 322.78	0.077
TN018017	HWB28	2009		35.4317	-89.7491	\$ 20.12	0.077
TN018018	HWB17	1984		35.4023	-89.8164	\$ 340.80	0.380
TN018019	HWB3	1970		35.4106	-89.8039	\$ 13.12	0.077
TN018020	HWB3	1981		35.4131	-89.8153	\$ 19.41	0.086
TN018021	HWB19	1990		35.3981	-89.8449	\$ 162.47	0.083
TN018022	HWB4	2014		35.4058	-89.8278	\$ 74.49	0.083
TN018023	HWB4	2010		35.4069	-89.8152	\$ 86.15	0.089
TN018024	HWB28	1984		35.4167	-89.8379	\$ 30.54	0.090
TN018025	HWB28	2007		35.4921	-89.7572	\$ 18.65	0.087
TN018026	HWB28	2000		35.4249	-89.8451	\$ 21.73	0.085
TN018027	HWB28	1984		35.4254	-89.8842	\$ 17.55	0.116
TN018028	HWB28	1984		35.4255	-89.8904	\$ 16.12	0.122

Table E.3 Predicted Economic Losses for Bridges

HazusID	Bridge Class	Year Built	Year Remodeled	Latitude	Longitude	Economic Losses (Thousands)	Damage ratio
TN018029	HWB28	1992		35.4459	-89.8521	\$ 12.77	0.084
TN018030	HWB28	1994		35.4375	-89.8980	\$ 18.83	0.125
TN018031	HWB4	2005		35.4468	-89.9625	\$ 51.78	0.082
TN018032	HWB17	1988		35.4471	-89.9622	\$ 214.01	0.398
TN018033	HWB22	1988		35.4469	-89.9628	\$ 90.90	0.131
TN018034	HWB28	1975		35.4997	-89.9199	\$ 50.43	0.103
TN018035	HWB3	1975		35.4938	-89.8940	\$ 33.89	0.128
TN018036	HWB28	1993		35.4961	-89.8764	\$ 22.80	0.107
TN018037	HWB28	1999		35.4976	-89.8739	\$ 25.64	0.109
TN018038	HWB28	2012		35.4940	-89.8627	\$ 17.24	0.114
TN018039	HWB28	1988		35.4891	-89.8246	\$ 15.54	0.103
TN018040	HWB4	1998		35.5014	-89.8068	\$ 82.48	0.087
TN018041	HWB4	2016		35.4911	-89.8229	\$ 86.12	0.122
TN018042	HWB22	1965		35.5332	-89.7985	\$ 117.21	0.128
TN018043	HWB28	1983		35.5187	-89.8234	\$ 25.14	0.111
TN018044	HWB28	1983		35.5330	-89.8190	\$ 21.03	0.141
TN018045	HWB3	1976		35.5296	-89.8064	\$ 31.65	0.140
TN018046	HWB28	1989		35.5250	-89.7770	\$ 30.29	0.089
TN018047	HWB3	1976		35.4849	-89.7511	\$ 19.09	0.084
TN018048	HWB4	1997		35.4978	-89.7320	\$ 65.72	0.085
TN018049	HWB4	1997		35.4984	-89.7317	\$ 82.87	0.085
TN018050	HWB3	1983		35.5009	-89.7315	\$ 19.25	0.085
TN018051	HWB28	2013		35.5207	-89.7110	\$ 17.36	0.117
TN018052	HWB28	1984		35.5510	-89.6868	\$ 19.08	0.112
TN018053	HWB22	1976		35.5549	-90.0182	\$ 252.05	0.163
TN018054	HWB4	2012		35.4460	-89.5675	\$ 78.43	0.109
TN018055	HWB4	1998		35.4478	-89.6239	\$ 60.27	0.075
TN018056	HWB28	1983		35.4506	-89.6376	\$ 15.15	0.089
TN018057	HWB4	2001		35.4240	-89.5704	\$ 29.46	0.066
TN018058	HWB28	1987		35.4241	-89.5698	\$ 11.83	0.063
TN018059	HWB4	2007		35.4235	-89.5980	\$ 19.53	0.082
TN018060	HWB28	1990		35.6174	-89.6209	\$ 58.33	0.145
TN018061	HWB28	2010		35.4265	-89.9072	\$ 21.87	0.127
TN018062	HWB28	2000		35.4569	-89.7971	\$ 20.70	0.100
TN018063	HWB28	2000		35.5811	-89.6582	\$ 18.48	0.123

Table E.3 Predicted Economic Losses for Bridges

HazusID	Bridge Class	Year Built	Year Remodeled	Latitude	Longitude	Economic Losses (Thousands)	Damage ratio
TN018064	HWB28	1997		35.5435	-89.6452	\$ 30.77	0.109
TN018065	HWB28	1984		35.3958	-89.6954	\$ 13.97	0.046
TN018066	HWB3	1950		35.4914	-89.7252	\$ 27.51	0.073
TN018067	HWB28	1965		35.5942	-89.7124	\$ 33.73	0.102
TN018068	HWB28	1965		35.5940	-89.7112	\$ 33.73	0.102
TN018069	HWB4	2005		35.4495	-89.8465	\$ 62.14	0.088
TN018070	HWB28	1960		35.4086	-89.5426	\$ 8.04	0.054
TN018071	HWB28	1960		35.4114	-89.5712	\$ 9.68	0.064
TN018072	HWB28	1954		35.4124	-89.5724	\$ 23.27	0.042
TN018073	HWB28	1960		35.4131	-89.5732	\$ 9.68	0.064
TN018074	HWB5	1957		35.4227	-89.6353	\$ 296.85	0.254
TN018075	HWB5	1957		35.4231	-89.6395	\$ 323.84	0.254
TN018076	HWB28	1960		35.4161	-89.6591	\$ 15.81	0.105
TN018077	HWB28	1956		35.5067	-89.7899	\$ 22.63	0.070
TN018078	HWB5	1956		35.5151	-89.7707	\$ 332.67	0.261
TN018079	HWB28	1998		35.5338	-89.7163	\$ 26.60	0.102
TN018080	HWB23	1998		35.5758	-89.8344	\$ 295.55	0.135
TN018081	HWB3	1957		35.5936	-89.7912	\$ 32.77	0.144
TN018082	HWB3	1954		35.6029	-89.7426	\$ 23.13	0.102
TN018083	HWB28	1985		35.6008	-89.7266	\$ 24.28	0.125
TN018084	HWB23	2012		35.4396	-89.6660	\$ 281.30	0.107
TN018085	HWB28	2015		35.4349	-89.6731	\$ 60.10	0.099
TN018086	HWB28	1986		35.5644	-89.6376	\$ 46.05	0.090
TN018087	HWB23	1990		35.5313	-89.8483	\$ 153.79	0.143
TN018088	HWB28	1985		35.5360	-89.6498	\$ 20.60	0.137
TN018089	HWB4	2000		35.5524	-89.6410	\$ 213.67	0.134
TN018090	HWB23	1994		35.5820	-89.6564	\$ 489.51	0.081
TN100001	HWB8	1965		36.3027	-89.5007	\$ 102.08	0.729
TN100002	HWB17	1982		36.2283	-89.4736	\$ 111.80	0.799
TN100003	HWB10	1983		36.3528	-89.4062	\$ 86.96	0.257
TN100004	HWB20	1985		36.2156	-89.4982	\$ 76.17	0.544
TN100005	HWB20	1987		36.2263	-89.5444	\$ 528.83	0.316
TN100006	HWB17	1990		36.2596	-89.4289	\$ 75.99	0.543
TN100007	HWB17	1991		36.3316	-89.4008	\$ 76.97	0.550
TN100008	HWB19	2007		36.2697	-89.4247	\$ 33.11	0.236

Table E.3 Predicted Economic Losses for Bridges

HazusID	Bridge Class	Year Built	Year Remodeled	Latitude	Longitude	Economic Losses (Thousands)	Damage ratio
TN100009	HWB19	2011		36.3529	-89.4098	\$ 32.57	0.233
TN100010	HWB21	2013		36.1979	-89.5107	\$ 27.18	0.194
TN100012	HWB19	2017		36.3691	-89.4879	\$ 49.44	0.353
TN100013	HWB19	2018		36.4479	-89.4088	\$ 42.67	0.305
TN100014	HWB28	1930		36.3523	-89.4058	\$ 723.82	0.285
TN100015	HWB28	2014		36.4073	-89.4749	\$ 43.81	0.313
TN100016	HWB28	2014		36.3859	-88.4676	\$ -	0.000
TN100017	HWB28	1999		36.4644	-89.3930	\$ 22.09	0.158
TN100018	HWB28	1993		36.3494	-89.4686	\$ 25.23	0.180
TN100019	HWB28	1997		36.3071	-89.4757	\$ 22.09	0.158
TN100020	HWB28	1997		36.3413	-89.4699	\$ 26.94	0.192
TN100021	HWB28	1997		36.3336	-89.4729	\$ 35.41	0.253
TN100022	HWB28	1969		36.3674	-89.5049	\$ 32.12	0.229
TN100023	HWB28	1998		36.4438	-89.4867	\$ 47.09	0.336
TN100024	HWB28	1984		36.2279	-89.5319	\$ 26.64	0.190
TN100025	HWB28	1984		36.2271	-89.5374	\$ 20.39	0.146
TN100026	HWB28	2014		36.2629	-89.4651	\$ 56.15	0.401
TN100027	HWB28	1984		36.2848	-89.5173	\$ 43.64	0.312
TN100028	HWB28	1999		36.3216	-89.4758	\$ 40.12	0.287
TN100029	HWB28	1999		36.3071	-89.4761	\$ 41.44	0.296
TN100030	HWB28	1995		36.1982	-89.5161	\$ 46.15	0.330
TN100031	HWB28	2014		36.4132	-89.4754	\$ 51.55	0.368
TN100032	HWB3	1981		36.0589	-88.2945	\$ -	0.000
TN100033	HWB23	1946		36.0338	-89.3681	\$ -	0.361
TN100034	HWB28	1930		36.0994	-89.2766	\$ -	0.247
TN100035	HWB10	1979		36.2063	-89.2114	\$ -	0.363
TN100036	HWB28	1924		35.6756	-89.5709	\$ 278.99	0.130
TN100037	HWB28	1903		35.7266	-89.5424	\$ 218.37	0.102
TN100038	HWB28	1924		35.6785	-89.5806	\$ 280.88	0.131
TN100039	HWB28	1903		35.7861	-89.4856	\$ 314.51	0.146
TN100040	HWB3	1975		35.8003	-89.4540	\$ 353.96	0.165
TN100041	HWB28	1949		35.4859	-89.7237	\$ 184.71	0.095
TN100042	HWB28	1949		35.4253	-89.8009	\$ 163.94	0.084
TN100043	HWB28	1950		35.4838	-89.7253	\$ 184.71	0.095
TN100044	HWB28	1951		35.5527	-89.6436	\$ 219.46	0.113

Table E.3 Predicted Economic Losses for Bridges

HazusID	Bridge Class	Year Built	Year Remodeled	Latitude	Longitude	Economic Losses (Thousands)	Damage ratio
TN100045	HWB28	1975		35.5475	-89.6491	\$ 208.90	0.108

Appendix F. Rankings

Table F.1 Essential Facility Predicted Performance Ranking by RVS Score

<i>Structure No.</i>	<i>RVS Score (S_{L1})</i>	<i>BRC</i>	<i>IO</i>	<i>Rank</i>
162.05	5.60	0.08	0.72	1
174.04	5.60	0.10	0.65	1
174.07	5.60	0.10	0.65	1
174.05	5.50	0.18	0.38	2
57.02	4.30	0.09	0.75	3
153.05	3.90	0.21	0.25	4
161.03	3.90	0.09	0.61	4
161.05	3.90	0.09	0.61	4
161.06	3.90	0.09	0.61	4
176	3.90	0.07	0.66	4
163.06	3.90	0.08	0.64	4
164.02	3.90	0.06	0.70	4
88.02	3.90	0.07	0.68	4
88.03	3.90	0.07	0.68	4
88.05	3.90	0.07	0.68	4
140.02	3.90	0.24	0.17	4
140.03	3.90	0.31	0.11	4
140.04	3.90	0.31	0.11	4
140.05	3.90	0.24	0.17	4
140.06	3.90	0.24	0.17	4
144.02	3.90	0.48	0.04	4
144.03	3.90	0.48	0.04	4
144.04	3.90	0.48	0.04	4
144.05	3.90	0.48	0.04	4
153.02	3.90	0.32	0.11	4
153.03	3.90	0.32	0.11	4
153.04	3.90	0.32	0.11	4
136.04	3.90	0.22	0.20	4
136.05	3.90	0.22	0.20	4
136.06	3.90	0.22	0.20	4
136.07	3.90	0.22	0.20	4
136.08	3.90	0.22	0.20	4
136.09	3.90	0.22	0.20	4
136.1	3.90	0.22	0.20	4

*Table F.1 Essential Facility Predicted Performance
Ranking by RVS Score*

<i>Structure No.</i>	<i>RVS Score (S_{L1})</i>	<i>BRC</i>	<i>IO</i>	<i>Rank</i>
<i>136.11</i>	<i>3.90</i>	<i>0.22</i>	<i>0.20</i>	<i>4</i>
<i>136.12</i>	<i>3.90</i>	<i>0.22</i>	<i>0.20</i>	<i>4</i>
<i>181.02</i>	<i>3.80</i>	<i>0.07</i>	<i>0.70</i>	<i>5</i>
<i>183.03</i>	<i>3.80</i>	<i>0.06</i>	<i>0.70</i>	<i>5</i>
<i>183.04</i>	<i>3.80</i>	<i>0.06</i>	<i>0.70</i>	<i>5</i>
<i>187.02</i>	<i>3.80</i>	<i>0.08</i>	<i>0.63</i>	<i>5</i>
<i>191.02</i>	<i>3.80</i>	<i>0.10</i>	<i>0.57</i>	<i>5</i>
<i>190.03</i>	<i>3.80</i>	<i>0.08</i>	<i>0.63</i>	<i>5</i>
<i>123.03</i>	<i>3.80</i>	<i>0.12</i>	<i>0.50</i>	<i>5</i>
<i>77.02</i>	<i>3.80</i>	<i>0.08</i>	<i>0.67</i>	<i>5</i>
<i>196.02</i>	<i>3.70</i>	<i>0.24</i>	<i>0.18</i>	<i>6</i>
<i>197.02</i>	<i>3.70</i>	<i>0.25</i>	<i>0.17</i>	<i>6</i>
<i>197.03</i>	<i>3.70</i>	<i>0.25</i>	<i>0.17</i>	<i>6</i>
<i>77.03</i>	<i>3.70</i>	<i>0.23</i>	<i>0.16</i>	<i>6</i>
<i>77.04</i>	<i>3.70</i>	<i>0.23</i>	<i>0.16</i>	<i>6</i>
<i>77.05</i>	<i>3.70</i>	<i>0.23</i>	<i>0.16</i>	<i>6</i>
<i>174.08</i>	<i>3.70</i>	<i>0.27</i>	<i>0.19</i>	<i>6</i>
<i>174.15</i>	<i>3.70</i>	<i>0.27</i>	<i>0.19</i>	<i>6</i>
<i>163.04</i>	<i>3.70</i>	<i>0.23</i>	<i>0.24</i>	<i>6</i>
<i>142.02</i>	<i>3.60</i>	<i>0.21</i>	<i>0.28</i>	<i>7</i>
<i>136.03</i>	<i>3.60</i>	<i>0.17</i>	<i>0.35</i>	<i>7</i>
<i>14.01</i>	<i>3.40</i>	<i>0.11</i>	<i>0.69</i>	<i>8</i>
<i>57.04</i>	<i>3.30</i>	<i>0.53</i>	<i>0.04</i>	<i>9</i>
<i>183.02</i>	<i>3.30</i>	<i>0.07</i>	<i>0.70</i>	<i>9</i>
<i>162.02</i>	<i>3.30</i>	<i>0.08</i>	<i>0.72</i>	<i>9</i>
<i>141.04</i>	<i>3.30</i>	<i>0.14</i>	<i>0.55</i>	<i>9</i>
<i>141.05</i>	<i>3.30</i>	<i>0.14</i>	<i>0.55</i>	<i>9</i>
<i>149.04</i>	<i>3.30</i>	<i>0.12</i>	<i>0.54</i>	<i>9</i>
<i>164.01</i>	<i>3.30</i>	<i>0.06</i>	<i>0.70</i>	<i>9</i>
<i>123.05</i>	<i>3.30</i>	<i>0.40</i>	<i>0.08</i>	<i>9</i>
<i>27.01</i>	<i>3.30</i>	<i>0.15</i>	<i>0.60</i>	<i>9</i>
<i>27.02</i>	<i>3.30</i>	<i>0.15</i>	<i>0.60</i>	<i>9</i>
<i>31</i>	<i>3.30</i>	<i>0.13</i>	<i>0.62</i>	<i>9</i>
<i>150</i>	<i>3.20</i>	<i>0.15</i>	<i>0.38</i>	<i>10</i>
<i>173.01</i>	<i>3.20</i>	<i>0.07</i>	<i>0.69</i>	<i>10</i>
<i>173.02</i>	<i>3.20</i>	<i>0.07</i>	<i>0.69</i>	<i>10</i>

*Table F.1 Essential Facility Predicted Performance
Ranking by RVS Score*

<i>Structure No.</i>	<i>RVS Score (S_{L1})</i>	<i>BRC</i>	<i>IO</i>	<i>Rank</i>
<i>173.07</i>	<i>3.20</i>	<i>0.07</i>	<i>0.68</i>	<i>10</i>
<i>136.01</i>	<i>3.20</i>	<i>0.07</i>	<i>0.70</i>	<i>10</i>
<i>151</i>	<i>3.20</i>	<i>0.08</i>	<i>0.62</i>	<i>10</i>
<i>163.03</i>	<i>3.20</i>	<i>0.05</i>	<i>0.76</i>	<i>10</i>
<i>88.01</i>	<i>3.20</i>	<i>0.07</i>	<i>0.68</i>	<i>10</i>
<i>43</i>	<i>3.20</i>	<i>0.58</i>	<i>0.04</i>	<i>10</i>
<i>37</i>	<i>3.20</i>	<i>0.48</i>	<i>0.06</i>	<i>10</i>
<i>36</i>	<i>3.20</i>	<i>0.33</i>	<i>0.13</i>	<i>10</i>
<i>38</i>	<i>3.20</i>	<i>0.23</i>	<i>0.22</i>	<i>10</i>
<i>123.02</i>	<i>3.20</i>	<i>0.40</i>	<i>0.08</i>	<i>10</i>
<i>122</i>	<i>3.10</i>	<i>0.17</i>	<i>0.34</i>	<i>11</i>
<i>140.07</i>	<i>2.90</i>	<i>0.24</i>	<i>0.17</i>	<i>12</i>
<i>57.03</i>	<i>2.90</i>	<i>0.73</i>	<i>0.01</i>	<i>12</i>
<i>85.01</i>	<i>2.80</i>	<i>0.59</i>	<i>0.01</i>	<i>13</i>
<i>13</i>	<i>2.80</i>	<i>0.53</i>	<i>0.02</i>	<i>13</i>
<i>136.02</i>	<i>2.80</i>	<i>0.17</i>	<i>0.35</i>	<i>13</i>
<i>57.01</i>	<i>2.80</i>	<i>0.58</i>	<i>0.02</i>	<i>13</i>
<i>58</i>	<i>2.80</i>	<i>0.51</i>	<i>0.03</i>	<i>13</i>
<i>116.04</i>	<i>2.70</i>	<i>0.62</i>	<i>0.02</i>	<i>14</i>
<i>118.04</i>	<i>2.70</i>	<i>0.58</i>	<i>0.03</i>	<i>14</i>
<i>105.03</i>	<i>2.70</i>	<i>0.58</i>	<i>0.03</i>	<i>14</i>
<i>73.06</i>	<i>2.70</i>	<i>0.57</i>	<i>0.02</i>	<i>14</i>
<i>23</i>	<i>2.70</i>	<i>0.25</i>	<i>0.32</i>	<i>14</i>
<i>162.01</i>	<i>2.60</i>	<i>0.17</i>	<i>0.34</i>	<i>15</i>
<i>158</i>	<i>2.60</i>	<i>0.14</i>	<i>0.42</i>	<i>15</i>
<i>137</i>	<i>2.60</i>	<i>0.22</i>	<i>0.25</i>	<i>15</i>
<i>140.01</i>	<i>2.60</i>	<i>0.08</i>	<i>0.62</i>	<i>15</i>
<i>144.01</i>	<i>2.60</i>	<i>0.10</i>	<i>0.55</i>	<i>15</i>
<i>161.01</i>	<i>2.60</i>	<i>0.07</i>	<i>0.66</i>	<i>15</i>
<i>161.04</i>	<i>2.60</i>	<i>0.09</i>	<i>0.61</i>	<i>15</i>
<i>173.04</i>	<i>2.60</i>	<i>0.08</i>	<i>0.63</i>	<i>15</i>
<i>149.06</i>	<i>2.60</i>	<i>0.09</i>	<i>0.59</i>	<i>15</i>
<i>163.01</i>	<i>2.60</i>	<i>0.05</i>	<i>0.76</i>	<i>15</i>
<i>163.02</i>	<i>2.60</i>	<i>0.05</i>	<i>0.76</i>	<i>15</i>
<i>163.05</i>	<i>2.60</i>	<i>0.05</i>	<i>0.78</i>	<i>15</i>
<i>133</i>	<i>2.60</i>	<i>0.05</i>	<i>0.78</i>	<i>15</i>

*Table F.1 Essential Facility Predicted Performance
Ranking by RVS Score*

<i>Structure No.</i>	<i>RVS Score (S_{L1})</i>	<i>BRC</i>	<i>IO</i>	<i>Rank</i>
179	2.60	0.11	0.50	15
88.04	2.60	0.07	0.68	15
41	2.60	0.48	0.06	15
59	2.60	0.44	0.07	15
181.01	2.60	0.07	0.70	15
196.01	2.60	0.07	0.68	15
182	2.60	0.07	0.66	15
183.01	2.60	0.07	0.70	15
186	2.60	0.09	0.59	15
191.01	2.60	0.10	0.57	15
188.01	2.60	0.07	0.70	15
100	2.60	0.58	0.03	15
77.01	2.60	0.08	0.67	15
85.02	2.60	0.39	0.08	15
60	2.60	0.07	0.69	15
61	2.60	0.07	0.70	15
62	2.60	0.06	0.75	15
86	2.50	0.15	0.48	16
101	2.30	0.65	0.02	17
105.01	2.30	0.52	0.04	17
113.01	2.30	0.28	0.18	17
84	2.30	0.43	0.06	17
20	2.30	0.55	0.03	17
153.01	2.30	0.32	0.13	17
139.03	2.20	0.33	0.10	18
139.04	2.20	0.33	0.10	18
145.02	2.20	0.59	0.03	18
145.03	2.20	0.59	0.03	18
145.04	2.20	0.59	0.03	18
145.05	2.20	0.59	0.03	18
145.06	2.20	0.59	0.03	18
145.07	2.20	0.59	0.03	18
135.02	2.20	0.75	0.01	18
159.03	2.20	0.79	0.00	18
174.16	2.20	0.71	0.01	18
155.03	2.20	0.15	0.31	18

*Table F.1 Essential Facility Predicted Performance
Ranking by RVS Score*

<i>Structure No.</i>	<i>RVS Score (S_{LI})</i>	<i>BRC</i>	<i>IO</i>	<i>Rank</i>
155.04	2.20	0.15	0.31	18
155.05	2.20	0.15	0.31	18
149.09	2.20	0.75	0.01	18
149.1	2.20	0.75	0.01	18
149.11	2.20	0.75	0.01	18
149.12	2.20	0.75	0.01	18
67	2.20	0.56	0.04	18
16	2.10	0.69	0.00	19
15	2.10	0.68	0.01	19
32	2.10	0.54	0.02	19
33	2.10	0.63	0.01	19
34	2.10	0.67	0.01	19
14.02	2.10	0.62	0.01	19
2.01	2.10	0.75	0.00	19
2.02	2.10	0.75	0.00	19
19.02	2.00	0.85	0.00	20
19.03	2.00	0.85	0.00	20
25	2.00	0.83	0.00	20
26	2.00	0.67	0.00	20
162.06	2.00	0.08	0.72	20
56	2.00	0.09	0.74	20
119.02	1.90	0.41	0.08	21
120.02	1.90	0.45	0.06	21
102	1.90	0.21	0.28	21
104	1.90	0.55	0.03	21
78	1.90	0.54	0.03	21
28	1.90	0.79	0.01	21
178.03	1.80	0.64	0.03	22
17.03	1.80	0.81	0.00	22
82	1.80	0.14	0.58	22
162.04	1.80	0.30	0.15	22
139.02	1.70	0.29	0.16	23
188.02	1.70	0.67	0.03	23
188.03	1.70	0.67	0.03	23
74	1.70	0.17	0.13	23
159.02	1.60	0.12	0.60	24

*Table F.1 Essential Facility Predicted Performance
Ranking by RVS Score*

<i>Structure No.</i>	<i>RVS Score (S_{L1})</i>	<i>BRC</i>	<i>IO</i>	<i>Rank</i>
94	1.60	0.07	0.70	24
17.02	1.50	0.72	0.01	25
174.03	1.30	0.57	0.05	26
178.07	1.30	0.54	0.05	26
155.02	1.30	0.08	0.62	26
155.06	1.30	0.05	0.77	26
149.05	1.30	0.52	0.06	26
116.02	1.30	0.81	0.00	26
117.03	1.30	0.79	0.00	26
117.04	1.30	0.80	0.00	26
114.03	1.30	0.75	0.00	26
73.03	1.30	0.90	0.00	26
73.04	1.30	0.76	0.00	26
98	1.30	0.06	0.73	26
89	1.30	0.15	0.37	26
174.02	1.30	0.60	0.05	26
175.01	1.30	0.48	0.08	26
143.03	1.30	0.43	0.07	26
190.01	1.20	0.08	0.63	27
190.04	1.20	0.08	0.63	27
190.05	1.20	0.63	0.03	27
178.09	1.20	0.59	0.04	27
166.02	1.20	0.50	0.08	27
166.03	1.20	0.50	0.08	27
3.01	1.20	0.84	0.00	27
3.02	1.20	0.84	0.00	27
35.02	1.20	0.03	0.71	27
185	1.10	0.73	0.02	28
192.02	1.10	0.74	0.02	28
174.14	1.10	0.56	0.03	28
149.01	1.10	0.78	0.01	28
149.07	1.10	0.63	0.03	28
96	1.10	0.69	0.02	28
42	1.10	0.50	0.07	28
24	1.10	0.19	0.46	28
30	1.10	0.24	0.31	28

*Table F.1 Essential Facility Predicted Performance
Ranking by RVS Score*

<i>Structure No.</i>	<i>RVS Score (S_{L1})</i>	<i>BRC</i>	<i>IO</i>	<i>Rank</i>
168	1.10	0.57	0.05	28
177	1.10	0.57	0.05	28
171	1.10	0.70	0.03	28
174.12	1.10	0.51	0.07	28
174.13	1.10	0.51	0.07	28
178	1.10	0.66	0.04	28
178.04	1.10	0.58	0.05	28
175	1.10	0.56	0.07	28
175.04	1.10	0.42	0.12	28
143	1.10	0.51	0.10	28
172.01	1.10	0.38	0.15	28
172.03	1.10	0.26	0.26	28
172.05	1.10	0.30	0.22	28
149.02	1.10	0.69	0.03	28
180	1.10	0.29	0.23	28
113.03	1.10	0.88	0.00	28
109.07	0.90	0.86	0.00	29
73.05	0.90	0.57	0.02	29
79	0.90	0.55	0.03	29
81	0.90	0.31	0.13	29
49	0.90	0.40	0.07	29
55	0.90	0.57	0.02	29
117.02	0.90	0.85	0.00	29
118.03	0.90	0.85	0.00	29
109.01	0.90	0.92	0.00	29
17.01	0.90	0.72	0.01	29
95	0.90	0.29	0.11	29
83.02	0.90	0.53	0.02	29
71	0.90	0.23	0.16	29
69	0.90	0.55	0.02	29
1	0.90	0.83	0.00	29
174.06	0.80	0.60	0.05	30
113.02	0.80	0.88	0.00	30
159.01	0.70	0.67	0.02	31
161.02	0.70	0.61	0.04	31
116.03	0.70	0.81	0.00	31

*Table F.1 Essential Facility Predicted Performance
Ranking by RVS Score*

<i>Structure No.</i>	<i>RVS Score (S_{L1})</i>	<i>BRC</i>	<i>IO</i>	<i>Rank</i>
75	0.70	0.46	0.08	31
18	0.70	0.61	0.01	31
189	0.70	0.09	0.61	31
190.02	0.70	0.63	0.03	31
190.06	0.70	0.63	0.03	31
174.11	0.70	0.60	0.05	31
174.17	0.70	0.51	0.07	31
178.05	0.70	0.67	0.03	31
178.08	0.70	0.48	0.07	31
165	0.70	0.57	0.05	31
173	0.70	0.18	0.38	31
173.06	0.70	0.30	0.22	31
123.04	0.70	0.12	0.50	31
19.01	0.70	0.86	0.00	31
29	0.70	0.13	0.65	31
139.01	0.60	0.11	0.51	32
178.06	0.60	0.54	0.05	32
175.05	0.60	0.36	0.13	32
142.01	0.60	0.40	0.11	32
154	0.60	0.42	0.10	32
118.02	0.60	0.85	0.00	32
109.02	0.60	0.92	0.00	32
109.03	0.60	0.92	0.00	32
112	0.60	0.90	0.00	32
114.01	0.60	0.83	0.00	32
4	0.60	0.91	0.00	32
65	0.60	0.06	0.72	32
70	0.60	0.06	0.73	32
44	0.60	0.50	0.06	32
51	0.60	0.40	0.10	32
40	0.60	0.33	0.13	32
48	0.60	0.49	0.06	32
45	0.60	0.38	0.10	32
46	0.60	0.35	0.12	32
53	0.60	0.37	0.11	32
47	0.60	0.50	0.05	32

*Table F.1 Essential Facility Predicted Performance
Ranking by RVS Score*

<i>Structure No.</i>	<i>RVS Score (S_{L1})</i>	<i>BRC</i>	<i>IO</i>	<i>Rank</i>
54	0.60	0.28	0.17	32
192	0.60	0.62	0.04	32
169	0.60	0.58	0.07	32
174.09	0.60	0.51	0.07	32
175.03	0.60	0.42	0.12	32
175.07	0.60	0.41	0.13	32
175.08	0.60	0.42	0.12	32
175.09	0.60	0.42	0.12	32
142	0.60	0.59	0.06	32
172.02	0.60	0.38	0.15	32
91	0.60	0.38	0.13	32
83.01	0.60	0.66	0.02	32
193	0.60	0.72	0.02	32
145.01	0.50	0.44	0.09	33
192.01	0.50	0.65	0.03	33
175.06	0.50	0.45	0.09	33
141.03	0.50	0.56	0.03	33
173.03	0.50	0.63	0.03	33
173.05	0.50	0.60	0.04	33
119.01	0.50	0.81	0.01	33
119.03	0.50	0.41	0.08	33
131	0.50	0.13	0.46	33
103.02	0.50	0.86	0.00	33
105.02	0.50	0.85	0.00	33
109.05	0.50	0.87	0.00	33
110	0.50	0.93	0.00	33
111	0.50	0.88	0.00	33
115	0.50	0.88	0.00	33
73.02	0.50	0.57	0.02	33
99	0.50	0.07	0.69	33
5	0.50	0.88	0.00	33
80	0.50	0.26	0.19	33
68	0.50	0.08	0.66	33
63	0.50	0.09	0.62	33
50	0.50	0.60	0.04	33
21	0.50	0.81	0.00	33

*Table F.1 Essential Facility Predicted Performance
Ranking by RVS Score*

<i>Structure No.</i>	<i>RVS Score (S_{LI})</i>	<i>BRC</i>	<i>IO</i>	<i>Rank</i>
22	0.50	0.82	0.00	33
178.02	0.30	0.54	0.05	34
117.01	0.30	0.86	0.00	34
103.01	0.30	0.91	0.00	34
114.02	0.30	0.83	0.00	34
97	0.30	0.63	0.03	34
194	0.30	0.07	0.66	35
195	0.30	0.07	0.69	35
197.01	0.30	0.07	0.67	35
184	0.30	0.06	0.70	35
187.01	0.30	0.08	0.63	35
191	0.30	0.10	0.57	35
147.01	0.30	0.12	0.45	35
147.02	0.30	0.12	0.45	35
162.03	0.30	0.17	0.34	35
152	0.30	0.69	0.03	35
174.01	0.30	0.60	0.05	35
174.1	0.30	0.60	0.05	35
178.01	0.30	0.48	0.07	35
178.1	0.30	0.61	0.04	35
156	0.30	0.68	0.03	35
146	0.30	0.36	0.13	35
175.1	0.30	0.48	0.08	35
138	0.30	0.30	0.17	35
157.01	0.30	0.30	0.17	35
157.02	0.30	0.31	0.16	35
157.03	0.30	0.31	0.16	35
157.04	0.30	0.31	0.16	35
157.05	0.30	0.31	0.16	35
143.01	0.30	0.31	0.17	35
143.02	0.30	0.43	0.07	35
143.05	0.30	0.31	0.17	35
143.06	0.30	0.31	0.17	35
148	0.30	0.16	0.37	35
155.01	0.30	0.05	0.77	35
149.08	0.30	0.52	0.06	35

*Table F.1 Essential Facility Predicted Performance
Ranking by RVS Score*

<i>Structure No.</i>	<i>RVS Score (S_{L1})</i>	<i>BRC</i>	<i>IO</i>	<i>Rank</i>
<i>119.04</i>	<i>0.30</i>	<i>0.81</i>	<i>0.01</i>	<i>35</i>
<i>120.01</i>	<i>0.30</i>	<i>0.45</i>	<i>0.06</i>	<i>35</i>
<i>123.01</i>	<i>0.30</i>	<i>0.62</i>	<i>0.03</i>	<i>35</i>
<i>124</i>	<i>0.30</i>	<i>0.21</i>	<i>0.27</i>	<i>35</i>
<i>125</i>	<i>0.30</i>	<i>0.25</i>	<i>0.21</i>	<i>35</i>
<i>130</i>	<i>0.30</i>	<i>0.76</i>	<i>0.01</i>	<i>35</i>
<i>116.01</i>	<i>0.30</i>	<i>0.92</i>	<i>0.00</i>	<i>35</i>
<i>118.01</i>	<i>0.30</i>	<i>0.90</i>	<i>0.00</i>	<i>35</i>
<i>106</i>	<i>0.30</i>	<i>0.82</i>	<i>0.01</i>	<i>35</i>
<i>109.04</i>	<i>0.30</i>	<i>0.87</i>	<i>0.00</i>	<i>35</i>
<i>109.06</i>	<i>0.30</i>	<i>0.86</i>	<i>0.00</i>	<i>35</i>
<i>76</i>	<i>0.30</i>	<i>0.48</i>	<i>0.03</i>	<i>35</i>
<i>73.01</i>	<i>0.30</i>	<i>0.76</i>	<i>0.00</i>	<i>35</i>
<i>90</i>	<i>0.30</i>	<i>0.16</i>	<i>0.35</i>	<i>35</i>
<i>3.03</i>	<i>0.30</i>	<i>0.84</i>	<i>0.00</i>	<i>35</i>
<i>72</i>	<i>0.30</i>	<i>0.07</i>	<i>0.69</i>	<i>35</i>
<i>66</i>	<i>0.30</i>	<i>0.10</i>	<i>0.57</i>	<i>35</i>
<i>35.01</i>	<i>0.30</i>	<i>0.01</i>	<i>0.94</i>	<i>35</i>
<i>52</i>	<i>0.30</i>	<i>0.50</i>	<i>0.05</i>	<i>35</i>
<i>39</i>	<i>0.30</i>	<i>0.37</i>	<i>0.10</i>	<i>35</i>
<i>147</i>	<i>0.20</i>	<i>0.58</i>	<i>0.05</i>	<i>36</i>
<i>160</i>	<i>0.20</i>	<i>0.58</i>	<i>0.05</i>	<i>36</i>
<i>167</i>	<i>0.20</i>	<i>0.19</i>	<i>0.37</i>	<i>36</i>
<i>139</i>	<i>0.20</i>	<i>0.57</i>	<i>0.05</i>	<i>36</i>
<i>162</i>	<i>0.20</i>	<i>0.56</i>	<i>0.06</i>	<i>36</i>
<i>145</i>	<i>0.20</i>	<i>0.55</i>	<i>0.08</i>	<i>36</i>
<i>170</i>	<i>0.20</i>	<i>0.58</i>	<i>0.07</i>	<i>36</i>
<i>135</i>	<i>0.20</i>	<i>0.70</i>	<i>0.03</i>	<i>36</i>
<i>135.01</i>	<i>0.20</i>	<i>0.30</i>	<i>0.21</i>	<i>36</i>
<i>135.03</i>	<i>0.20</i>	<i>0.30</i>	<i>0.21</i>	<i>36</i>
<i>159</i>	<i>0.20</i>	<i>0.72</i>	<i>0.02</i>	<i>36</i>
<i>174</i>	<i>0.20</i>	<i>0.65</i>	<i>0.04</i>	<i>36</i>
<i>175.02</i>	<i>0.20</i>	<i>0.42</i>	<i>0.12</i>	<i>36</i>
<i>198</i>	<i>0.20</i>	<i>0.63</i>	<i>0.05</i>	<i>36</i>
<i>157</i>	<i>0.20</i>	<i>0.52</i>	<i>0.09</i>	<i>36</i>
<i>141</i>	<i>0.20</i>	<i>0.66</i>	<i>0.04</i>	<i>36</i>

*Table F.1 Essential Facility Predicted Performance
Ranking by RVS Score*

<i>Structure No.</i>	<i>RVS Score (S_{LI})</i>	<i>BRC</i>	<i>IO</i>	<i>Rank</i>
141.01	0.20	0.52	0.07	36
141.02	0.20	0.52	0.07	36
143.04	0.20	0.37	0.16	36
172	0.20	0.30	0.22	36
172.04	0.20	0.30	0.22	36
155	0.20	0.18	0.38	36
149.03	0.20	0.69	0.03	36
140	0.20	0.61	0.04	36
144	0.20	0.62	0.03	36
153	0.20	0.55	0.06	36
161	0.20	0.55	0.06	36
149	0.20	0.56	0.05	36
163	0.20	0.19	0.36	36
164	0.20	0.26	0.26	36
166	0.20	0.50	0.08	36
166.01	0.20	0.50	0.08	36
64	0.20	0.64	0.02	36

Table F.2 Essential Facility Predicted Performance Ranking by BRC

<i>Structure No.</i>	<i>RVS Score (S_{LI})</i>	<i>BRC</i>	<i>IO</i>	<i>Rank</i>
35.01	0.30	0.01	0.94	1
35.02	1.20	0.03	0.71	2
133	2.60	0.05	0.78	3
163.05	2.60	0.05	0.78	3
155.06	1.30	0.05	0.77	4
155.01	0.30	0.05	0.77	5
163.03	3.20	0.05	0.76	6
163.01	2.60	0.05	0.76	7
163.02	2.60	0.05	0.76	7
62	2.60	0.06	0.75	7
65	0.60	0.06	0.72	8
70	0.60	0.06	0.73	8
98	1.30	0.06	0.73	9
164.02	3.90	0.06	0.70	10
164.01	3.30	0.06	0.70	11
183.03	3.80	0.06	0.70	12

Table F.2 Essential Facility Predicted Performance Ranking by BRC

Structure No.	RVS Score (S_{LI})	BRC	IO	Rank
183.04	3.80	0.06	0.70	12
184	0.30	0.06	0.70	13
183.02	3.30	0.07	0.70	14
183.01	2.60	0.07	0.70	15
136.01	3.20	0.07	0.70	16
181.02	3.80	0.07	0.70	17
181.01	2.60	0.07	0.70	18
173.07	3.20	0.07	0.68	19
173.01	3.20	0.07	0.69	19
173.02	3.20	0.07	0.69	19
188.01	2.60	0.07	0.70	20
195	0.30	0.07	0.69	21
176	3.90	0.07	0.66	22
196.01	2.60	0.07	0.68	23
61	2.60	0.07	0.70	23
94	1.60	0.07	0.70	24
99	0.50	0.07	0.69	25
72	0.30	0.07	0.69	26
197.01	0.30	0.07	0.67	26
88.02	3.90	0.07	0.68	27
88.03	3.90	0.07	0.68	27
88.05	3.90	0.07	0.68	27
88.01	3.20	0.07	0.68	28
88.04	2.60	0.07	0.68	29
60	2.60	0.07	0.69	29
161.01	2.60	0.07	0.66	29
182	2.60	0.07	0.66	29
194	0.30	0.07	0.66	30
163.06	3.90	0.08	0.64	31
173.04	2.60	0.08	0.63	32
77.02	3.80	0.08	0.67	33
77.01	2.60	0.08	0.67	34
68	0.50	0.08	0.66	35
140.01	2.60	0.08	0.62	36
155.02	1.30	0.08	0.62	37
190.03	3.80	0.08	0.63	38
190.01	1.20	0.08	0.63	39
190.04	1.20	0.08	0.63	39

Table F.2 Essential Facility Predicted Performance Ranking by BRC

Structure No.	RVS Score (S_{LI})	BRC	IO	Rank
187.02	3.80	0.08	0.63	40
187.01	0.30	0.08	0.63	41
162.05	5.60	0.08	0.72	42
162.02	3.30	0.08	0.72	43
162.06	2.00	0.08	0.72	44
151	3.20	0.08	0.62	45
161.03	3.90	0.09	0.61	46
161.05	3.90	0.09	0.61	46
161.06	3.90	0.09	0.61	46
161.04	2.60	0.09	0.61	47
189	0.70	0.09	0.61	48
149.06	2.60	0.09	0.59	49
56	2.00	0.09	0.74	50
63	0.50	0.09	0.62	51
57.02	4.30	0.09	0.75	52
186	2.60	0.09	0.59	53
191	0.30	0.10	0.57	54
191.02	3.80	0.10	0.57	55
191.01	2.60	0.10	0.57	56
144.01	2.60	0.10	0.55	56
66	0.30	0.10	0.57	57
174.04	5.60	0.10	0.65	58
174.07	5.60	0.10	0.65	58
139.01	0.60	0.11	0.51	59
14.01	3.40	0.11	0.69	60
179	2.60	0.11	0.50	61
123.03	3.80	0.12	0.50	62
123.04	0.70	0.12	0.50	63
149.04	3.30	0.12	0.54	64
147.01	0.30	0.12	0.45	65
147.02	0.30	0.12	0.45	65
159.02	1.60	0.12	0.60	66
29	0.70	0.13	0.65	67
31	3.30	0.13	0.62	68
131	0.50	0.13	0.46	69
141.04	3.30	0.14	0.55	70
141.05	3.30	0.14	0.55	70
158	2.60	0.14	0.42	71

Table F.2 Essential Facility Predicted Performance Ranking by BRC

<i>Structure No.</i>	<i>RVS Score (S_{LI})</i>	<i>BRC</i>	<i>IO</i>	<i>Rank</i>
82	1.80	0.14	0.58	72
27.01	3.30	0.15	0.60	73
27.02	3.30	0.15	0.60	73
89	1.30	0.15	0.37	74
86	2.50	0.15	0.48	75
150	3.20	0.15	0.38	76
155.03	2.20	0.15	0.31	77
155.04	2.20	0.15	0.31	77
155.05	2.20	0.15	0.31	77
148	0.30	0.16	0.37	78
90	0.30	0.16	0.35	78
136.03	3.60	0.17	0.35	79
136.02	2.80	0.17	0.35	80
74	1.70	0.17	0.13	81
162.01	2.60	0.17	0.34	82
162.03	0.30	0.17	0.34	83
122	3.10	0.17	0.34	84
174.05	5.50	0.18	0.38	85
173	0.70	0.18	0.38	86
155	0.20	0.18	0.38	87
167	0.20	0.19	0.37	87
24	1.10	0.19	0.46	88
163	0.20	0.19	0.36	89
102	1.90	0.21	0.28	90
142.02	3.60	0.21	0.28	91
153.05	3.90	0.21	0.25	92
124	0.30	0.21	0.27	93
136.04	3.90	0.22	0.20	94
136.05	3.90	0.22	0.20	94
136.06	3.90	0.22	0.20	94
136.07	3.90	0.22	0.20	94
136.08	3.90	0.22	0.20	94
136.09	3.90	0.22	0.20	94
136.1	3.90	0.22	0.20	94
136.11	3.90	0.22	0.20	94
136.12	3.90	0.22	0.20	94
137	2.60	0.22	0.25	95
163.04	3.70	0.23	0.24	96

Table F.2 Essential Facility Predicted Performance Ranking by BRC

<i>Structure No.</i>	<i>RVS Score (S_{LI})</i>	<i>BRC</i>	<i>IO</i>	<i>Rank</i>
77.03	3.70	0.23	0.16	96
77.04	3.70	0.23	0.16	96
77.05	3.70	0.23	0.16	96
71	0.90	0.23	0.16	97
38	3.20	0.23	0.22	98
196.02	3.70	0.24	0.18	99
140.02	3.90	0.24	0.17	100
140.05	3.90	0.24	0.17	100
140.06	3.90	0.24	0.17	100
140.07	2.90	0.24	0.17	101
30	1.10	0.24	0.31	102
197.02	3.70	0.25	0.17	103
197.03	3.70	0.25	0.17	103
23	2.70	0.25	0.32	104
125	0.30	0.25	0.21	105
80	0.50	0.26	0.19	106
172.03	1.10	0.26	0.26	107
164	0.20	0.26	0.26	108
174.08	3.70	0.27	0.19	109
174.15	3.70	0.27	0.19	109
54	0.60	0.28	0.17	110
113.01	2.30	0.28	0.18	111
95	0.90	0.29	0.11	112
139.02	1.70	0.29	0.16	113
180	1.10	0.29	0.23	114
157.01	0.30	0.30	0.17	115
173.06	0.70	0.30	0.22	116
172	0.20	0.30	0.22	117
172.05	1.10	0.30	0.22	118
172.04	0.20	0.30	0.22	119
138	0.30	0.30	0.17	120
162.04	1.80	0.30	0.15	121
135.01	0.20	0.30	0.21	122
135.03	0.20	0.30	0.21	122
143.01	0.30	0.31	0.17	123
143.05	0.30	0.31	0.17	123
143.06	0.30	0.31	0.17	123
81	0.90	0.31	0.13	124

Table F.2 Essential Facility Predicted Performance Ranking by BRC

Structure No.	RVS Score (S_{LI})	BRC	IO	Rank
157.02	0.30	0.31	0.16	125
157.03	0.30	0.31	0.16	125
157.04	0.30	0.31	0.16	125
157.05	0.30	0.31	0.16	125
140.03	3.90	0.31	0.11	126
140.04	3.90	0.31	0.11	126
153.01	2.30	0.32	0.13	127
153.02	3.90	0.32	0.11	128
153.03	3.90	0.32	0.11	128
153.04	3.90	0.32	0.11	128
36	3.20	0.33	0.13	129
40	0.60	0.33	0.13	130
139.03	2.20	0.33	0.10	131
139.04	2.20	0.33	0.10	131
46	0.60	0.35	0.12	132
146	0.30	0.36	0.13	133
175.05	0.60	0.36	0.13	134
39	0.30	0.37	0.10	135
53	0.60	0.37	0.11	136
143.04	0.20	0.37	0.16	137
91	0.60	0.38	0.13	138
172.01	1.10	0.38	0.15	139
172.02	0.60	0.38	0.15	140
45	0.60	0.38	0.10	140
85.02	2.60	0.39	0.08	141
142.01	0.60	0.40	0.11	142
51	0.60	0.40	0.10	142
123.05	3.30	0.40	0.08	143
123.02	3.20	0.40	0.08	144
49	0.90	0.40	0.07	145
175.07	0.60	0.41	0.13	146
119.02	1.90	0.41	0.08	147
119.03	0.50	0.41	0.08	148
154	0.60	0.42	0.10	149
175.04	1.10	0.42	0.12	150
175.03	0.60	0.42	0.12	151
175.08	0.60	0.42	0.12	151
175.09	0.60	0.42	0.12	151

Table F.2 Essential Facility Predicted Performance Ranking by BRC

<i>Structure No.</i>	<i>RVS Score (S_{LI})</i>	<i>BRC</i>	<i>IO</i>	<i>Rank</i>
175.02	0.20	0.42	0.12	152
84	2.30	0.43	0.06	153
143.03	1.30	0.43	0.07	154
143.02	0.30	0.43	0.07	155
59	2.60	0.44	0.07	156
145.01	0.50	0.44	0.09	157
175.06	0.50	0.45	0.09	157
120.02	1.90	0.45	0.06	158
120.01	0.30	0.45	0.06	159
75	0.70	0.46	0.08	160
76	0.30	0.48	0.03	161
41	2.60	0.48	0.06	162
175.01	1.30	0.48	0.08	163
175.1	0.30	0.48	0.08	164
37	3.20	0.48	0.06	165
144.02	3.90	0.48	0.04	166
144.03	3.90	0.48	0.04	166
144.04	3.90	0.48	0.04	166
144.05	3.90	0.48	0.04	166
178.08	0.70	0.48	0.07	167
178.01	0.30	0.48	0.07	168
48	0.60	0.49	0.06	169
42	1.10	0.50	0.07	170
166.02	1.20	0.50	0.08	171
166.03	1.20	0.50	0.08	171
166.01	0.20	0.50	0.08	172
166	0.20	0.50	0.08	172
52	0.30	0.50	0.05	173
44	0.60	0.50	0.06	174
47	0.60	0.50	0.05	174
143	1.10	0.51	0.10	175
58	2.80	0.51	0.03	176
174.12	1.10	0.51	0.07	177
174.13	1.10	0.51	0.07	177
174.17	0.70	0.51	0.07	178
174.09	0.60	0.51	0.07	179
105.01	2.30	0.52	0.04	180
157	0.20	0.52	0.09	181

Table F.2 Essential Facility Predicted Performance Ranking by BRC

<i>Structure No.</i>	<i>RVS Score (S_{LI})</i>	<i>BRC</i>	<i>IO</i>	<i>Rank</i>
149.05	1.30	0.52	0.06	182
149.08	0.30	0.52	0.06	183
141.01	0.20	0.52	0.07	184
141.02	0.20	0.52	0.07	184
83.02	0.90	0.53	0.02	185
13	2.80	0.53	0.02	186
57.04	3.30	0.53	0.04	187
32	2.10	0.54	0.02	188
178.07	1.30	0.54	0.05	189
178.06	0.60	0.54	0.05	190
178.02	0.30	0.54	0.05	191
78	1.90	0.54	0.03	192
161	0.20	0.55	0.06	193
79	0.90	0.55	0.03	194
69	0.90	0.55	0.02	194
104	1.90	0.55	0.03	195
20	2.30	0.55	0.03	196
145	0.20	0.55	0.08	197
153	0.20	0.55	0.06	197
174.14	1.10	0.56	0.03	198
162	0.20	0.56	0.06	199
149	0.20	0.56	0.05	199
67	2.20	0.56	0.04	200
175	1.10	0.56	0.07	201
141.03	0.50	0.56	0.03	202
165	0.70	0.57	0.05	203
168	1.10	0.57	0.05	204
55	0.90	0.57	0.02	205
73.06	2.70	0.57	0.02	206
73.05	0.90	0.57	0.02	207
73.02	0.50	0.57	0.02	208
174.03	1.30	0.57	0.05	209
177	1.10	0.57	0.05	210
139	0.20	0.57	0.05	211
160	0.20	0.58	0.05	211
178.04	1.10	0.58	0.05	212
105.03	2.70	0.58	0.03	213
100	2.60	0.58	0.03	214

Table F.2 Essential Facility Predicted Performance Ranking by BRC

<i>Structure No.</i>	<i>RVS Score (S_{LI})</i>	<i>BRC</i>	<i>IO</i>	<i>Rank</i>
147	0.20	0.58	0.05	215
57.01	2.80	0.58	0.02	216
170	0.20	0.58	0.07	217
169	0.60	0.58	0.07	218
43	3.20	0.58	0.04	219
118.04	2.70	0.58	0.03	220
142	0.60	0.59	0.06	221
178.09	1.20	0.59	0.04	222
145.02	2.20	0.59	0.03	223
145.03	2.20	0.59	0.03	223
145.04	2.20	0.59	0.03	223
145.05	2.20	0.59	0.03	223
145.06	2.20	0.59	0.03	223
145.07	2.20	0.59	0.03	223
85.01	2.80	0.59	0.01	224
174.02	1.30	0.60	0.05	225
174.06	0.80	0.60	0.05	226
174.11	0.70	0.60	0.05	227
174.01	0.30	0.60	0.05	228
174.1	0.30	0.60	0.05	228
173.05	0.50	0.60	0.04	229
50	0.50	0.60	0.04	229
161.02	0.70	0.61	0.04	230
140	0.20	0.61	0.04	231
18	0.70	0.61	0.01	232
178.1	0.30	0.61	0.04	233
123.01	0.30	0.62	0.03	233
192	0.60	0.62	0.04	234
116.04	2.70	0.62	0.02	235
14.02	2.10	0.62	0.01	236
144	0.20	0.62	0.03	237
173.03	0.50	0.63	0.03	238
149.07	1.10	0.63	0.03	239
97	0.30	0.63	0.03	240
33	2.10	0.63	0.01	241
190.05	1.20	0.63	0.03	242
190.02	0.70	0.63	0.03	243
190.06	0.70	0.63	0.03	243

Table F.2 Essential Facility Predicted Performance Ranking by BRC

Structure No.	RVS Score (S_{LI})	BRC	IO	Rank
198	0.20	0.63	0.05	244
64	0.20	0.64	0.02	244
178.03	1.80	0.64	0.03	245
192.01	0.50	0.65	0.03	246
101	2.30	0.65	0.02	247
174	0.20	0.65	0.04	248
141	0.20	0.66	0.04	248
83.01	0.60	0.66	0.02	249
178	1.10	0.66	0.04	250
34	2.10	0.67	0.01	251
188.02	1.70	0.67	0.03	252
188.03	1.70	0.67	0.03	252
178.05	0.70	0.67	0.03	253
26	2.00	0.67	0.00	254
159.01	0.70	0.67	0.02	255
156	0.30	0.68	0.03	256
15	2.10	0.68	0.01	257
96	1.10	0.69	0.02	258
152	0.30	0.69	0.03	259
16	2.10	0.69	0.00	260
149.02	1.10	0.69	0.03	261
149.03	0.20	0.69	0.03	262
171	1.10	0.70	0.03	263
135	0.20	0.70	0.03	264
174.16	2.20	0.71	0.01	265
193	0.60	0.72	0.02	266
17.02	1.50	0.72	0.01	267
17.01	0.90	0.72	0.01	268
159	0.20	0.72	0.02	269
57.03	2.90	0.73	0.01	270
185	1.10	0.73	0.02	271
192.02	1.10	0.74	0.02	271
2.02	2.10	0.75	0.00	272
2.01	2.10	0.75	0.00	272
114.03	1.30	0.75	0.00	273
149.09	2.20	0.75	0.01	274
149.1	2.20	0.75	0.01	274
149.11	2.20	0.75	0.01	274

Table F.2 Essential Facility Predicted Performance Ranking by BRC

<i>Structure No.</i>	<i>RVS Score (S_{LI})</i>	<i>BRC</i>	<i>IO</i>	<i>Rank</i>
149.12	2.20	0.75	0.01	274
135.02	2.20	0.75	0.01	274
73.04	1.30	0.76	0.00	275
73.01	0.30	0.76	0.00	276
130	0.30	0.76	0.01	276
149.01	1.10	0.78	0.01	277
117.03	1.30	0.79	0.00	278
159.03	2.20	0.79	0.00	279
28	1.90	0.79	0.01	280
117.04	1.30	0.80	0.00	281
116.02	1.30	0.81	0.00	281
116.03	0.70	0.81	0.00	282
119.04	0.30	0.81	0.01	283
119.01	0.50	0.81	0.01	284
21	0.50	0.81	0.00	284
17.03	1.80	0.81	0.00	285
106	0.30	0.82	0.01	286
22	0.50	0.82	0.00	287
25	2.00	0.83	0.00	288
114.01	0.60	0.83	0.00	289
114.02	0.30	0.83	0.00	290
1	0.90	0.83	0.00	291
3.01	1.20	0.84	0.00	292
3.02	1.20	0.84	0.00	292
3.03	0.30	0.84	0.00	293
105.02	0.50	0.85	0.00	294
19.03	2.00	0.85	0.00	295
19.02	2.00	0.85	0.00	295
118.03	0.90	0.85	0.00	296
118.02	0.60	0.85	0.00	297
117.02	0.90	0.85	0.00	298
109.07	0.90	0.86	0.00	298
109.06	0.30	0.86	0.00	299
19.01	0.70	0.86	0.00	300
103.02	0.50	0.86	0.00	301
117.01	0.30	0.86	0.00	302
109.05	0.50	0.87	0.00	303
109.04	0.30	0.87	0.00	304

Table F.2 Essential Facility Predicted Performance Ranking by BRC

Structure No.	RVS Score (S_{LI})	BRC	IO	Rank
113.03	1.10	0.88	0.00	305
113.02	0.80	0.88	0.00	306
111	0.50	0.88	0.00	307
115	0.50	0.88	0.00	307
5	0.50	0.88	0.00	307
112	0.60	0.90	0.00	308
73.03	1.30	0.90	0.00	309
118.01	0.30	0.90	0.00	310
103.01	0.30	0.91	0.00	310
4	0.60	0.91	0.00	311
109.02	0.60	0.92	0.00	311
109.01	0.90	0.92	0.00	312
109.03	0.60	0.92	0.00	313
116.01	0.30	0.92	0.00	314
110	0.50	0.93	0.00	315

Table F.3 Bridge Predicted Performance Ranking by BRC

HazusID	Bridge Class	Latitude	Longitude	Damage Ratio	Rank
TN100032	HWB3	36.0589	-88.2945	0.000	1
TN100016	HWB28	36.3859	-88.4676	0.000	2
TN013842	HWB28	35.5644	-88.6185	0.001	3
TN003480	HWB23	35.5939	-88.6361	0.002	4
TN003479	HWB22	35.5923	-88.6375	0.004	5
TN013708	HWB28	35.5336	-88.9239	0.008	6
TN003456	HWB23	35.6566	-88.8748	0.009	7
TN013615	HWB28	35.4355	-88.8175	0.009	8
TN013670	HWB28	35.4794	-88.7611	0.010	9
TN013813	HWB28	35.6673	-89.0009	0.010	10
TN013782	HWB28	35.5926	-88.7523	0.011	11
TN003512	HWB28	35.5035	-88.7396	0.011	12
TN013658	HWB28	35.5858	-88.7410	0.012	13
TN013661	HWB28	35.5682	-88.6973	0.012	14
TN013651	HWB28	35.5907	-88.6682	0.012	15
TN013586	HWB28	35.5624	-88.7525	0.012	16
TN013665	HWB28	35.5156	-88.6926	0.012	17
TN013659	HWB28	35.5420	-88.6923	0.012	18
TN013743	HWB28	35.4803	-88.7141	0.013	19
TN013565	HWB28	35.5908	-88.6389	0.013	20

Table F.3 Bridge Predicted Performance Ranking by BRC

HazusID	Bridge Class	Latitude	Longitude	Damage Ratio	Rank
TN013812	HWB23	35.6695	-89.0006	0.013	21
TN013810	HWB23	35.6740	-88.9995	0.013	22
TN003469	HWB28	35.6104	-88.7279	0.013	23
TN013630	HWB28	35.4326	-88.8594	0.014	24
TN013618	HWB28	35.6815	-88.9779	0.014	25
TN013715	HWB28	35.6519	-88.6158	0.014	26
TN013800	HWB4	35.4606	-88.7697	0.014	27
TN013672	HWB28	35.5192	-88.8098	0.014	28
TN013660	HWB28	35.5522	-88.7050	0.015	29
TN013798	HWB4	35.4568	-88.8496	0.015	30
TN003435	HWB28	35.6092	-88.7827	0.015	31
TN003457	HWB19	35.6565	-88.8750	0.015	32
TN013585	HWB28	35.5702	-88.7671	0.015	33
TN003478	HWB23	35.5905	-88.6390	0.015	34
TN013554	HWB28	35.6428	-88.7267	0.015	35
TN013629	HWB28	35.4322	-88.8591	0.016	36
TN013555	HWB28	35.6347	-88.7528	0.016	37
TN013740	HWB4	35.6631	-88.6684	0.016	38
TN013739	HWB28	35.6633	-88.6692	0.016	39
TN013738	HWB28	35.6685	-88.6799	0.016	40
TN013576	HWB28	35.5147	-88.7052	0.016	41
TN013599	HWB3	35.6261	-88.6172	0.017	42
TN011004	HWB3	35.6261	-88.6111	0.017	43
TN013584	HWB28	35.5735	-88.7746	0.017	44
TN013621	HWB28	35.4573	-88.7554	0.017	45
TN013742	HWB28	35.4835	-88.7181	0.017	46
TN013617	HWB28	35.6771	-88.9796	0.017	47
TN013827	HWB28	35.6815	-88.9776	0.017	48
TN013663	HWB28	35.5387	-88.6516	0.017	49
TN013817	HWB4	35.6714	-88.6446	0.017	50
TN013816	HWB28	35.6579	-88.6318	0.018	51
TN013668	HWB28	35.5464	-88.8009	0.018	52
TN013572	HWB28	35.4461	-88.8573	0.018	53
TN013601	HWB28	35.6355	-88.6101	0.018	54
TN013667	HWB28	35.5644	-88.7737	0.018	55
TN003532	HWB28	35.5398	-88.7931	0.018	56
TN013771	HWB28	35.6058	-88.8072	0.018	57
TN013564	HWB23	35.5908	-88.6389	0.018	58
TN013657	HWB4	35.5503	-88.7189	0.018	59
TN013666	HWB28	35.5625	-88.7664	0.018	60
TN013723	HWB28	35.6103	-88.8052	0.018	61

Table F.3 Bridge Predicted Performance Ranking by BRC

HazusID	Bridge Class	Latitude	Longitude	Damage Ratio	Rank
TN013741	HWB4	35.6624	-88.6565	0.019	62
TN013675	HWB28	35.4459	-88.8735	0.019	63
TN013676	HWB28	35.4461	-88.8737	0.019	64
TN013553	HWB4	35.6506	-88.7164	0.020	65
TN013778	HWB28	35.5632	-88.7845	0.020	66
TN013662	HWB4	35.5675	-88.6747	0.020	67
TN013722	HWB28	35.6087	-88.8065	0.020	68
TN013566	HWB28	35.7550	-88.7403	0.020	69
TN013709	HWB7	35.5365	-88.9295	0.021	70
TN003470	HWB4	35.6108	-88.7232	0.021	71
TN013713	HWB4	35.5428	-88.8110	0.021	72
TN013774	HWB28	35.5804	-88.8266	0.021	73
TN013652	HWB4	35.5968	-88.6671	0.021	74
TN013714	HWB28	35.6469	-88.6113	0.021	75
TN013552	HWB28	35.6705	-88.6870	0.021	76
TN013811	HWB19	35.6719	-89.0001	0.021	77
TN013655	HWB4	35.6263	-88.6941	0.021	78
TN013770	HWB4	35.6039	-88.8079	0.022	79
TN013784	HWB28	35.5842	-88.7072	0.022	80
TN003548	HWB28	35.7823	-88.7006	0.022	81
TN003472	HWB4	35.6136	-88.6975	0.022	82
TN003515	HWB4	35.5493	-88.8060	0.022	83
TN013818	HWB4	35.6861	-88.6468	0.023	84
TN013580	HWB23	35.5803	-88.8095	0.023	85
TN013717	HWB4	35.5749	-88.8131	0.023	86
TN013656	HWB28	35.6361	-88.7388	0.023	87
TN003471	HWB22	35.6136	-88.7014	0.023	88
TN003511	HWB7	35.4918	-88.7223	0.024	89
TN013559	HWB4	35.5584	-89.0706	0.024	90
TN013745	HWB28	35.6255	-88.7691	0.024	91
TN013781	HWB28	35.5312	-88.6838	0.024	92
TN003510	HWB28	35.4855	-88.7130	0.024	93
TN013783	HWB23	35.6557	-88.6318	0.024	94
TN013724	HWB28	35.6095	-88.8053	0.025	95
TN013671	HWB28	35.5024	-88.8159	0.025	96
TN013664	HWB28	35.5075	-88.6743	0.026	97
TN013587	HWB22	35.5624	-88.7525	0.026	98
TN003513	HWB28	35.5144	-88.7556	0.026	99
TN013803	HWB28	35.5879	-89.0029	0.026	100
TN013721	HWB28	35.6139	-88.8273	0.026	101
TN013712	HWB4	35.5610	-88.8218	0.026	102

Table F.3 Bridge Predicted Performance Ranking by BRC

HazusID	Bridge Class	Latitude	Longitude	Damage Ratio	Rank
TN013589	HWB28	35.6155	-88.8595	0.026	103
TN013797	HWB23	35.6056	-88.8301	0.027	104
TN013622	HWB4	35.7699	-88.6110	0.027	105
TN013669	HWB4	35.5134	-88.7604	0.027	106
TN013583	HWB28	35.5753	-88.7993	0.027	107
TN013640	HWB28	35.5286	-88.6456	0.027	108
TN013734	HWB28	35.6289	-89.0082	0.027	109
TN003533	HWB28	35.4903	-88.8450	0.027	110
TN013819	HWB3	35.6146	-88.8243	0.027	111
TN003509	HWB28	35.6187	-88.7948	0.028	112
TN013780	HWB22	35.5394	-88.7380	0.028	113
TN013605	HWB28	35.6256	-88.7692	0.028	114
TN013787	HWB23	35.7397	-88.7940	0.028	115
TN013595	HWB28	35.5948	-88.8542	0.028	116
TN013807	HWB23	35.6177	-88.8516	0.028	117
TN013680	HWB28	35.4559	-88.8762	0.029	118
TN003474	HWB4	35.5715	-88.6422	0.029	119
TN003475	HWB4	35.5714	-88.6404	0.029	120
TN003523	HWB7	35.5985	-88.8138	0.029	121
TN003524	HWB7	35.5985	-88.8140	0.029	122
TN013567	HWB28	35.7568	-88.7398	0.029	123
TN013645	HWB28	35.7698	-88.6919	0.030	124
TN013802	HWB28	35.5646	-88.9997	0.030	125
TN013796	HWB23	35.6030	-88.8311	0.030	126
TN003507	HWB22	35.6124	-88.8135	0.030	127
TN003522	HWB19	35.5938	-88.8142	0.030	128
TN013732	HWB3	35.6320	-88.8301	0.031	129
TN013623	HWB28	35.7815	-88.6142	0.031	130
TN013705	HWB28	35.5659	-89.0307	0.031	131
TN013725	HWB28	35.6209	-88.7946	0.031	132
TN003514	HWB23	35.5501	-88.8068	0.031	133
TN013648	HWB28	35.7265	-88.6976	0.031	134
TN013726	HWB28	35.6176	-88.7957	0.031	135
TN013793	HWB19	35.5971	-88.8330	0.032	136
TN013642	HWB4	35.7688	-88.7003	0.033	137
TN013794	HWB19	35.5989	-88.8325	0.033	138
TN003496	HWB7	35.6186	-88.8629	0.034	139
TN003497	HWB7	35.6185	-88.8629	0.034	140
TN013644	HWB28	35.7692	-88.6927	0.034	141
TN013799	HWB28	35.4646	-88.7929	0.034	142
TN003500	HWB10	35.6186	-88.8531	0.034	143

Table F.3 Bridge Predicted Performance Ranking by BRC

HazusID	Bridge Class	Latitude	Longitude	Damage Ratio	Rank
TN003501	HWB10	35.6184	-88.8529	0.034	144
TN013610	HWB4	35.7239	-88.7697	0.034	145
TN013808	HWB28	35.6164	-88.8542	0.034	146
TN013647	HWB28	35.7287	-88.7038	0.034	147
TN013791	HWB19	35.5953	-88.8336	0.035	148
TN003498	HWB7	35.6186	-88.8586	0.035	149
TN003499	HWB7	35.6185	-88.8586	0.035	150
TN013643	HWB23	35.7689	-88.7019	0.036	151
TN013735	HWB28	35.6287	-89.0062	0.036	152
TN003437	HWB3	35.6124	-88.8250	0.036	153
TN013815	HWB28	35.6635	-89.0017	0.036	154
TN013788	HWB28	35.7425	-88.7927	0.036	155
TN003502	HWB7	35.6176	-88.8433	0.036	156
TN003432	HWB28	35.5375	-88.9913	0.036	157
TN013582	HWB23	35.5753	-88.7993	0.036	158
TN013766	HWB3	35.6342	-88.8259	0.036	159
TN013611	HWB4	35.7240	-88.7468	0.037	160
TN013792	HWB19	35.5962	-88.8333	0.037	161
TN013543	HWB28	35.6381	-89.0567	0.038	162
TN003521	HWB15	35.5937	-88.8140	0.038	163
TN013831	HWB16	35.6673	-88.8941	0.038	164
TN013632	HWB28	35.7634	-88.8571	0.038	165
TN013571	HWB4	35.5649	-88.8456	0.038	166
TN013570	HWB4	35.5634	-88.8466	0.038	167
TN013596	HWB28	35.6297	-88.8910	0.039	168
TN003530	HWB23	35.7440	-88.8463	0.039	169
TN013752	HWB22	35.6023	-89.0406	0.039	170
TN013687	HWB4	35.4767	-88.9924	0.040	171
TN013832	HWB16	35.6670	-88.8935	0.040	172
TN013786	HWB28	35.7043	-88.8035	0.040	173
TN013545	HWB4	35.6475	-88.9961	0.040	174
TN013560	HWB4	35.5583	-89.0670	0.041	175
TN003508	HWB28	35.6104	-88.8051	0.041	176
TN017976	HWB28	35.3941	-89.6421	0.041	177
TN003536	HWB4	35.6529	-88.8698	0.041	178
TN013683	HWB28	35.4422	-88.9681	0.041	179
TN013727	HWB28	35.6170	-88.8217	0.041	180
TN003433	HWB28	35.5598	-88.9518	0.041	181
TN017977	HWB23	35.3942	-89.6417	0.042	182
TN013650	HWB28	35.7440	-88.9304	0.042	183
TN018072	HWB28	35.4124	-89.5724	0.042	184

Table F.3 Bridge Predicted Performance Ranking by BRC

HazusID	Bridge Class	Latitude	Longitude	Damage Ratio	Rank
TN013620	HWB28	35.6857	-88.9345	0.043	185
TN003546	HWB28	35.4835	-89.0450	0.043	186
TN013711	HWB28	35.5286	-88.9694	0.043	187
TN013704	HWB4	35.5733	-89.0315	0.044	188
TN013820	HWB28	35.6314	-88.7896	0.045	189
TN013697	HWB4	35.5116	-89.0442	0.045	190
TN013728	HWB4	35.7825	-88.6486	0.045	191
TN013753	HWB22	35.6224	-88.9827	0.045	192
TN013698	HWB28	35.4406	-89.0593	0.046	193
TN018065	HWB28	35.3958	-89.6954	0.046	194
TN013641	HWB4	35.7622	-88.7117	0.047	195
TN013574	HWB4	35.5014	-89.0424	0.047	196
TN013674	HWB28	35.4734	-88.8315	0.048	197
TN013634	HWB28	35.7856	-88.8629	0.048	198
TN013609	HWB28	35.7200	-88.8138	0.048	199
TN017954	HWB28	35.4058	-89.5279	0.048	200
TN003434	HWB28	35.6121	-88.8023	0.049	201
TN013750	HWB28	35.4709	-88.9188	0.049	202
TN013700	HWB28	35.5823	-89.0162	0.049	203
TN013690	HWB28	35.4485	-89.0558	0.050	204
TN003473	HWB15	35.6133	-88.6543	0.050	205
TN013688	HWB4	35.4566	-88.9936	0.050	206
TN013681	HWB28	35.4482	-88.8922	0.050	207
TN007709	HWB28	35.7404	-88.9415	0.050	208
TN013821	HWB28	35.5154	-88.7570	0.051	209
TN013654	HWB28	35.7018	-88.9764	0.051	210
TN013729	HWB28	35.6928	-88.8082	0.051	211
TN013619	HWB28	35.6974	-88.9752	0.051	212
TN013544	HWB4	35.6546	-89.0396	0.051	213
TN013699	HWB28	35.4425	-89.0526	0.051	214
TN013749	HWB28	35.7241	-88.8184	0.052	215
TN013696	HWB4	35.5116	-89.0386	0.052	216
TN013677	HWB4	35.5285	-88.8858	0.052	217
TN013789	HWB28	35.7583	-88.7897	0.053	218
TN013694	HWB23	35.4433	-89.0736	0.053	219
TN013606	HWB28	35.7190	-88.9013	0.053	220
TN003468	HWB23	35.6486	-88.7908	0.053	221
TN013693	HWB3	35.4385	-89.0366	0.053	222
TN005193	HWB23	35.4501	-89.5626	0.054	223
TN003526	HWB28	35.6365	-88.8218	0.054	224
TN013765	HWB3	35.6352	-88.8234	0.054	225

Table F.3 Bridge Predicted Performance Ranking by BRC

HazusID	Bridge Class	Latitude	Longitude	Damage Ratio	Rank
TN017955	HWB28	35.4066	-89.5283	0.054	226
TN013685	HWB4	35.4642	-88.9678	0.054	227
TN018070	HWB28	35.4086	-89.5426	0.054	228
TN001435	HWB4	35.4073	-89.5428	0.054	229
TN013563	HWB23	35.7189	-88.7660	0.054	230
TN005168	HWB23	35.6225	-89.6203	0.054	231
TN013625	HWB28	35.7023	-88.8761	0.054	232
TN013706	HWB28	35.5883	-88.9651	0.054	233
TN013635	HWB28	35.7889	-88.8306	0.055	234
TN003551	HWB28	35.5203	-88.9973	0.055	235
TN013805	HWB28	35.7411	-88.8769	0.055	236
TN003484	HWB28	35.5186	-88.9965	0.055	237
TN003534	HWB23	35.6910	-88.9973	0.055	238
TN003535	HWB11	35.6912	-88.9972	0.055	239
TN013653	HWB4	35.6933	-88.9949	0.055	240
TN003542	HWB28	35.4474	-89.0220	0.056	241
TN013626	HWB28	35.7084	-88.9070	0.056	242
TN013578	HWB28	35.5492	-88.8688	0.056	243
TN003529	HWB19	35.7442	-88.8467	0.056	244
TN003544	HWB28	35.4810	-89.0434	0.057	245
TN013577	HWB3	35.5314	-88.8474	0.057	246
TN005183	HWB15	35.5686	-89.4831	0.057	247
TN013594	HWB4	35.6132	-88.8636	0.057	248
TN013673	HWB28	35.4731	-88.8324	0.058	249
TN013624	HWB28	35.6666	-88.8897	0.058	250
TN013757	HWB22	35.6766	-88.7937	0.059	251
TN013838	HWB28	35.4458	-89.0220	0.059	252
TN005191	HWB28	35.4958	-89.5988	0.060	253
TN003450	HWB7	35.6474	-88.8995	0.060	254
TN003451	HWB7	35.6476	-88.8996	0.060	255
TN013775	HWB4	35.5198	-88.9128	0.060	256
TN013637	HWB28	35.7908	-88.8054	0.060	257
TN003489	HWB7	35.6136	-89.0039	0.060	258
TN013633	HWB28	35.7847	-88.8514	0.060	259
TN013678	HWB28	35.4962	-88.9228	0.061	260
TN003431	HWB4	35.5038	-88.9949	0.061	261
TN013833	HWB28	35.6717	-88.9498	0.061	262
TN003547	HWB28	35.4852	-89.0528	0.061	263
TN013691	HWB4	35.4431	-89.0422	0.062	264
TN013692	HWB4	35.4425	-89.0404	0.062	265
TN003491	HWB28	35.6119	-88.9369	0.062	266

Table F.3 Bridge Predicted Performance Ranking by BRC

HazusID	Bridge Class	Latitude	Longitude	Damage Ratio	Rank
TN013736	HWB19	35.6804	-88.9437	0.062	267
TN018058	HWB28	35.4241	-89.5698	0.063	268
TN005151	HWB7	35.4151	-89.5248	0.063	269
TN013636	HWB7	35.7918	-88.8840	0.063	270
TN013768	HWB28	35.6894	-88.8466	0.064	271
TN013639	HWB28	35.6873	-88.7474	0.064	272
TN013684	HWB4	35.4488	-88.9714	0.064	273
TN003459	HWB23	35.6706	-88.8297	0.064	274
TN018071	HWB28	35.4114	-89.5712	0.064	275
TN018073	HWB28	35.4131	-89.5732	0.064	276
TN003537	HWB28	35.6449	-88.8567	0.064	277
TN010956	HWB28	35.6634	-88.8446	0.064	278
TN013840	HWB16	35.6696	-88.8545	0.064	279
TN013707	HWB28	35.5675	-88.8791	0.064	280
TN013689	HWB28	35.4516	-89.0035	0.065	281
TN013790	HWB7	35.7583	-88.7897	0.065	282
TN018057	HWB4	35.4240	-89.5704	0.066	283
TN013702	HWB4	35.5743	-88.9503	0.066	284
TN005143	HWB4	35.4950	-89.5057	0.066	285
TN003541	HWB28	35.4474	-89.0220	0.066	286
TN017956	HWB4	35.4079	-89.5293	0.066	287
TN013551	HWB28	35.6925	-88.6751	0.066	288
TN013823	HWB28	35.7886	-88.8695	0.066	289
TN003482	HWB3	35.4953	-89.0015	0.066	290
TN013548	HWB22	35.5119	-88.9198	0.067	291
TN013550	HWB28	35.5846	-88.8605	0.068	292
TN013809	HWB28	35.5906	-88.9609	0.068	293
TN013598	HWB4	35.6306	-88.9338	0.068	294
TN013607	HWB28	35.7184	-88.8766	0.069	295
TN013575	HWB28	35.5081	-88.9736	0.069	296
TN017997	HWB3	35.4263	-89.6240	0.069	297
TN013841	HWB16	35.6695	-88.8560	0.069	298
TN013748	HWB28	35.7243	-88.8283	0.069	299
TN003015	HWB23	35.9295	-89.3899	0.069	300
TN013839	HWB16	35.6695	-88.8551	0.069	301
TN013731	HWB3	35.6849	-88.8409	0.069	302
TN005175	HWB28	35.4790	-89.6022	0.069	303
TN013597	HWB22	35.6326	-88.8928	0.070	304
TN013593	HWB3	35.6066	-88.8995	0.070	305
TN005150	HWB28	35.4140	-89.5322	0.070	306
TN018077	HWB28	35.5067	-89.7899	0.070	307

Table F.3 Bridge Predicted Performance Ranking by BRC

HazusID	Bridge Class	Latitude	Longitude	Damage Ratio	Rank
TN013767	HWB28	35.6893	-88.8516	0.070	308
TN003483	HWB23	35.5000	-88.9951	0.071	309
TN013710	HWB4	35.5733	-88.9028	0.071	310
TN013733	HWB28	35.6358	-88.8232	0.071	311
TN005153	HWB28	35.4261	-89.5057	0.071	312
TN013836	HWB28	35.6623	-88.8801	0.071	313
TN003531	HWB28	35.7869	-88.8677	0.072	314
TN003460	HWB22	35.6706	-88.8298	0.072	315
TN013737	HWB28	35.7909	-88.7807	0.072	316
TN013546	HWB28	35.6539	-88.7855	0.072	317
TN003467	HWB10	35.7183	-88.6341	0.073	318
TN013558	HWB28	35.7134	-88.9087	0.073	319
TN013695	HWB28	35.4877	-89.0678	0.073	320
TN018066	HWB3	35.4914	-89.7252	0.073	321
TN013835	HWB28	35.6677	-88.8890	0.073	322
TN013686	HWB4	35.4402	-88.9706	0.073	323
TN001284	HWB1	36.1116	-89.6112	0.073	324
TN005161	HWB3	35.4969	-89.7222	0.074	325
TN017995	HWB3	35.4753	-89.5370	0.074	326
TN003494	HWB7	35.6152	-88.8969	0.074	327
TN003495	HWB7	35.6150	-88.8969	0.074	328
TN013561	HWB4	35.7778	-88.7538	0.074	329
TN018055	HWB4	35.4478	-89.6239	0.075	330
TN013824	HWB23	35.7338	-88.8500	0.076	331
TN013825	HWB23	35.7335	-88.8501	0.076	332
TN013837	HWB28	35.7718	-88.8273	0.076	333
TN013759	HWB19	35.6788	-88.7804	0.076	334
TN001330	HWB28	36.0488	-89.5572	0.076	335
TN018011	HWB28	35.4244	-89.7363	0.076	336
TN003545	HWB19	35.4825	-89.0440	0.076	337
TN003436	HWB15	35.6124	-88.8230	0.076	338
TN003488	HWB7	35.6067	-89.0245	0.076	339
TN005160	HWB28	35.4912	-89.7251	0.076	340
TN018016	HWB16	35.4727	-89.7409	0.077	341
TN003543	HWB23	35.4702	-89.0265	0.077	342
TN017958	HWB28	35.4804	-89.7170	0.077	343
TN018019	HWB3	35.4106	-89.8039	0.077	344
TN018008	HWB28	35.4860	-89.7173	0.077	345
TN018017	HWB28	35.4317	-89.7491	0.077	346
TN013716	HWB4	35.6207	-88.9082	0.077	347
TN003038	HWB22	35.7732	-89.7111	0.078	348

Table F.3 Bridge Predicted Performance Ranking by BRC

HazusID	Bridge Class	Latitude	Longitude	Damage Ratio	Rank
TN017993	HWB28	35.5493	-89.5070	0.078	349
TN005162	HWB23	35.4969	-89.7224	0.079	350
TN003442	HWB4	35.7164	-88.8533	0.079	351
TN005146	HWB28	35.4374	-89.7449	0.079	352
TN018003	HWB28	35.5098	-89.6376	0.080	353
TN017994	HWB28	35.5172	-89.5048	0.080	354
TN001348	HWB19	35.9928	-89.3421	0.080	355
TN013747	HWB28	35.7243	-88.8334	0.080	356
TN003527	HWB23	35.7401	-88.8486	0.081	357
TN018090	HWB23	35.5820	-89.6564	0.081	358
TN005154	HWB3	35.4109	-89.8323	0.081	359
TN013746	HWB28	35.7246	-88.8353	0.081	360
TN018059	HWB4	35.4235	-89.5980	0.082	361
TN012536	HWB16	35.9189	-89.6082	0.082	362
TN005192	HWB28	35.4921	-89.5959	0.082	363
TN013843	HWB28	35.6405	-88.9169	0.082	364
TN003486	HWB28	35.5208	-88.9974	0.082	365
TN018031	HWB4	35.4468	-89.9625	0.082	366
TN017989	HWB28	35.5751	-89.6015	0.083	367
TN003490	HWB7	35.6121	-88.9412	0.083	368
TN005147	HWB28	35.4345	-89.7297	0.083	369
TN018022	HWB4	35.4058	-89.8278	0.083	370
TN018021	HWB19	35.3981	-89.8449	0.083	371
TN012535	HWB15	35.8181	-89.3581	0.083	372
TN013613	HWB28	35.6694	-88.7949	0.084	373
TN017974	HWB28	35.5137	-89.8636	0.084	374
TN003485	HWB28	35.5189	-88.9989	0.084	375
TN018002	HWB28	35.4986	-89.6243	0.084	376
TN018047	HWB3	35.4849	-89.7511	0.084	377
TN017961	HWB28	35.5781	-89.5596	0.084	378
TN017998	HWB3	35.4316	-89.6240	0.084	379
TN017999	HWB28	35.4407	-89.5897	0.084	380
TN005163	HWB3	35.5105	-89.7096	0.084	381
TN018029	HWB28	35.4459	-89.8521	0.084	382
TN100042	HWB28	35.4253	-89.8009	0.084	383
TN013804	HWB23	35.7418	-88.9021	0.084	384
TN013763	HWB10	35.7129	-88.6498	0.085	385
TN018048	HWB4	35.4978	-89.7320	0.085	386
TN018049	HWB4	35.4984	-89.7317	0.085	387
TN018050	HWB3	35.5009	-89.7315	0.085	388
TN018026	HWB28	35.4249	-89.8451	0.085	389

Table F.3 Bridge Predicted Performance Ranking by BRC

HazusID	Bridge Class	Latitude	Longitude	Damage Ratio	Rank
TN003528	HWB19	35.7399	-88.8482	0.085	390
TN018020	HWB3	35.4131	-89.8153	0.086	391
TN003487	HWB7	35.6050	-89.0261	0.086	392
TN017944	HWB4	35.5084	-89.9414	0.086	393
TN012497	HWB23	35.8618	-89.3501	0.086	394
TN017951	HWB28	35.4914	-89.6839	0.087	395
TN017952	HWB4	35.5031	-89.6774	0.087	396
TN018025	HWB28	35.4921	-89.7572	0.087	397
TN013830	HWB23	35.6654	-88.8816	0.087	398
TN017988	HWB28	35.6050	-89.5821	0.087	399
TN018040	HWB4	35.5014	-89.8068	0.087	400
TN013828	HWB28	35.6763	-88.9481	0.087	401
TN018069	HWB4	35.4495	-89.8465	0.088	402
TN018010	HWB3	35.4445	-89.6748	0.088	403
TN003461	HWB22	35.6760	-88.7985	0.088	404
TN003462	HWB22	35.6762	-88.7986	0.088	405
TN013612	HWB28	35.6674	-88.8043	0.088	406
TN012386	HWB22	35.7423	-89.6248	0.088	407
TN018000	HWB28	35.4348	-89.6796	0.088	408
TN003034	HWB28	35.7648	-89.7673	0.088	409
TN018023	HWB4	35.4069	-89.8152	0.089	410
TN005148	HWB28	35.4797	-89.6500	0.089	411
TN017950	HWB28	35.5145	-89.6761	0.089	412
TN018046	HWB28	35.5250	-89.7770	0.089	413
TN018056	HWB28	35.4506	-89.6376	0.089	414
TN013638	HWB4	35.7918	-88.7515	0.089	415
TN013795	HWB15	35.6009	-88.8319	0.089	416
TN018024	HWB28	35.4167	-89.8379	0.090	417
TN018006	HWB3	35.4907	-89.6953	0.090	418
TN018009	HWB4	35.5083	-89.6878	0.090	419
TN013762	HWB10	35.7088	-88.6632	0.090	420
TN018086	HWB28	35.5644	-89.6376	0.090	421
TN018001	HWB3	35.4621	-89.6349	0.090	422
TN018015	HWB28	35.4920	-89.7577	0.090	423
TN012525	HWB22	35.9197	-89.5731	0.090	424
TN013806	HWB22	35.7411	-88.8760	0.091	425
TN001312	HWB16	36.0294	-89.3863	0.091	426
TN005170	HWB3	35.4616	-89.7661	0.091	427
TN017959	HWB28	35.4796	-89.7159	0.092	428
TN005177	HWB28	35.5643	-89.6349	0.092	429
TN005152	HWB7	35.4195	-89.5204	0.092	430

Table F.3 Bridge Predicted Performance Ranking by BRC

HazusID	Bridge Class	Latitude	Longitude	Damage Ratio	Rank
TN013547	HWB28	35.6703	-88.7810	0.093	431
TN005155	HWB22	35.4110	-89.8325	0.093	432
TN018005	HWB28	35.5049	-89.6919	0.093	433
TN012498	HWB23	35.8620	-89.3410	0.093	434
TN003037	HWB22	35.7674	-89.7439	0.093	435
TN013751	HWB28	35.4634	-88.8816	0.094	436
TN018007	HWB23	35.4906	-89.6952	0.094	437
TN013834	HWB28	35.6681	-88.9145	0.094	438
TN017991	HWB28	35.5723	-89.6349	0.094	439
TN003465	HWB22	35.6809	-88.7429	0.094	440
TN003466	HWB22	35.6809	-88.7427	0.094	441
TN100041	HWB28	35.4859	-89.7237	0.095	442
TN100043	HWB28	35.4838	-89.7253	0.095	443
TN003019	HWB28	35.6201	-89.4810	0.095	444
TN003071	HWB22	35.9196	-89.5728	0.095	445
TN017943	HWB3	35.3979	-89.6962	0.096	446
TN013776	HWB28	35.5446	-88.8867	0.097	447
TN005165	HWB28	35.5121	-89.7081	0.097	448
TN013649	HWB4	35.7083	-88.7064	0.097	449
TN013608	HWB4	35.7198	-88.8153	0.097	450
TN013822	HWB16	35.7610	-88.8460	0.097	451
TN005179	HWB28	35.5544	-89.5388	0.097	452
TN013602	HWB28	35.7633	-88.8897	0.098	453
TN013603	HWB4	35.7633	-88.8893	0.098	454
TN013562	HWB28	35.6607	-88.7892	0.098	455
TN003458	HWB16	35.6636	-88.8541	0.098	456
TN003041	HWB22	35.7746	-89.6965	0.098	457
TN003040	HWB28	35.7739	-89.7000	0.098	458
TN005149	HWB3	35.4048	-89.5456	0.098	459
TN018085	HWB28	35.4349	-89.6731	0.099	460
TN003060	HWB28	35.6907	-89.7017	0.099	461
TN001307	HWB19	35.9481	-89.4082	0.099	462
TN001308	HWB19	35.9481	-89.4082	0.099	463
TN013764	HWB23	35.6411	-88.9205	0.099	464
TN018062	HWB28	35.4569	-89.7971	0.100	465
TN017970	HWB10	35.4325	-89.6544	0.100	466
TN003035	HWB22	35.7650	-89.7617	0.100	467
TN017948	HWB3	35.4134	-89.9246	0.100	468
TN017945	HWB28	35.4008	-89.8691	0.100	469
TN017947	HWB4	35.4041	-89.9063	0.100	470
TN013682	HWB28	35.4436	-88.9013	0.100	471

Table F.3 Bridge Predicted Performance Ranking by BRC

HazusID	Bridge Class	Latitude	Longitude	Damage Ratio	Rank
TN013761	HWB10	35.6946	-88.7004	0.101	472
TN012349	HWB28	35.6754	-89.5707	0.101	473
TN017957	HWB28	35.4816	-89.7196	0.101	474
TN018013	HWB28	35.4855	-89.7170	0.101	475
TN100037	HWB28	35.7266	-89.5424	0.102	476
TN013760	HWB10	35.6836	-88.7133	0.102	477
TN018082	HWB3	35.6029	-89.7426	0.102	478
TN018068	HWB28	35.5940	-89.7112	0.102	479
TN018067	HWB28	35.5942	-89.7124	0.102	480
TN018004	HWB28	35.5207	-89.6936	0.102	481
TN018079	HWB28	35.5338	-89.7163	0.102	482
TN017992	HWB3	35.5857	-89.5375	0.102	483
TN018034	HWB28	35.4997	-89.9199	0.103	484
TN018039	HWB28	35.4891	-89.8246	0.103	485
TN003053	HWB28	35.7247	-89.5446	0.103	486
TN005156	HWB28	35.4267	-89.8116	0.103	487
TN005157	HWB28	35.4269	-89.8118	0.103	488
TN017960	HWB23	35.5882	-89.5612	0.103	489
TN001349	HWB17	35.9986	-89.3419	0.104	490
TN013616	HWB28	35.6724	-88.7992	0.104	491
TN018076	HWB28	35.4161	-89.6591	0.105	492
TN018014	HWB4	35.4896	-89.7784	0.105	493
TN005186	HWB4	35.5581	-89.7200	0.105	494
TN012466	HWB28	35.7717	-89.4902	0.106	495
TN012415	HWB22	35.8811	-89.5973	0.106	496
TN017975	HWB28	35.5133	-89.8621	0.106	497
TN013557	HWB3	35.6745	-88.9059	0.106	498
TN017967	HWB4	35.6219	-89.6045	0.106	499
TN018036	HWB28	35.4961	-89.8764	0.107	500
TN018084	HWB23	35.4396	-89.6660	0.107	501
TN003503	HWB28	35.7011	-88.7270	0.107	502
TN100045	HWB28	35.5475	-89.6491	0.108	503
TN012468	HWB3	35.7756	-89.4900	0.108	504
TN012514	HWB28	35.7516	-89.4835	0.108	505
TN005171	HWB23	35.4397	-89.6660	0.108	506
TN018037	HWB28	35.4976	-89.8739	0.109	507
TN018064	HWB28	35.5435	-89.6452	0.109	508
TN017949	HWB23	35.5327	-89.6677	0.109	509
TN018054	HWB4	35.4460	-89.5675	0.109	510
TN001311	HWB7	36.0215	-89.3902	0.109	511
TN008625	HWB16	36.0016	-89.6466	0.109	512

Table F.3 Bridge Predicted Performance Ranking by BRC

HazusID	Bridge Class	Latitude	Longitude	Damage Ratio	Rank
TN017966	HWB4	35.6231	-89.6062	0.109	513
TN003055	HWB22	35.7242	-89.5432	0.111	514
TN018043	HWB28	35.5187	-89.8234	0.111	515
TN012390	HWB28	35.6885	-89.5918	0.111	516
TN013769	HWB28	35.6676	-88.8807	0.112	517
TN017984	HWB3	35.5905	-89.7469	0.112	518
TN003430	HWB28	35.7842	-88.8298	0.112	519
TN018052	HWB28	35.5510	-89.6868	0.112	520
TN100044	HWB28	35.5527	-89.6436	0.113	521
TN003057	HWB28	35.6192	-89.8445	0.113	522
TN012354	HWB28	35.6684	-89.4789	0.113	523
TN005188	HWB4	35.5492	-89.6447	0.114	524
TN005189	HWB4	35.5480	-89.6409	0.114	525
TN018038	HWB28	35.4940	-89.8627	0.114	526
TN012411	HWB28	35.8326	-89.6643	0.114	527
TN005164	HWB23	35.5139	-89.7076	0.114	528
TN017985	HWB28	35.5713	-89.7258	0.115	529
TN001353	HWB19	36.1358	-89.4314	0.115	530
TN017962	HWB3	35.5989	-89.6678	0.115	531
TN017963	HWB28	35.5994	-89.6676	0.115	532
TN012361	HWB28	35.6637	-89.6054	0.115	533
TN012526	HWB28	35.9192	-89.5623	0.115	534
TN012520	HWB28	35.9151	-89.6310	0.115	535
TN017972	HWB23	35.5799	-89.6535	0.116	536
TN003075	HWB28	35.9183	-89.5451	0.116	537
TN018027	HWB28	35.4254	-89.8842	0.116	538
TN017946	HWB4	35.4026	-89.8904	0.116	539
TN012450	HWB4	35.8268	-89.4405	0.116	540
TN013646	HWB28	35.7288	-88.7058	0.117	541
TN017968	HWB4	35.6043	-89.7208	0.117	542
TN018051	HWB28	35.5207	-89.7110	0.117	543
TN005159	HWB28	35.4622	-89.7658	0.117	544
TN013604	HWB28	35.7631	-88.8885	0.117	545
TN012481	HWB28	35.6794	-89.5091	0.117	546
TN012527	HWB28	35.9190	-89.5582	0.117	547
TN001309	HWB7	35.9521	-89.4041	0.118	548
TN001310	HWB7	35.9521	-89.4041	0.118	549
TN017996	HWB3	35.5421	-89.6359	0.118	550
TN005187	HWB4	35.5640	-89.6809	0.119	551
TN012486	HWB4	35.7423	-89.7495	0.119	552
TN005194	HWB28	35.5369	-89.6412	0.119	553

Table F.3 Bridge Predicted Performance Ranking by BRC

HazusID	Bridge Class	Latitude	Longitude	Damage Ratio	Rank
TN003059	HWB28	35.6456	-89.7880	0.119	554
TN003077	HWB28	35.9178	-89.5353	0.120	555
TN001282	HWB7	35.9335	-89.3895	0.121	556
TN012469	HWB14	35.7157	-89.5306	0.121	557
TN013779	HWB17	35.5395	-88.7413	0.121	558
TN018041	HWB4	35.4911	-89.8229	0.122	559
TN018028	HWB28	35.4255	-89.8904	0.122	560
TN013785	HWB23	35.6901	-88.8018	0.122	561
TN012370	HWB4	35.6869	-89.8594	0.122	562
TN018063	HWB28	35.5811	-89.6582	0.123	563
TN012528	HWB28	35.9174	-89.5257	0.123	564
TN001350	HWB19	35.9945	-89.3421	0.124	565
TN018030	HWB28	35.4375	-89.8980	0.125	566
TN001287	HWB22	36.0843	-89.5458	0.125	567
TN001288	HWB22	36.0845	-89.5458	0.125	568
TN013826	HWB28	35.7132	-88.8359	0.125	569
TN008736	HWB15	35.9755	-89.4023	0.125	570
TN017969	HWB23	35.6176	-89.7015	0.125	571
TN012457	HWB28	35.6484	-89.4738	0.125	572
TN018083	HWB28	35.6008	-89.7266	0.125	573
TN017971	HWB23	35.5596	-89.8305	0.126	574
TN001291	HWB22	36.0781	-89.5176	0.127	575
TN001292	HWB22	36.0782	-89.5176	0.127	576
TN017965	HWB28	35.6261	-89.6287	0.127	577
TN018061	HWB28	35.4265	-89.9072	0.127	578
TN017990	HWB28	35.5724	-89.6346	0.127	579
TN003018	HWB28	35.6247	-89.5211	0.128	580
TN012509	HWB4	35.6724	-89.5727	0.128	581
TN018042	HWB22	35.5332	-89.7985	0.128	582
TN018035	HWB3	35.4938	-89.8940	0.128	583
TN003519	HWB5	35.5894	-88.8141	0.128	584
TN003520	HWB5	35.5894	-88.8143	0.128	585
TN003058	HWB28	35.6362	-89.8064	0.129	586
TN005158	HWB28	35.4505	-89.7806	0.129	587
TN017987	HWB3	35.5964	-89.6890	0.129	588
TN001324	HWB14	36.0218	-89.4071	0.129	589
TN001325	HWB14	36.0218	-89.4071	0.129	590
TN100036	HWB28	35.6756	-89.5709	0.130	591
TN017986	HWB28	35.5826	-89.6991	0.130	592
TN012471	HWB3	35.6217	-89.5323	0.130	593
TN012373	HWB28	35.7214	-89.7754	0.130	594

Table F.3 Bridge Predicted Performance Ranking by BRC

HazusID	Bridge Class	Latitude	Longitude	Damage Ratio	Rank
TN100038	HWB28	35.6785	-89.5806	0.131	595
TN018033	HWB22	35.4469	-89.9628	0.131	596
TN005190	HWB23	35.5420	-89.6358	0.131	597
TN012367	HWB22	35.6475	-89.8342	0.132	598
TN008623	HWB5	35.9726	-89.4123	0.132	599
TN003033	HWB10	35.8810	-89.4228	0.132	600
TN012393	HWB28	35.7363	-89.5539	0.132	601
TN003076	HWB22	35.9179	-89.5373	0.132	602
TN017981	HWB28	35.5958	-89.7578	0.133	603
TN017973	HWB4	35.5469	-89.8371	0.133	604
TN012414	HWB14	35.8434	-89.6884	0.133	605
TN017980	HWB3	35.5895	-89.7881	0.134	606
TN018089	HWB4	35.5524	-89.6410	0.134	607
TN003540	HWB28	35.7928	-88.7906	0.135	608
TN018080	HWB23	35.5758	-89.8344	0.135	609
TN008721	HWB28	36.0048	-89.5438	0.135	610
TN003042	HWB22	35.7735	-89.6855	0.137	611
TN018088	HWB28	35.5360	-89.6498	0.137	612
TN003036	HWB23	35.7666	-89.7501	0.137	613
TN012350	HWB28	35.6736	-89.5646	0.137	614
TN003477	HWB17	35.4967	-88.7122	0.138	615
TN003039	HWB22	35.7731	-89.7067	0.138	616
TN003064	HWB4	35.6829	-89.6135	0.139	617
TN012491	HWB16	35.8807	-89.3537	0.139	618
TN012534	HWB22	35.8186	-89.3610	0.139	619
TN018045	HWB3	35.5296	-89.8064	0.140	620
TN012365	HWB28	35.6827	-89.6560	0.140	621
TN012351	HWB28	35.6516	-89.5139	0.140	622
TN012519	HWB3	35.6269	-89.8261	0.140	623
TN003452	HWB17	35.6507	-88.8898	0.141	624
TN012482	HWB28	35.6802	-89.5614	0.141	625
TN003453	HWB17	35.6509	-88.8901	0.141	626
TN005144	HWB23	35.4389	-89.7792	0.141	627
TN018044	HWB28	35.5330	-89.8190	0.141	628
TN008687	HWB28	35.8926	-89.3040	0.142	629
TN003061	HWB3	35.6808	-89.7068	0.142	630
TN012472	HWB3	35.6349	-89.5151	0.142	631
TN012474	HWB3	35.6348	-89.5112	0.142	632
TN012413	HWB4	35.8327	-89.6643	0.142	633
TN012473	HWB28	35.6346	-89.5136	0.142	634
TN003044	HWB22	35.7725	-89.6728	0.142	635

Table F.3 Bridge Predicted Performance Ranking by BRC

HazusID	Bridge Class	Latitude	Longitude	Damage Ratio	Rank
TN018087	HWB23	35.5313	-89.8483	0.143	636
TN017964	HWB28	35.6271	-89.6529	0.143	637
TN012452	HWB4	35.8092	-89.4555	0.143	638
TN012396	HWB28	35.8146	-89.5951	0.143	639
TN012374	HWB3	35.7713	-89.7506	0.144	640
TN018081	HWB3	35.5936	-89.7912	0.144	641
TN012463	HWB28	35.7469	-89.4963	0.144	642
TN012476	HWB4	35.6559	-89.5181	0.145	643
TN012477	HWB28	35.6569	-89.5201	0.145	644
TN003068	HWB28	35.6827	-89.6386	0.145	645
TN018060	HWB28	35.6174	-89.6209	0.145	646
TN012521	HWB28	35.9209	-89.5954	0.145	647
TN100025	HWB28	36.2271	-89.5374	0.146	648
TN012492	HWB23	35.8808	-89.3503	0.146	649
TN012532	HWB22	35.8193	-89.3648	0.146	650
TN012533	HWB22	35.8189	-89.3622	0.146	651
TN003538	HWB22	35.7687	-88.8329	0.146	652
TN003539	HWB22	35.7684	-88.8330	0.146	653
TN012353	HWB28	35.6673	-89.4984	0.146	654
TN100039	HWB28	35.7861	-89.4856	0.146	655
TN003052	HWB22	35.7254	-89.5460	0.147	656
TN012522	HWB28	35.9203	-89.5856	0.147	657
TN012523	HWB28	35.9203	-89.5845	0.147	658
TN012456	HWB28	35.8060	-89.4451	0.147	659
TN012368	HWB3	35.6351	-89.8418	0.147	660
TN012403	HWB28	35.8168	-89.5204	0.147	661
TN003017	HWB28	35.6274	-89.5273	0.147	662
TN003069	HWB22	35.9201	-89.5831	0.148	663
TN003079	HWB28	35.9166	-89.5115	0.148	664
TN012409	HWB28	35.7918	-89.6148	0.148	665
TN003016	HWB28	35.7588	-89.5385	0.149	666
TN017979	HWB3	35.5878	-89.8033	0.149	667
TN003070	HWB22	35.9198	-89.5761	0.149	668
TN012524	HWB22	35.9200	-89.5792	0.149	669
TN012518	HWB22	35.7426	-89.5294	0.149	670
TN005184	HWB28	35.5315	-89.8480	0.150	671
TN012377	HWB3	35.7427	-89.7011	0.150	672
TN005182	HWB5	35.5680	-89.4844	0.150	673
TN005172	HWB28	35.4629	-89.6313	0.151	674
TN013579	HWB17	35.5503	-88.8375	0.151	675
TN008685	HWB28	35.9326	-89.2827	0.151	676

Table F.3 Bridge Predicted Performance Ranking by BRC

HazusID	Bridge Class	Latitude	Longitude	Damage Ratio	Rank
TN017978	HWB3	35.5876	-89.8134	0.151	677
TN008644	HWB28	35.9754	-89.2182	0.152	678
TN012363	HWB28	35.6648	-89.6141	0.152	679
TN008733	HWB5	36.1856	-89.3603	0.152	680
TN008732	HWB5	36.1820	-89.3597	0.152	681
TN003072	HWB22	35.9193	-89.5662	0.153	682
TN012454	HWB28	35.8316	-89.4572	0.153	683
TN012460	HWB28	35.7447	-89.4614	0.153	684
TN012371	HWB28	35.6900	-89.4703	0.154	685
TN003074	HWB22	35.9185	-89.5495	0.154	686
TN001326	HWB28	36.0593	-89.5911	0.155	687
TN012467	HWB3	35.7662	-89.4956	0.155	688
TN012412	HWB23	35.8205	-89.6597	0.156	689
TN001366	HWB19	36.0257	-89.3305	0.156	690
TN100017	HWB28	36.4644	-89.3930	0.158	691
TN100019	HWB28	36.3071	-89.4757	0.158	692
TN012510	HWB28	35.6700	-89.5692	0.158	693
TN012489	HWB28	35.8806	-89.3586	0.158	694
TN005169	HWB17	35.6376	-89.6099	0.158	695
TN003065	HWB28	35.6809	-89.5948	0.159	696
TN013801	HWB17	35.4706	-88.7511	0.159	697
TN012376	HWB28	35.7480	-89.4513	0.160	698
TN003022	HWB28	35.7566	-89.5494	0.160	699
TN012479	HWB4	35.6479	-89.5890	0.160	700
TN013568	HWB5	35.7576	-88.7395	0.160	701
TN003048	HWB3	35.7154	-89.4796	0.161	702
TN012507	HWB28	35.8770	-89.4888	0.161	703
TN012461	HWB28	35.7856	-89.4785	0.162	704
TN005195	HWB28	35.5423	-89.6376	0.163	705
TN012404	HWB28	35.8217	-89.5450	0.163	706
TN018053	HWB22	35.5549	-90.0182	0.163	707
TN017982	HWB28	35.6077	-89.7711	0.164	708
TN012401	HWB28	35.8320	-89.5120	0.165	709
TN100040	HWB3	35.8003	-89.4540	0.165	710
TN003066	HWB22	35.6750	-89.6894	0.166	711
TN003009	HWB3	35.7844	-89.4994	0.167	712
TN008702	HWB28	35.9388	-89.5075	0.167	713
TN003050	HWB28	35.7314	-89.5557	0.168	714
TN003516	HWB5	35.5715	-88.8149	0.168	715
TN012442	HWB28	35.8512	-89.4380	0.169	716
TN012451	HWB28	35.8174	-89.4494	0.169	717

Table F.3 Bridge Predicted Performance Ranking by BRC

HazusID	Bridge Class	Latitude	Longitude	Damage Ratio	Rank
TN003078	HWB22	35.9169	-89.5181	0.169	718
TN012355	HWB23	35.7097	-89.5496	0.169	719
TN008675	HWB28	36.0434	-89.1803	0.171	720
TN008704	HWB4	35.9985	-89.5458	0.171	721
TN012382	HWB23	35.7327	-89.6432	0.171	722
TN012511	HWB28	35.8000	-89.4537	0.171	723
TN001367	HWB19	36.0258	-89.3291	0.171	724
TN009385	HWB4	35.9927	-89.6708	0.172	725
TN012360	HWB4	35.6630	-89.5999	0.172	726
TN012513	HWB4	35.7438	-89.5589	0.173	727
TN012515	HWB28	35.8689	-89.3791	0.173	728
TN003011	HWB3	35.8223	-89.4350	0.173	729
TN012398	HWB28	35.7724	-89.5151	0.173	730
TN003062	HWB22	35.6935	-89.6952	0.173	731
TN003051	HWB22	35.7279	-89.5504	0.174	732
TN012459	HWB28	35.7889	-89.4942	0.175	733
TN012485	HWB28	35.7892	-89.4871	0.175	734
TN012484	HWB28	35.7017	-89.5519	0.175	735
TN012358	HWB3	35.7389	-89.5058	0.175	736
TN001365	HWB19	36.0256	-89.3353	0.176	737
TN003010	HWB10	35.8159	-89.4431	0.176	738
TN008674	HWB28	36.0832	-89.1726	0.176	739
TN012388	HWB23	35.7488	-89.6092	0.176	740
TN001285	HWB22	36.0895	-89.5686	0.177	741
TN001286	HWB22	36.0893	-89.5686	0.177	742
TN012495	HWB23	35.8814	-89.3433	0.177	743
TN008709	HWB28	36.0727	-89.4091	0.177	744
TN012381	HWB3	35.7402	-89.6500	0.178	745
TN012397	HWB3	35.8300	-89.6062	0.178	746
TN012480	HWB28	35.6796	-89.5523	0.178	747
TN012417	HWB23	35.8716	-89.5015	0.178	748
TN001276	HWB3	36.0776	-89.3263	0.179	749
TN001356	HWB28	36.1606	-89.5630	0.179	750
TN012465	HWB23	35.7568	-89.5065	0.180	751
TN003463	HWB5	35.6777	-88.7900	0.180	752
TN003464	HWB5	35.6775	-88.7899	0.180	753
TN001328	HWB22	36.0557	-89.5794	0.180	754
TN017983	HWB28	35.6085	-89.7393	0.180	755
TN003049	HWB28	35.7143	-89.4689	0.180	756
TN012402	HWB28	35.8179	-89.5200	0.180	757
TN100018	HWB28	36.3494	-89.4686	0.180	758

Table F.3 Bridge Predicted Performance Ranking by BRC

HazusID	Bridge Class	Latitude	Longitude	Damage Ratio	Rank
TN012475	HWB4	35.6519	-89.5078	0.181	759
TN012458	HWB23	35.7837	-89.4927	0.181	760
TN012369	HWB4	35.6105	-89.8771	0.181	761
TN012410	HWB28	35.7785	-89.6157	0.181	762
TN008632	HWB28	36.0599	-89.2132	0.181	763
TN001335	HWB23	35.9760	-89.3864	0.182	764
TN001283	HWB4	35.9374	-89.3891	0.182	765
TN012384	HWB3	35.7400	-89.6551	0.182	766
TN012487	HWB28	35.9325	-89.4587	0.183	767
TN012441	HWB22	35.8651	-89.4281	0.183	768
TN001331	HWB28	36.0408	-89.5257	0.183	769
TN001357	HWB28	36.1594	-89.5243	0.184	770
TN012379	HWB22	35.7106	-89.6694	0.184	771
TN001322	HWB5	36.0203	-89.4055	0.184	772
TN001323	HWB5	36.0203	-89.4055	0.184	773
TN012512	HWB28	35.7350	-89.5987	0.184	774
TN012392	HWB3	35.7324	-89.6002	0.184	775
TN012362	HWB4	35.6700	-89.6331	0.184	776
TN008757	HWB28	35.9228	-89.2786	0.184	777
TN012478	HWB28	35.6492	-89.5187	0.184	778
TN001358	HWB28	36.1605	-89.5152	0.184	779
TN003083	HWB22	35.8667	-89.3967	0.185	780
TN003067	HWB28	35.6747	-89.6843	0.185	781
TN012364	HWB28	35.6734	-89.6856	0.185	782
TN012455	HWB28	35.8046	-89.4401	0.185	783
TN012378	HWB23	35.7426	-89.6996	0.186	784
TN001329	HWB22	36.0505	-89.5626	0.186	785
TN003043	HWB22	35.7732	-89.6839	0.188	786
TN003006	HWB28	35.6781	-89.5697	0.188	787
TN017953	HWB28	35.4810	-89.6914	0.189	788
TN008690	HWB28	35.9229	-89.2772	0.189	789
TN003056	HWB28	35.6099	-89.8796	0.190	790
TN100024	HWB28	36.2279	-89.5319	0.190	791
TN012501	HWB28	35.9125	-89.4473	0.190	792
TN013591	HWB5	35.6141	-88.8627	0.190	793
TN012395	HWB28	35.7709	-89.5465	0.191	794
TN012449	HWB3	35.8356	-89.4318	0.191	795
TN001314	HWB28	36.0552	-89.3593	0.191	796
TN008640	HWB4	35.8965	-89.2773	0.191	797
TN012470	HWB23	35.6192	-89.5310	0.192	798
TN012516	HWB23	35.8646	-89.3760	0.192	799

Table F.3 Bridge Predicted Performance Ranking by BRC

HazusID	Bridge Class	Latitude	Longitude	Damage Ratio	Rank
TN012394	HWB23	35.7529	-89.5885	0.192	800
TN001363	HWB14	36.0312	-89.3750	0.192	801
TN100020	HWB28	36.3413	-89.4699	0.192	802
TN008684	HWB28	35.9336	-89.2860	0.193	803
TN012464	HWB28	35.7536	-89.5084	0.193	804
TN001290	HWB17	36.0812	-89.5309	0.193	805
TN003444	HWB5	35.6080	-89.0266	0.194	806
TN003445	HWB5	35.6082	-89.0266	0.194	807
TN100010	HWB21	36.1979	-89.5107	0.194	808
TN008642	HWB28	35.9727	-89.2186	0.195	809
TN013588	HWB5	35.6160	-88.8561	0.195	810
TN012357	HWB3	35.7361	-89.4898	0.195	811
TN008622	HWB28	36.0346	-89.2797	0.195	812
TN012405	HWB3	35.8233	-89.5294	0.197	813
TN012505	HWB28	35.8229	-89.5284	0.197	814
TN012529	HWB22	35.8373	-89.4026	0.197	815
TN012444	HWB23	35.8477	-89.3952	0.197	816
TN001289	HWB17	36.2411	-89.5308	0.197	817
TN008713	HWB28	36.1106	-89.3189	0.198	818
TN008673	HWB28	36.0597	-89.1692	0.198	819
TN008683	HWB3	35.9502	-89.2277	0.198	820
TN012462	HWB28	35.7468	-89.4924	0.198	821
TN012447	HWB4	35.8292	-89.4156	0.199	822
TN012383	HWB28	35.7199	-89.6481	0.199	823
TN008756	HWB28	35.9287	-89.2849	0.199	824
TN012380	HWB3	35.7402	-89.6564	0.199	825
TN003063	HWB4	35.6853	-89.6309	0.200	826
TN012422	HWB28	35.8717	-89.4552	0.200	827
TN013730	HWB4	35.6881	-88.8096	0.201	828
TN003517	HWB5	35.5811	-88.8143	0.201	829
TN003518	HWB5	35.5811	-88.8146	0.201	830
TN008691	HWB19	35.9688	-89.3861	0.203	831
TN008701	HWB28	36.0330	-89.4375	0.203	832
TN003073	HWB22	35.9187	-89.5531	0.204	833
TN012366	HWB23	35.6931	-89.8042	0.204	834
TN008659	HWB28	36.1526	-89.3060	0.205	835
TN012446	HWB3	35.8467	-89.3937	0.205	836
TN001354	HWB3	36.1747	-89.4439	0.205	837
TN012408	HWB28	35.7802	-89.5994	0.206	838
TN012400	HWB4	35.7883	-89.5271	0.207	839
TN012445	HWB3	35.8471	-89.3943	0.208	840

Table F.3 Bridge Predicted Performance Ranking by BRC

HazusID	Bridge Class	Latitude	Longitude	Damage Ratio	Rank
TN003080	HWB28	35.9065	-89.4819	0.209	841
TN008682	HWB28	35.9709	-89.2503	0.209	842
TN012508	HWB4	35.7511	-89.6233	0.209	843
TN012433	HWB28	35.9345	-89.4277	0.209	844
TN003550	HWB17	35.7776	-88.6954	0.211	845
TN013777	HWB17	35.5688	-88.7687	0.211	846
TN008688	HWB19	35.8931	-89.3018	0.212	847
TN003525	HWB5	35.6059	-88.8159	0.212	848
TN003045	HWB28	35.7732	-89.6241	0.212	849
TN001320	HWB22	36.0662	-89.3436	0.212	850
TN001321	HWB22	36.0660	-89.3434	0.212	851
TN012389	HWB28	35.7400	-89.6108	0.213	852
TN008719	HWB28	36.0380	-89.2033	0.213	853
TN013719	HWB17	35.5696	-88.8164	0.215	854
TN001306	HWB19	36.0855	-89.4871	0.215	855
TN008689	HWB22	35.9210	-89.3253	0.215	856
TN008656	HWB28	36.1213	-89.3603	0.215	857
TN012419	HWB28	35.8532	-89.4644	0.217	858
TN012440	HWB4	35.8661	-89.4156	0.217	859
TN013372	HWB23	35.9756	-89.4312	0.218	860
TN008734	HWB17	36.1913	-89.3613	0.219	861
TN003046	HWB28	35.7642	-89.5690	0.219	862
TN012421	HWB28	35.8665	-89.4577	0.219	863
TN012418	HWB4	35.8523	-89.4652	0.219	864
TN008680	HWB4	35.9972	-89.2778	0.219	865
TN003012	HWB3	35.8304	-89.4192	0.219	866
TN008755	HWB28	35.9332	-89.2897	0.220	867
TN012517	HWB22	35.8608	-89.3763	0.220	868
TN012420	HWB3	35.8629	-89.4604	0.221	869
TN012429	HWB28	35.9284	-89.4968	0.222	870
TN012423	HWB4	35.8523	-89.4636	0.223	871
TN012425	HWB28	35.8509	-89.4384	0.224	872
TN003082	HWB28	35.8944	-89.4355	0.225	873
TN012530	HWB28	35.8213	-89.3869	0.225	874
TN008624	HWB4	35.9584	-89.2266	0.225	875
TN001340	HWB23	36.0487	-89.3341	0.225	876
TN003054	HWB28	35.7245	-89.5261	0.226	877
TN003476	HWB17	35.4953	-88.7148	0.227	878
TN012499	HWB22	35.9048	-89.4534	0.228	879
TN008703	HWB28	36.0096	-89.4889	0.228	880
TN012424	HWB4	35.8530	-89.4573	0.228	881

Table F.3 Bridge Predicted Performance Ranking by BRC

HazusID	Bridge Class	Latitude	Longitude	Damage Ratio	Rank
TN001344	HWB22	36.0252	-89.3398	0.229	882
TN001345	HWB22	36.0252	-89.3398	0.229	883
TN013581	HWB17	35.5769	-88.8026	0.229	884
TN003029	HWB23	35.9041	-89.4199	0.229	885
TN003030	HWB23	35.9041	-89.4199	0.229	886
TN003032	HWB7	35.9331	-89.4162	0.229	887
TN100022	HWB28	36.3674	-89.5049	0.229	888
TN012504	HWB28	35.8188	-89.6634	0.230	889
TN008646	HWB28	36.1744	-89.4446	0.230	890
TN008643	HWB28	35.9737	-89.2184	0.231	891
TN008681	HWB28	36.0152	-89.2715	0.232	892
TN001372	HWB28	36.1874	-89.1843	0.232	893
TN001341	HWB22	36.0487	-89.3341	0.232	894
TN100009	HWB19	36.3529	-89.4098	0.233	895
TN003443	HWB17	35.5969	-89.0547	0.233	896
TN008620	HWB3	36.0383	-89.2026	0.233	897
TN008629	HWB28	36.0848	-89.2549	0.233	898
TN012356	HWB23	35.6982	-89.7163	0.235	899
TN012431	HWB22	35.9336	-89.4228	0.236	900
TN100008	HWB19	36.2697	-89.4247	0.236	901
TN001368	HWB28	36.0236	-89.2844	0.238	902
TN012500	HWB28	35.9056	-89.4532	0.238	903
TN008665	HWB3	36.1404	-89.2197	0.239	904
TN012494	HWB23	35.8811	-89.3444	0.239	905
TN012493	HWB15	35.8806	-89.3478	0.240	906
TN008695	HWB3	35.9475	-89.4571	0.240	907
TN012385	HWB28	35.7601	-89.6353	0.240	908
TN003492	HWB5	35.6144	-88.9001	0.240	909
TN003493	HWB5	35.6146	-88.9001	0.240	910
TN012437	HWB3	35.8963	-89.3783	0.241	911
TN008720	HWB28	36.0391	-89.2004	0.241	912
TN008638	HWB3	36.1713	-89.2027	0.242	913
TN005166	HWB28	35.5172	-89.7013	0.242	914
TN008686	HWB3	35.9586	-89.3367	0.243	915
TN013573	HWB24	35.4448	-88.8560	0.243	916
TN008650	HWB3	36.1302	-89.4205	0.243	917
TN008694	HWB3	35.9683	-89.4484	0.244	918
TN001342	HWB23	36.0522	-89.3349	0.245	919
TN001355	HWB7	36.1983	-89.4570	0.245	920
TN012443	HWB23	35.8824	-89.3932	0.246	921
TN003505	HWB5	35.7587	-88.6832	0.246	922

Table F.3 Bridge Predicted Performance Ranking by BRC

HazusID	Bridge Class	Latitude	Longitude	Damage Ratio	Rank
TN100034	HWB28	36.0994	-89.2766	0.247	923
TN012432	HWB28	35.9351	-89.4302	0.247	924
TN008633	HWB28	36.0553	-89.2015	0.247	925
TN008647	HWB3	36.1853	-89.4672	0.247	926
TN008751	HWB10	36.1628	-89.2403	0.247	927
TN003081	HWB22	35.9044	-89.4540	0.248	928
TN001338	HWB23	36.0375	-89.3377	0.248	929
TN008637	HWB28	36.1775	-89.4945	0.249	930
TN008697	HWB4	36.0479	-89.3221	0.250	931
TN013772	HWB5	35.6169	-88.8116	0.250	932
TN001343	HWB22	36.0522	-89.3349	0.251	933
TN008669	HWB28	36.1331	-89.2283	0.253	934
TN100021	HWB28	36.3336	-89.4729	0.253	935
TN008750	HWB10	36.1392	-89.2632	0.253	936
TN018075	HWB5	35.4231	-89.6395	0.254	937
TN018074	HWB5	35.4227	-89.6353	0.254	938
TN013758	HWB15	35.6788	-88.7804	0.254	939
TN008696	HWB4	36.0486	-89.3318	0.254	940
TN012436	HWB22	35.9151	-89.3981	0.257	941
TN012434	HWB4	35.9344	-89.4226	0.257	942
TN012502	HWB4	35.9331	-89.4422	0.257	943
TN100003	HWB10	36.3528	-89.4062	0.257	944
TN003549	HWB17	35.7802	-88.6980	0.259	945
TN008641	HWB3	36.0184	-89.3650	0.259	946
TN008693	HWB4	35.9756	-89.4312	0.259	947
TN013590	HWB5	35.6149	-88.8611	0.259	948
TN008737	HWB28	36.1578	-89.1778	0.260	949
TN008635	HWB4	36.0862	-89.2455	0.260	950
TN008679	HWB4	36.0221	-89.2828	0.261	951
TN018078	HWB5	35.5151	-89.7707	0.261	952
TN012438	HWB28	35.8948	-89.3843	0.263	953
TN013569	HWB5	35.7669	-88.7377	0.263	954
TN012448	HWB23	35.8234	-89.4244	0.264	955
TN008634	HWB4	36.1476	-89.2626	0.265	956
TN008708	HWB4	36.0867	-89.4087	0.266	957
TN013718	HWB5	35.5735	-88.8270	0.266	958
TN013720	HWB5	35.5761	-88.8272	0.266	959
TN012435	HWB3	35.9146	-89.4376	0.267	960
TN001315	HWB28	36.0913	-89.3210	0.269	961
TN008729	HWB22	36.0439	-89.3496	0.269	962
TN003014	HWB3	35.8815	-89.3952	0.270	963

Table F.3 Bridge Predicted Performance Ranking by BRC

HazusID	Bridge Class	Latitude	Longitude	Damage Ratio	Rank
TN012439	HWB28	35.8813	-89.3932	0.270	964
TN005180	HWB5	35.5610	-89.5108	0.271	965
TN008668	HWB28	36.1474	-89.1901	0.272	966
TN003446	HWB5	35.6180	-88.9977	0.272	967
TN001336	HWB16	35.9723	-89.3632	0.272	968
TN013773	HWB5	35.6216	-88.8108	0.273	969
TN012531	HWB28	35.8212	-89.3869	0.274	970
TN012372	HWB23	35.7010	-89.8047	0.274	971
TN008738	HWB28	36.1134	-89.3604	0.274	972
TN003504	HWB5	35.7415	-88.7013	0.275	973
TN001316	HWB28	36.0957	-89.3147	0.275	974
TN001318	HWB22	36.1808	-89.2247	0.276	975
TN001319	HWB22	36.1807	-89.2244	0.276	976
TN001279	HWB3	36.0853	-89.3154	0.276	977
TN012503	HWB4	35.9390	-89.4374	0.277	978
TN008676	HWB3	36.0585	-89.2290	0.278	979
TN008759	HWB28	36.1899	-89.1854	0.278	980
TN008627	HWB4	36.0516	-89.4613	0.278	981
TN008666	HWB28	36.1290	-89.2038	0.280	982
TN005174	HWB5	35.4715	-89.6161	0.280	983
TN012387	HWB4	35.7558	-89.6355	0.280	984
TN001305	HWB28	36.1017	-89.4377	0.281	985
TN008678	HWB3	36.0235	-89.2629	0.281	986
TN008760	HWB4	36.1019	-89.4377	0.281	987
TN012406	HWB4	35.8321	-89.5665	0.282	988
TN008657	HWB28	36.1491	-89.3202	0.282	989
TN001364	HWB28	36.0269	-89.3626	0.282	990
TN012496	HWB5	35.8632	-89.3642	0.282	991
TN100014	HWB28	36.3523	-89.4058	0.285	992
TN001333	HWB4	36.0343	-89.4672	0.286	993
TN008677	HWB3	36.0490	-89.2249	0.286	994
TN001334	HWB4	36.0360	-89.4261	0.286	995
TN100028	HWB28	36.3216	-89.4758	0.287	996
TN008726	HWB10	36.0688	-89.4180	0.289	997
TN012488	HWB7	35.9169	-89.3904	0.289	998
TN008670	HWB28	36.1326	-89.1703	0.290	999
TN008626	HWB3	36.0522	-89.4738	0.291	1000
TN008711	HWB3	36.0590	-89.2969	0.292	1001
TN008758	HWB28	36.2026	-89.1851	0.293	1002
TN008712	HWB4	36.1013	-89.3306	0.294	1003
TN003438	HWB17	35.6204	-88.8418	0.294	1004

Table F.3 Bridge Predicted Performance Ranking by BRC

HazusID	Bridge Class	Latitude	Longitude	Damage Ratio	Rank
TN003439	HWB17	35.6202	-88.8420	0.294	1005
TN001332	HWB4	36.0359	-89.4865	0.295	1006
TN008743	HWB19	36.0644	-89.3796	0.296	1007
TN100029	HWB28	36.3071	-89.4761	0.296	1008
TN013755	HWB17	35.6386	-88.9169	0.297	1009
TN005185	HWB17	35.5527	-89.8221	0.297	1010
TN008730	HWB28	36.1728	-89.3391	0.298	1011
TN013756	HWB17	35.6742	-88.8075	0.299	1012
TN001293	HWB22	36.0761	-89.5011	0.300	1013
TN001294	HWB22	36.0759	-89.5010	0.300	1014
TN013754	HWB17	35.6329	-88.9489	0.300	1015
TN008740	HWB28	36.1207	-89.3267	0.300	1016
TN008707	HWB4	36.0918	-89.4215	0.301	1017
TN001351	HWB17	35.9888	-89.3424	0.303	1018
TN008717	HWB23	36.0896	-89.3566	0.303	1019
TN001295	HWB22	36.0754	-89.4969	0.303	1020
TN001296	HWB22	36.0756	-89.4968	0.303	1021
TN100013	HWB19	36.4479	-89.4088	0.305	1022
TN008671	HWB28	36.1107	-89.2021	0.309	1023
TN008653	HWB28	36.1052	-89.4005	0.310	1024
TN100027	HWB28	36.2848	-89.5173	0.312	1025
TN008706	HWB28	36.0942	-89.4271	0.313	1026
TN100015	HWB28	36.4073	-89.4749	0.313	1027
TN100005	HWB20	36.2263	-89.5444	0.316	1028
TN013614	HWB5	35.6193	-88.9944	0.316	1029
TN003447	HWB5	35.6197	-88.9924	0.316	1030
TN008728	HWB11	36.0680	-89.3723	0.317	1031
TN008742	HWB28	36.0586	-89.3805	0.319	1032
TN013829	HWB5	35.6261	-88.8390	0.320	1033
TN008651	HWB4	36.1203	-89.4114	0.322	1034
TN003440	HWB17	35.6387	-88.8497	0.323	1035
TN003441	HWB17	35.6388	-88.8499	0.323	1036
TN008747	HWB10	36.1061	-89.2981	0.324	1037
TN008660	HWB4	36.1717	-89.3276	0.326	1038
TN008723	HWB22	36.0715	-89.4638	0.327	1039
TN008705	HWB28	36.0460	-89.4947	0.327	1040
TN001373	HWB28	36.0501	-89.3667	0.327	1041
TN008636	HWB28	36.0839	-89.2130	0.329	1042
TN003020	HWB15	35.7550	-89.5501	0.329	1043
TN003021	HWB15	35.7550	-89.5501	0.329	1044
TN008658	HWB3	36.1302	-89.2822	0.330	1045

Table F.3 Bridge Predicted Performance Ranking by BRC

HazusID	Bridge Class	Latitude	Longitude	Damage Ratio	Rank
TN008672	HWB3	36.1119	-89.2475	0.330	1046
TN100030	HWB28	36.1982	-89.5161	0.330	1047
TN013627	HWB17	35.7354	-88.8621	0.330	1048
TN008746	HWB10	36.0897	-89.3230	0.333	1049
TN008667	HWB28	36.1553	-89.2752	0.333	1050
TN008663	HWB3	36.1382	-89.2756	0.334	1051
TN012399	HWB26	35.7711	-89.5131	0.334	1052
TN100023	HWB28	36.4438	-89.4867	0.336	1053
TN013592	HWB5	35.6061	-88.8976	0.337	1054
TN008661	HWB28	36.1665	-89.3106	0.338	1055
TN008652	HWB3	36.1407	-89.4081	0.338	1056
TN008692	HWB28	35.9686	-89.4376	0.338	1057
TN008748	HWB10	36.1125	-89.2899	0.339	1058
TN008749	HWB10	36.1269	-89.2753	0.339	1059
TN001346	HWB17	36.0173	-89.3404	0.339	1060
TN001347	HWB17	36.0173	-89.3404	0.339	1061
TN008715	HWB28	36.1194	-89.3253	0.340	1062
TN013814	HWB17	35.6662	-89.0011	0.340	1063
TN008716	HWB28	36.0496	-89.3633	0.342	1064
TN008648	HWB4	36.2054	-89.3368	0.342	1065
TN008649	HWB28	36.2072	-89.3388	0.342	1066
TN008700	HWB3	36.0481	-89.3134	0.342	1067
TN003454	HWB5	35.6558	-88.8769	0.342	1068
TN003455	HWB5	35.6559	-88.8771	0.342	1069
TN008739	HWB4	36.1179	-89.3565	0.343	1070
TN008752	HWB10	36.1717	-89.2299	0.344	1071
TN008718	HWB3	36.1014	-89.3919	0.345	1072
TN001352	HWB28	36.0724	-89.3971	0.346	1073
TN008735	HWB28	36.2091	-89.3596	0.347	1074
TN012416	HWB26	35.8804	-89.5698	0.349	1075
TN008725	HWB10	36.0691	-89.4263	0.350	1076
TN003449	HWB5	35.6370	-88.9354	0.350	1077
TN012391	HWB26	35.6958	-89.5910	0.351	1078
TN003448	HWB5	35.6372	-88.9355	0.352	1079
TN100012	HWB19	36.3691	-89.4879	0.353	1080
TN001303	HWB23	36.0732	-89.3477	0.353	1081
TN001304	HWB23	36.0733	-89.3475	0.353	1082
TN008745	HWB10	36.0756	-89.3433	0.356	1083
TN001337	HWB4	36.0340	-89.4395	0.356	1084
TN013631	HWB17	35.7518	-88.8373	0.356	1085
TN008654	HWB4	36.1242	-89.3693	0.361	1086

Table F.3 Bridge Predicted Performance Ranking by BRC

HazusID	Bridge Class	Latitude	Longitude	Damage Ratio	Rank
TN100033	HWB23	36.0338	-89.3681	0.361	1087
TN005145	HWB5	35.4353	-89.7532	0.362	1088
TN100035	HWB10	36.2063	-89.2114	0.363	1089
TN013744	HWB17	35.7040	-88.8508	0.364	1090
TN008698	HWB28	36.0712	-89.3040	0.366	1091
TN008754	HWB23	35.9655	-89.3313	0.368	1092
TN100031	HWB28	36.4132	-89.4754	0.368	1093
TN001278	HWB4	36.0851	-89.3155	0.371	1094
TN013549	HWB17	35.5789	-88.9073	0.372	1095
TN005181	HWB5	35.5644	-89.4930	0.373	1096
TN008630	HWB4	36.0606	-89.2371	0.375	1097
TN018018	HWB17	35.4023	-89.8164	0.380	1098
TN005173	HWB5	35.4674	-89.6237	0.384	1099
TN005178	HWB17	35.5527	-89.5853	0.386	1100
TN001299	HWB10	36.0686	-89.3967	0.389	1101
TN003506	HWB5	35.7711	-88.6716	0.391	1102
TN008727	HWB10	36.0681	-89.3794	0.393	1103
TN001298	HWB10	36.0688	-89.3967	0.394	1104
TN008724	HWB10	36.0698	-89.4508	0.395	1105
TN001370	HWB17	36.0280	-89.1828	0.397	1106
TN018032	HWB17	35.4471	-89.9622	0.398	1107
TN005176	HWB5	35.5498	-89.5147	0.400	1108
TN001371	HWB17	36.0237	-89.1729	0.400	1109
TN001317	HWB10	36.1215	-89.2811	0.401	1110
TN100026	HWB28	36.2629	-89.4651	0.401	1111
TN012453	HWB26	35.8189	-89.4606	0.409	1112
TN013556	HWB5	35.7924	-88.9110	0.410	1113
TN008628	HWB28	36.0462	-89.4264	0.410	1114
TN013628	HWB17	35.7179	-88.8569	0.413	1115
TN005167	HWB5	35.5775	-89.6433	0.421	1116
TN008655	HWB4	36.1674	-89.3584	0.421	1117
TN001300	HWB28	36.0685	-89.3901	0.422	1118
TN003028	HWB17	35.8667	-89.4317	0.431	1119
TN008662	HWB28	36.1376	-89.2757	0.434	1120
TN003481	HWB17	35.4778	-89.0163	0.443	1121
TN008714	HWB4	36.1108	-89.3455	0.443	1122
TN005142	HWB17	35.5734	-89.6360	0.449	1123
TN012352	HWB24	35.6666	-89.5119	0.457	1124
TN003027	HWB17	35.8676	-89.4311	0.462	1125
TN003008	HWB5	35.7598	-89.5229	0.465	1126
TN001297	HWB15	36.0930	-89.5859	0.469	1127

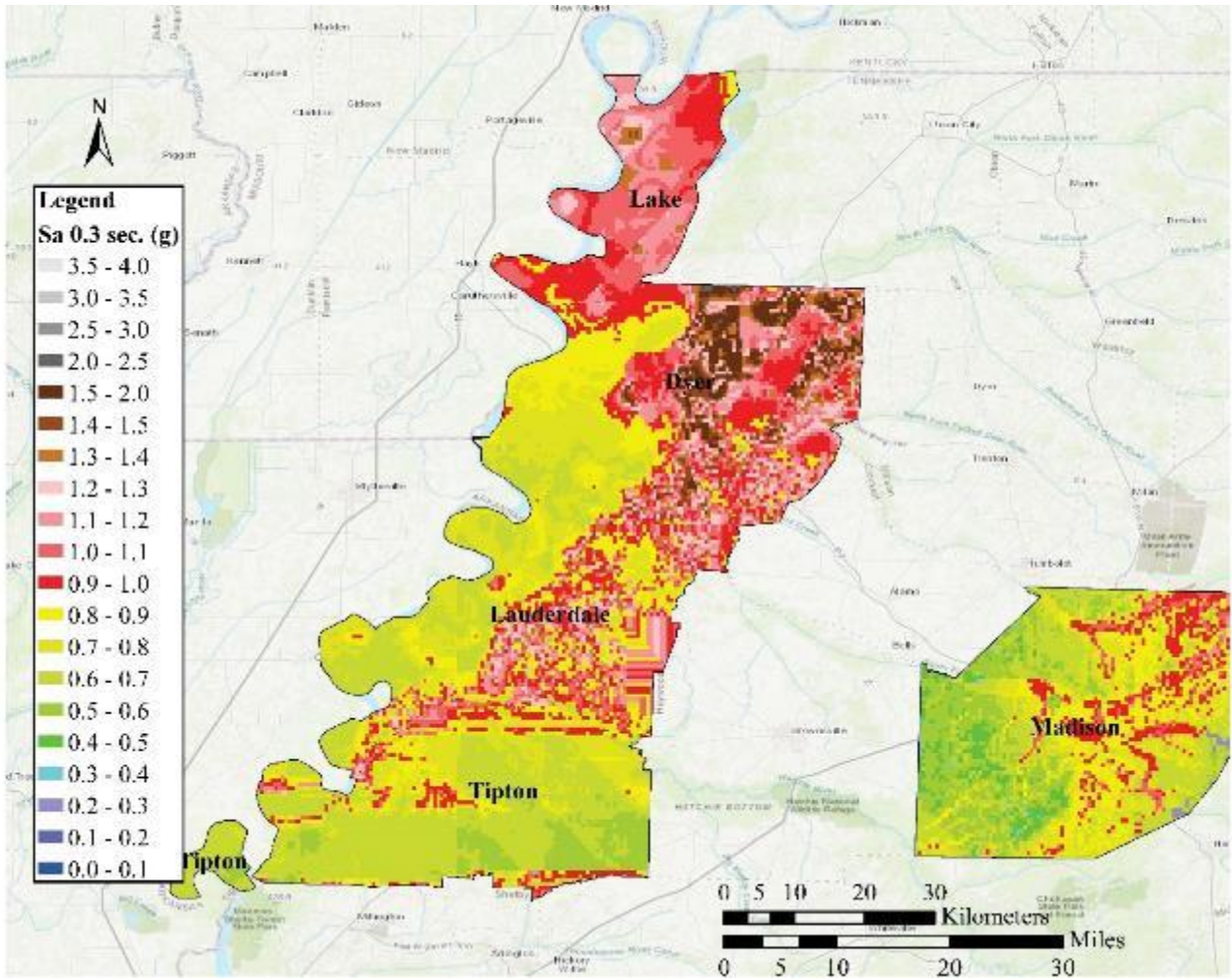
Table F.3 Bridge Predicted Performance Ranking by BRC

HazusID	Bridge Class	Latitude	Longitude	Damage Ratio	Rank
TN012428	HWB24	35.8839	-89.4840	0.475	1128
TN003024	HWB17	35.7730	-89.5304	0.477	1129
TN003023	HWB17	35.7663	-89.5400	0.488	1130
TN008744	HWB3	36.1732	-89.3612	0.500	1131
TN001361	HWB17	36.1630	-89.4770	0.509	1132
TN003047	HWB5	35.7563	-89.5514	0.510	1133
TN003025	HWB17	35.8523	-89.4407	0.515	1134
TN003026	HWB17	35.8523	-89.4407	0.515	1135
TN012359	HWB5	35.9019	-89.4820	0.516	1136
TN001362	HWB17	36.1609	-89.4611	0.518	1137
TN001359	HWB17	36.1620	-89.5080	0.520	1138
TN001327	HWB17	36.0584	-89.5881	0.526	1139
TN001360	HWB17	36.1615	-89.5102	0.529	1140
TN001281	HWB5	36.1869	-89.2092	0.535	1141
TN012506	HWB5	35.8797	-89.5339	0.535	1142
TN008631	HWB5	36.0602	-89.2145	0.535	1143
TN008639	HWB17	35.9966	-89.3771	0.542	1144
TN100006	HWB17	36.2596	-89.4289	0.543	1145
TN100004	HWB20	36.2156	-89.4982	0.544	1146
TN003031	HWB5	35.9331	-89.4162	0.548	1147
TN100007	HWB17	36.3316	-89.4008	0.550	1148
TN001339	HWB17	36.0351	-89.3391	0.550	1149
TN001280	HWB5	36.1785	-89.2162	0.558	1150
TN001369	HWB17	36.0334	-89.1998	0.559	1151
TN008741	HWB17	36.1797	-89.2540	0.566	1152
TN001313	HWB17	36.0537	-89.3614	0.566	1153
TN008699	HWB24	36.0726	-89.3026	0.571	1154
TN001301	HWB17	36.0684	-89.3823	0.573	1155
TN001302	HWB17	36.0687	-89.3825	0.573	1156
TN008621	HWB17	36.0949	-89.4084	0.604	1157
TN012375	HWB24	35.7882	-89.7300	0.622	1158
TN003007	HWB5	35.7242	-89.5466	0.641	1159
TN012483	HWB24	35.6798	-89.5509	0.673	1160
TN008722	HWB5	35.9579	-89.2853	0.711	1161
TN012407	HWB24	35.7879	-89.6012	0.716	1162
TN012427	HWB24	35.8706	-89.4451	0.725	1163
TN012490	HWB24	35.8808	-89.3541	0.729	1164
TN100001	HWB8	36.3027	-89.5007	0.729	1165
TN003013	HWB5	35.8362	-89.4078	0.784	1166
TN100002	HWB17	36.2283	-89.4736	0.799	1167
TN008731	HWB5	36.1584	-89.3203	0.807	1168

Table F.3 Bridge Predicted Performance Ranking by BRC

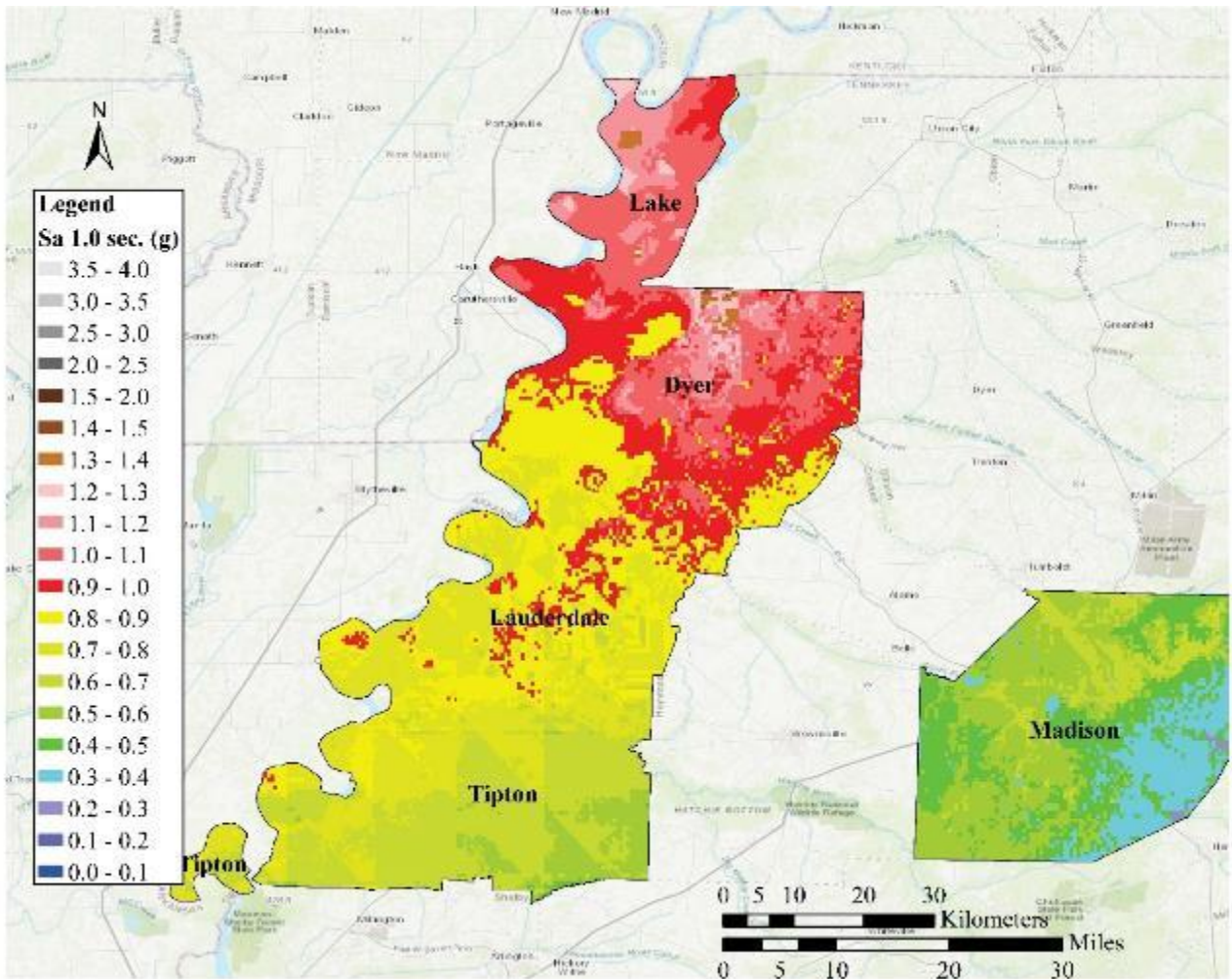
HazusID	Bridge Class	Latitude	Longitude	Damage Ratio	Rank
TN001277	HWB5	36.0817	-89.3206	0.817	1169

Appendix G. Seismic Hazard Maps for Individual Counties



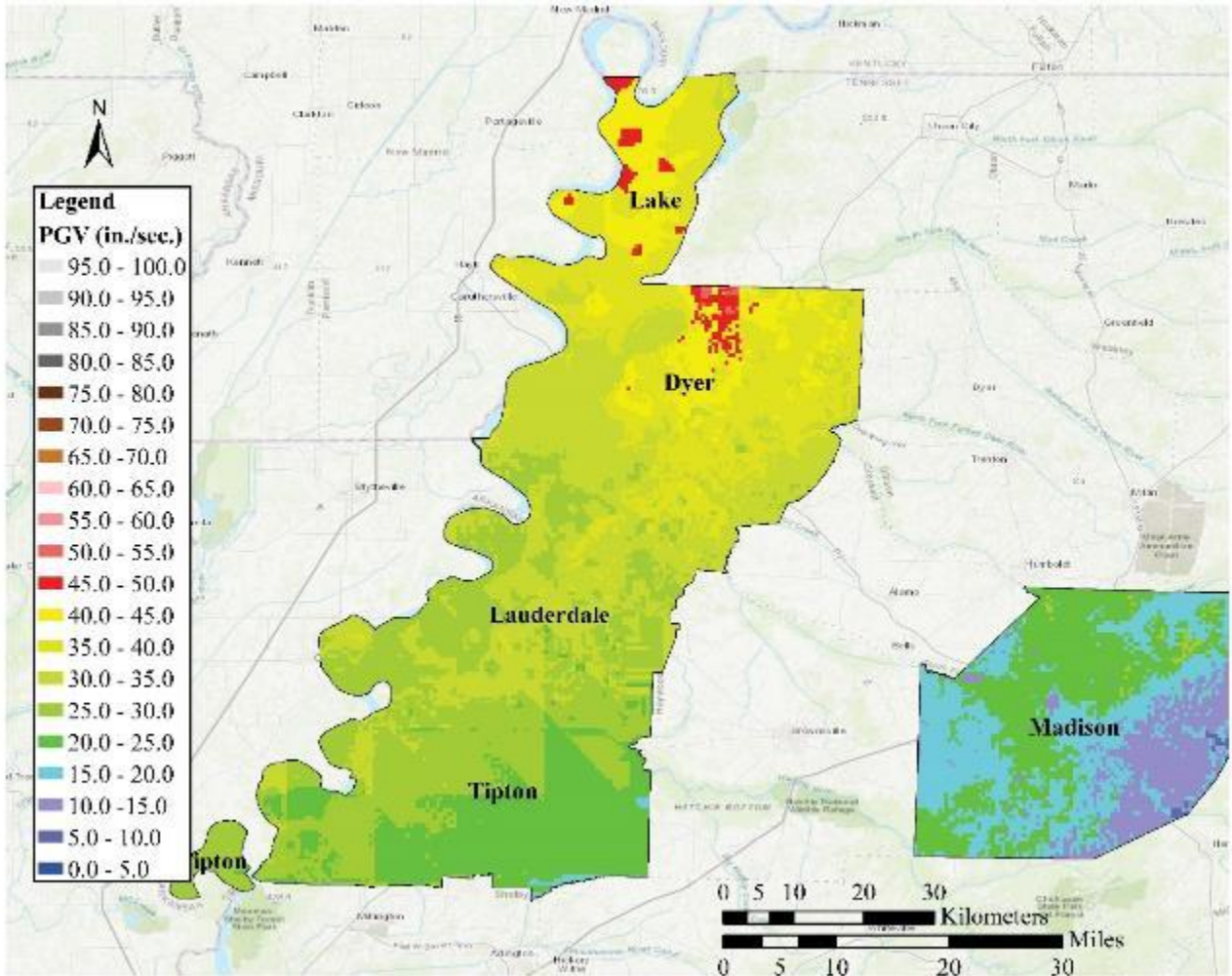
(Cramer, et al., 2022)

Figure G.1 University of Memphis CERI S_a 0.3 sec. for 2% in 50-year POE, Scaling from CERI Report



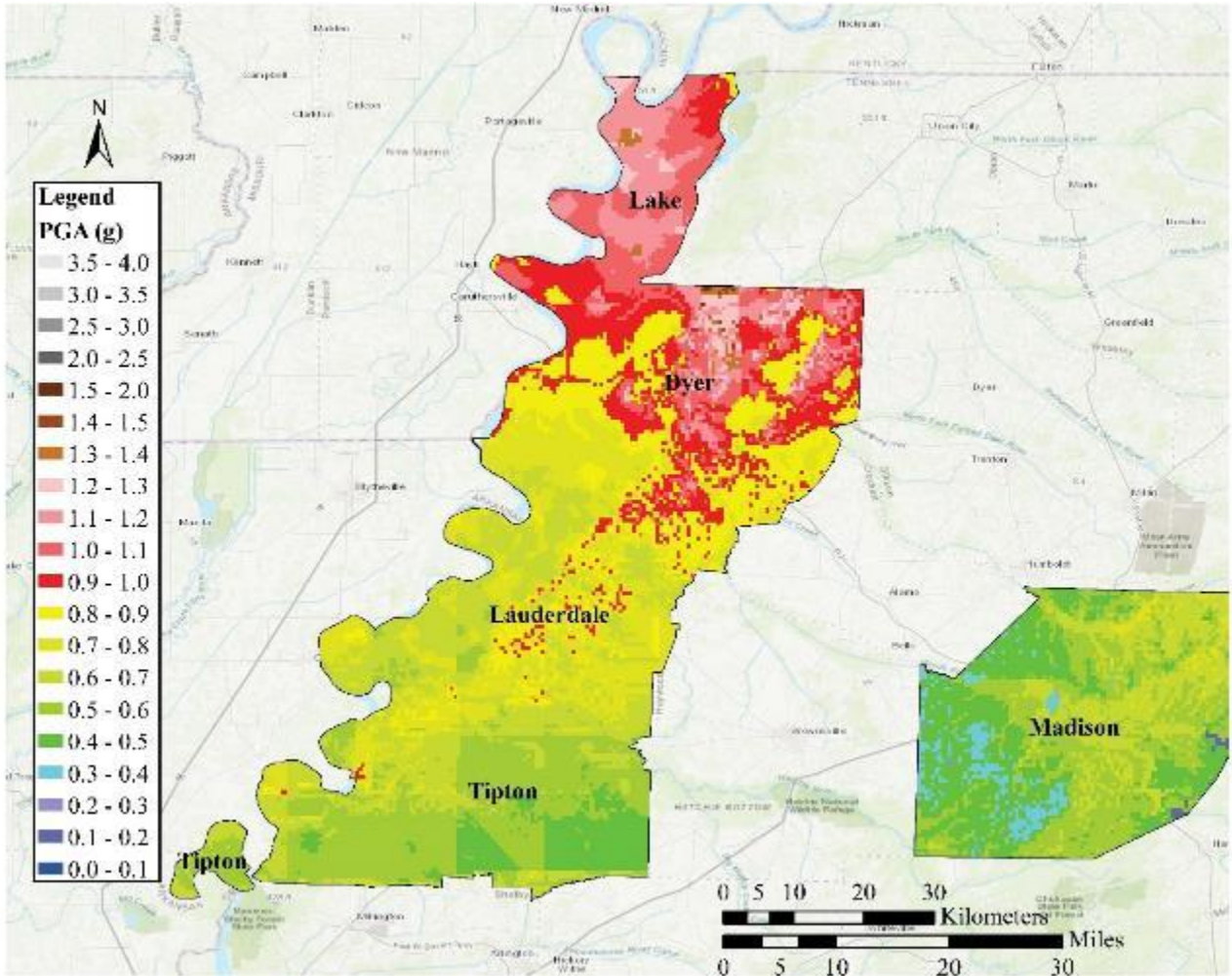
(Cramer, et al., 2022)

Figure G.2 University of Memphis CERl Sa 1.0 sec. for 2% in 50-year POE, Scaling from CERl Report



(Cramer, et al., 2022)

Figure G.3 University of Memphis CERI PGV for 2% in 50-year POE, Scaling from CERI Report



(Cramer, et al., 2022)

Figure G.4 University of Memphis CERl PGA for 2% in 50-year POE, Scaling from CERl Report

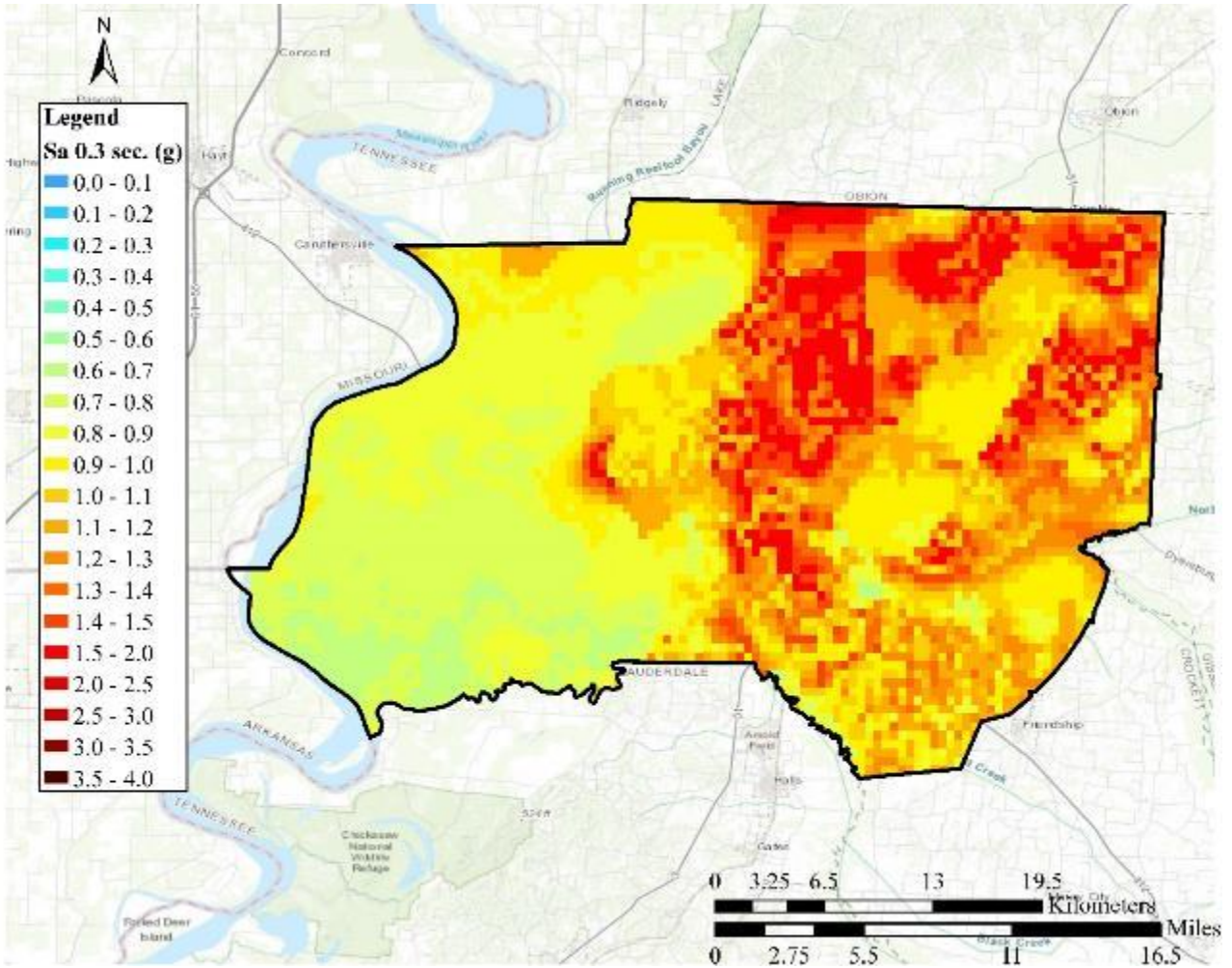


Figure G.5 University of Memphis CERI Sa 0.3 sec. for 2% in 50-year POE, Dyer County

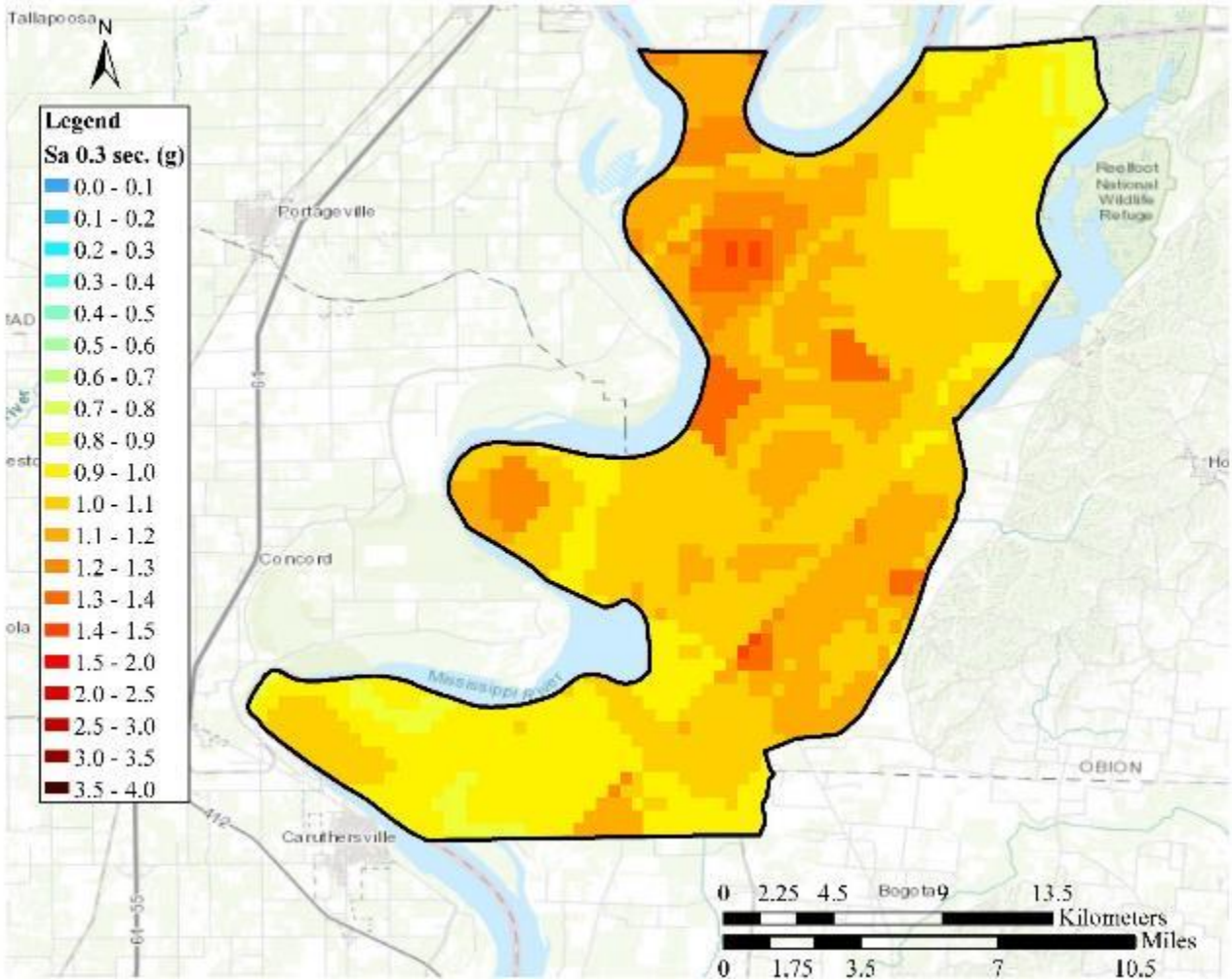


Figure G.6 University of Memphis CERI S_a 0.3 sec. for 2% in 50-year POE, Lake County

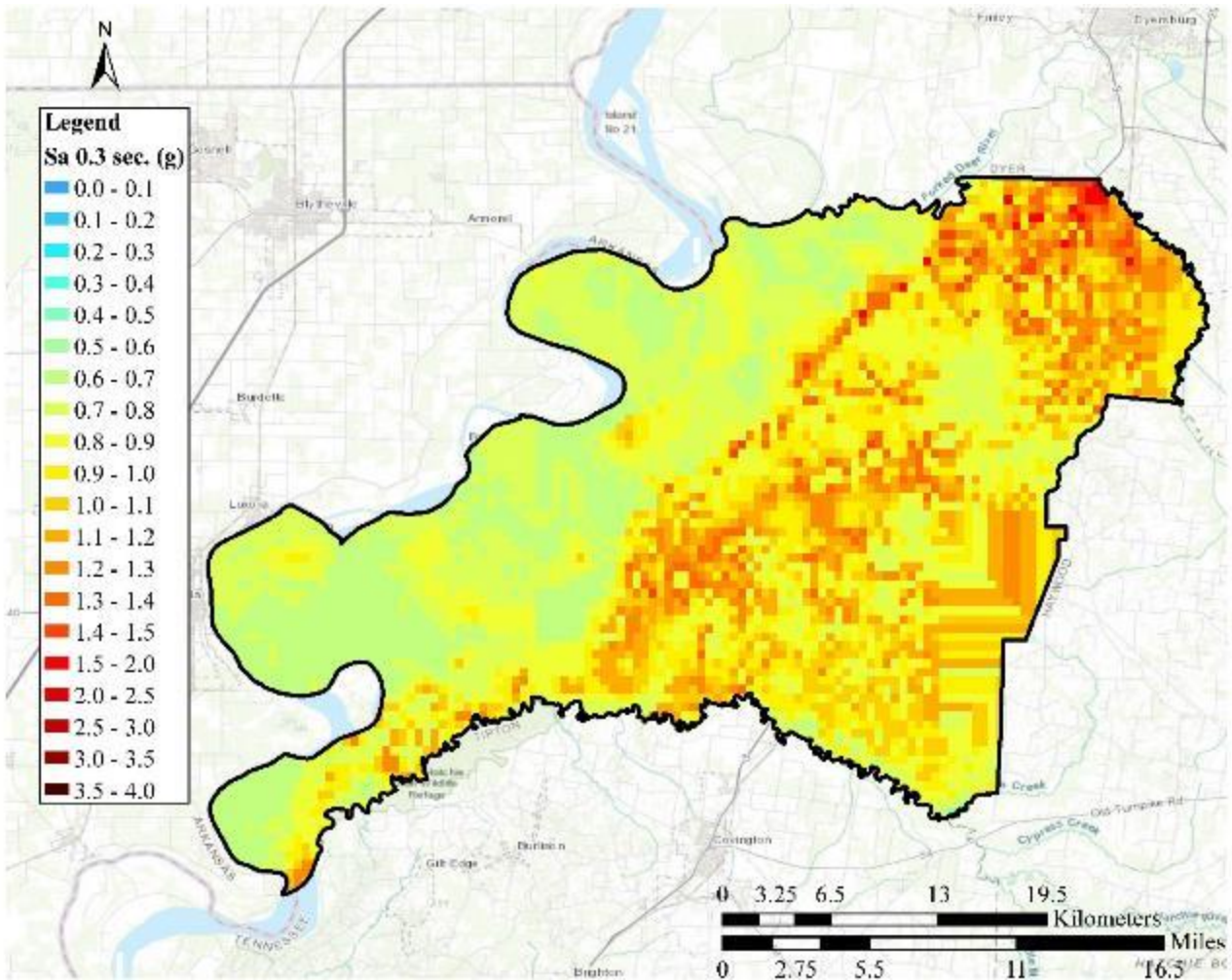


Figure G.7 University of Memphis CERl Sa 0.3 sec. for 2% in 50-year POE, Lauderdale County

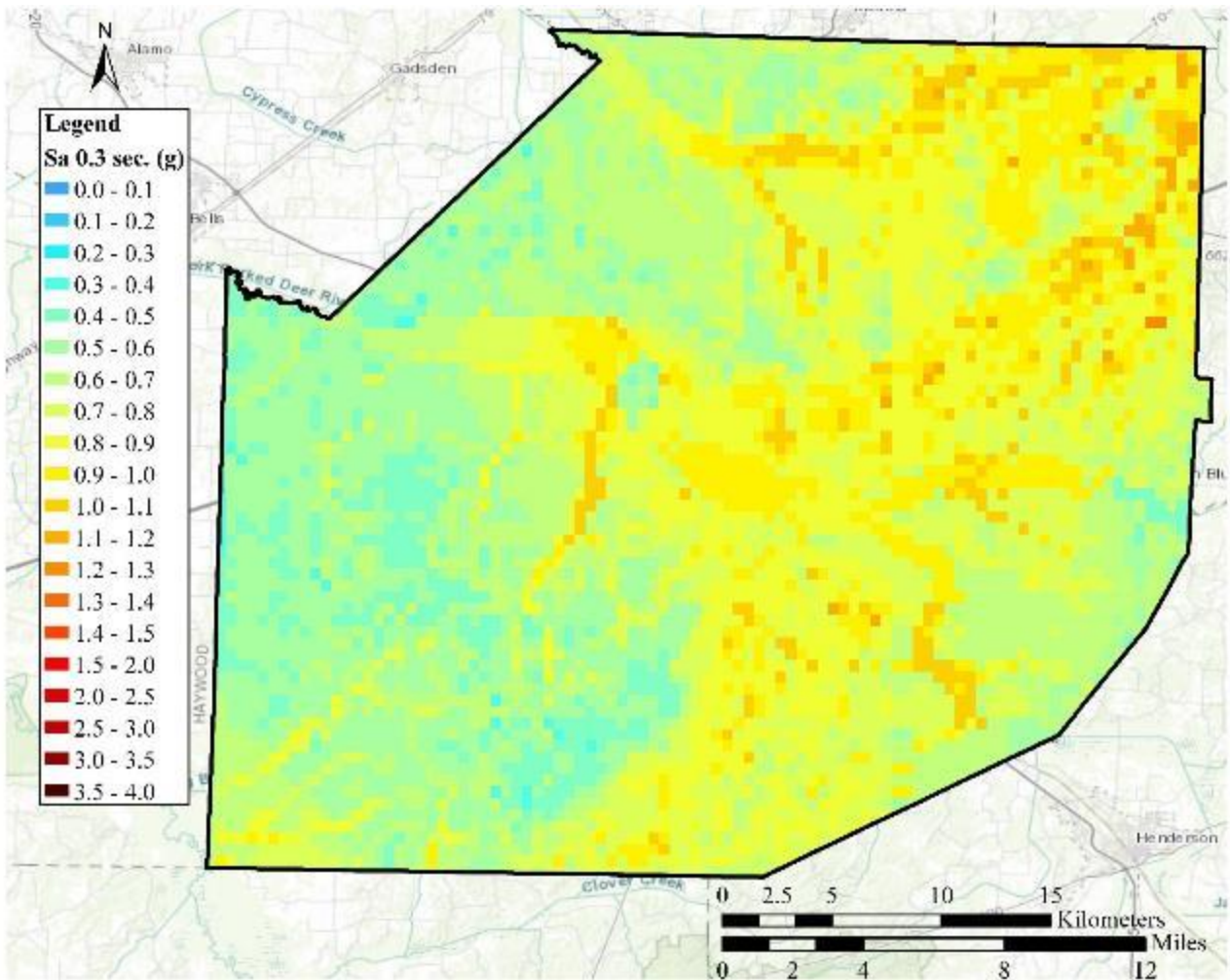


Figure G.8 University of Memphis CERl S_a 0.3 sec. for 2% in 50-year POE, Madison County

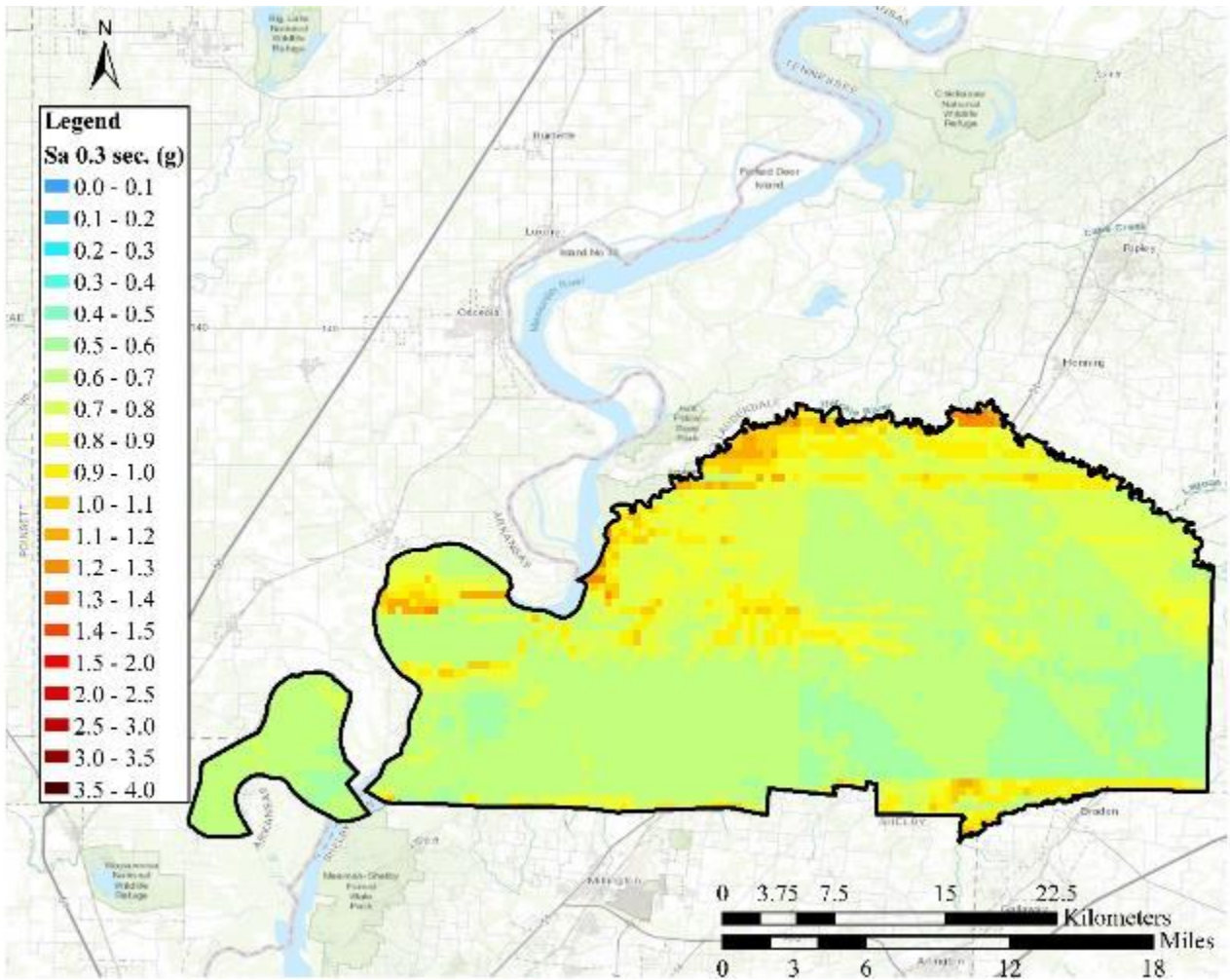


Figure G.9 University of Memphis CERI Sa 0.3 sec. for 2% in 50-year POE, Tipton County

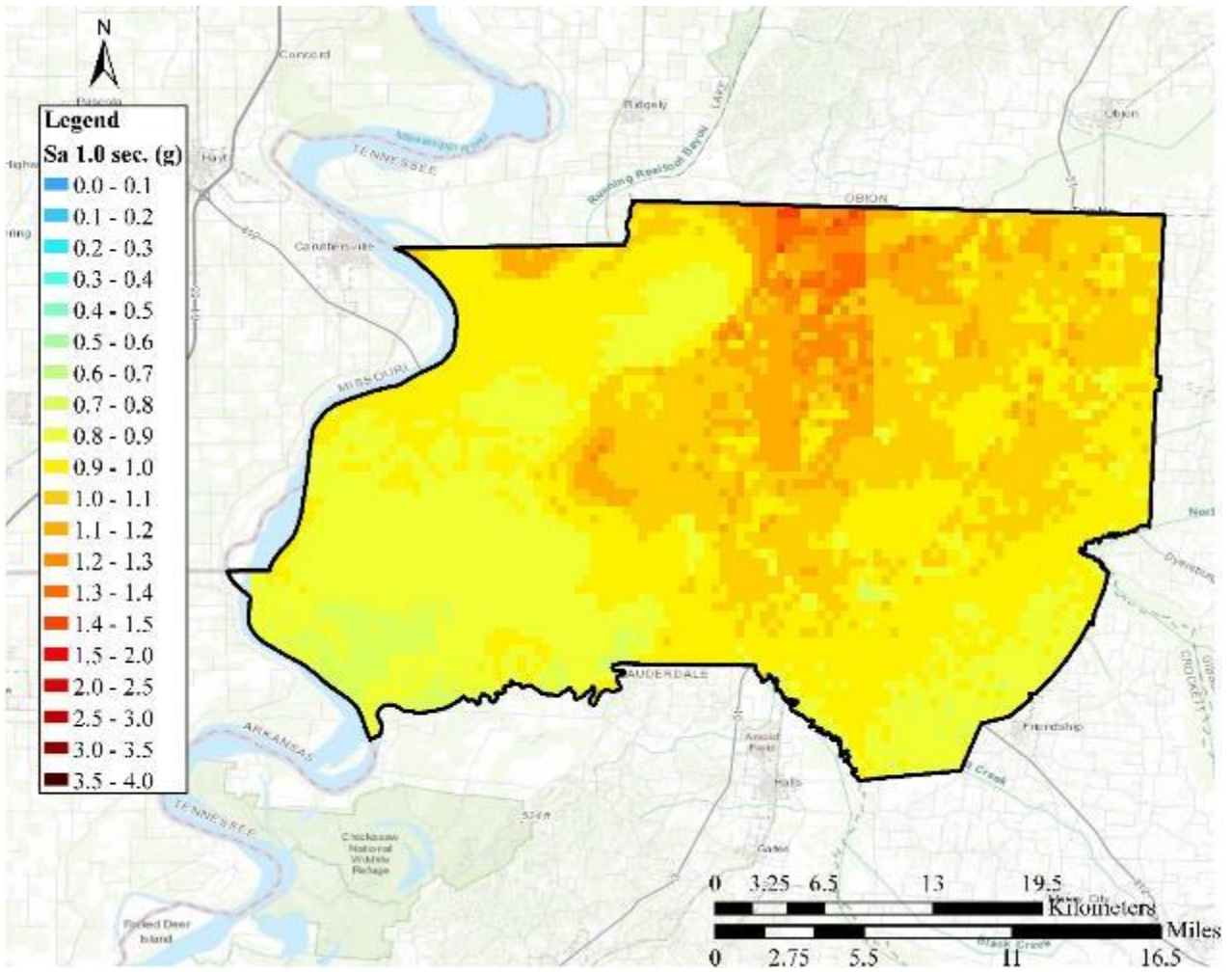


Figure G.10 University of Memphis CERI S_a 1.0 sec. for 2% in 50-year POE, Dyer County

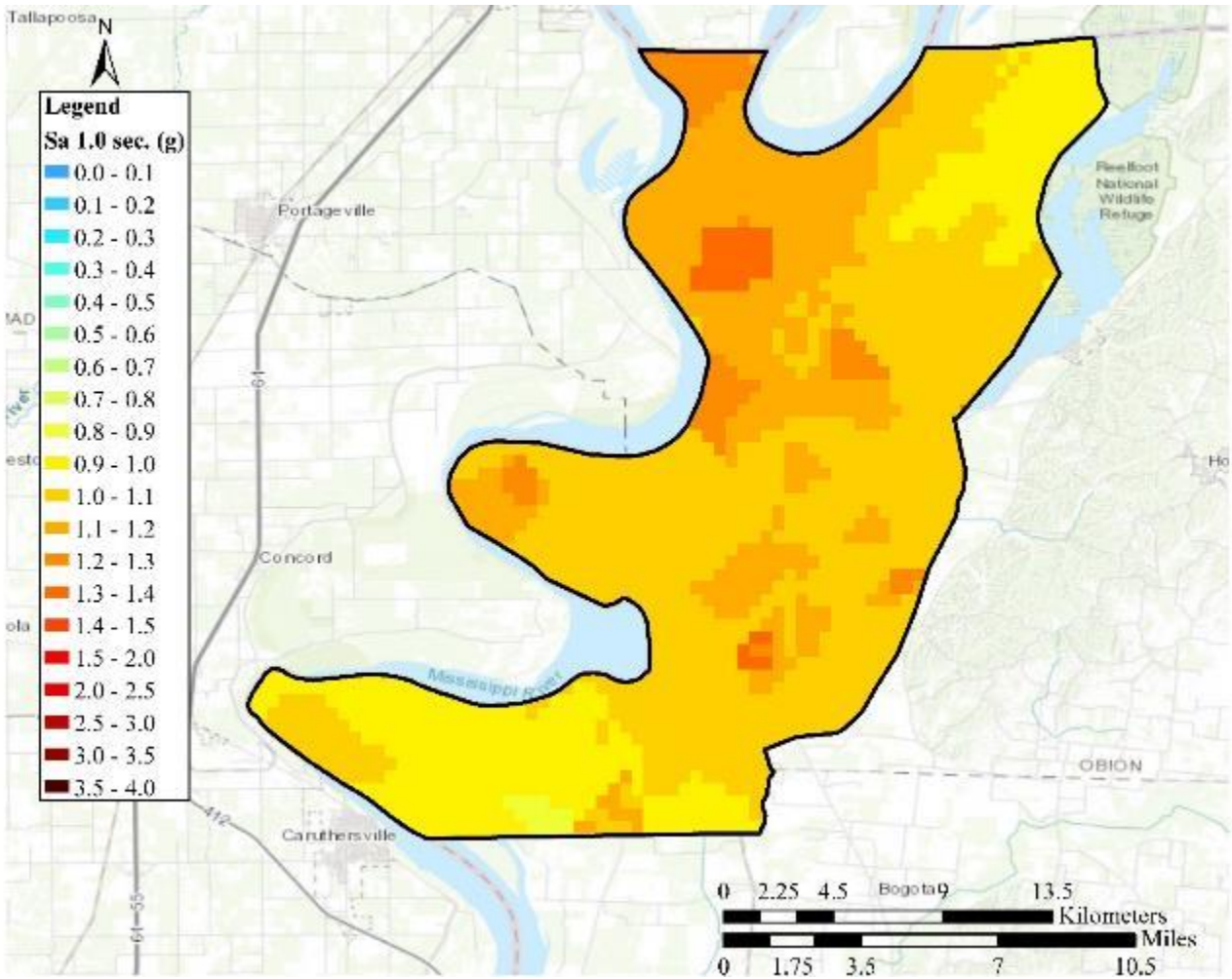


Figure G.11 University of Memphis CERl S_a 1.0 sec. for 2% in 50-year POE, Lake County

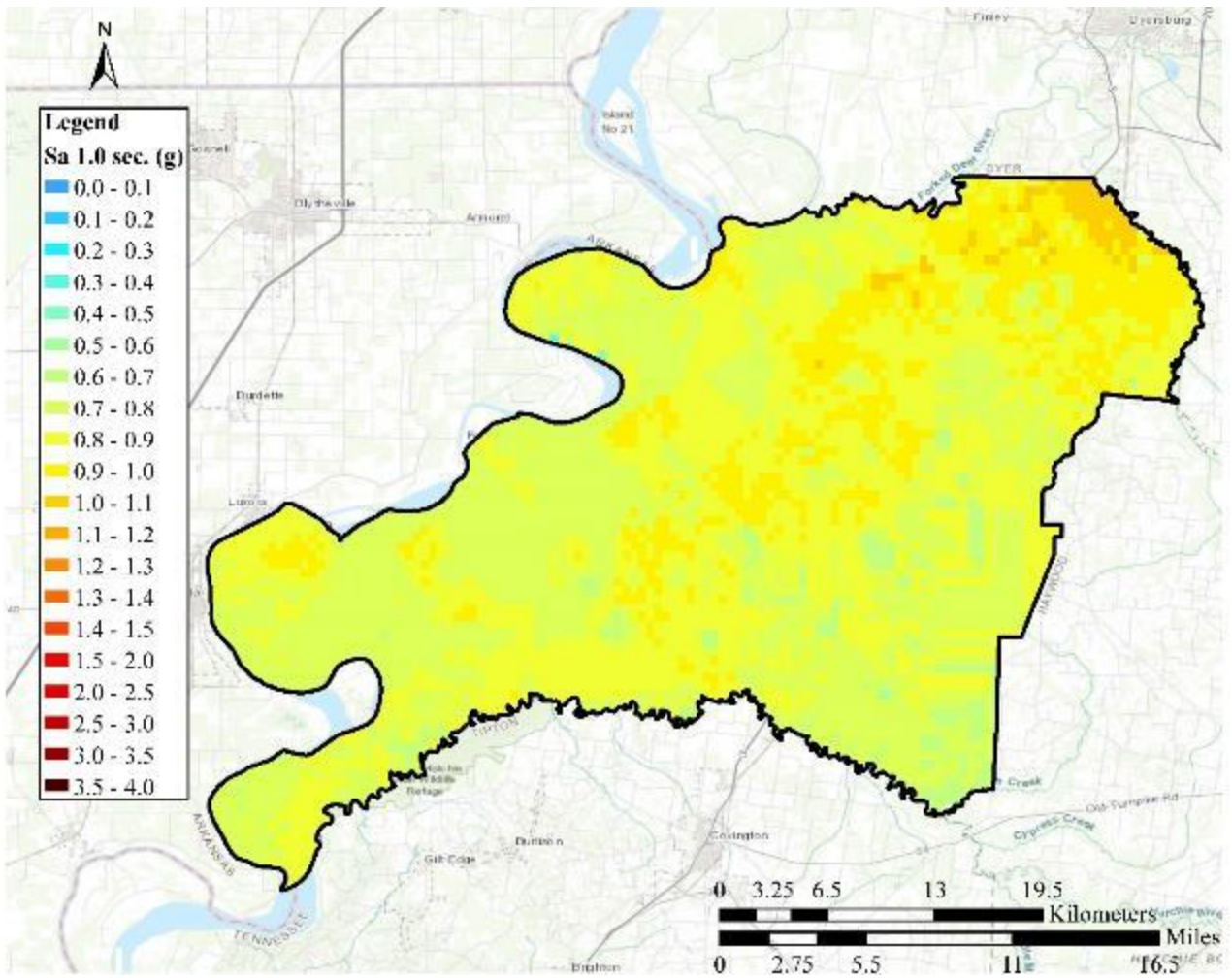


Figure G.12 University of Memphis CERl Sa 1.0 sec. for 2% in 50-year POE, Lauderdale County

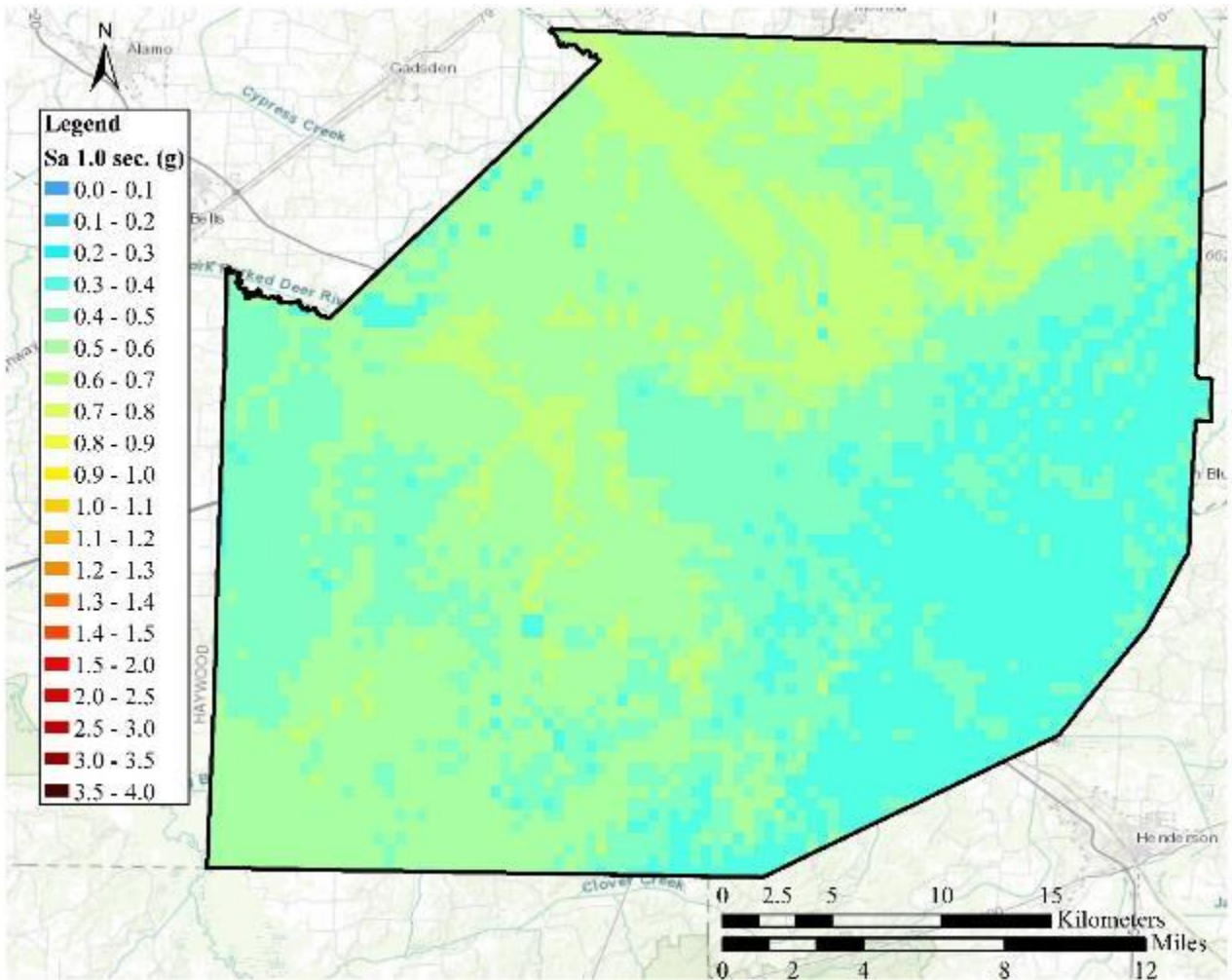


Figure G.13 University of Memphis CERI S_a 1.0 sec. for 2% in 50-year POE, Madison County

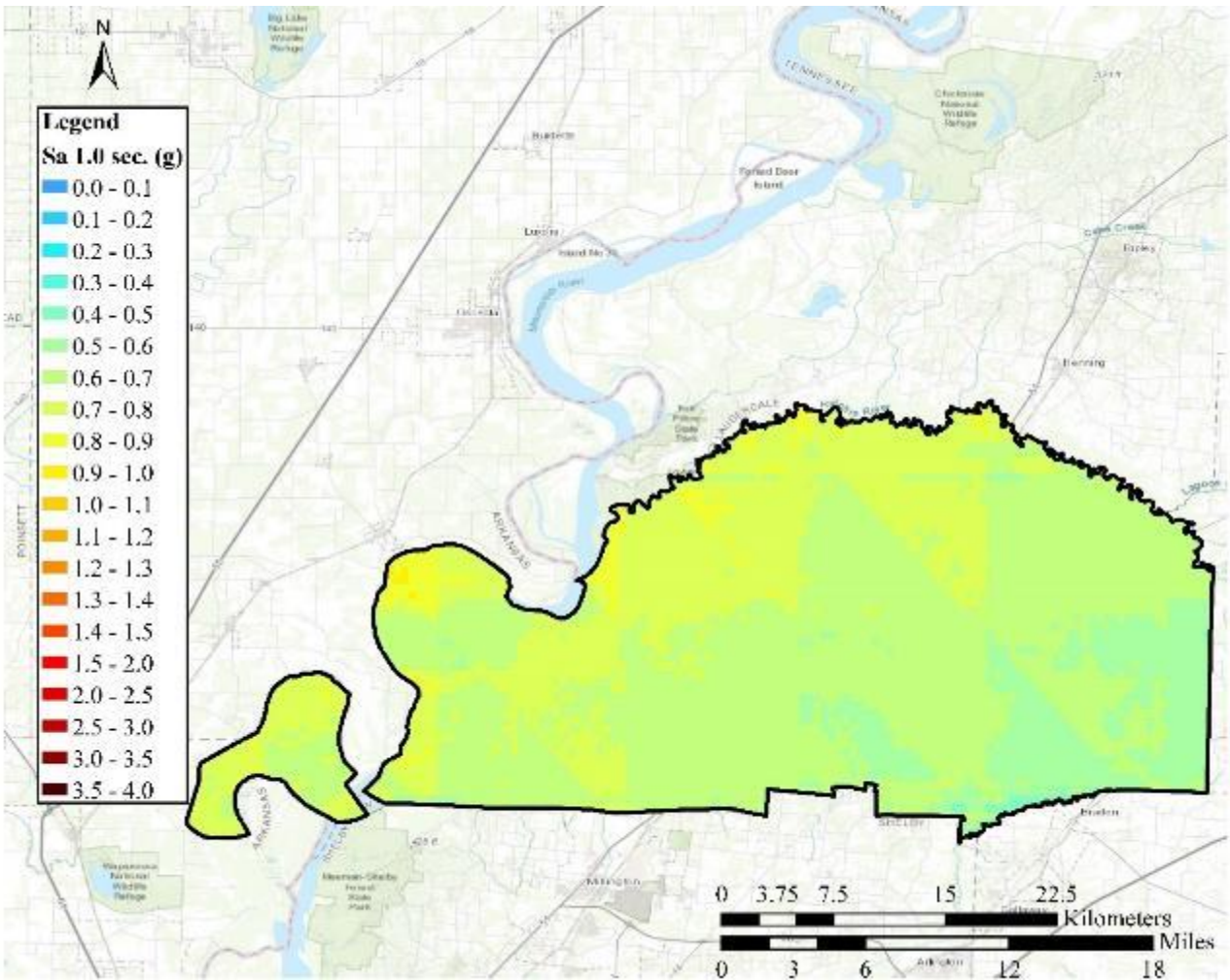


Figure G.14 University of Memphis CERI Sa 1.0 sec. for 2% in 50-year POE, Tipton County

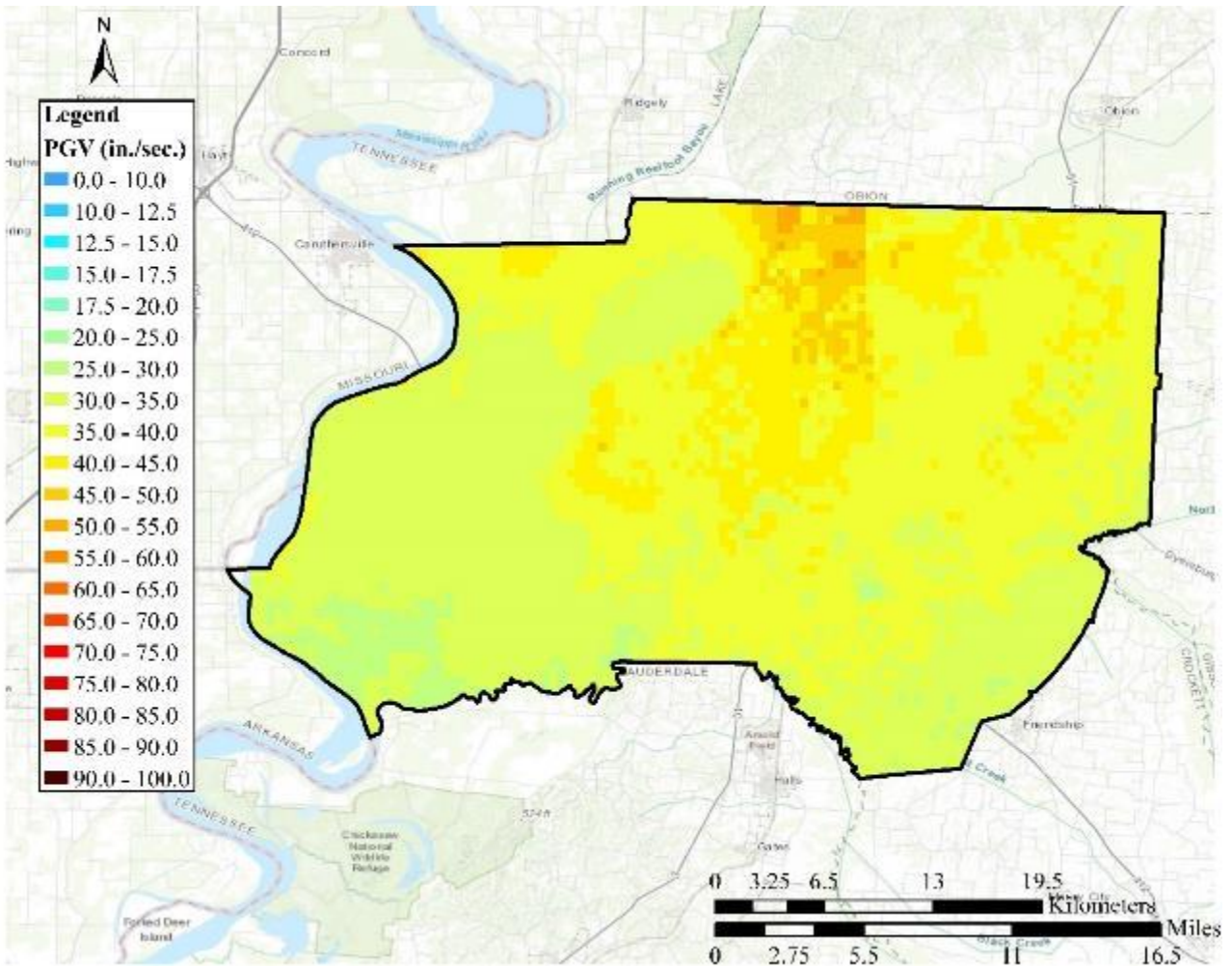


Figure G.15 University of Memphis CERl PGV for 2% in 50-year POE, Dyer County

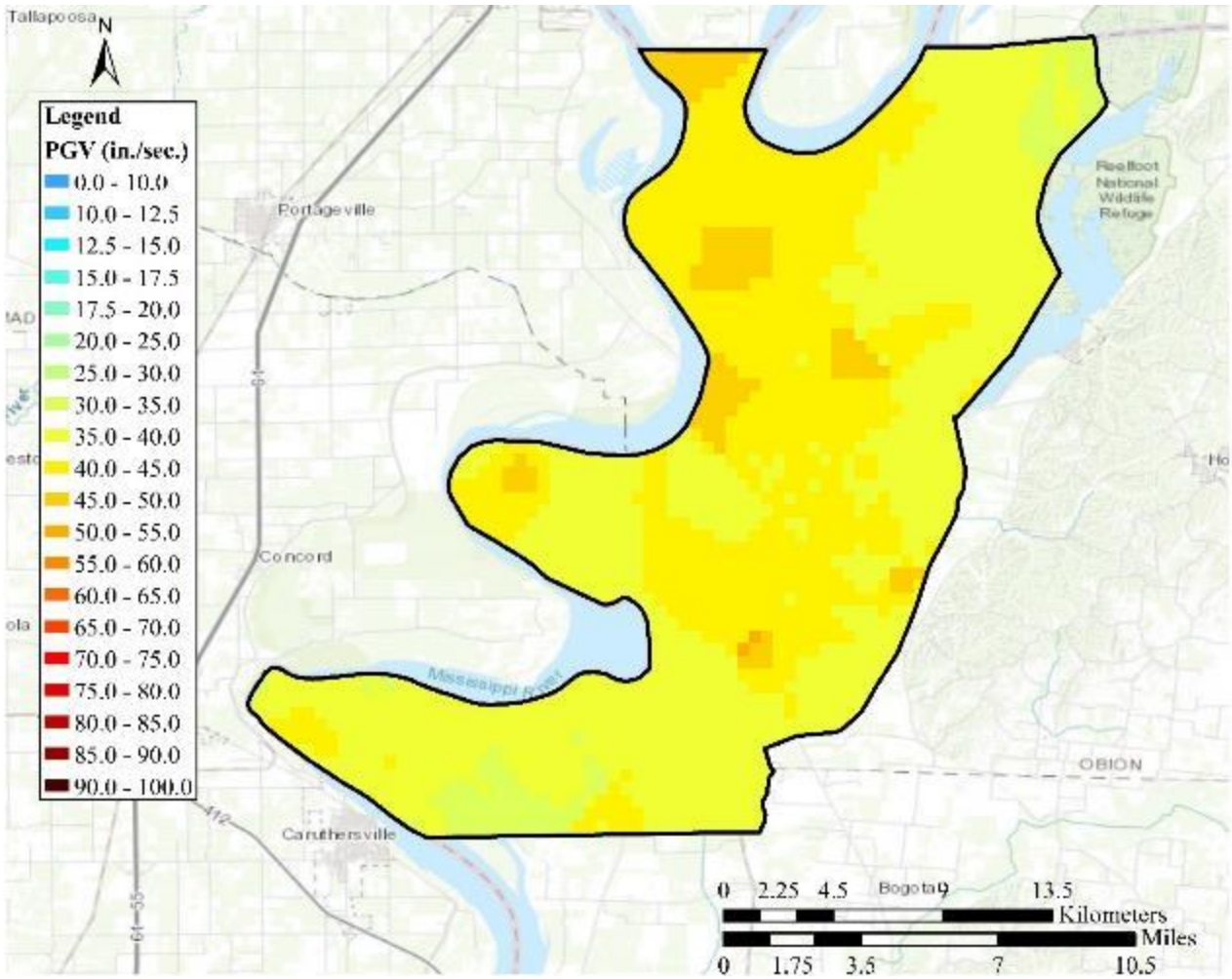


Figure G.16 University of Memphis CERl PGV for 2% in 50-year POE, Lake County

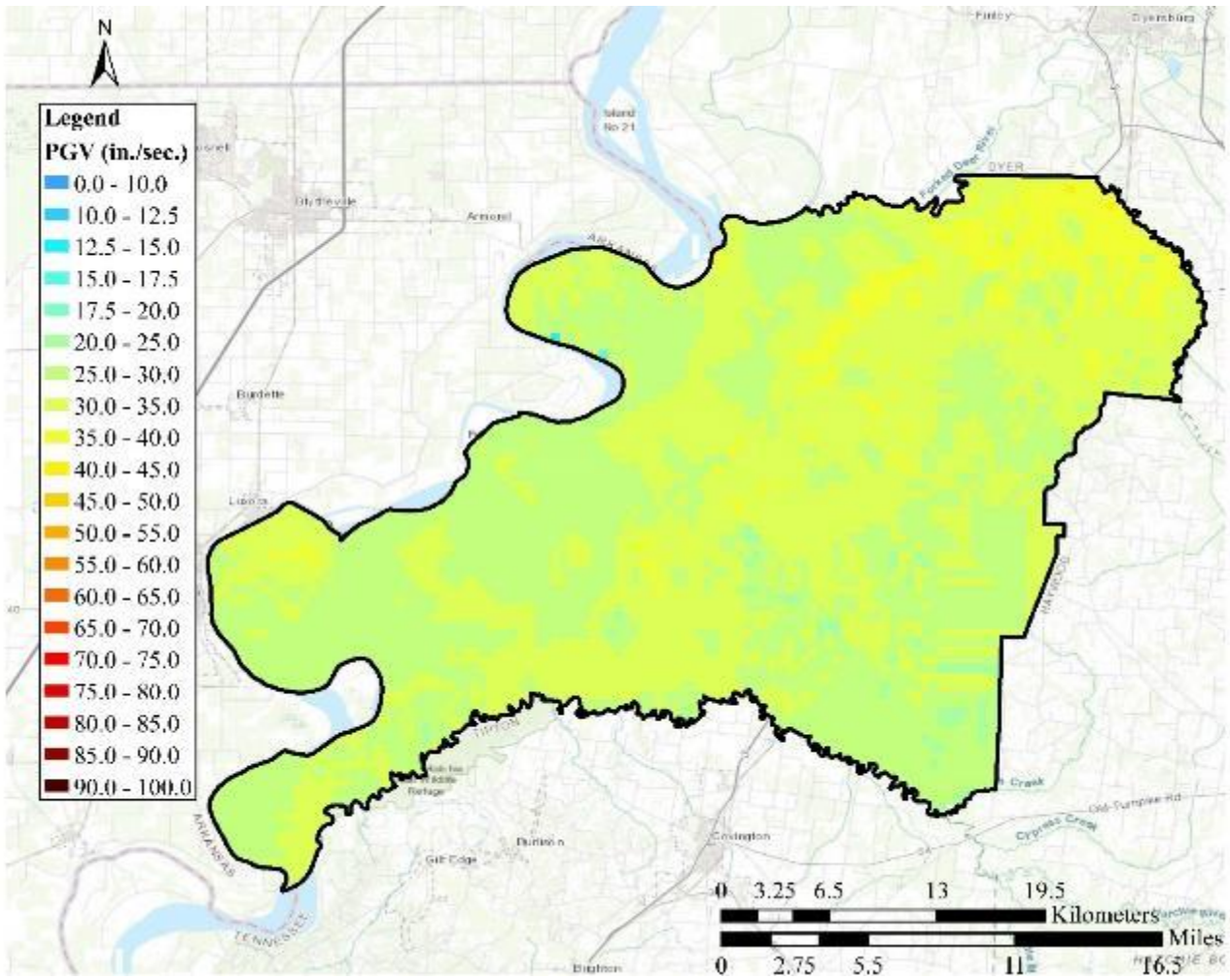


Figure G.17 University of Memphis CERl PGV for 2% in 50-year POE, Lauderdale County

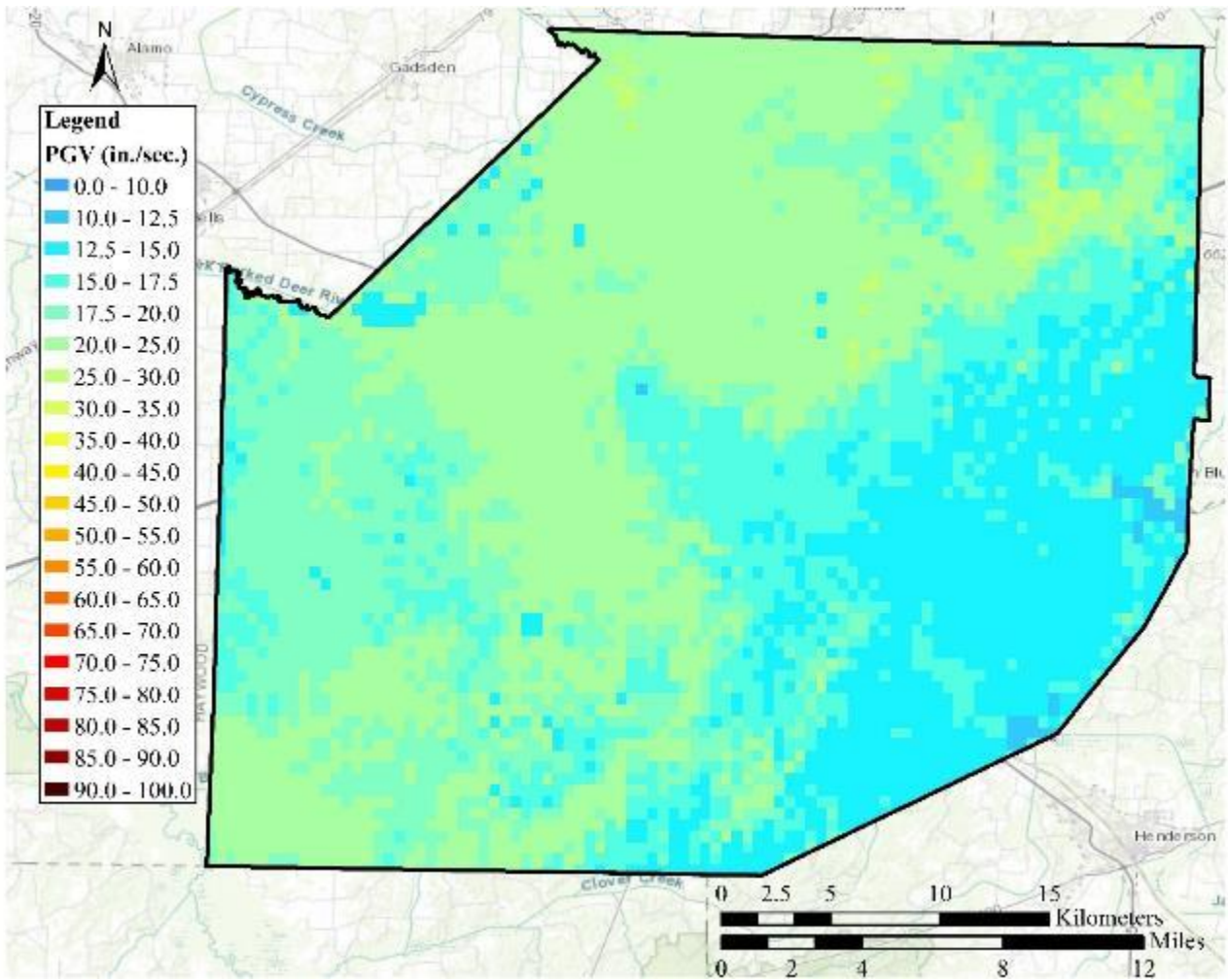


Figure G.18 University of Memphis CERI PGV for 2% in 50-year POE, Madison County

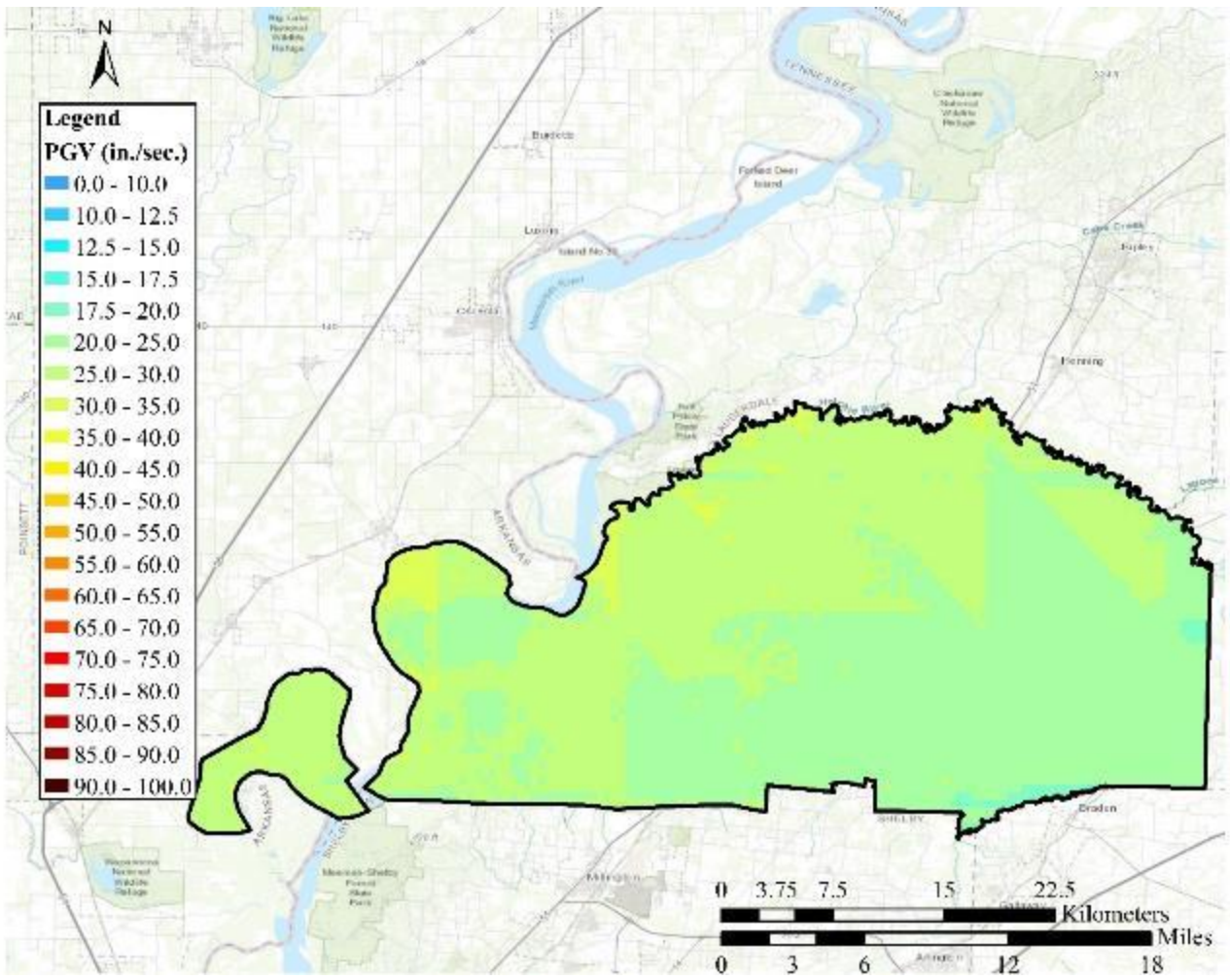


Figure G.19 University of Memphis CERI PGV for 2% in 50-year POE, Tipton County

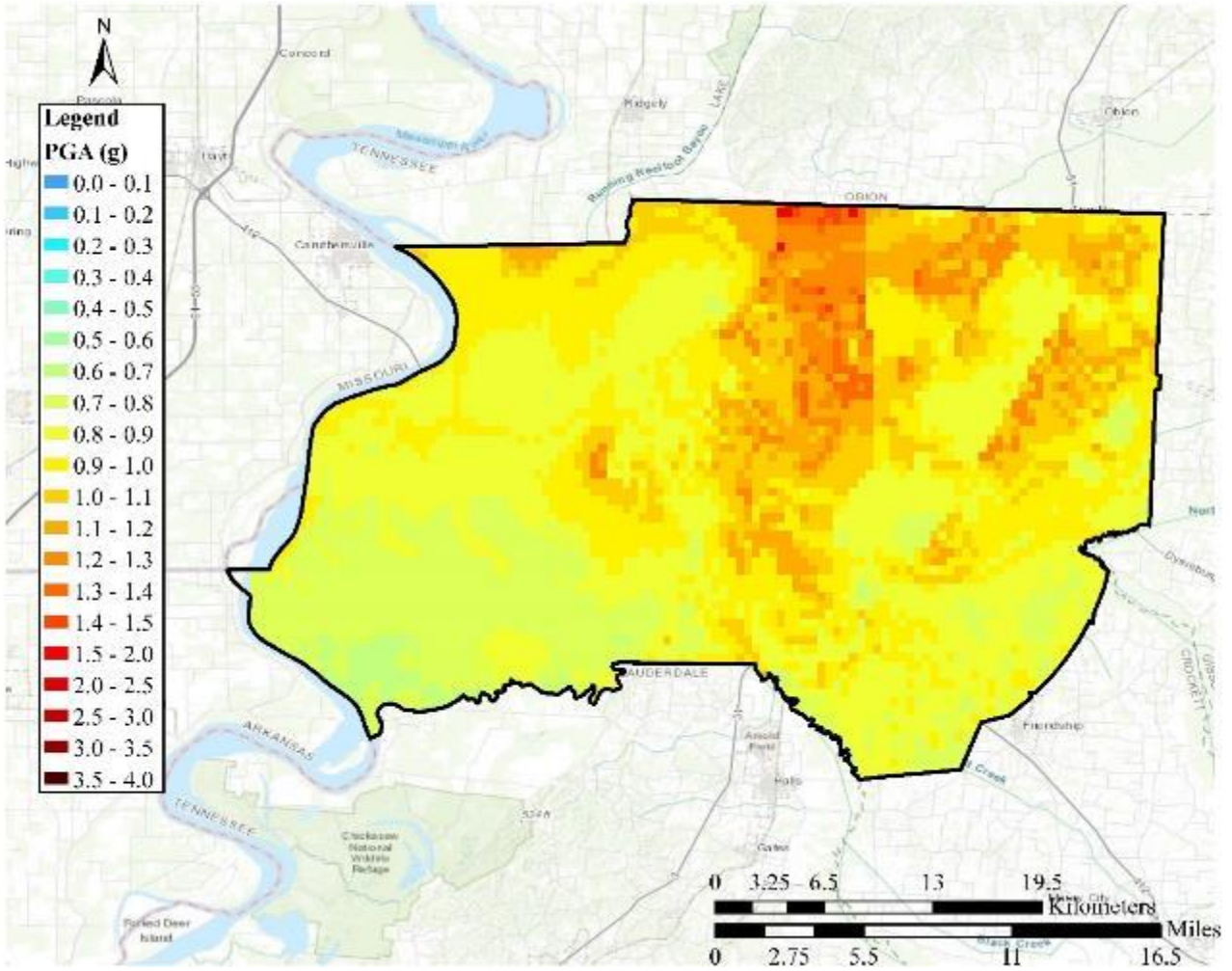


Figure G.20 University of Memphis CERI PGA for 2% in 50-year POE, Dyer County

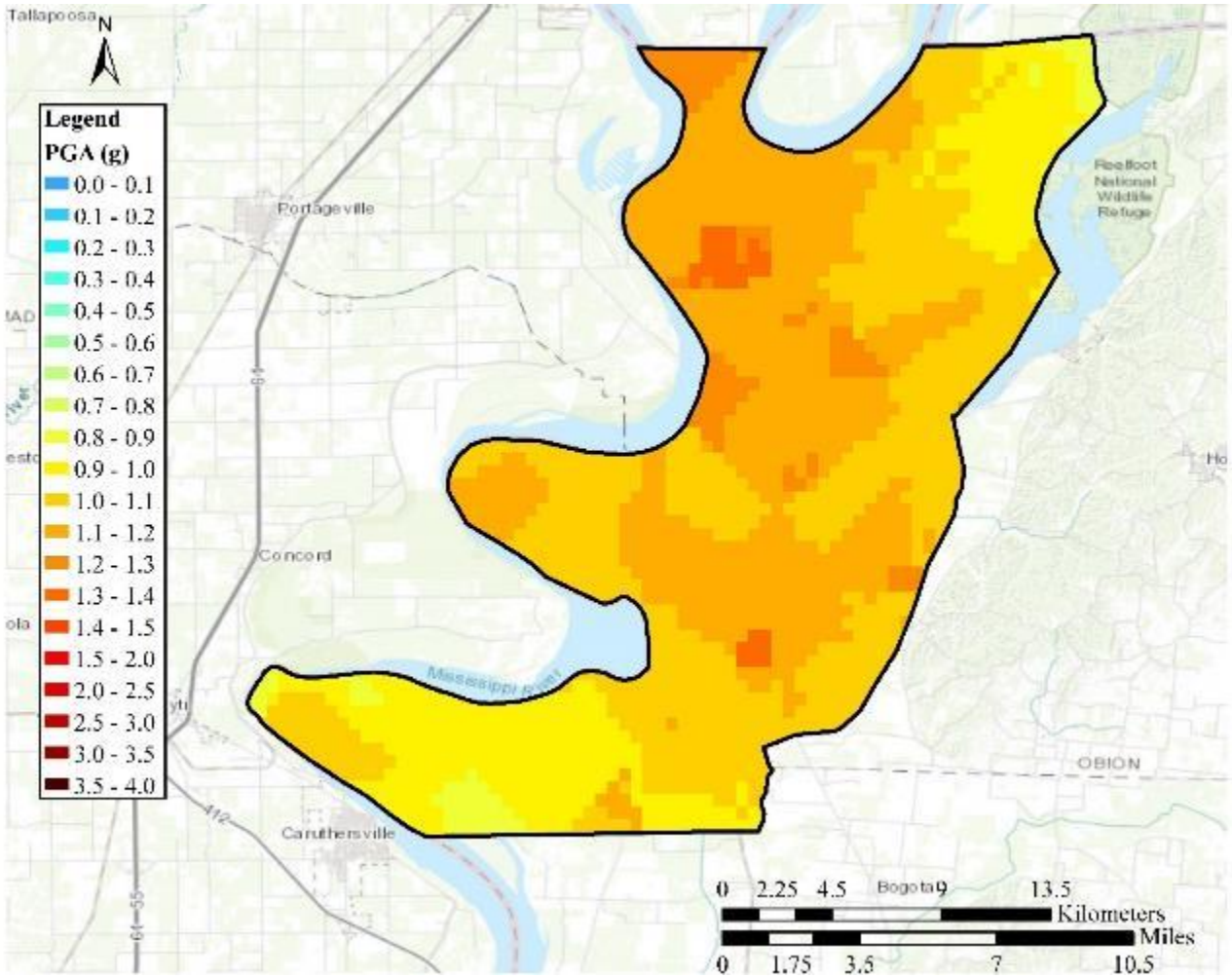


Figure G.21 University of Memphis CERI PGA for 2% in 50-year POE, Lake County

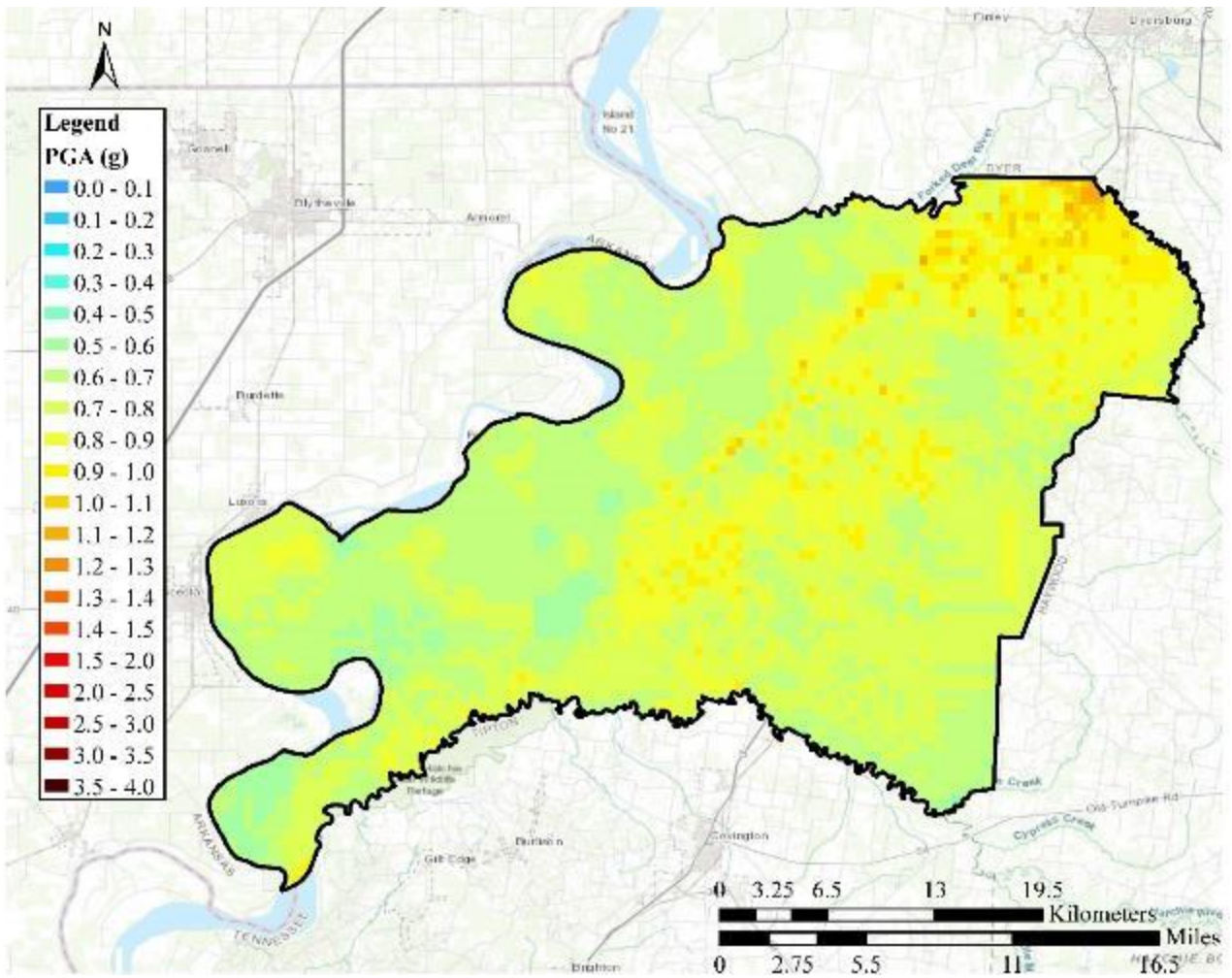


Figure G.22 University of Memphis CERl PGA for 2% in 50-year POE, Lauderdale County

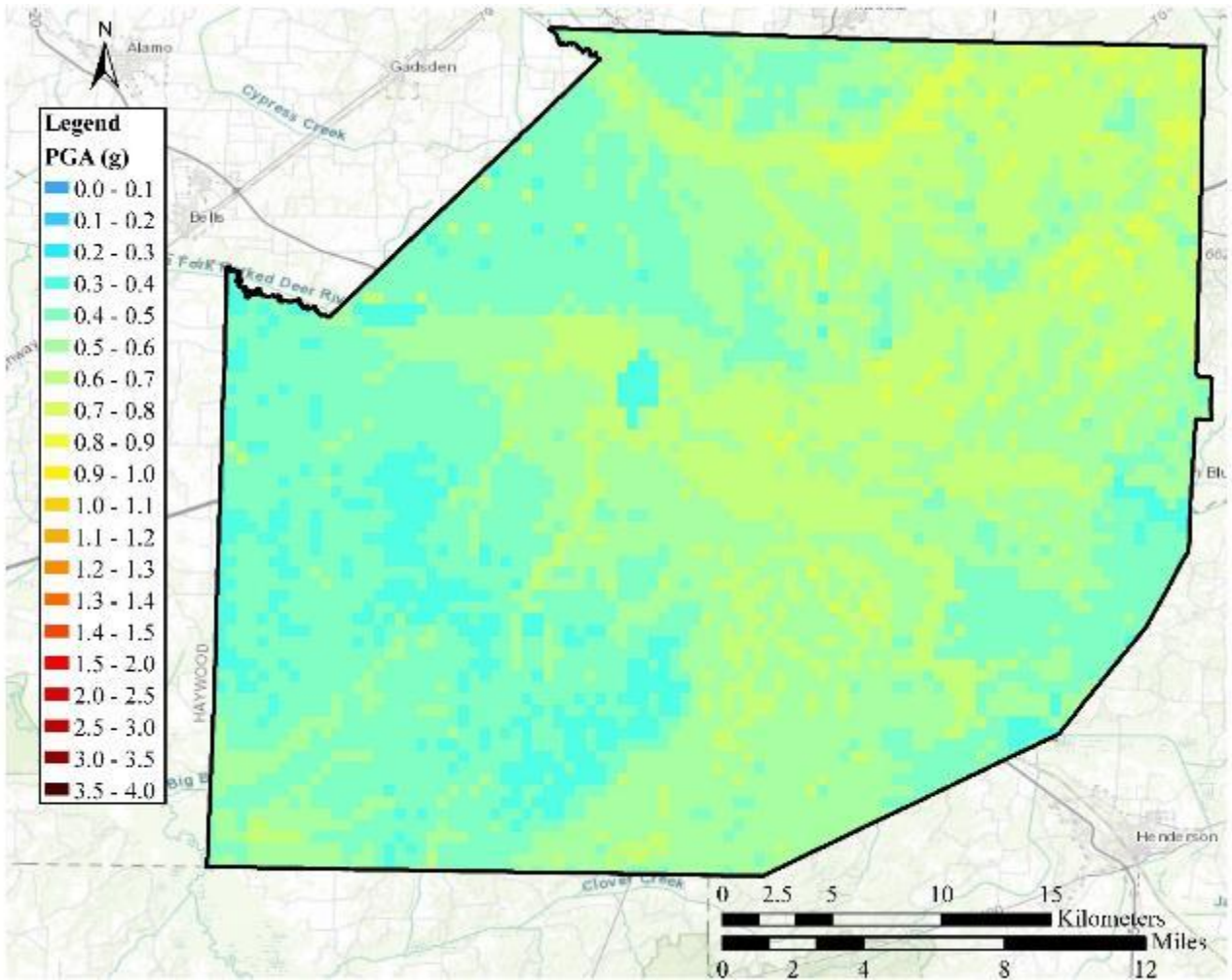


Figure G. 23 University of Memphis CERI PGA for 2% in 50-year POE, Madison County

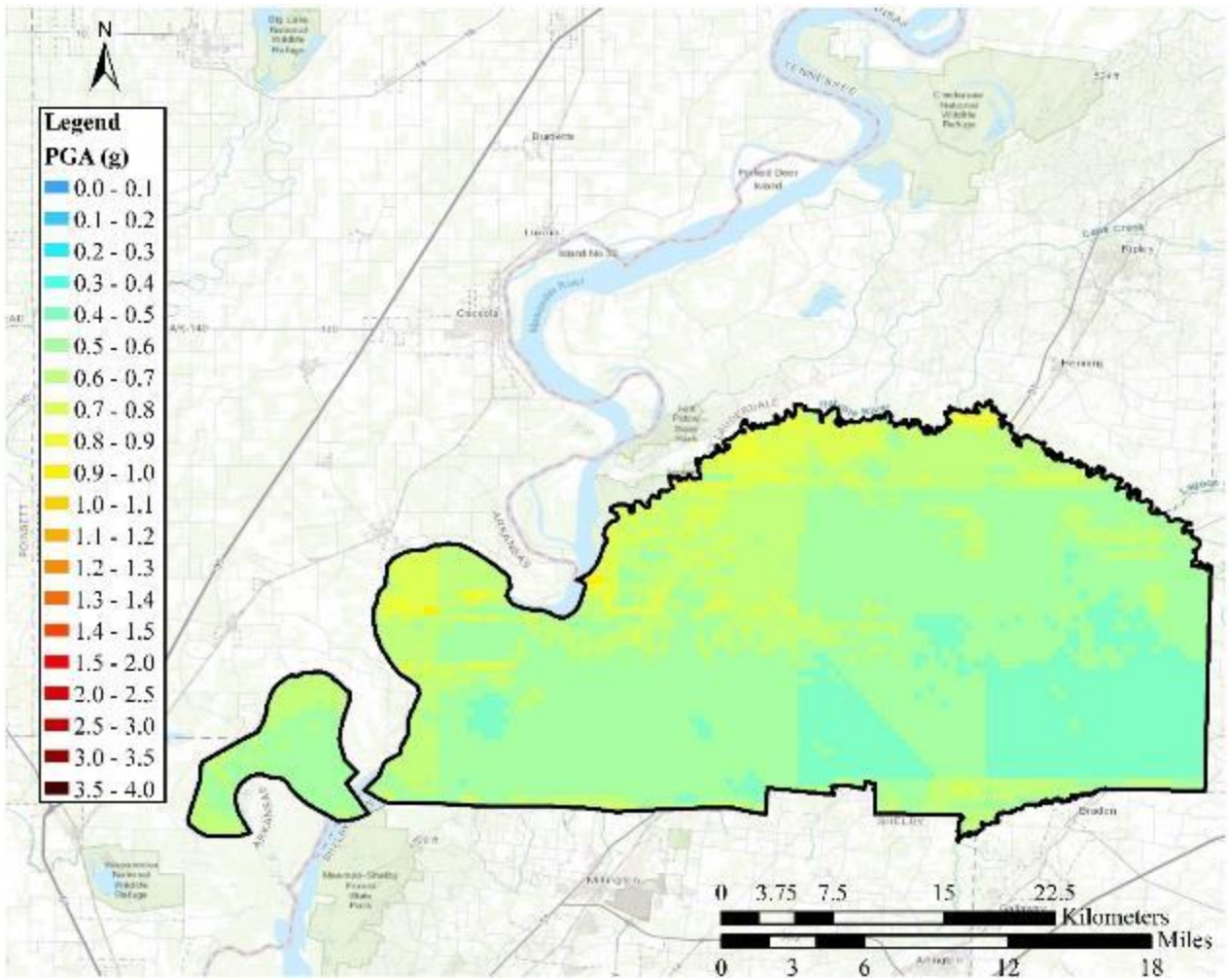


Figure G.24 University of Memphis CERI PGA for 2% in 50-year POE, Tipton County

Appendix H. Probability of Damage Maps for Individual Counties

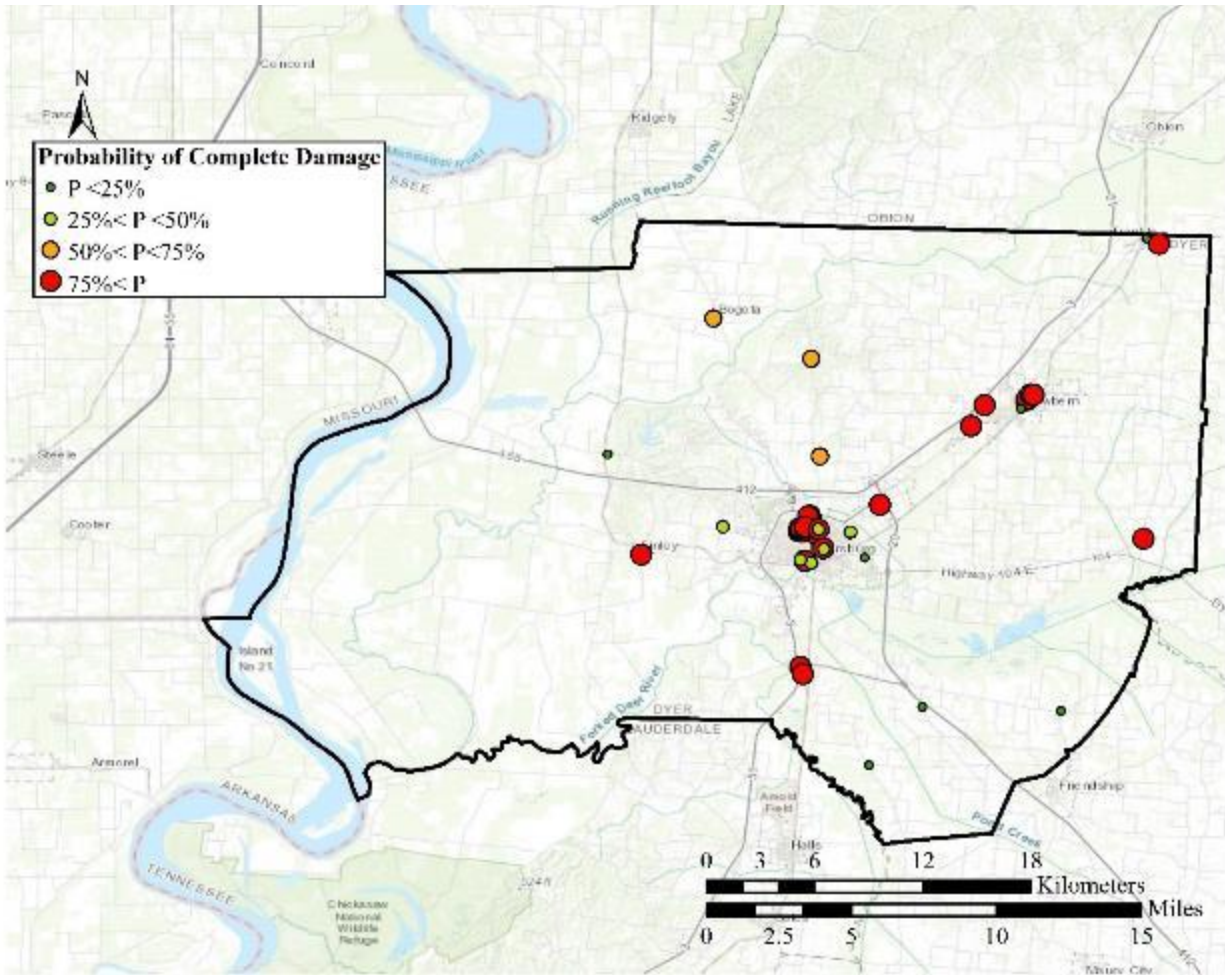


Figure H.1 Probability of Complete Damage for Essential Facilities, Dyer County

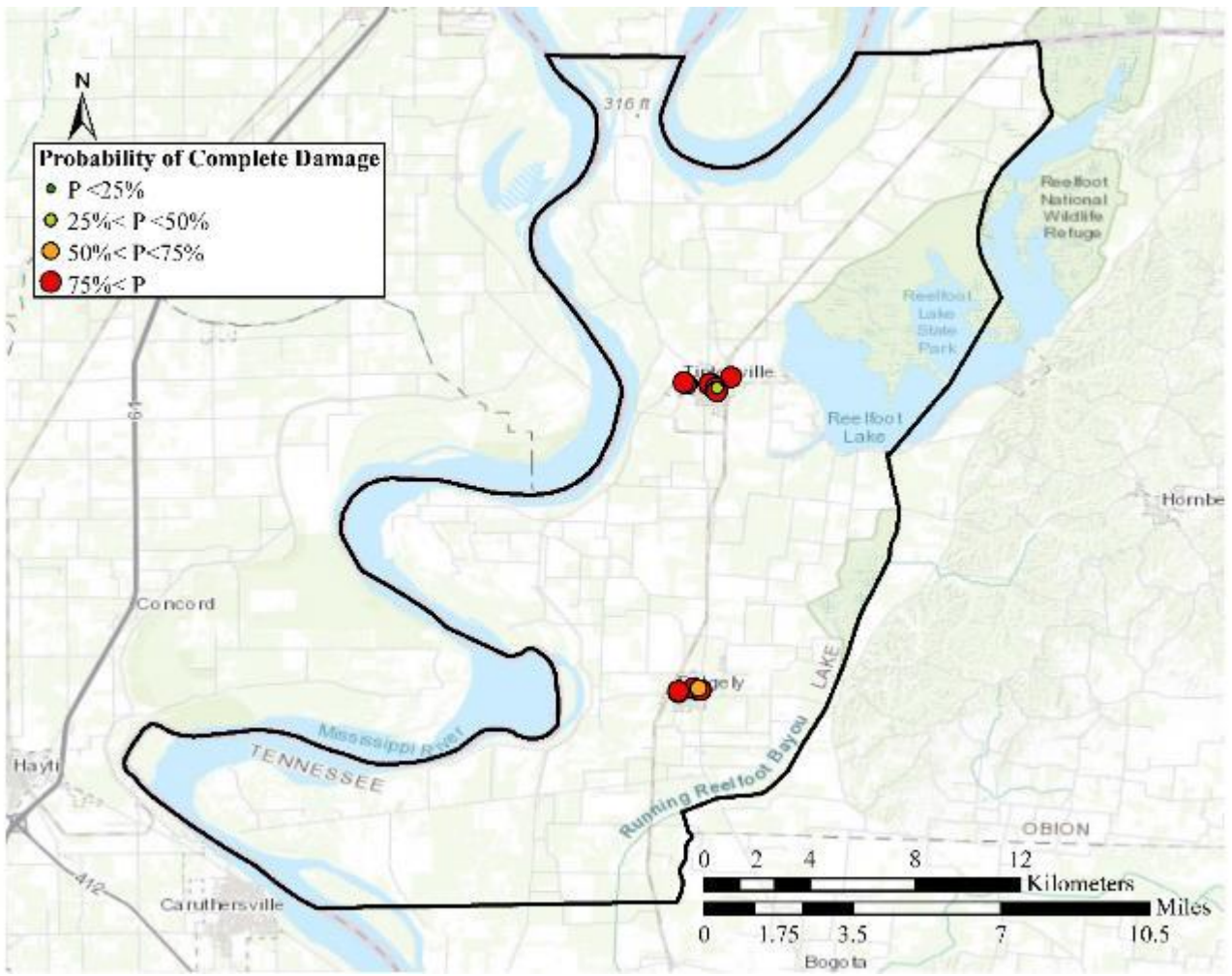


Figure H.2 Probability of Complete Damage for Essential Facilities, Lake County

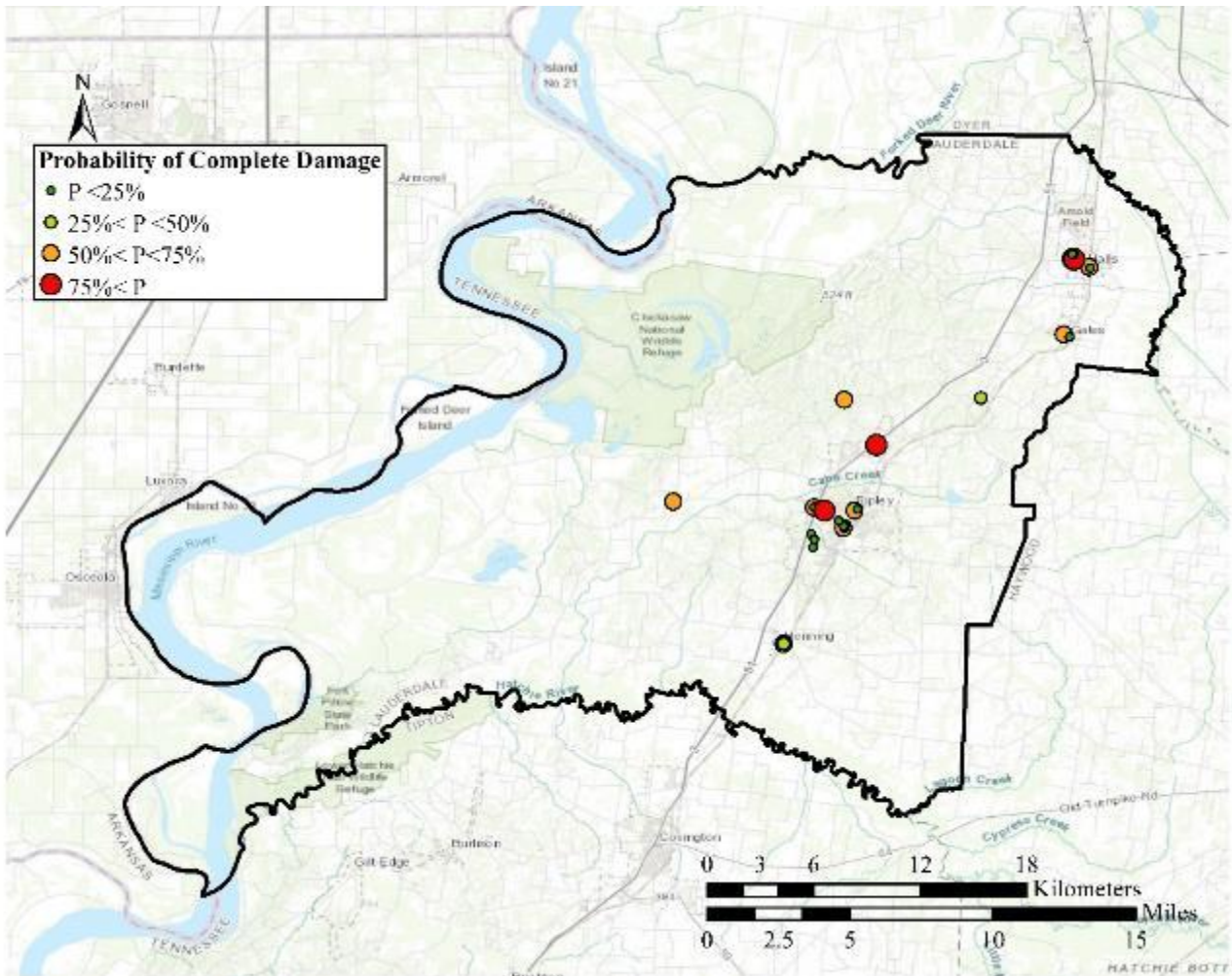


Figure H.3 Probability of Complete Damage for Essential Facilities, Lauderdale County

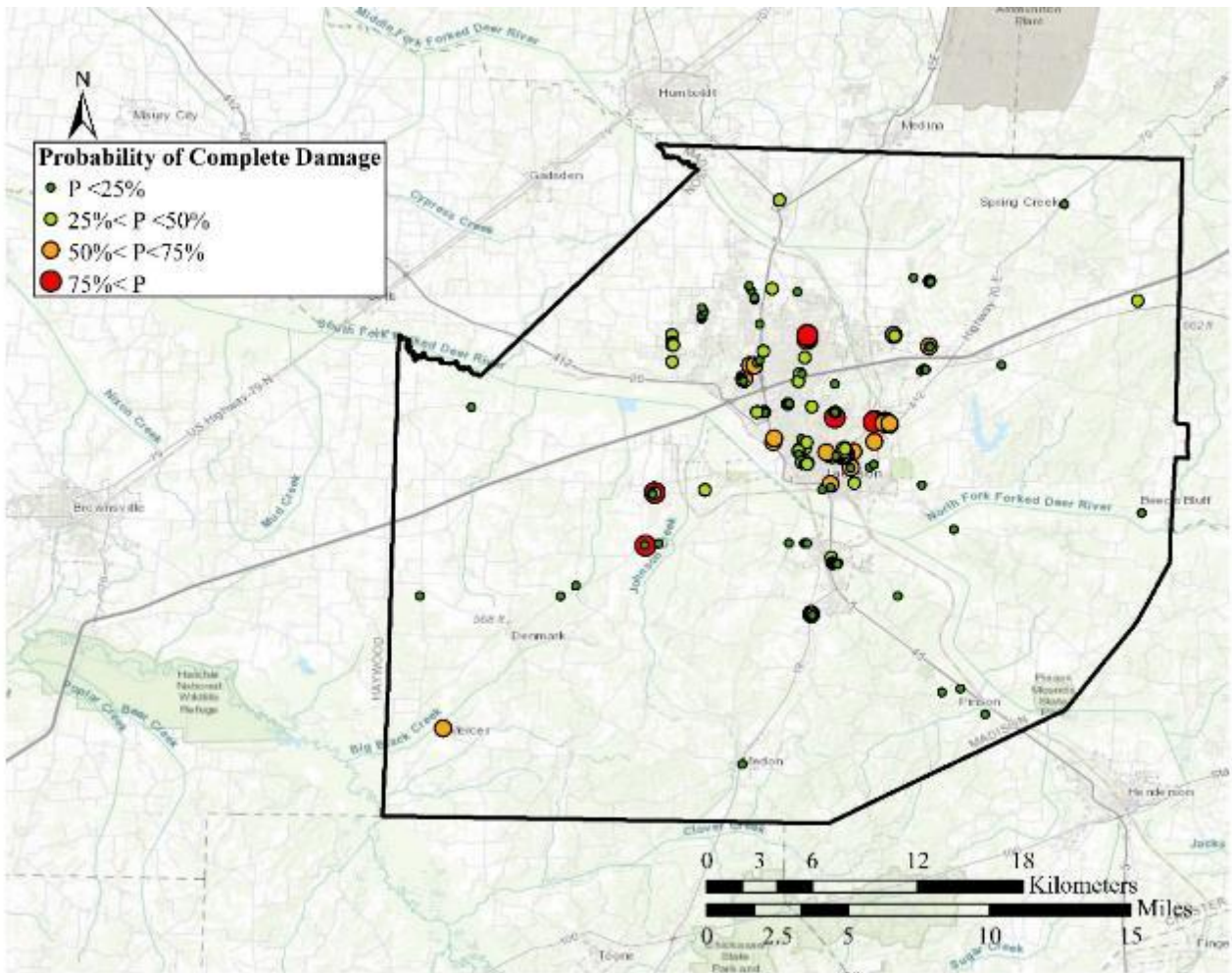


Figure H.4 Probability of Complete Damage for Essential Facilities, Madison County

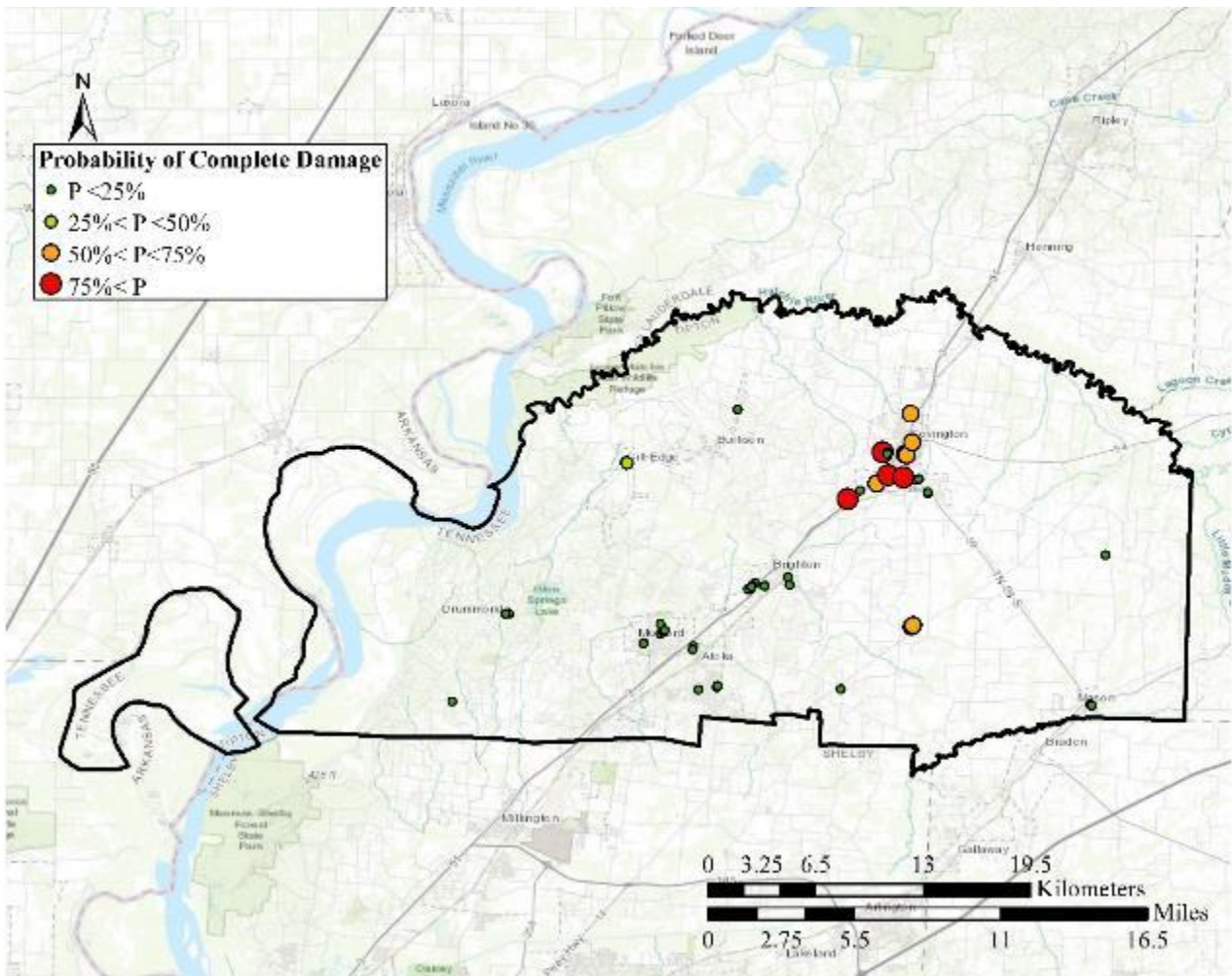


Figure H.5 Probability of Complete Damage for Essential Facilities, Tipton County

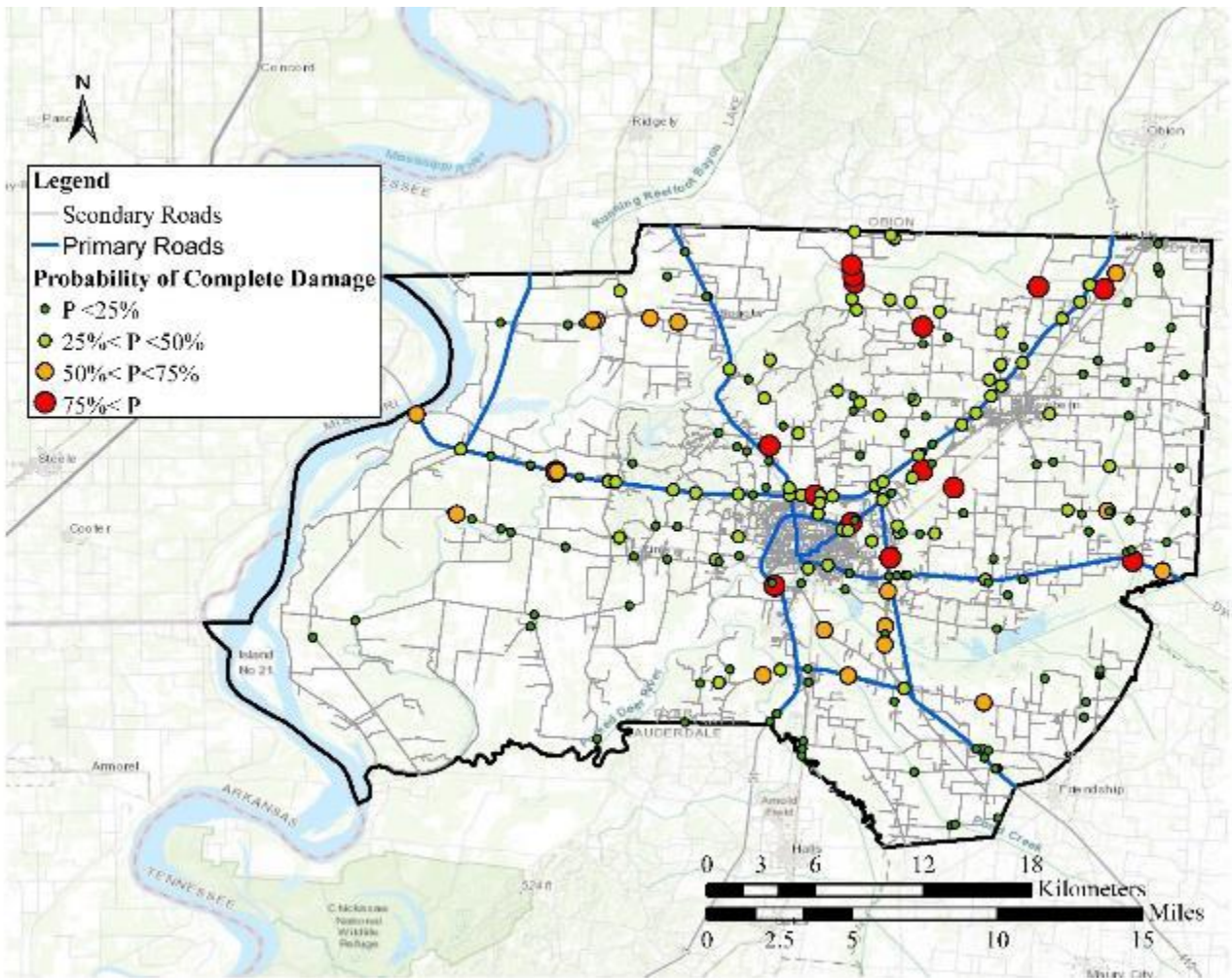


Figure H.6 Probability of Complete Damage for Bridges, Dyer County

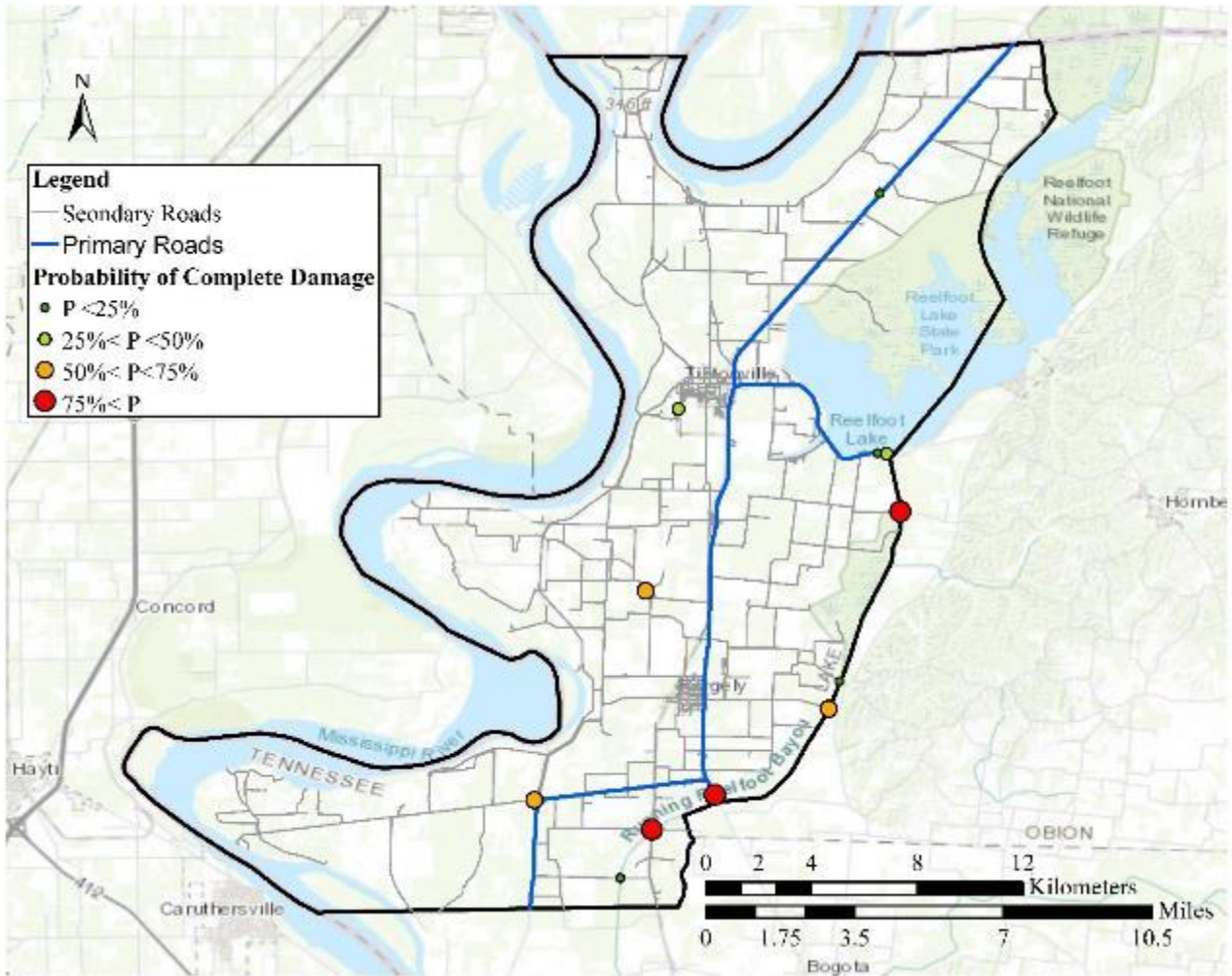


Figure H.7 Probability of Complete Damage for Bridges, Lake County

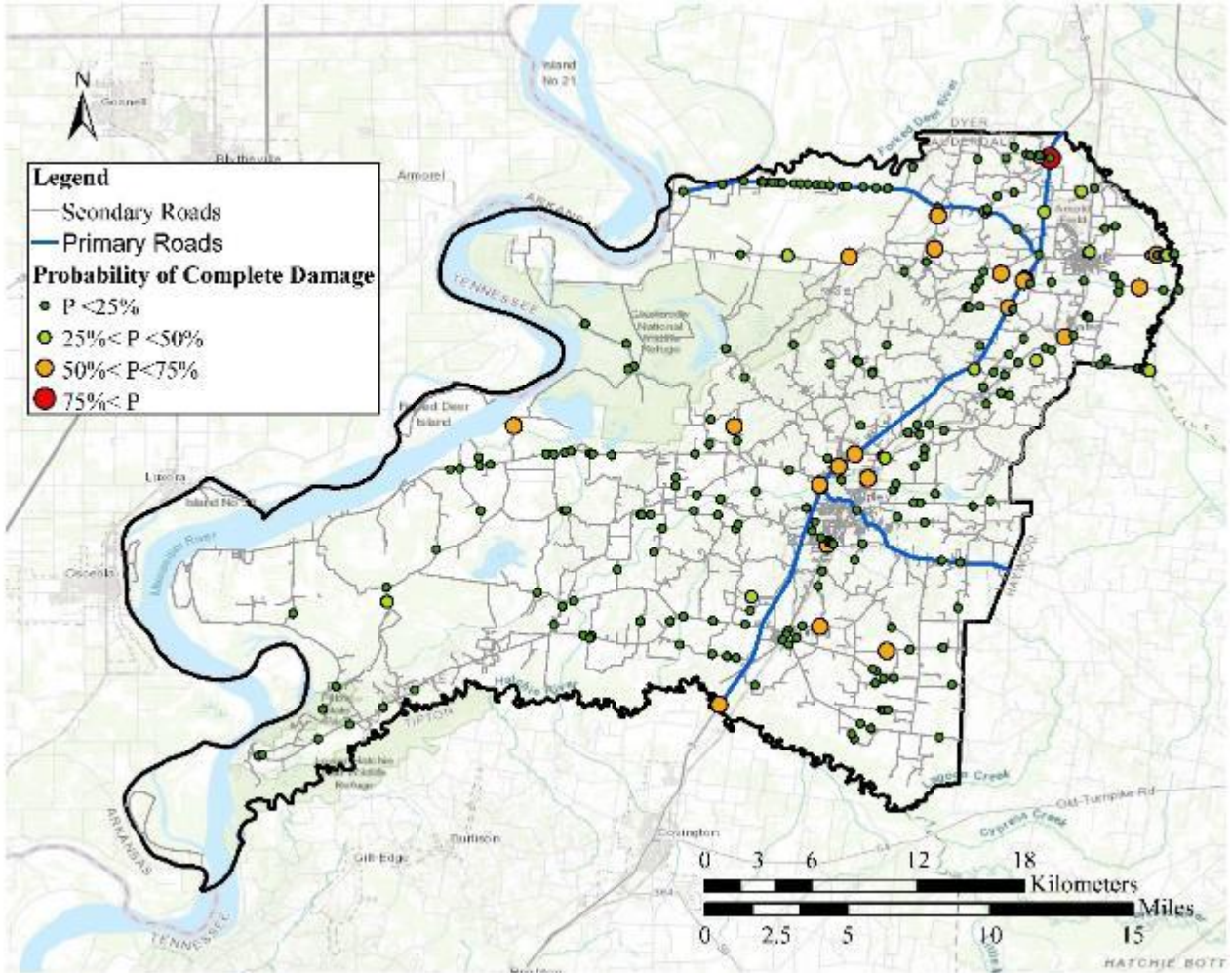


Figure H.8 Probability of Complete Damage for Bridges, Lauderdale County

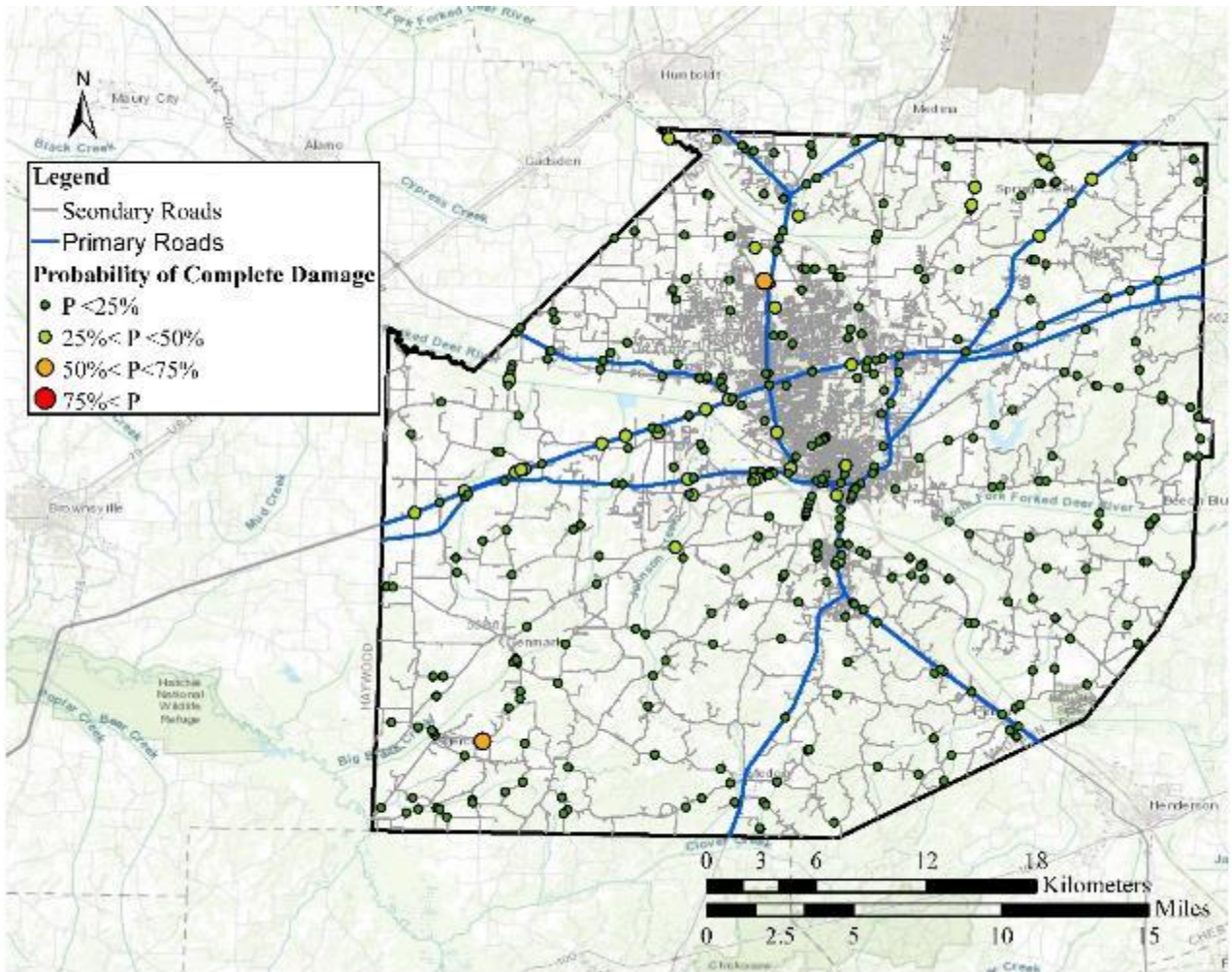


Figure H.9 Probability of Complete Damage for Bridges, Madison County

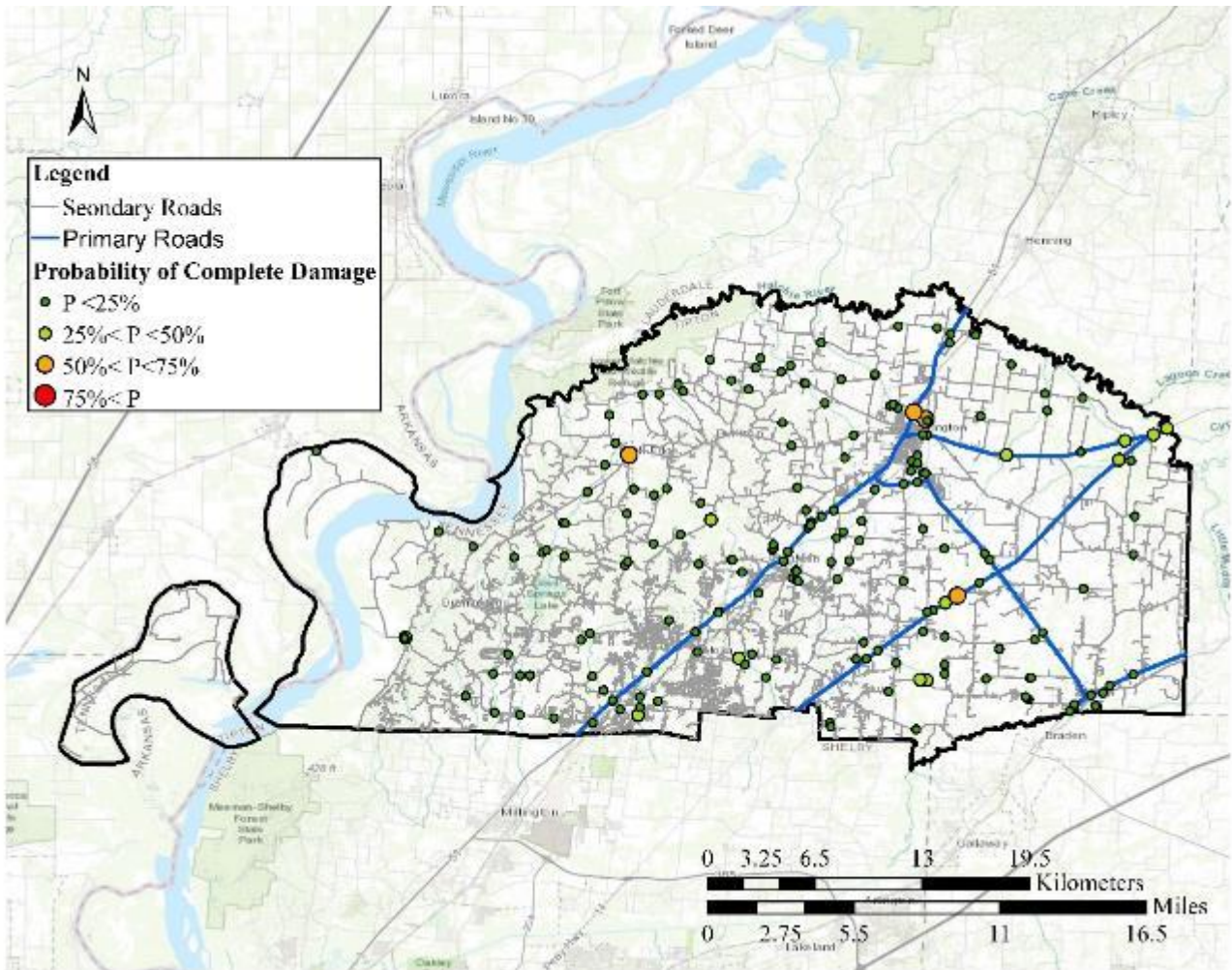


Figure H.10 Probability of Complete Damage for Bridges, Tipton County

Appendix I. Statistical Analysis and Representation of Results

The calculations for the Immediate Occupancy Factor, IO, and Major Damage Factor, MD, were developed by (Boling, 2009) and are simply summations of probability of damage states developed by Hazus. The IO factor is calculated by summing the “None” and “Slight” probability damage state categories, and the MD factor is calculated by summing the “Extensive” and “Complete” damage state categories. For essential facilities this is done through the structural damage categories if AEBM method is utilized. It is important to note that the Damage ratio for bridges and BRC for essential facilities are calculated in similar manners using the probability of each damage state and a corresponding probability of damage state dependent on the structure type, further explanations and equations can be found in Hazus Earthquake Model Technical Manual (FEMA, Hazus Earthquake Model User Guidance Hazus 5.1, 2022).

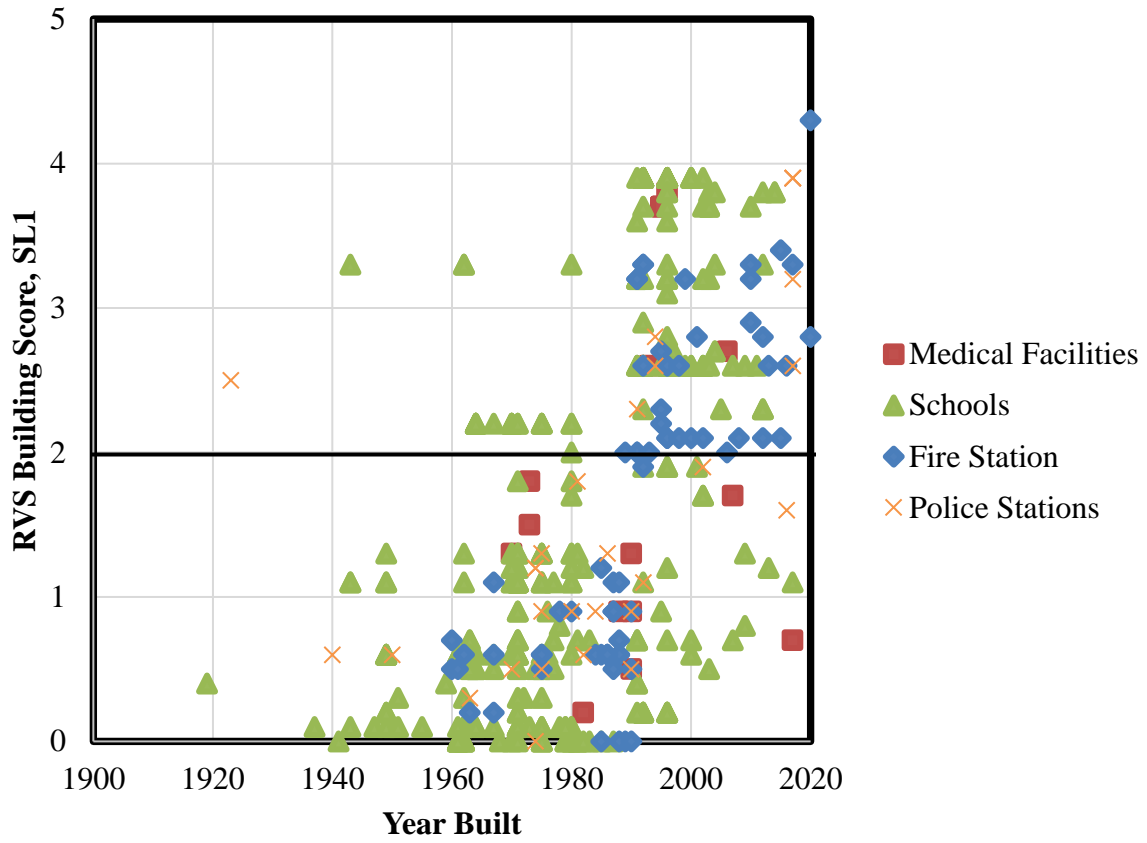


Figure I.1 Building Score vs. Year Built

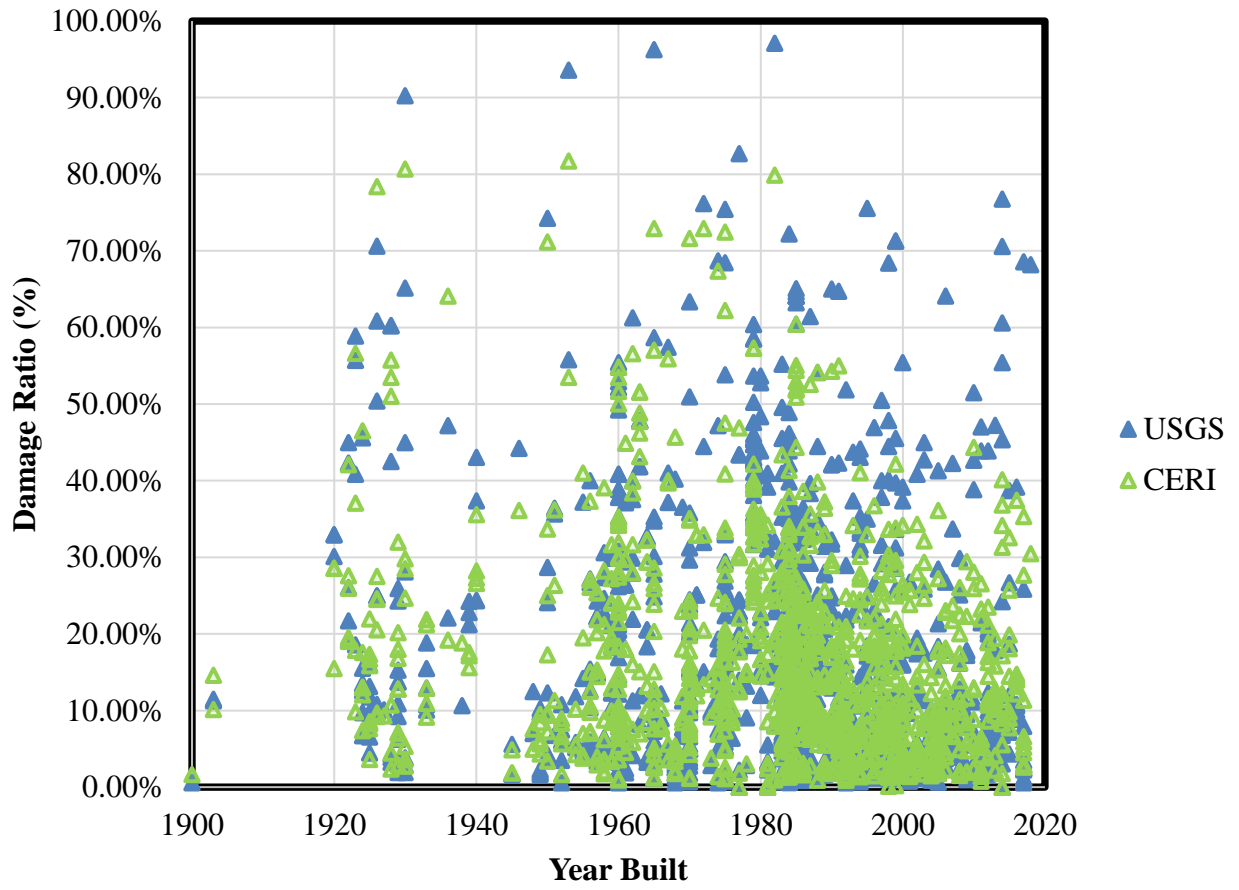


Figure I.2 Damage Ratio vs. Year Built for Bridges

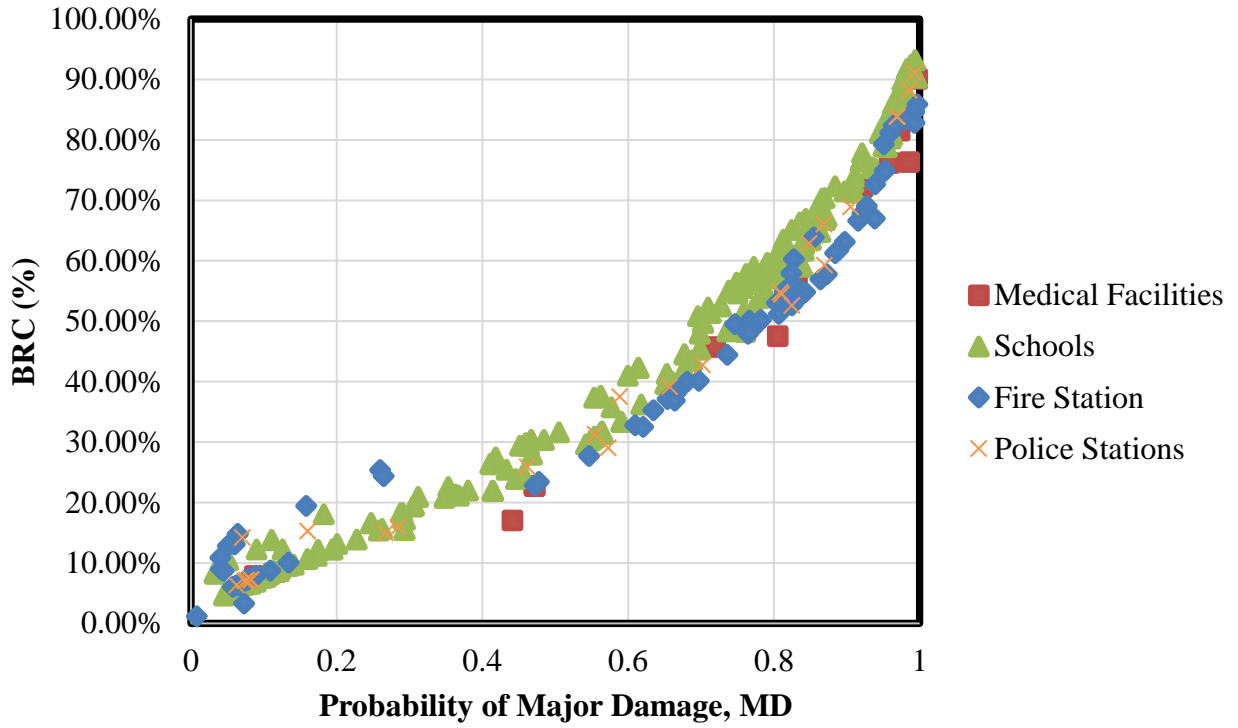


Figure I.3 BRC vs. MD for Essential Facilities for CERI Hazard

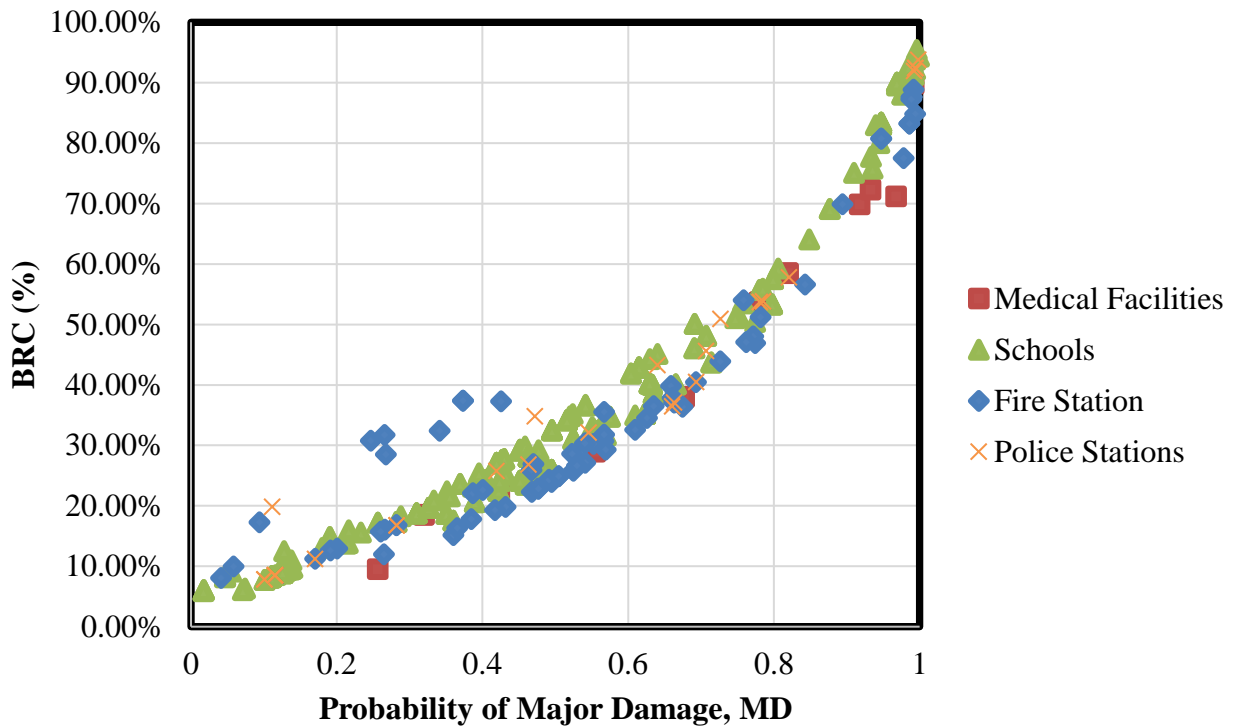


Figure I.4 BRC vs. MD for Essential Facilities for USGS Hazard

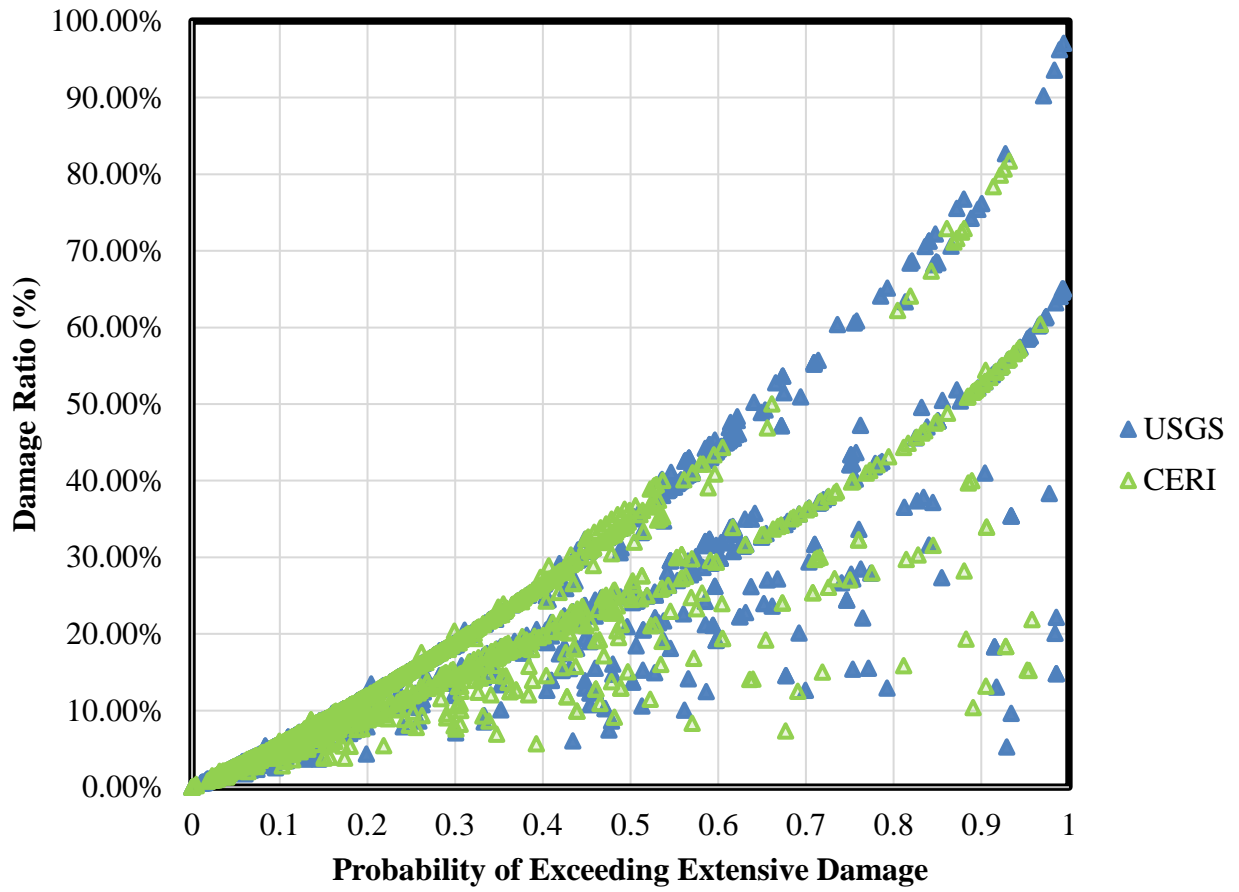


Figure I.5 Damage Ratio vs. POE Extensive Damage for Bridges

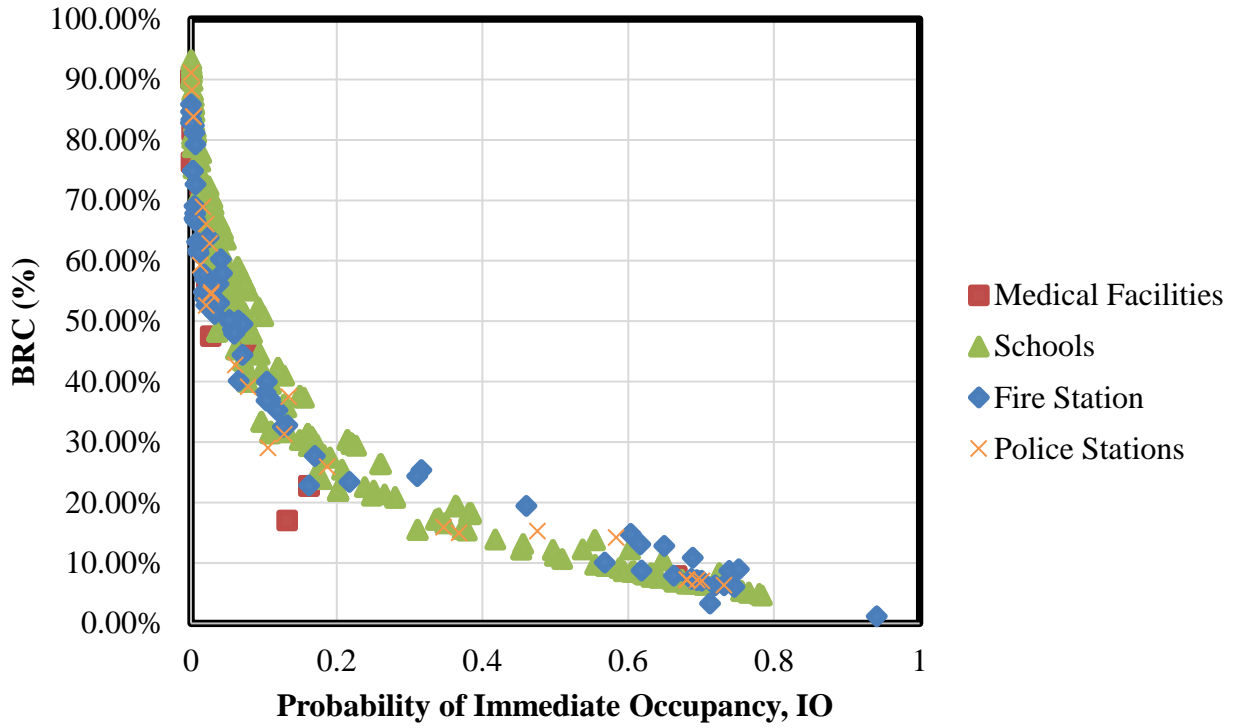


Figure I.6 BRC vs. IO for Essential Facilities for CERI Hazard

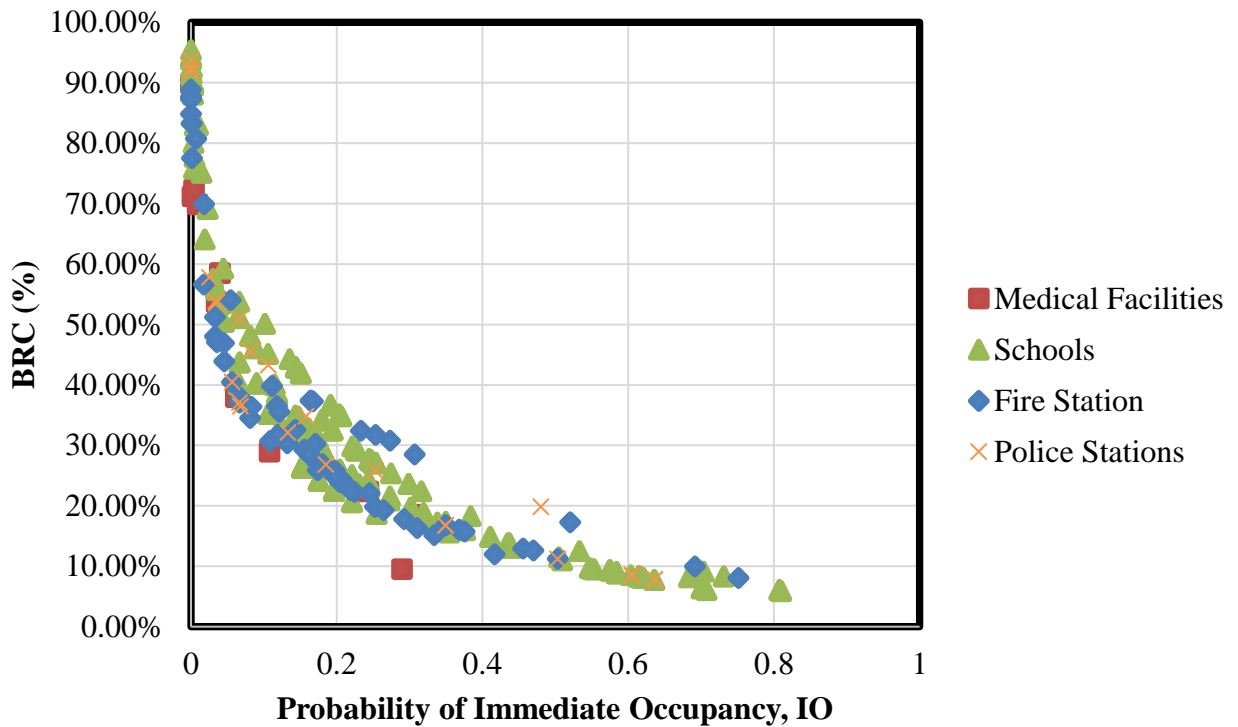


Figure I.7 BRC vs. IO for Essential Facilities for USGS Hazard

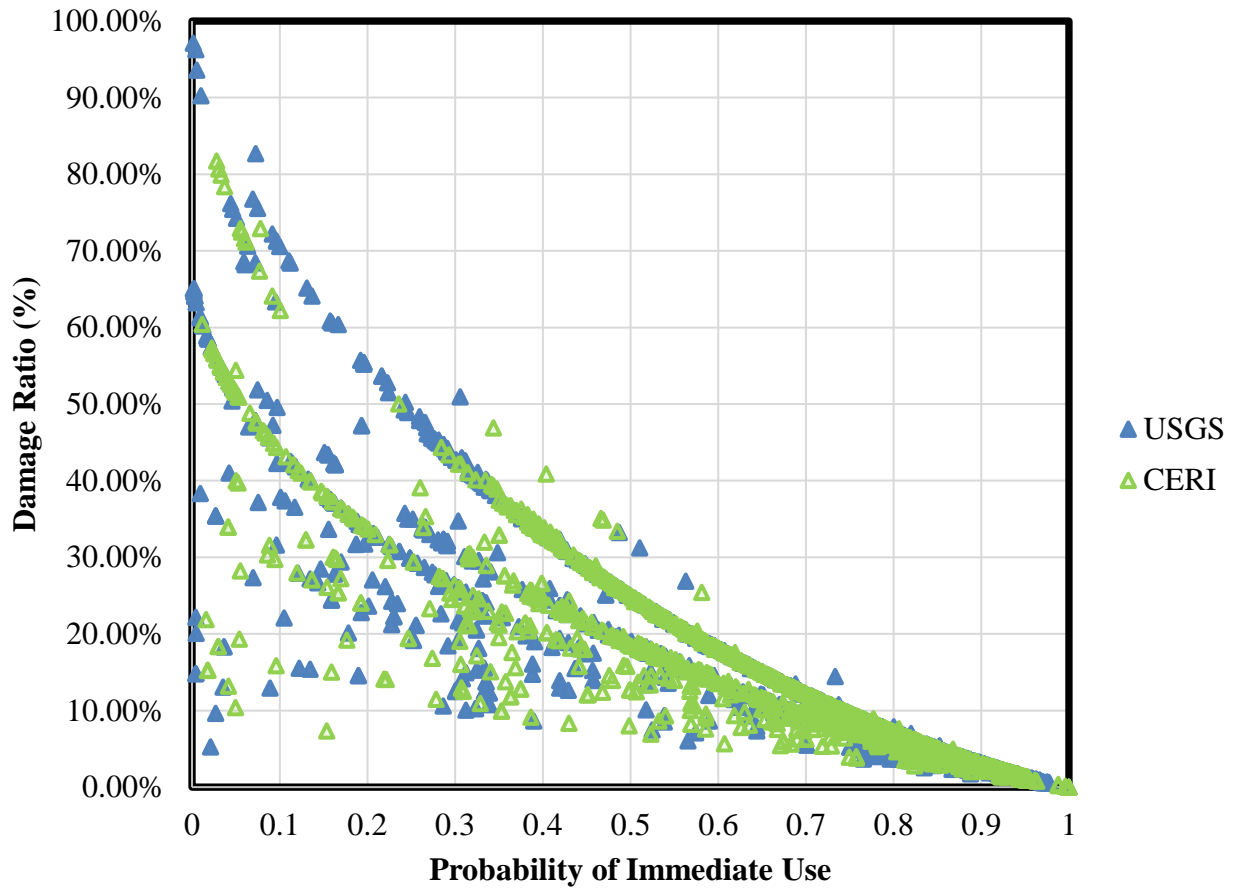


Figure I.8 Damage Ratio vs. Immediate Use of Bridges

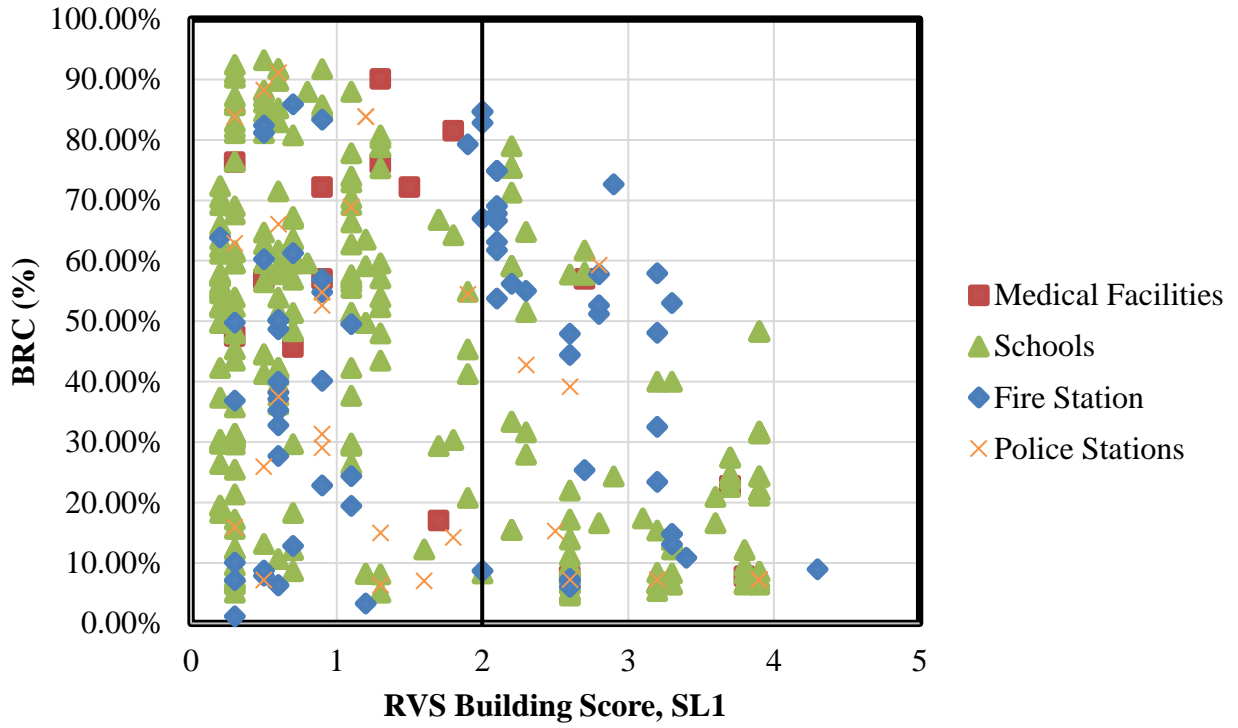


Figure I.9 BRC vs. S_{LI} for CERI Hazard

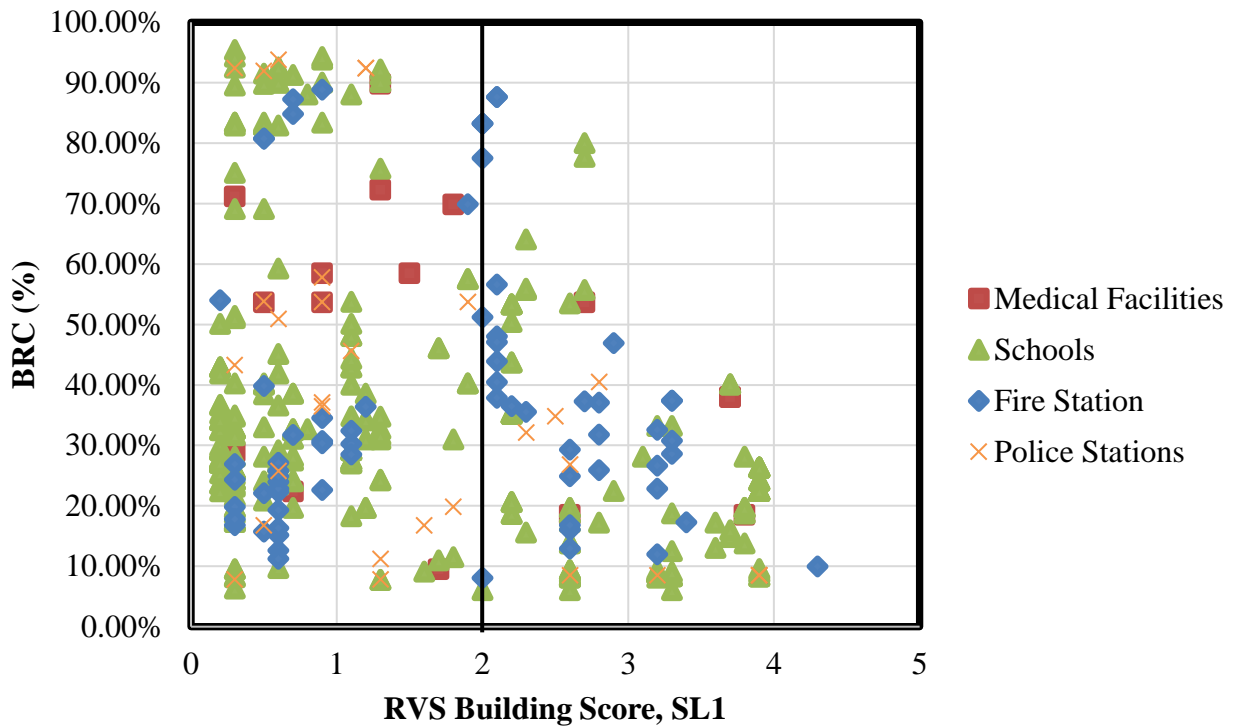


Figure I.10 BRC vs. S_{LI} for USGS Hazard


Appendix J. RVS Data Collection Forms

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
HIGH Seismicity

Address: 1 S NORTHERN MAIN STREET Zip: 38040
 Other Identifiers: TN001100
 Building Name: RIEGELY FIRE DEPARTMENT
 Use: Fire Station
 Latitude: 36.264475 Longitude: -89.487122
 S: 1.471 S: 0.506
 Screener(s): Abdulwahab Abdulhadi Date/Time:
 No. Stories: Above Grade: Below Grade: Year Built: 1992 1991
 Total Floor Area (sq. ft.): 2555 Code Year: 1991
 Additions: None Yes, Year(s) Built:
 Occupancy: Assembly Commercial Fire, Storage Historic Shelter
 Industrial Office School Government
 Utility Warehouse Residential, A Units
 Soil Type: A Hard Rock B Avg. Rock C Dense Soil D Soft Soil E Poor Soil F Poor Soil DNK if DNK, assume Type D.
 Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK
 Adjacency: Pounding Falling Hazards from Tall or Adjacent Building
 Irregularities: Vertical (type/severity) Plan (type)
 Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other
 COMMENTS:
 Additional sketches or comments on separate page

PHOTOGRAPH



SKETCH

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S_{L1}

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (RF)	S2 (RF)	S3 (LM)	S4 (RC SW)	S5 (URM RF)	C1 (RMF)	C2 (SW)	C3 (URM RF)	PC1 (TL)	PC2	RW1 (CL)	RW2 (RC)	URW	NH
Basic Score	3.8	3.2	2.9	2.1	2.0	2.8	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5	
Severe Vertical Irregularity, V ₁	-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, V ₂	-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.6	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA	
Plan Irregularity, P ₁	-1.1	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.5	-0.8	-0.5	-0.7	-0.6	-0.7	-0.7	-0.4	NA	
Pre-Code	-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.3	-0.3	-0.5	-0.5	0.0	-0.1	
Post Benchmark	1.6	1.9	2.2	1.4	1.4	1.1	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2	
Soil Type A or B	0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.3	0.3	
Soil Type E (1-3 stories)	0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4	
Soil Type E (>3 stories)	-0.3	-0.5	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.5	-0.2	NA	
Minimum Score, S _{min}	1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.3	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.2	1.0	

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min}: 0.5 ≥ 0.3

EXTENT OF REVIEW
 Exterior: Partial All Sides Aerial
 Interior: None Visible Entered
 Drawings Reviewed: Yes No
 Soil Type Source: _____
 Geologic Hazards Source: _____
 Contact Person: _____

LEVEL 2 SCREENING PERFORMED?
 Yes, Final Level 2 Score, S_{L2} _____ No
 Nonstructural hazards? Yes No

OTHER HAZARDS
 Are There Hazards That Trigger A Detailed Structural Evaluation?
 Pounding potential (unless S_{L1} > cut-off, if known)
 Falling hazards from taller adjacent building
 Geologic hazards or Soil Type F
 Significant damage/deterioration to the structural system

ACTION REQUIRED
 Detailed Structural Evaluation Required?
 Yes, unknown FEMA building type or other building
 Yes, score less than cut-off
 Yes, other hazards present
 No
 Detailed Nonstructural Evaluation Recommended? (check one)
 Yes, nonstructural hazards identified that should be evaluated
 No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary
 No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know

Legend: MRF = Moment resisting frame RC = Reinforced concrete URM = Unreinforced masonry masonry T.U. = Tilt up MH = Manufactured Housing PD = Flexible diaphragm BR = Braced frame SW = Shear wall TL = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.1 RVS form for Structure #1

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

PHOTOGRAPH

SKETCH

Address: 221 KENTUCKY STREET
Zip: 38079

Other Identifiers: TN000201

Building Name: TIPTONVILLE FIRE DEPARTMENT

Use: FIRE STATION

Latitude: 36.380054 **Longitude:** -89.466553

S₁: 3.042 **S₂:** 1.189

Screener(s): Abdulrhman Abdalrhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1996 est

Total Floor Area (sq. ft.): 5970 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial **Other Services** Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: JA B C D E F DNK
Hard Avg Dense Stiff Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Founding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S_{L1}

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LAC)	S4 (RC (BSI) SW)	S5 (RF)	C1 (MRF)	C2 (BR)	C3 (LRF) (RF)	PC1 (TU)	PC2	RM1 (FD)	RM2 (FD)	UR#	MH
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.9	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.3	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.5	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	-0.5	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	0.0	0.0	0.0
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.3	1.6	NA	1.4	1.7	NA	1.5	1.7	1.8	1.6	NA	0.6
Soil Type A or B		0.3	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA
Minimum Score, S _{min}		0.7	0.7	0.7	0.5	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 2.1 ≥ 0.5

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S₂ > cut-off, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM/MF = unreinforced masonry/mill MH = Manufactured Housing FD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tie up LM = Light metal RD = Rigid diaphragm

Figure J.2 RVS form for Structure #2.1



Figure J.3 Image of Plan Irregularity on Structure #2.1

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

PHOTOGRAPH

SKETCH

Additional sketches or comments on separate page

Address: 221 KENTUCKY STREET
Zip: 38079

Other Identifiers: TN000202

Building Name: TIPTONVILLE FIRE DEPARTMENT

Use: FIRE STATION

Latitude: 36.380054 **Longitude:** -89.466553

S₁: 5.042 **S₂:** 1.189

Screener(s): Abdulrhman Abdalrhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1996 est

Total Floor Area (sq. ft.): 520 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial **Other Services** Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: JA B C D E F DNK
Hard Avg Dense Stiff Soft Poor
Rock Rock Soil Soil Soil Soil
#DNK, assume Type D

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Founding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity)
 Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (L)	S4 (RC (BSI) SW)	S5 (M)	C1 (MRF)	C2 (BR)	C3 (LRF) (F)	PC1 (T)	PC2	RM1 (F)	RM2 (FD)	UR#	MH
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.9	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.5	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.4	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	-0.5	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	0.0
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.3	1.6	NA	1.4	1.7	NA	1.5	1.7	1.8	1.6	NA	0.6
Soil Type A or B		0.3	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA
Minimum Score, S _{min}		0.7	0.7	0.7	0.5	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 2.1 ≥ 0.5

<p>EXTENT OF REVIEW</p> <p>Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____</p> <p>LEVEL 2 SCREENING PERFORMED?</p> <p><input type="checkbox"/> Yes, Final Level 2 Score, S_{L2} _____ <input type="checkbox"/> No Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>OTHER HAZARDS</p> <p>Are There Hazards That Trigger A Detailed Structural Evaluation?</p> <p><input type="checkbox"/> Pounding potential (unless S_{L2} > cut-off, if known)</p> <p><input type="checkbox"/> Falling hazards from taller adjacent building</p> <p><input type="checkbox"/> Geologic hazards or Soil Type F</p> <p><input type="checkbox"/> Significant damage/deterioration to the structural system</p>	<p>ACTION REQUIRED</p> <p>Detailed Structural Evaluation Required?</p> <p><input type="checkbox"/> Yes, unknown FEMA building type or other building <input type="checkbox"/> Yes, score less than cut-off <input type="checkbox"/> Yes, other hazards present <input type="checkbox"/> No</p> <p>Detailed Nonstructural Evaluation Recommended? (check one)</p> <p><input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated <input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary <input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK</p>
--	---	---

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (M) = unreinforced masonry mull MH = Manufactured Housing FD = Flexible diaphragm
BR = Braced frame SW = Shear wall TL = Tie up LM = Light metal RD = Rigid diaphragm

Figure J.4 RVS form for Structure #2.2

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 089 SOUTH COURT STREET
Zip: 38079

Other Identifiers: TN000101

Building Name: LAKE COUNTY SHERIFFS DEPARTMENT / LAK...
Use: POLICE PROTECTION

Latitude: 36.377599 **Longitude:** -89.484125
Sr: L471 **Sr:** 0506

Screeners: Abdurrahman Abdulsadi **Date/Time:** _____

No. Stories: Above Grade: _____ Below Grade: _____ **Year Built:** 1974 est
Total Floor Area (sq. ft.): 1066 **Code Year:** 1991

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: JA B C D E F DNK
Head Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity): _____
 Plan (type): _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (L)	S4 (RC (RM) (R))	S5 (RM (R))	C1 (MRF)	C2 (BR)	C3 (LR) (F)	PC1 (T)	PC2	RM1 (F)	RM2 (F)	UR1	MH
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V ₁		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, V ₂		-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.6	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, P ₁		-1.1	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	-0.7	-0.7	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.7	-0.5	-0.3	0.5	-0.5	0.0	-0.1
Post-Benchmarks		1.5	1.9	2.2	1.4	1.4	1.1	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.5	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.5	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S _{min}		1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 1.2 ≥ 0.3

EXTENT OF REVIEW	OTHER HAZARDS	ACTION REQUIRED
Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____	Are There Hazards That Trigger A Detailed Structural Evaluation? <input type="checkbox"/> Pounding potential (unless S ₁ > out-off, if known) <input type="checkbox"/> Falling hazards from taller adjacent building <input type="checkbox"/> Geologic hazards or Soil Type F <input type="checkbox"/> Significant damage/deterioration to the structural system	Detailed Structural Evaluation Required? <input type="checkbox"/> Yes, unknown FEMA building type or other building <input type="checkbox"/> Yes, score less than cutoff <input type="checkbox"/> Yes, other hazards present <input type="checkbox"/> No Detailed Nonstructural Evaluation Recommended? (check one) <input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated <input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary <input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (R) = Unreinforced masonry infill TU = Tie up MH = Manufactured Housing LM = Light metal FD = Flexible diaphragm ER = Eccentric frame SW = Shear wall DNK = Do Not Know RD = Rigid diaphragm

Figure J.5 RVS form for Structure #3.1

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
HIGH Seismicity

Address: 089 SOUTH COURT STREET **Zip:** 38079

Other Identifiers: TN000102

Building Name: LAKE COUNTY SHERIFFS DEPARTMENT / LAK...
Use: POLICE PROTECTION

Latitude: 36.377699 **Longitude:** -89.484125
Sr: L471 **Sr:** 0506

Screeners: Abdurrahman Abdulsadi **Date/Time:** _____

No. Stories: Above Grade: _____ Below Grade: _____ **Year Built:** 1974 est
Total Floor Area (sq. ft.): 5200 **Code Year:** 1991

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial **Emer. Services** Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S_{L1}

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (L)	S4 (RC (MRF) OR SW)	S5 (RM (MRF))	C1 (MRF)	C2 (BR)	C3 (LRS (F))	PC1 (TU)	PC2	RM1 (F)	RM2 (F)	UR1	MH
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V ₁		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, V ₂		-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.5	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, P ₁		-1.1	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.6	-0.8	-0.5	-0.7	-0.6	-0.7	-0.7	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmarks		1.5	1.9	2.2	1.4	1.4	1.1	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.3	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.6	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S _{min}		1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{MIN} **1.2** ≥ 0.3

<p>EXTENT OF REVIEW</p> <p>Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____</p> <p>LEVEL 2 SCREENING PERFORMED?</p> <p><input type="checkbox"/> Yes, Final Level 2 Score, S_{L2} _____ <input type="checkbox"/> No Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>OTHER HAZARDS</p> <p>Are There Hazards That Trigger A Detailed Structural Evaluation?</p> <p><input type="checkbox"/> Pounding potential (unless S_{L1} > out-off, if known) <input type="checkbox"/> Falling hazards from taller adjacent building <input type="checkbox"/> Geologic hazards or Soil Type F <input type="checkbox"/> Significant damage/deterioration to the structural system</p>	<p>ACTION REQUIRED</p> <p>Detailed Structural Evaluation Required?</p> <p><input type="checkbox"/> Yes, unknown FEMA building type or other building <input type="checkbox"/> Yes, score less than cut-off <input type="checkbox"/> Yes, other hazards present <input type="checkbox"/> No</p> <p>Detailed Nonstructural Evaluation Recommended? (check one)</p> <p><input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated <input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary <input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK</p>
--	--	---

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (M) = Unreinforced masonry masonry wall MH = Manufactured Housing BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal FD = Flexible diaphragm RD = Rigid diaphragm

Figure J.6 RVS for Structure #3.2

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 089 SOUTH COURT STREET **Zip:** 38079

Other Identifiers: TN000103

Building Name: LAKE COUNTY SHERIFFS DEPARTMENT / LAK...

Use: POLICE PROTECTION

Latitude: 36.377599 **Longitude:** -89.484125

Sr: L471 **Sr:** 4586

Screeners: Abdurrahman Abdulsadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1974 est

Total Floor Area (sq. ft.): <500 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: JA B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity):
 Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (RRF)	S2 (BR)	S3 (L)	S4 (RC (RM (RF)	S5 (RM (RF)	C1 (RRF)	C2 (BR)	C3 (LR) (F)	PC1 (T)	PC2	RM1 (F)	RM2 (F)	UR1	NH
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V ₁		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, V ₂		-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.6	-0.6	-0.4	-0.6	-0.6	-0.5	-0.5	-0.4	NA
Plan Irregularity, P ₁		-1.1	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	-0.7	-0.7	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.7	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmarks		1.5	1.9	2.2	1.4	1.4	1.1	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.5	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.6	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S _{min}		1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.3 ≥ 0.3

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial

Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > out-off, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cutoff

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know

Legend: MF = Moment-resisting frame RC = Reinforced concrete URM = Unreinforced masonry infill MH = Manufactured Housing FD = Flexible diaphragm
ER = Eccentric frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.7 RVS form for Structure #3.3




Figure J.8 Vertical Irregularity in Structure # 3.3

Rapid Visual Screening of Buildings for Potential Seismic Hazards
 FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 205 CHURCH STREET **Zip:** 39079

Other Identifiers: TN06340

Building Name: HOPKINVILLE POLICE DEPARTMENT

Use: POLICE PROTECTION

Latitude: 35.178 76 **Longitude:** -89.485 61

S: 3.072 **S:** 3.072

Screeners(s): Anwarulamin Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1940 CBT

Total Floor Area (sq. ft.): 2700 **Code Year:** 199

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial **Emer. Services** Historic Shelter
 Industrial Office School Government
 Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg. Dense Soft Soil Poor Rock Rock Soil Soil Soil DNK assume Type D

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

Additional sketches or comments on separate page

FEMA BUILDING TYPE	Do Not Know	BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																
		W1	W1A	W2	S1 (RRP)	S2 (RR)	S3 (RM)	S4 (RC SN)	S5 (RM M)	C1 (RRP)	C2 (EW)	C3 (RRP M)	PC1 (TU)	PC2	RM1 (R)	RM2 (R)	URM	NH
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1
Severe vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.8	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.6	NA
Moderate Vertical Irregularity, V ₂		-0.6	-0.5	-0.5	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	0.2	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.8	-0.5	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.6	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	0.0
Post-Benchmark		1.9	1.9	2.0	1.9	1.1	1.1	1.6	NA	1.4	1.7	NA	1.6	1.7	1.6	1.6	NA	0.6
Soil Type A or B		0.6	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1
Soil Type E1 (>3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1
Soil Type E1 (>3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA
Minimum Score, S _{bc}		0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.5	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.2	0.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{MIN}: 0.7 ≥ 0.6

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial

Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{bc} > cut-off, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/degradation to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RR = Reinforced concrete RM = Reinforced masonry wall DNK = Do Not Know M = Manufactured Masonry TU = Tie up W = Light masonry PD = Flexible diaphragm R1 = Rigid diaphragm

Figure J.9 RVS form for Structure #4

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 140 NORTH MAIN STREET
Zip: 35090

Other Identifiers: TN000500

Building Name: RIDGELY POLICE DEPARTMENT

Use: POLICE PROTECTION

Latitude: 36.264947 **Longitude:** -86.487277

S₁: 3.97 **S₂:** 1.215

Screeners: Abdulrhman Abdalrhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1970 est

Total Floor Area (sq. ft.): 1420 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial **Emer. Services** Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Founding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LAC)	S4 (RC SW)	S5 (U/SI BR)	C1 (MRF)	C2 (BR)	C3 (LRM (R))	PC1 (TL)	PC2	RM1 (F)	RM2 (D)	UR#	MH
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.9	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.3	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.5	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	-0.5	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	0.0
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.1	1.6	NA	1.4	1.7	NA	1.5	1.7	1.6	1.6	NA	0.6
Soil Type A or B		0.3	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA
Minimum Score, S _{min}		0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.3 > 0.5

<p>EXTENT OF REVIEW</p> <p>Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered</p> <p>Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Soil Type Source: _____</p> <p>Geologic Hazards Source: _____</p> <p>Contact Person: _____</p>	<p>OTHER HAZARDS</p> <p>Are There Hazards That Trigger A Detailed Structural Evaluation?</p> <p><input type="checkbox"/> Pounding potential (unless S₂ > cut-off, if known)</p> <p><input type="checkbox"/> Falling hazards from taller adjacent building</p> <p><input type="checkbox"/> Geologic hazards or Soil Type F</p> <p><input type="checkbox"/> Significant damage/deterioration to the structural system</p>	<p>ACTION REQUIRED</p> <p>Detailed Structural Evaluation Required?</p> <p><input type="checkbox"/> Yes, unknown FEMA building type or other building</p> <p><input type="checkbox"/> Yes, score less than cut-off</p> <p><input type="checkbox"/> Yes, other hazards present</p> <p><input type="checkbox"/> No</p> <p>Detailed Nonstructural Evaluation Recommended? (check one)</p> <p><input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated</p> <p><input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary</p> <p><input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK</p>
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Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (M) = Unreinforced masonry (infill) MH = Manufactured Housing FD = Flexible diaphragm
BR = Braced frame SW = Shear wall TL = Tie up IM = Light metal RD = Rigid diaphragm

Figure J.10 RVS form for Structure #5

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 174 IN 234 Zip: 38041

Other Identifiers: FNO01350

Building Name: HENNING VOLUNTEER FIRE DEPARTMENT

Use: Fire Station

Latitude: 35.672187 Longitude: -89.574483

Sr: 1.332 Sr: 0.459

Screener(s): Abdulrahman Abdulhadi Date/Time:

No. Stories: Above Grade: Below Grade: Year Built: 2001 est

Total Floor Area (sq. ft.): 1535 Code Year: 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial **Other Services** Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S_{L1}

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (L)	S4 (RC (RM) (R))	S5 (RM (R))	C1 (MRF)	C2 (BR)	C3 (RM (R))	PC1 (TU)	PC2	RH1 (F)	RH2 (F)	UR1	MH
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V ₁		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, V ₂		-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.6	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, P ₁		-1.1	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.6	-0.6	-0.5	-0.7	-0.6	-0.7	-0.7	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmarks		1.5	1.9	2.2	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.3	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.6	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S _{min}		1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} **2.8** ≥ 0.6

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial

Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > out-off, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (RM) = Unreinforced masonry wall MH = Manufactured Housing BR = Fixed frame SW = Shear wall TU = Tilt up LM = Light metal FD = Flexible diaphragm RD = Rigid diaphragm

Figure J.11 RVS form for Structure #13

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
HIGH Seismicity

Address: 155 S WASHINGTON STREET **Zip:** 38063

Other Identifiers: FNO1451

Building Name: RIPLEY FIRE DEPARTMENT

Use: Fire Station

Latitude: 35.744393 **Longitude:** -89.572084

S: 1.449 **Sz:** 0.495

Screener(s): Abdulrahman Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 2015 est

Total Floor Area (sq. ft.): 1947 **Code Year:** 1991

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial Other, Specify: Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg Dense Stiff Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity): _____
 Plan (type): _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S_{L1}

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (L)	S4 (RC)	S5 (URM)	C1 (MRF)	C2 (BR)	C3 (URM)	PC1 (TU)	PC2	RH1 (FD)	RH2 (FE)	UR1	MH
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V ₁		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, V ₂		-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.5	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, P ₁		-0.3	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.6	-0.8	-0.5	-0.7	-0.6	-0.7	-0.7	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmarks		1.6	1.9	2.2	1.4	1.4	1.1	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.3	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.6	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S _{min}		1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 3.4 ≥ 1.1

<p>EXTENT OF REVIEW</p> <p>Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial</p> <p>Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered</p> <p>Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Soil Type Source: _____</p> <p>Geologic Hazards Source: _____</p> <p>Contact Person: _____</p>	<p>OTHER HAZARDS</p> <p>Are There Hazards That Trigger A Detailed Structural Evaluation?</p> <p><input type="checkbox"/> Pounding potential (unless S_{L1} > out-off, if known)</p> <p><input type="checkbox"/> Falling hazards from taller adjacent building</p> <p><input type="checkbox"/> Geologic hazards or Soil Type F</p> <p><input type="checkbox"/> Significant damage/deterioration to the structural system</p>	<p>ACTION REQUIRED</p> <p>Detailed Structural Evaluation Required?</p> <p><input type="checkbox"/> Yes, unknown FEMA building type or other building</p> <p><input type="checkbox"/> Yes, score less than cut-off</p> <p><input type="checkbox"/> Yes, other hazards present</p> <p><input type="checkbox"/> No</p> <p>Detailed Nonstructural Evaluation Recommended? (check one)</p> <p><input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated</p> <p><input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary</p> <p><input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK</p>
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Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know

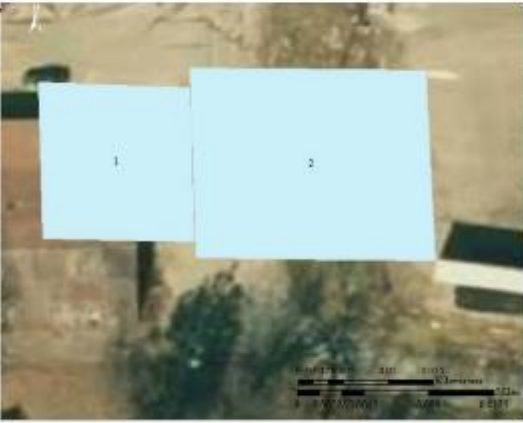
Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM = Unreinforced masonry wall MH = Manufactured Housing FD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.12 RVS form for Structure #14.1

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 155 S WASHINGTON STREET Zip: 38063

Other Identifiers: FNO01452

Building Name: RIPLEY FIRE DEPARTMENT

Use: Fire Station

Latitude: 35.744393 Longitude: -89.532084

Sr: 1.449 Sr: 0.495

Screener(s): Abdulrahman Abdulhadi Date/Time:

No. Stories: Above Grade: Below Grade: Year Built: 2015 est

Total Floor Area (sq. ft.): 5672 Code Year: 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Other, Specify: Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Stiff Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity): Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (L)	S4 (RC (RM) (R))	S5 (RM (R))	C1 (MRF)	C2 (BR)	C3 (LR (F))	PC1 (TU)	PC2	RH1 (F)	RH2 (F)	UR1	MH
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V ₁		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, V ₂		-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.5	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, P ₁		-1.1	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.6	-0.6	-0.5	-0.7	-0.6	-0.7	-0.7	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmarks		1.5	1.9	2.2	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.3	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.6	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S _{min}		1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} **2.1** ≥ 0.6

EXTENT OF REVIEW	OTHER HAZARDS	ACTION REQUIRED
Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____	Are There Hazards That Trigger A Detailed Structural Evaluation? <input type="checkbox"/> Pounding potential (unless S _{L1} > cut-off, if known) <input type="checkbox"/> Falling hazards from taller adjacent building <input type="checkbox"/> Geologic hazards or Soil Type F <input type="checkbox"/> Significant damage/deterioration to the structural system	Detailed Structural Evaluation Required? <input type="checkbox"/> Yes, unknown FEMA building type or other building <input type="checkbox"/> Yes, score less than cut-off <input type="checkbox"/> Yes, other hazards present <input type="checkbox"/> No Detailed Nonstructural Evaluation Recommended? (check one) <input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated <input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary <input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK
LEVEL 2 SCREENING PERFORMED? <input type="checkbox"/> Yes, Final Level 2 Score, S _{L2} _____ <input type="checkbox"/> No Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No		

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (RM) = Unreinforced masonry wall MH = Manufactured Housing FD = Flexible diaphragm
 BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.13 RVS form for Structure #14.2

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 229 WARDLOW STREET **Zip:** 38037

Other Identifiers: TN001500

Building Name: GATES FIRE DEPARTMENT

Use: FIRE STATION

Latitude: 35.839413 **Longitude:** -89.41011

S₁: 1.574 **S₂:** 0.539

Screener(s): Abdulrhman Abdalrhadi **Date/Time:**

No. Stories: Above Grade: _____ Below Grade: _____ **Year Built:** 2012 est

Total Floor Area (sq. ft.): 2247 **Code Year:** 1991

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial **Emer. Services** Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Founding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LFR)	S4 (RC SW)	S5 (UFR M)	C1 (MRF)	C2 (BR)	C3 (LFR M)	PC1 (TU)	PC2	RM1 (FD)	RM2 (FD)	UR#	MH	
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1	
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.9	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.7	-0.3	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.5	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	-0.5	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	0.0	
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.3	1.5	NA	1.4	1.7	NA	1.5	1.7	1.8	1.6	NA	0.5	
Soil Type A or B		0.3	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1	
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1	
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA	
Minimum Score, S _{min}		0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0	

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 2.1 ≥ 0.5

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S₂ > cut-off, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM M = Unreinforced masonry masonry TU = Tie up MH = Manufactured Housing FD = Flexible diaphragm BR = Rigid diaphragm SW = Shear wall IM = Light metal

Figure J.14 RVS form for Structure #15

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

PHOTOGRAPH

SKETCH

Additional sketches or comments on separate page

Address: TUN FRONT STREET
Zip: 38040

Other Identifiers: TN001600

Building Name: HALLS FIRE DEPARTMENT

Use: FIRE STATION

Latitude: 35.875746 **Longitude:** -89.595902

S₁: 1.673 **S₂:** 0.572

Screener(s): Abdulrhman Abdalrhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1998 est

Total Floor Area (sq. ft.): 4781 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial **Emer. Services** Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Stiff Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Founding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LAK)	S4 (RC SW)	S5 (U/SI BR)	C1 (MRF)	C2 (BW)	C3 (L/RM (RF))	PC1 (TL)	PC2	RM1 (F)	RM2 (FD)	UR#	MH
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.9	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.5	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	-0.5	-0.5	0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	0.0
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.3	1.5	NA	1.4	1.7	NA	1.5	1.7	1.8	1.6	NA	0.5
Soil Type A or B		0.3	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA
Minimum Score, S _{min}		0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 2.1 ≥ 0.5

<p>EXTENT OF REVIEW</p> <p>Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____</p> <p>LEVEL 2 SCREENING PERFORMED?</p> <p><input type="checkbox"/> Yes, Final Level 2 Score, S_{L2} _____ <input type="checkbox"/> No Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>OTHER HAZARDS</p> <p>Are There Hazards That Trigger A Detailed Structural Evaluation?</p> <p><input type="checkbox"/> Pounding potential (unless S_{L2} > cut-off, if known)</p> <p><input type="checkbox"/> Falling hazards from taller adjacent building</p> <p><input type="checkbox"/> Geologic hazards or Soil Type F</p> <p><input type="checkbox"/> Significant damage/deterioration to the structural system</p>	<p>ACTION REQUIRED</p> <p>Detailed Structural Evaluation Required?</p> <p><input type="checkbox"/> Yes, unknown FEMA building type or other building</p> <p><input type="checkbox"/> Yes, score less than cut-off</p> <p><input type="checkbox"/> Yes, other hazards present</p> <p><input type="checkbox"/> No</p> <p>Detailed Nonstructural Evaluation Recommended? (check one)</p> <p><input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated</p> <p><input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary</p> <p><input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK</p>
--	---	--

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (M) = Unreinforced masonry (infill) MH = Manufactured Housing FD = Flexible diaphragm
BR = Braced frame SW = Shear wall TL = Tie up IM = light metal RD = Rigid diaphragm

Figure J.15 RVS form for Structure #16

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 526 ASHLEY AVENUE **Zip:** 38063

Other Identifiers: TN001751

Building Name: LAUDREDALE COMMUNITY HOSPITAL

Use: HOSPITAL

Latitude: 35.744353 **Longitude:** 89.549635

Sr: 1.471 **Sr:** 0.506

Screeners(s): Abdurrahman Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1988 est

Total Floor Area (sq. ft.): 67750 **Code Year:** 1991

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial Other, Specify: Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity): _____
 Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S_{L1}

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LC)	S4 (RC (RFR) SW)	S5 (RFR) (RFR)	C1 (MRF)	C2 (BR)	C3 (RFR) (RFR)	PC1 (TU)	PC2	RH1 (FX)	RH2 (FE)	UR1	MH
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V ₁		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, V ₂		-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.6	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, P ₁		-1.1	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.6	-0.6	-0.5	-0.7	-0.6	-0.7	-0.7	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmarks		1.5	1.9	2.2	1.4	1.4	1.1	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.3	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.6	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S _{min}		1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 6.9 ≥ 6.5

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial

Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > out-off, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (RFR) = Unreinforced masonry infill MH = Manufactured Housing FD = Flexible diaphragm
BR = Fixed frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.16 RVS form for Structure #17.1

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 526 ASIPIKY AVENUE **Zip:** 33063

Other Identifiers: T9001759

Building Name: LAUDERDALE COMMUNITY HOSPITAL

Use: HOSPITAL

Latitude: 35.744353 **Longitude:** 81.548635

Sr: 1.471 **Sr:** 0.506

Screener(s): Abdurrahman Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** (197) EST

Total Floor Area (sq. ft.): 5171 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Other, Specify: Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity):
 Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S_{L1}

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LC)	S4 (RC (MRF) SW)	S5 (RC (MRF) IP)	C1 (MRF)	C2 (BR)	C3 (ERS (F))	PC1 (TU)	PC2	RH1 (FX)	RH2 (FE)	UR1	MH
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V ₁		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, V ₂		-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.5	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, P ₁		-1.1	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.6	-0.6	-0.5	-0.7	-0.6	-0.7	-0.7	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmarks		1.5	1.9	2.2	1.4	1.4	1.1	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.3	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.6	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S _{min}		1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 3.5 ≥ 0.5

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial

Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > out-off, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (M) = Unreinforced masonry masonry wall MH = Manufactured Housing BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal FD = Flexible diaphragm RD = Rigid diaphragm

Figure J.17 RVS form for Structure #17.2

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 526 ASIPIKY AVENUE **Zip:** 33063

Other Identifiers: TN001753

Building Name: LAUDERDALE COMMUNITY HOSPITAL

Use: HOSPITAL

Latitude: 35.744353 **Longitude:** 81.549635

Sr: 1.471 **Sr:** 0.506

Screener(s): Abdurrahman Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1973 est

Total Floor Area (sq. ft.): 1900 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Other, Specify: Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity):
 Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S_{L1}

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LC)	S4 (RC (RFR) (RF))	S5 (RM (RF))	C1 (MRF)	C2 (BR)	C3 (LR (RF))	PC1 (TU)	PC2	RH1 (FX)	RH2 (FE)	UR1	MH
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V ₁		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, V ₂		-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.5	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, P ₁		-1.1	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.6	-0.8	-0.5	-0.7	-0.6	-0.7	-0.7	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmarks		1.5	1.9	2.2	1.4	1.4	1.1	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.3	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.6	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S _{min}		1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 1.8 ≥ 0.6

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial

Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > out-off, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (RF) = Unreinforced masonry infill MH = Manufactured Housing FD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.18 RVS form for Structure #17.3

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 120 SANDY LANE **Zip:** 38007

Other Identifiers: TN001800

Building Name: BOGOTA VOLUNTEER FIRE DEPARTMENT

Use: FIRE STATION

Latitude: 36.160798 **Longitude:** -89.440325

S₁: 2.94 **S₂:** 1.085

Screener(s): Abdulrhman Abdalrhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1988 est

Total Floor Area (sq. ft.): 1334 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial **Other Services** Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Founding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S_{L1}

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (RC SW)	S4 (RC SW)	S5 (U/M I/R)	C1 (MRF)	C2 (BR)	C3 (L/RM I/R)	PC1 (TL)	PC2	RM1 (FD)	RM2 (FD)	URM	MH
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.9	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.3	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.5	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	-0.5	-0.5	0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	0.0
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.1	1.6	NA	1.4	1.7	NA	1.5	1.7	1.8	1.6	NA	0.5
Soil Type A or B		0.3	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA
Minimum Score, S _{min}		0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.7 ≥ 0.5

EXTENT OF REVIEW
 Exterior: Partial All Sides Aerial
 Interior: None Visible Entered
 Drawings Reviewed: Yes No
 Soil Type Source: _____
 Geologic Hazards Source: _____
 Contact Person: _____

LEVEL 2 SCREENING PERFORMED?
 Yes, Final Level 2 Score, S_{L2} _____ No
 Nonstructural hazards? Yes No

OTHER HAZARDS
Are There Hazards That Trigger A Detailed Structural Evaluation?
 Pounding potential (unless S₂ > cut-off, if known)
 Falling hazards from taller adjacent building
 Geologic hazards or Soil Type F
 Significant damage/deterioration to the structural system

ACTION REQUIRED
Detailed Structural Evaluation Required?
 Yes, unknown FEMA building type or other building
 Yes, score less than cut-off
 Yes, other hazards present
 No
Detailed Nonstructural Evaluation Recommended? (check one)
 Yes, nonstructural hazards identified that should be evaluated
 No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary
 No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (M) = Unreinforced masonry masonry IM = Manufactured Housing PB = Flexible diaphragm
 BR = Braced frame SW = Shear wall TL = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.19 RVS form for Structure #18

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

PHOTOGRAPH

SKETCH

Additional sketches or comments on separate page

Address: 2080 SYLVAN ROAD
Zip: 38024

Other Identifiers: TN001901

Building Name: CITY OF DYERSBURG FIRE DEPARTMENT STA...
Use: FIRE STATION

Latitude: 36.061396 **Longitude:** -89.544605
S₁: 2.353 **S₂:** 0.644

Screener(s): Abdulrhman Abdalrhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1969 est
Total Floor Area (sq. ft.): 4948 **Code Year:** 1991

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial **Emer. Services** Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Founding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LAC)	S4 (RC SW)	S5 (U/SI BR)	C1 (MRF)	C2 (BW)	C3 (LRM BR)	PC1 (TU)	PC2	RM1 (FD)	RM2 (FD)	URM	MH
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.9	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.3	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.5	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	-0.5	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	0.0	0.0	0.0
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.1	1.6	NA	1.4	1.7	NA	1.5	1.7	1.6	1.6	NA	0.5
Soil Type A or B		0.3	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA
Minimum Score, S _{min}		0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.7 ≥ 0.5

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered
Drawings Reviewed: Yes No
Soil Type Source: _____
Geologic Hazards Source: _____
Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No
Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > cut-off, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (M) = Unreinforced masonry masonry (M) MH = Manufactured Housing PB = Flexible diaphragm BR = Braced frame SW = Shear wall TU = Tie up LM = Light metal RD = Rigid diaphragm

Figure J.20 RVS form for Structure #19.1



Figure J.21 Image of Structure #19.1

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

PHOTOGRAPH

SKETCH

Additional sketches or comments on separate page

Address: 2080 SYLVAN ROAD
Zip: 38024

Other Identifiers: TN001902

Building Name: CITY OF DYERSBURG FIRE DEPARTMENT STA...
Use: FIRE STATION

Latitude: 36.061396 **Longitude:** -89.544605
S₁: 2.353 **S₂:** 0.644

Screener(s): Abdulrhman Abdalrhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1991 est
Total Floor Area (sq. ft.): 2040 **Code Year:** 1991

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial **Other Services** Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Founding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2	S3 (RC)	S4 (RC SW)	S5 (U/MF)	C1 (MRF)	C2 (RM)	C3 (LRM)	PC1 (TL)	PC2	RM1 (F)	RM2 (FD)	URM	MH
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.0	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.3	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.5	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	-0.5	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	0.0
Post-Benchmark		1.9	1.9	2.0	1.0	0.9	1.1	1.6	NA	1.4	1.7	NA	1.5	1.7	1.8	1.6	NA	0.5
Soil Type A or B		0.3	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA
Minimum Score, S _{min}		0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 2.0 ≥ 0.5

<p>EXTENT OF REVIEW</p> <p>Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____</p> <p>LEVEL 2 SCREENING PERFORMED?</p> <p><input type="checkbox"/> Yes, Final Level 2 Score, S_{L2} _____ <input type="checkbox"/> No Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>OTHER HAZARDS</p> <p>Are There Hazards That Trigger A Detailed Structural Evaluation?</p> <p><input type="checkbox"/> Pounding potential (unless S_{L1} > cut-off, if known) <input type="checkbox"/> Falling hazards from taller adjacent building <input type="checkbox"/> Geologic hazards or Soil Type F <input type="checkbox"/> Significant damage/deterioration to the structural system</p>	<p>ACTION REQUIRED</p> <p>Detailed Structural Evaluation Required?</p> <p><input type="checkbox"/> Yes, unknown FEMA building type or other building <input type="checkbox"/> Yes, score less than cut-off <input type="checkbox"/> Yes, other hazards present <input type="checkbox"/> No</p> <p>Detailed Nonstructural Evaluation Recommended? (check one)</p> <p><input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated <input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary <input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK</p>
--	--	---

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (M) = Unreinforced masonry (masonry) MH = Manufactured Housing FD = Flexible diaphragm
FR = Free end frame SW = Shear wall TL = Tie up LM = Light metal RD = Rigid diaphragm

Figure J.22 RVS form for Structure #19.2




Figure J.23 Image of Structure #19.2

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 2080 SYLVAN ROAD
Zip: 38024

Other Identifiers: TN001903

Building Name: CITY OF DYERSBURG FIRE DEPARTMENT STA...
Use: FIRE STATION

Latitude: 36.061396 **Longitude:** -89.544605
S₁: 2.353 **S₂:** 0.644

Screeners: Abdulrhman Abdalrhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1991 est
Total Floor Area (sq. ft.): 1061 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial **Emer. Services** Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Stiff Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Founding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S_{L1}

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (RC SW)	S4 (RC SW)	S5 (URM MFR)	C1 (MRF)	C2 (BR)	C3 (URM MFR)	PC1 (TU)	PC2	RM1 (FD)	RM2 (FD)	URM	MH
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.0	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.3	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.5	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	-0.5	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	0.0
Post-Benchmark		1.9	1.9	2.0	1.0	0.9	1.1	1.6	NA	1.4	1.7	NA	1.5	1.7	1.6	1.6	NA	0.6
Soil Type A or B		0.3	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA
Minimum Score, S _{min}		0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 2.0 ≥ 0.5

EXTENT OF REVIEW
 Exterior: Partial All Sides Aerial
 Interior: None Visible Entered
 Drawings Reviewed: Yes No
 Soil Type Source: _____
 Geologic Hazards Source: _____
 Contact Person: _____

LEVEL 2 SCREENING PERFORMED?
 Yes, Final Level 2 Score, S_{L2} _____ No
 Nonstructural hazards? Yes No

OTHER HAZARDS
Are There Hazards That Trigger A Detailed Structural Evaluation?
 Pounding potential (unless S_{L1} > cut-off, if known)
 Falling hazards from taller adjacent building
 Geologic hazards or Soil Type F
 Significant damage/deterioration to the structural system

ACTION REQUIRED
Detailed Structural Evaluation Required?
 Yes, unknown FEMA building type or other building
 Yes, score less than cut-off
 Yes, other hazards present
 No
Detailed Nonstructural Evaluation Recommended? (check one)
 Yes, nonstructural hazards identified that should be evaluated
 No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary
 No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST = Estimated or unreliable data** **OR** **DNK = Do Not Know**

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MFR = unreinforced masonry mfr MH = Manufactured Housing PB = Flexible diaphragm
 BR = Braced frame SW = Shear wall TU = Tie up IM = light metal RD = Rigid diaphragm

Figure J.24 RVS form for Structure #19.3



Figure J.25 Image of Structure #19.3

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

Address: 5387 STATE HIGHWAY 104 WEST **Zip:** 38024

Other Identifiers: TN002000

Building Name: FINLEY VOLUNTIER FIRE DEPARTMENT

Use: FIRE STATION

Latitude: 36.035547 **Longitude:** -89.479364

S₁: 2.378 **S₂:** 0.852

Screeener(s): Abdulrhman Abdalrhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1995 est

Total Floor Area (sq. ft.): 3150 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial **Other Services** Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Stiff Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Founding Falling Hazards from Taller Adjacent Building


Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

PHOTOGRAPH



SKETCH

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S_{L1}

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LC)	S4 (RC SW)	S5 (U/M I/R)	C1 (MRF)	C2 (BW)	C3 (L/R I/R)	PC1 (TL)	PC2	RM1 (F)	RM2 (D)	UR#	MH
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.9	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.3	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.5	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	-0.5	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	0.0
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.1	1.6	NA	1.4	1.7	NA	1.5	1.7	1.6	1.6	NA	0.5
Soil Type A or B		0.3	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA
Minimum Score, S _{min}		0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 2.3 ≥ 0.3

EXTENT OF REVIEW
 Exterior: Partial All Sides Aerial
 Interior: None Visible Entered
 Drawings Reviewed: Yes No
 Soil Type Source: _____
 Geologic Hazards Source: _____
 Contact Person: _____

LEVEL 2 SCREENING PERFORMED?
 Yes, Final Level 2 Score, S_{L2} _____ No
 Nonstructural hazards? Yes No

OTHER HAZARDS
 Are There Hazards That Trigger A Detailed Structural Evaluation?
 Pounding potential (unless S₂ > cut-off, if known)
 Falling hazards from taller adjacent building
 Geologic hazards or Soil Type F
 Significant damage/deterioration to the structural system

ACTION REQUIRED
 Detailed Structural Evaluation Required?
 Yes, unknown FEMA building type or other building
 Yes, score less than cut-off
 Yes, other hazards present
 No
 Detailed Nonstructural Evaluation Recommended? (check one)
 Yes, nonstructural hazards identified that should be evaluated
 No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary
 No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST = Estimated or unreliable data** **OR** **DNK = Do Not Know**

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (M) = Unreinforced masonry masonry TL = Tilt up MH = Manufactured Housing PB = Flexible diaphragm BR = Braced frame SW = Shear wall IM = Light metal RD = Rigid diaphragm

Figure J.26 RVS form for Structure #20




Figure J.27 Image of Structure #20

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 215 EAST PARKVIEW STREET Zip: 38024

Other Identifiers: TN002100

Building Name: CITY OF DYERSBURG FIRE DEPARTMENT STA...
Use: FIRE STATION

Latitude: 36.046218 Longitude: -89.38216
S₁: 2.353 S₂: 0.642

Screener(s): Abdulrhman Abdalrhadi Date/Time: _____

No. Stories: Above Grade: _____ Below Grade: _____ Year Built: 1969 est
Total Floor Area (sq. ft.): 2760 Code Year: 1991

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial **Emer. Services** Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Founding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S_{L1}

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LRC)	S4 (RC SW)	S5 (U/M IFR)	C1 (MRF)	C2 (BR)	C3 (LRM IFR)	PC1 (TL)	PC2	RM1 (FD)	RM2 (FD)	URM	MH
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.9	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.3	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.5	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	-0.5	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	0.0
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.1	1.6	NA	1.4	1.7	NA	1.5	1.7	1.6	1.6	NA	0.5
Soil Type A or B		0.3	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA
Minimum Score, S _{min}		0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} **0.3** ≥ 0.3

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered
Drawings Reviewed: Yes No
Soil Type Source: _____
Geologic Hazards Source: _____
Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2}: _____ No
Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > cut-off, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM IFR = Unreinforced masonry infill MH = Manufactured Housing FB = Flexible diaphragm BR = Braced frame SW = Shear wall TL = Tilt up IM = Light metal RD = Rigid diaphragm

Figure J.28 RVS form for Structure #21




Figure J.29 Image of Structure #21

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 216 SOUTH CHURCH AVENUE **Zip:** 38024

Other Identifiers: TN002300

Building Name: CITY OF DYERSBURG FIRE DEPARTMENT STA...

Use: FIRE STATION

Latitude: 36.031448 **Longitude:** -89.587811

S₁: 2.292 **S₂:** 0.814

Screener(s): Abdulrhman Abdalrhadi **Date/Time:**

No. Stories: Above Grade: _____ Below Grade: _____ **Year Built:** 1961 est

Total Floor Area (sq. ft.): 5090 **Code Year:** 1991

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial **Other Services** Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg Dense Stiff Soft Poor
Rock Rock Soil Soil Soil Soil
#DNK, assume Type D

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Founding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LAC)	S4 (RC SW)	S5 (U/M IFR)	C1 (MRF)	C2 (DM)	C3 (LRM (RF))	PC1 (TL)	PC2	RM1 (F)	RM2 (FD)	UR#	MH
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.9	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.3	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.5	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	-0.5	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	0.0
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.1	1.6	NA	1.4	1.7	NA	1.5	1.7	1.6	1.6	NA	0.5
Soil Type A or B		0.3	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA
Minimum Score, S _{min}		0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.5 ≥ 0.5

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No
Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S₂ > cut-off, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (M) = Unreinforced masonry (wall) MH = Manufactured Housing FD = Flexible diaphragm
BR = Braced frame SW = Shear wall TL = Tilt up IM = Light metal RD = Rigid diaphragm

Figure J.30 RVS form for Structure #22




Figure J.31 Image of Structure #22

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 161 FIREHOUSE LANE
Zip: 38024

Other Identifiers: TN002300

Building Name: BONICORD VOLUNTEER FIRE DEPARTMENT

Use: FIRE STATION

Latitude: 35.953651 **Longitude:** -89.520372

S₁: 1.852 **S₂:** 0.638

Screener(s): Abdulrhman Abdalrhadi **Date/Time:**

No. Stories: Above Grade: _____ Below Grade: _____ **Year Built:** 1995 est

Total Floor Area (sq. ft.): 2090 **Code Year:** 1991

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial **Emer. Services** Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg. Dense Stiff Soft Poor
Rock Rock Soil Soil Soil Soil
#DNK, assume Type D

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Founding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LAC)	S4 (RC SW)	S5 (U/M I/M)	C1 (MRF)	C2 (BM)	C3 (LRM/IF)	PC1 (TU)	PC2	RM1 (F)	RM2 (FD)	URM	MH
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.9	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.3	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.4	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	-0.5	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	0.0
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.1	1.6	NA	1.4	1.7	NA	1.5	1.7	1.8	1.6	NA	0.5
Soil Type A or B		0.5	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA
Minimum Score, S _{min}		0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 2.7 ≥ 0.7

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S₂ > cut-off, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (M) = Unreinforced masonry (infill) MH = Manufactured Housing FD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tie up IM = light metal RD = Rigid diaphragm

Figure J.32 RVS form for Structure #23




Figure J.33 Image of Structure #23

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 2510 BRUCEVILLE SLAB ROAD
Zip: 38024

Other Identifiers: TN002400

Building Name: BRUCEVILLE VOLUNTIER FIRE DEPARTMENT

Use: FIRE STATION

Latitude: 35.922602 **Longitude:** -89.550964
S₁: 1.275 **S₂:** 0.400

Screeener(s): Abdulrahman Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1987 est
Total Floor Area (sq. ft.): 1100 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial **Emer. Services** Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Stiff Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Founding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LAC)	S4 (RC SW)	S5 (U/MF MF)	C1 (MRF)	C2 (BM)	C3 (LRM MF)	PC1 (TL)	PC2	RM1 (F)	RM2 (FC)	URM	MH
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.9	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.3	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.5	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	-0.5	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	0.0	0.0	0.0
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.1	1.6	NA	1.4	1.7	NA	1.5	1.7	1.8	1.6	NA	0.5
Soil Type A or B		0.3	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA
Minimum Score, S _{min}		0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} **1.2** ≥ **0.7**

<p>EXTENT OF REVIEW</p> <p>Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____</p> <p>LEVEL 2 SCREENING PERFORMED?</p> <p><input type="checkbox"/> Yes, Final Level 2 Score, S_{L2} _____ <input type="checkbox"/> No Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>OTHER HAZARDS</p> <p>Are There Hazards That Trigger A Detailed Structural Evaluation?</p> <p><input type="checkbox"/> Pounding potential (unless S_{L1} > cut-off, if known) <input type="checkbox"/> Falling hazards from taller adjacent building <input type="checkbox"/> Geologic hazards or Soil Type F <input type="checkbox"/> Significant damage/deterioration to the structural system</p>	<p>ACTION REQUIRED</p> <p>Detailed Structural Evaluation Required?</p> <p><input type="checkbox"/> Yes, unknown FEMA building type or other building <input type="checkbox"/> Yes, score less than cut-off <input type="checkbox"/> Yes, other hazards present <input type="checkbox"/> No</p> <p>Detailed Nonstructural Evaluation Recommended? (check one)</p> <p><input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated <input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary <input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK</p>
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Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MF = unreinforced masonry mull MH = Manufactured Housing FB = Flexible diaphragm
BR = Braced frame SW = Shear wall TL = Tie up LM = Light metal RD = Rigid diaphragm

Figure J.34 RVS form for Structure #24

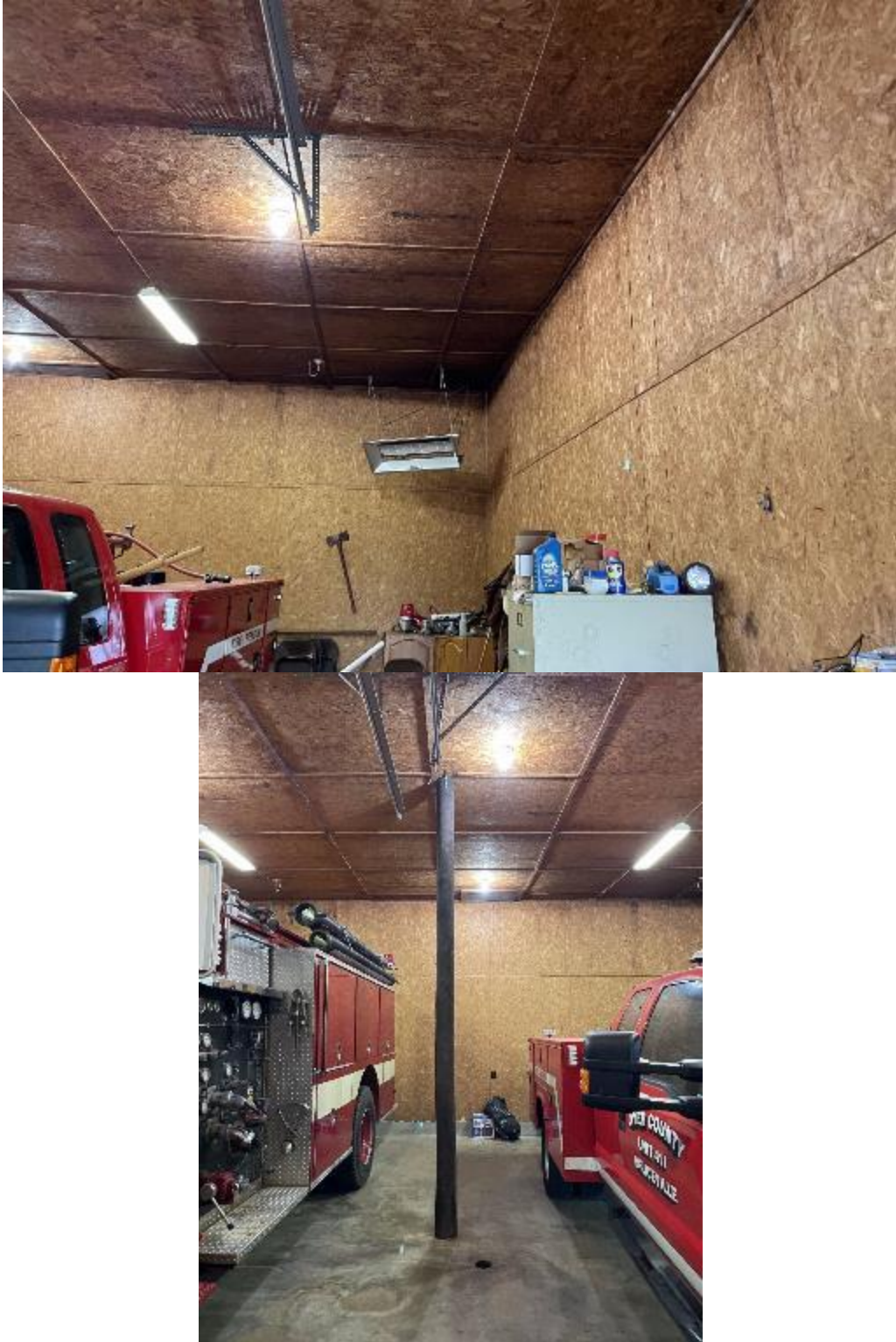


Figure J.35 Image of Structure #24

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

PHOTOGRAPH

SKETCH

Additional sketches or comments on separate page

Address: 645 STATE HIGHWAY 210 SOUTH
Zip: 38024

Other Identifiers: TN002500

Building Name: FOWLER'S VOLUNTEER FIRE DEPARTMENT

Use: FIRE STATION

Latitude: 35.974985 **Longitude:** -89.590223

S₁: 2.053 **S₂:** 0.713

Screener(s): Abdulrhman Abdalrhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1993 est

Total Floor Area (sq. ft.): 1787 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial **Emer. Services** Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Founding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LC)	S4 (RC SW)	S5 (U/M IFR)	C1 (MRF)	C2 (SW)	C3 (LRM (R))	PC1 (TL)	PC2	RM1 (F)	RM2 (D)	UR#	MH
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.9	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.3	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.4	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	0.3	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	0.0
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.1	1.6	NA	1.4	1.7	NA	1.5	1.7	1.8	1.6	NA	0.5
Soil Type A or B		0.3	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA
Minimum Score, S _{min}		0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} **2.0** ≥ **0.5**

<p>EXTENT OF REVIEW</p> <p>Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____</p> <p>LEVEL 2 SCREENING PERFORMED?</p> <p><input type="checkbox"/> Yes, Final Level 2 Score, S_{L2} _____ <input type="checkbox"/> No Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>OTHER HAZARDS</p> <p>Are There Hazards That Trigger A Detailed Structural Evaluation?</p> <p><input type="checkbox"/> Pounding potential (unless S_{L1} > cut-off, if known)</p> <p><input type="checkbox"/> Falling hazards from taller adjacent building</p> <p><input type="checkbox"/> Geologic hazards or Soil Type F</p> <p><input type="checkbox"/> Significant damage/deterioration to the structural system</p>	<p>ACTION REQUIRED</p> <p>Detailed Structural Evaluation Required?</p> <p><input type="checkbox"/> Yes, unknown FEMA building type or other building</p> <p><input type="checkbox"/> Yes, score less than cut-off</p> <p><input type="checkbox"/> Yes, other hazards present</p> <p><input type="checkbox"/> No</p> <p>Detailed Nonstructural Evaluation Recommended? (check one)</p> <p><input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated</p> <p><input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary</p> <p><input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK</p>
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Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (M) = Unreinforced masonry (infill) MH = Manufactured Housing FB = Flexible diaphragm
BR = Braced frame SW = Shear wall TL = Tie up IM = Light metal RD = Rigid diaphragm

Figure J.36 RVS form for Structure #25

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

PHOTOGRAPH

SKETCH

Additional sketches or comments on separate page

Address: 5519 MILLSFIELD HIGHWAY
Zip: 38024

Other Identifiers: TN002600

Building Name: MILLSFIELD VOLUNTEER FIRE DEPARTMENT

Use: FIRE STATION

Latitude: 36.13934 **Longitude:** -89.384039

S₁: 2.719 **S₂:** 1.02

Screeners: Abdulrhman Abdalrhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 2006 est

Total Floor Area (sq. ft.): 6475 **Code Year:** 1991

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial **Emer. Services** Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Founding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LAC)	S4 (RC SW)	S5 (U/SI BR)	C1 (MRF)	C2 (BW)	C3 (LRM BR)	PC1 (TU)	PC2	RM1 (F)	RM2 (D)	URM	MH
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.0	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.3	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.5	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	0.3	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	0.0	0.0	0.0
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.1	1.6	NA	1.4	1.7	NA	1.5	1.7	1.6	1.6	NA	0.6
Soil Type A or B		0.3	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA
Minimum Score, S _{min}		0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 2.0 ≥ 0.5

<p>EXTENT OF REVIEW</p> <p>Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____</p> <p>LEVEL 2 SCREENING PERFORMED?</p> <p><input type="checkbox"/> Yes, Final Level 2 Score, S_{L2} _____ <input type="checkbox"/> No Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>OTHER HAZARDS</p> <p>Are There Hazards That Trigger A Detailed Structural Evaluation?</p> <p><input type="checkbox"/> Pounding potential (unless S_{L1} > cut-off, if known)</p> <p><input type="checkbox"/> Falling hazards from taller adjacent building</p> <p><input type="checkbox"/> Geologic hazards or Soil Type F</p> <p><input type="checkbox"/> Significant damage/deterioration to the structural system</p>	<p>ACTION REQUIRED</p> <p>Detailed Structural Evaluation Required?</p> <p><input type="checkbox"/> Yes, unknown FEMA building type or other building <input type="checkbox"/> Yes, score less than cut-off <input type="checkbox"/> Yes, other hazards present <input type="checkbox"/> No</p> <p>Detailed Nonstructural Evaluation Recommended? (check one)</p> <p><input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated <input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary <input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK</p>
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Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (M) = unreinforced masonry mull MH = Manufactured Housing PD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tie up IM = light metal RD = Rigid diaphragm

Figure J.37 RVS form for Structure #26

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

PHOTOGRAPH

SKETCH

Additional sketches or comments on separate page

Address: 255 BOOTH'S POINT ROAD
Zip: 38147

Other Identifiers: TN002701

Building Name: LENOX VOLUNTEER FIRE DEPARTMENT

Use: FIRE STATION

Latitude: 36.083298 **Longitude:** -89.901056

S₁: 2.694 **S₂:** 0.955

Screener(s): Abdulrhman Abdalrhadi **Date/Time:**

No. Stories: Above Grade: _____ Below Grade: _____ **Year Built:** 1992 est

Total Floor Area (sq. ft.): 2870 **Code Year:** 1991

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial **Other Services** Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg Dense Stiff Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Founding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LAC)	S4 (RC SW)	S5 (U/M IFR)	C1 (MRF)	C2 (BR)	C3 (LRM IFR)	PC1 (TU)	PC2	RM1 (FD)	RM2 (FD)	URM	MH
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.9	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.5	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	-0.5	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	0.0
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.1	1.6	NA	1.4	1.7	NA	1.5	1.7	1.8	1.6	NA	0.5
Soil Type A or B		0.5	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA
Minimum Score, S _{min}		0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{avg} 3.3 ≥ 0.7

<p>EXTENT OF REVIEW</p> <p>Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial</p> <p>Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered</p> <p>Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Soil Type Source: _____</p> <p>Geologic Hazards Source: _____</p> <p>Contact Person: _____</p>	<p>OTHER HAZARDS</p> <p>Are There Hazards That Trigger A Detailed Structural Evaluation?</p> <p><input type="checkbox"/> Pounding potential (unless S₂ > cut-off, if known)</p> <p><input type="checkbox"/> Falling hazards from taller adjacent building</p> <p><input type="checkbox"/> Geologic hazards or Soil Type F</p> <p><input type="checkbox"/> Significant damage/deterioration to the structural system</p>	<p>ACTION REQUIRED</p> <p>Detailed Structural Evaluation Required?</p> <p><input type="checkbox"/> Yes, unknown FEMA building type or other building</p> <p><input type="checkbox"/> Yes, score less than cut-off</p> <p><input type="checkbox"/> Yes, other hazards present</p> <p><input type="checkbox"/> No</p> <p>Detailed Nonstructural Evaluation Recommended? (check one)</p> <p><input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated</p> <p><input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary</p> <p><input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK</p>
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Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (M) = Unreinforced masonry mull MH = Manufactured Housing FD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tie up IM = Light metal RD = Rigid diaphragm

Figure J.38 RVS form for Structure #27.1

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

PHOTOGRAPH

SKETCH

Additional sketches or comments on separate page

Address: 255 BOOTH'S POINT ROAD
Zip: 38147

Other Identifiers: TN002702

Building Name: LENOX VOLUNTEER FIRE DEPARTMENT

Use: FIRE STATION

Latitude: 36.083298 **Longitude:** -89.901056

S₁: 2.694 **S₂:** 0.955

Screener(s): Abdulrhman Abdalrhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1992 est

Total Floor Area (sq. ft.): 957 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial **Other Services** Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Stiff Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Founding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity)
 Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LAC)	S4 (RC SW)	S5 (U/MF MF)	C1 (MRF)	C2 (BM)	C3 (LRM MF)	PC1 (TL)	PC2	RM1 (FD)	RM2 (FD)	URM	MH
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.9	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.5	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	-0.5	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	0.0
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.1	1.6	NA	1.4	1.7	NA	1.5	1.7	1.8	1.6	NA	0.5
Soil Type A or B		0.5	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA
Minimum Score, S _{min}		0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{avg} 3.3 ≥ 0.7

<p>EXTENT OF REVIEW</p> <p>Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered</p> <p>Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Soil Type Source: _____</p> <p>Geologic Hazards Source: _____</p> <p>Contact Person: _____</p>	<p>OTHER HAZARDS</p> <p>Are There Hazards That Trigger A Detailed Structural Evaluation?</p> <p><input type="checkbox"/> Pounding potential (unless S₂ > cut-off, if known)</p> <p><input type="checkbox"/> Falling hazards from taller adjacent building</p> <p><input type="checkbox"/> Geologic hazards or Soil Type F</p> <p><input type="checkbox"/> Significant damage/deterioration to the structural system</p>	<p>ACTION REQUIRED</p> <p>Detailed Structural Evaluation Required?</p> <p><input type="checkbox"/> Yes, unknown FEMA building type or other building</p> <p><input type="checkbox"/> Yes, score less than cut-off</p> <p><input type="checkbox"/> Yes, other hazards present</p> <p><input type="checkbox"/> No</p> <p>Detailed Nonstructural Evaluation Recommended? (check one)</p> <p><input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated</p> <p><input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary</p> <p><input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK</p>
--	--	--

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (MF) = Unreinforced masonry/infill MH = Manufactured Housing FD = Flexible diaphragm
BR = Braced frame SW = Shear wall TL = Tie up IM = Light metal RD = Rigid diaphragm

Figure J.39 RVS form for Structure #27.2

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

PHOTOGRAPH

Address: 1030 TATUMVILLE ROAD **Zip:** 38059

Other Identifiers: TN002800

Building Name: EAST DYER COUNTY VOLUNTEER FIRE DEPAR...
Use: FIRE STATION

Latitude: 36.043229 **Longitude:** -89.193091
S₁: 1.885 **S₂:** 0.659

Screener(s): Abdulrhman Abdalrhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1992 est
Total Floor Area (sq. ft.): 2210 **Code Year:** 1991

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial **Emer. Services** Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg. Dense Stiff Soft Poor
Rock Rock Soil Soil Soil Soil
#DNK, assume Type D

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Founding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

Additional sketches or comments on separate page

PHOTOGRAPH

SKETCH

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S_{L1}

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (JC)	S4 (RC)	S5 (U/MF)	C1 (MRF)	C2 (BW)	C3 (L/R)	PC1 (TU)	PC2	RM1 (FD)	RM2 (FD)	UR#	MH
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.9	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.3	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.5	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	-0.5	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	0.0
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.1	1.6	NA	1.4	1.7	NA	1.5	1.7	1.6	1.6	NA	0.5
Soil Type A or B		0.3	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA
Minimum Score, S _{min}		0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 1.9 ≥ 0.3

EXTENT OF REVIEW
Exterior: Partial All Sides Aerial
Interior: None Visible Entered
Drawings Reviewed: Yes No
Soil Type Source: _____
Geologic Hazards Source: _____
Contact Person: _____

LEVEL 2 SCREENING PERFORMED?
 Yes, Final Level 2 Score, S_{L2}: _____ No
Nonstructural hazards? Yes No

OTHER HAZARDS
Are There Hazards That Trigger A Detailed Structural Evaluation?
 Pounding potential (unless S_{L1} > cut-off, if known)
 Falling hazards from taller adjacent building
 Geologic hazards or Soil Type F
 Significant damage/deterioration to the structural system

ACTION REQUIRED
Detailed Structural Evaluation Required?
 Yes, unknown FEMA building type or other building
 Yes, score less than cut-off
 Yes, other hazards present
 No
Detailed Nonstructural Evaluation Recommended? (check one)
 Yes, nonstructural hazards identified that should be evaluated
 No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary
 No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (M) = Unreinforced masonry masonry wall MH = Manufactured Housing FD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tie up IM = Light metal RD = Rigid diaphragm

Figure J.40 RVS form for Structure #28

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 113 JEFFERSON STREET
Zip: 38059

Other Identifiers: TN002900

Building Name: NEWBURN VOLUNTEER FIRE DEPARTMENT

Use: FIRE STATION

Latitude: 36.112507 **Longitude:** -89.263245

S₁: 2.526 **S₂:** 0.831

Screener(s): Abdulrhman Abdalrhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1975 est

Total Floor Area (sq. ft.): 4775 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial **Other Services** Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Stiff Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Founding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity)
 Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LAC)	S4 (RC SW)	S5 (U/SI BR)	C1 (MRF)	C2 (BW)	C3 (LRM (R))	PC1 (TL)	PC2	RM1 (F)	RM2 (FC)	URM	MH
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.9	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.3	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.5	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	-0.5	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	0.0	0.0	0.0
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.1	1.6	NA	1.4	1.7	NA	1.5	1.7	1.6	1.6	NA	0.5
Soil Type A or B		0.3	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA
Minimum Score, S _{avg}		0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{avg} 0.5 > **0.7**

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2}: _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > cut-off, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (M) = Unreinforced masonry mull MH = Manufactured Housing FB = Flexible diaphragm
BR = Braced frame SW = Shear wall TL = Tie up IM = light metal RD = Rigid diaphragm

Figure J.41 RVS form for Structure #29

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 162 STOKES ROAD **Zip:** 38070

Other Identifiers: TN009000

Building Name: TIGRETT VOLUNTEER FIRE DEPARTMENT

Use: FIRE STATION

Latitude: 35.951545 **Longitude:** -89.240521

S₁: L082 **S₂:** 0.578

Screeener(s): Abdulrhman Abdalrhadi **Date/Time:**

No. Stories: Above Grade: _____ Below Grade: _____ **Year Built:** 1988 est

Total Floor Area (sq. ft.): 2704 **Code Year:** 1991

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial **Emer. Services** Historic Shelter
 Industrial Office School Government
 Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
 Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Founding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LC)	S4 (RC SW)	S5 (URM IR)	C1 (MRF)	C2 (BR)	C3 (LRM IR)	PC1 (TL)	PC2	RM1 (FD)	RM2 (FD)	URM	MH
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.9	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.3	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.5	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	-0.5	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	0.0	0.0	0.0
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.1	1.6	NA	1.4	1.7	NA	1.5	1.7	1.6	1.6	NA	0.5
Soil Type A or B		0.3	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA
Minimum Score, S _{min}		0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} **1.1** > 0.5

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
 Interior: None Visible Entered
 Drawings Reviewed: Yes No
 Soil Type Source: _____
 Geologic Hazards Source: _____
 Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2}: _____ No
 Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S₂ > cut-off, if known)
 Falling hazards from taller adjacent building
 Geologic hazards or Soil Type F
 Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building
 Yes, score less than cut-off
 Yes, other hazards present
 No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated
 No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary
 No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (M) = Unreinforced masonry (masonry) MH = Manufactured Housing FD = Flexible diaphragm
 BR = Braced frame SW = Shear wall TL = Tie up LM = Light metal RD = Rigid diaphragm

Figure J.42 RVS form for Structure #30

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 55 ORION STREET Zip: 38259

Other Identifiers: TN003100

Building Name: TREBLECURE DEPARTMENT

Use: FIRE STATION

Latitude: 36.204246 Longitude: -89.190506

S₁: 2.267 S₂: 0.818

Screener(s): Abdulrhman Abdalrhadi Date/Time:

No. Stories: Above Grade: Below Grade: Year Built: 2017 est

Total Floor Area (sq. ft.): 2251 Code Year: 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial **Fire Services** Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Founding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity)
 Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LAC)	S4 (RC SW)	S5 (U/MF BR)	C1 (MRF)	C2 (BR)	C3 (LRM (RF))	PC1 (TU)	PC2	RM1 (FD)	RM2 (FD)	URM	MH
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.9	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.5	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	-0.5	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	0.0	0.0	0.0
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.1	1.6	NA	1.4	1.7	NA	1.5	1.7	1.8	1.6	NA	0.5
Soil Type A or B		0.5	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA
Minimum Score, S _{min}		0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} **3.3** > 0.7

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2}: _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S₂ > cut-off, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (M) = Unreinforced masonry masonry BR = Braced frame SW = Shear wall LRM (M) = Laminated masonry masonry MH = Manufactured Housing IM = Light metal PD = Flexible diaphragm FD = Rigid diaphragm

Figure J.43 RVS form for Structure #31

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 175 CURVE NANKIPPO ROAD **Zip:** 35063

Other Identifiers: TN003200

Building Name: EAST LAUDERDALE COUNTY VOLUNTEER FIRE...
Use: FIRE STATION

Latitude: 35.805107 **Longitude:** -89.438377
S₁: 1.515 **S₂:** 0.252

Screener(s): Abdulrhman Abdalrhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 2009 est
Total Floor Area (sq. ft.): 2040 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Stiff Soft Poor
Rock Rock Soil Soil Soil Soil
#DNK, assume Type D

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Founding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LFR)	S4 (RC SW)	S5 (UFR)	C1 (MRF)	C2 (BR)	C3 (LFR)	PC1 (TU)	PC2	RM1 (FD)	RM2 (FD)	UR#	MH
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.0	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.3	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.5	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	-0.5	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	0.0
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.3	1.5	NA	1.4	1.7	NA	1.5	1.7	1.8	1.6	NA	0.5
Soil Type A or B		0.3	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA
Minimum Score, S _{min}		0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 2.1 > 0.5

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered
Drawings Reviewed: Yes No
Soil Type Source: _____
Geologic Hazards Source: _____
Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No
Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > cut-off, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (M) = Unreinforced masonry (masonry) MH = Manufactured Housing FD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tie up IM = Light metal RD = Rigid diaphragm

Figure J.44 RVS form for Structure #32

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 56 ARP CENTRAL ROAD **Zip:** 38063

Other Identifiers: TN003300

Building Name: NORTHWEST LAUDERDALE COUNTY FIRE DEPT...

Use: FIRE STATION

Latitude: 35.8042 **Longitude:** -89.538286

S₁: 1.628 **S₂:** 0.549

Screener(s): Abdulrhman Abdalrhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 2008 est

Total Floor Area (sq. ft.): 2560 **Code Year:** 1991

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial **Emer. Services** Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg. Dense Stiff Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Founding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LFR)	S4 (RC SW)	S5 (UFR)	C1 (MRF)	C2 (BR)	C3 (LFR)	PC1 (TU)	PC2	RM1 (FD)	RM2 (FD)	UR#	MH
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.9	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.3	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.5	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	-0.5	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	0.0
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.3	1.5	NA	1.4	1.7	NA	1.5	1.7	1.8	1.6	NA	0.5
Soil Type A or B		0.3	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA
Minimum Score, S _{min}		0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 2.1 > 0.5

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S₂ > cut-off, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (M) = Unreinforced masonry (infill) MH = Manufactured Housing FD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tie up IM = light metal RD = Rigid diaphragm

Figure J.45 RVS form for Structure #33

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

PHOTOGRAPH

Address: 3838 LIGHTFOOT LUCKETTI ROAD
Zip: 35063

Other Identifiers: TN003400

Building Name: WEST LAUDERDALE COUNTY FIRE DEPARTMENT
Use: FIRE STATION

Latitude: 35.749331 **Longitude:** -89.627852
S₁: 1.398 **S₂:** 0.534

Screener(s): Abdulrhman Abdalrhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 2002 est
Total Floor Area (sq. ft.): 2600 **Code Year:** 1991

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial **Emer. Services** Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg. Dense Stiff Soft Poor
Rock Rock Soil Soil Soil Soil
#DNK, assume Type D

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Founding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

Additional sketches or comments on separate page

PHOTOGRAPH

SKETCH

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S_{L1}

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (RC SW)	S4 (RC SW)	S5 (URM MRF)	C1 (MRF)	C2 (BR)	C3 (URM MRF)	PC1 (TU)	PC2	RM1 (FD)	RM2 (FD)	URM	MH
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.9	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.3	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.5	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	-0.5	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	0.0
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.3	1.5	NA	1.4	1.7	NA	1.5	1.7	1.8	1.6	NA	0.5
Soil Type A or B		0.3	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA
Minimum Score, S _{min}		0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 2.1 > 0.5

EXTENT OF REVIEW
Exterior: Partial All Sides Aerial
Interior: None Visible Entered
Drawings Reviewed: Yes No
Soil Type Source: _____
Geologic Hazards Source: _____
Contact Person: _____

LEVEL 2 SCREENING PERFORMED?
 Yes, Final Level 2 Score, S_{L2}: _____ No
Nonstructural hazards? Yes No

OTHER HAZARDS
Are There Hazards That Trigger A Detailed Structural Evaluation?
 Pounding potential (unless S_{L1} > cut-off, if known)
 Falling hazards from taller adjacent building
 Geologic hazards or Soil Type F
 Significant damage/deterioration to the structural system

ACTION REQUIRED
Detailed Structural Evaluation Required?
 Yes, unknown FEMA building type or other building
 Yes, score less than cut-off
 Yes, other hazards present
 No
Detailed Nonstructural Evaluation Recommended? (check one)
 Yes, nonstructural hazards identified that should be evaluated
 No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary
 No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry mull MH = Manufactured Housing FD = Flexible diaphragm BR = Braced frame SW = Shear wall TU = Tie up IM = Light metal RC = Rigid diaphragm

Figure J.46 RVS form for Structure #34

PHOTOGRAPH

SKETCH

Additional sketches or comments on separate page

Address: 20 LURAY ROAD **Zip:** 38111

Other Identifiers: 12003201

Building Name: MADISON COUNTY FIRE DEPARTMENT STATION 4

Use: FIRE STATION

Latitude: 35.96517 **Longitude:** -88.63087

Sr: 0.56 **Sr:** 0.252

Screeners: Abdulrahman Abdulhadi **Date/Time:**

No. Stories: Above Grade: _____ Below Grade: _____ **Year Built:** 1955 est

Total Floor Area (sq. ft.): 4464 **Code Year:** 1993

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial **Emer. Services** Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor
Rock Rock Soil Soil Soil Soil
#DNK, assume Type D

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity): _____
 Plan (type): _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF IN)	PC1 (TU)	PC2 (TU)	RM1 (PD)	RM2 (PD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.0 ≥ **0.1**

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Asm. (solid) Housing PD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.47 RVS form for Structure #35.1

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 20 LURAY ROAD **Zip:** 38111

Other Identifiers: 12003902

Building Name: MADISON COUNTY FIRE DEPARTMENT STATION 4

Use: FIRE STATION

Latitude: 35.96517 **Longitude:** -88.63087

Sr: 0.56 **Sr:** 0.252

Screeener(s): Abdulrahman Abdulhadi **Date/Time:**

No. Stories: Above Grade: _____ Below Grade: _____ **Year Built:** 1955 est

Total Floor Area (sq. ft.): 1732 **Code Year:** 1993

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial **Emer. Services** Historic Shelter
 Industrial Office School Government
 Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
 Hard Avg. Dense Silt Soft Poor
 Rock Rock Soil Soil Soil Soil #DNK, assume Type D

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																			
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (MRF)	S4 (RC SW)	S5 (MRF)	C1 (SW)	C2 (SW)	C3 (MRF)	PC1 (TU)	PC2 (TU)	RM1 (RM)	RM2 (RM)	URW	MH	
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2	
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA	
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA	
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3	
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2	
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9	
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5	
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA	
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.4	

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 1.2 ≥ 0.9

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
 Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Assembled Housing PD = Flexible diaphragm
 BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.48 RVS form for Structure #35.2

PHOTOGRAPH

SKETCH

Additional sketches or comments on separate page

Address: 830 VINE HILL ROAD Zip: 58191

Other Identifiers: 12003600

Building Name: MADISON COUNTY FIRE DEPARTMENT STATIO...

Use: FIRE STATION

Latitude: 35.56276 **Longitude:** -88.964997

Sr: 0.763 **Sr:** 0.277

Screeener(s): Abdulrahman Abdulhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1991 est

Total Floor Area (sq. ft.): 2681 **Code Year:** 1993

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial **Emer. Services** Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (RRF)	S2 (RRF)	S3 (RRF)	S4 (RRF SW)	S5 (RRF RT)	C1 (RRF)	C2 (RRF)	C3 (RRF IN)	PC1 (TU)	PC2 (TU)	RM1 (RM)	RM2 (RM)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	NA	1.2	
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 3.2 ≥ 4.1

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Asymmetric Housing PD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RM = Rigid diaphragm

Figure J.49 RVS form for Structure #36

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 172 THREE WAY LANE Zip: 38141

Other Identifiers: 12003700

Building Name: MADISON COUNTY FIRE DEPARTMENT STATION 6

Use: FIRE STATION

Latitude: 35.766971 **Longitude:** -88.84458

Sr: 0.843 **Sr:** 0.301

Screeener(s): Abdulrahman Abdulhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 2010 est

Total Floor Area (sq. ft.): 3287 **Code Year:** 1993

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity): _____
 Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (RR)	S2 (RR)	S3 (I)	S4 (RC SW)	S5 (RR BT)	C1 (RR)	C2 (SW)	C3 (RR IN)	PC1 (I)	PC2	RM1 (I)	RM2 (I)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	NA	1.2	
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4
FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min}		3.2		≥	4.1													

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary


No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM = Unreinforced masonry infill MH = Assembled Housing PD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RM = Rigid diaphragm

Figure J.50 RVS form for Structure #37

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 818 MIFLIN ROAD Zip: 58101

Other Identifiers: 12003800

Building Name: MADISON COUNTY FIRE DEPARTMENT STATIO...

Use: FIRE STATION

Latitude: 35.587341 **Longitude:** -88.741643

Sr: 0.659 **Sr:** 0.261

Screeener(s): Abdulrahman Abdulhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1991 est

Total Floor Area (sq. ft.): 3339 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor
Rock Rock Soil Soil Soil Soil #DNK, assume Type D

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (RR)	S2 (RR)	S3 (R)	S4 (RC SW)	S5 (RRM RT)	C1 (SW)	C2 (SW)	C3 (URM IN)	PC1 (U)	PC2 (U)	RM1 (R)	RM2 (R)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	NA	1.2	
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 3.2 ≥ 1.6

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM = Unreinforced masonry infill MH = Asymmetric Housing PD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RM = Rigid diaphragm

Figure J.51 RVS form for Structure #38

PHOTOGRAPH

SKETCH

Additional sketches or comments on separate page

Address: 2214 LOWER BROWNSVILLE ROAD
Zip: 38001

Other Identifiers: 12003900

Building Name: MADISON COUNTY FIRE DEPARTMENT STATIO...

Use: FIRE STATION

Latitude: 35.651954 **Longitude:** -89.82639E

Sr: 0.858 **Sr:** 0.305

Screeener(s): Abdulrahman Abdulhadi **Data/Time:**

No. Stories: Above Grade: _____ Below Grade: _____ **Year Built:** 1959 est

Total Floor Area (sq. ft.): 2539 **Code Year:** 1993

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial **Emer. Services** Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor
Rock Rock Soil Soil Soil Soil
#DNK, assume Type D

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity): _____
 Plan (type): _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (IWF)	S4 (RC SW)	S5 (MRF)	C1 (SW)	C2 (SW)	C3 (IWF)	PC1 (TU)	PC2 (TU)	RM1 (PD)	RM2 (PD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S_{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.0 **0.3**

EXTENT OF REVIEW	OTHER HAZARDS	ACTION REQUIRED
Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____	Are There Hazards That Trigger A Detailed Structural Evaluation? <input type="checkbox"/> Pounding potential (unless S _{L1} > out-of, if known) <input type="checkbox"/> Falling hazards from taller adjacent building <input type="checkbox"/> Geologic hazards or Soil Type F <input type="checkbox"/> Significant damage/deterioration to the structural system	Detailed Structural Evaluation Required? <input type="checkbox"/> Yes, unknown FEMA building type or other building <input type="checkbox"/> Yes, score less than out-of <input type="checkbox"/> Yes, other hazards present <input type="checkbox"/> No Detailed Nonstructural Evaluation Recommended? (check one) <input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated <input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary <input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK
LEVEL 2 SCREENING PERFORMED? <input type="checkbox"/> Yes, Final Level 2 Score, S _{L2} _____ <input type="checkbox"/> No Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No	Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know	

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Assembled Housing PD = Flexible diaphragm
 BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.52 RVS form for Structure #39

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH

SKETCH

Additional sketches or comments on separate page

Address: 1955 RIVERSIDE DRIVE Zip: 38301

Other Identifiers: 12004900

Building Name: MADISON COUNTY FIRE DEPARTMENT STATION 2

Use: FIRE STATION

Latitude: 35.970665 **Longitude:** -88.818957

Sr: 0.729 **Sr:** 0.268

Screeener(s): Abdulrahman Abdulhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1975 est

Total Floor Area (sq. ft.): 2808 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity):
 Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (IWF)	S4 (RC SW)	S5 (MRF)	C1 (SW)	C2 (SW)	C3 (IWF)	PC1 (TU)	PC2 (TU)	RM1 (PD)	RM2 (PD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.6 ≥ 0.3

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary


No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry mfr LM = Light metal MH = Asymmetric Housing PD = Flexible diaphragm BR = Braced frame SW = Shear wall TU = Tilt up RD = Rigid diaphragm

Figure J.53 RVS form for Structure #40

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 1261 ASHPOLE ROAD Zip: 38104

Other Identifiers: 12004100

Building Name: CITY OF JACKSON FIRE DEPARTMENT STATION

Use: FIRE STATION

Latitude: 35.71604 **Longitude:** -89.84006

Sr: 0.812 **Sr:** 0.292

Screeener(s): Abdulrahman Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1996 est

Total Floor Area (sq. ft.): 7043 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor
Rock Rock Soil Soil Soil Soil
#DNK, assume Type D

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity)
 Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF)	C1 (SW)	C2 (SW)	C3 (MRF)	PC1 (TU)	PC2 (TU)	RM1 (TU)	RM2 (TU)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	NA	1.2	NA
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 2.6 ≥ 0.3

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary


No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Assembled Housing PD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.54 RVS form for Structure #41

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 1528 SOUTH HIGHLAND AVENUE **Zip:** 38201

Other Identifiers: 12004200

Building Name: CITY OF JACKSON FIRE DEPARTMENT STATION

Use: FIRE STATION

Latitude: 35.97048 **Longitude:** -89.814005

Sr: 0.716 **Sr:** 0.265

Screeener(s): Abdulrahman Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1967 est

Total Floor Area (sq. ft.): 6036 **Code Year:** 1993

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial **Emer. Services** Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF)	C1 (SW)	C2 (SW)	C3 (MRF)	PC1 (TU)	PC2	RM1 (PD)	RM2 (PD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	0.2	-0.4	-0.7	-0.7	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.6	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} **1.1** **≥** **0.5**

<p>EXTENT OF REVIEW</p> <p>Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered</p> <p>Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Soil Type Source: _____</p> <p>Geologic Hazards Source: _____</p> <p>Contact Person: _____</p>	<p>OTHER HAZARDS</p> <p>Are There Hazards That Trigger A Detailed Structural Evaluation?</p> <p><input type="checkbox"/> Pounding potential (unless S_{L1} > out-of, if known)</p> <p><input type="checkbox"/> Falling hazards from taller adjacent building</p> <p><input type="checkbox"/> Geologic hazards or Soil Type F</p> <p><input type="checkbox"/> Significant damage/deterioration to the structural system</p>	<p>ACTION REQUIRED</p> <p>Detailed Structural Evaluation Required?</p> <p><input type="checkbox"/> Yes, unknown FEMA building type or other building</p> <p><input type="checkbox"/> Yes, score less than out-of</p> <p><input type="checkbox"/> Yes, other hazards present</p> <p><input type="checkbox"/> No</p> <p>Detailed Nonstructural Evaluation Recommended? (check one)</p> <p><input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated</p> <p><input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary</p> <p><input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK</p>
---	--	--

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Assembled Housing PD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.55 RVS form for Structure #42

PHOTOGRAPH

SKETCH

Additional sketches or comments on separate page

Address: 15 ROOSEVELT PARKWAY Zip: 39201

Other Identifiers: 12004200

Building Name: CITY OF JACKSON FIRE DEPARTMENT STATION

Use: FIRE STATION

Latitude: 35.675266 **Longitude:** -89.785661

Sr: 0.758 **Sr:** 0.27

Screener(s): Abdulrahman Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1959 est

Total Floor Area (sq. ft.): 6196 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor
Rock Rock Soil Soil Soil Soil #DNK, assume Type D

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF IN)	PC1 (TU)	PC2 (TU)	RM1 (FD)	RM2 (FD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	NA	1.2	
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 1.2 ≥ 0.2

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary


No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry mfr IM = Insulated masonry IM = Light metal MH = Asbestos Hazardous FD = Flexible diaphragm BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RM = Rigid diaphragm

Figure J.56 RVS form for Structure #43

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 150 WEST WOOD AVENUE Zip: 39201

Other Identifiers: 12004400

Building Name: CITY OF JACKSON FIRE DEPARTMENT STATION

Use: FIRE STATION

Latitude: 35.671561 **Longitude:** -89.82057

Sr: 0.252 **Sr:** 0.274

Screener(s): Abdulrahman Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1967 est

Total Floor Area (sq. ft.): 8818 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial **Emer. Services** Historic Shelter
Industrial Office School Government
Utility Washhouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF IN)	PC1 (TU)	PC2 (TU)	RM1 (PD)	RM2 (PD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S_{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.6 ≥ 0.3

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Assembled Housing PD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.57 RVS form for Structure #44

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 190 MCLARY ROAD Zip: 38054

Other Identifiers: 12004200

Building Name: MADISON COUNTY FIRE DEPARTMENT STATIO..

Use: FIRE STATION

Latitude: 35.676934 **Longitude:** -88.713475

Sr: 0.729 **Sr:** 0.268

Screeener(s): Abdulrahman Abdulhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1958 est

Total Floor Area (sq. ft.): 2000 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial **Emer. Services** Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (RRF)	S2 (RRF)	S3 (I _h)	S4 (RC SW)	S5 (RRF R _f)	C1 (SW)	C2 (SW)	C3 (RRF IN)	PC1 (TU)	PC2 (TU)	RM1 (RR)	RM2 (RR)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.6	0.7	0.9	0.7	0.6	0.8	0.6	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.6	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.6 ≥ 0.3

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Assembled Housing FD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.58 RVS form for Structure #45

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 3161 CHRISTMASVILLE ROAD Zip: 38704

Other Identifiers: 12004600

Building Name: MADISON COUNTY FIRE DEPARTMENT STATIO...

Use: FIRE STATION

Latitude: 35.724675 **Longitude:** -88.763307

Sr: 0.375 **Sr:** 0.281

Screener(s): Abdulrahman Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1956 est

Total Floor Area (sq. ft.): 4418 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity):
 Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{1F}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MR)	S2 (MR)	S3 (M)	S4 (RC SW)	S5 (RM RT)	C1 (SW)	C2 (SW)	C3 (URD IN)	PC1 (U)	PC2	RM1 (R)	RM2 (R)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	-0.8	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.4
FINAL LEVEL 1 SCORE, S_{1F} ≥ S_{min}		0.6		≥	0.3													

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S₂ _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S₂ > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM = Unreinforced masonry infill MH = Asymmetric Housing PD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.59 RVS form for Structure #46

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 319 OLD BELLS ROAD Zip: 38045

Other Identifiers: 12004700

Building Name: MADISON COUNTY FIRE DEPARTMENT STATIO...

Use: FIRE STATION

Latitude: 35.678766 **Longitude:** -88.992927

Sr: 0.814 **Sr:** 0.292

Screeener(s): Abdulrahman Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1956 EST

Total Floor Area (sq. ft.): 3600 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial **Emer. Services** Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity):
 Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (RR)	S2 (RR)	S3 (I)	S4 (RC SW)	S5 (RR BT)	C1 (SW)	C2 (SW)	C3 (URD IN)	PC1 (U)	PC2	RM1 (R)	RM2 (R)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.6 ≥ 0.3

EXTENT OF REVIEW	OTHER HAZARDS	ACTION REQUIRED
Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____	Are There Hazards That Trigger A Detailed Structural Evaluation? <input type="checkbox"/> Pounding potential (unless S _{L1} > out-of, if known) <input type="checkbox"/> Falling hazards from taller adjacent building <input type="checkbox"/> Geologic hazards or Soil Type F <input type="checkbox"/> Significant damage/deterioration to the structural system	Detailed Structural Evaluation Required? <input type="checkbox"/> Yes, unknown FEMA building type or other building <input type="checkbox"/> Yes, score less than out-of <input type="checkbox"/> Yes, other hazards present <input type="checkbox"/> No Detailed Nonstructural Evaluation Recommended? (check one) <input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated <input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary <input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK
LEVEL 2 SCREENING PERFORMED? <input type="checkbox"/> Yes, Final Level 2 Score, S _{L2} _____ <input type="checkbox"/> No Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No		

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Assembled Housing PD = Flexible diaphragm
 BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.60 RVS form for Structure #47

PHOTOGRAPH

SKETCH

Additional sketches or comments on separate page

Address: 1691 WESTVIEW ROAD Zip: 58101

Other Identifiers: 12004800

Building Name: MADISON COUNTY FIRE DEPARTMENT STATION 5

Use: FIRE STATION

Latitude: 35.605822 **Longitude:** -88.885366

Sr: 0.262 **Sr:** 0.277

Screeners: Abdulrahman Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1975 EST

Total Floor Area (sq. ft.): 4000 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF M)	PC1 (TU)	PC2 (TU)	RM1 (FD)	RM2 (FD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.6 ≥ 0.3

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary


No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Assembled Housing FD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.61 RVS form for Structure #48

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 456 STATE HIGHWAY 138
Zip: 58301

Other Identifiers: 12004900

Building Name: MADISON COUNTY FIRE DEPARTMENT STATION 3

Use: FIRE STATION

Latitude: 35.551039 **Longitude:** -89.85684E

Sr: 0.797 **Sr:** 0.287

Screeener(s): Abdulrahman Abdulhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1978 EST

Total Floor Area (sq. ft.): 2856 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial **Emer. Services** Historic Shelter
Industrial Office School Government
Utility Washhouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (RRF)	S2 (RRF)	S3 (IAC)	S4 (RC SW)	S5 (RRF RT)	C1 (SW)	C2 (SW)	C3 (RRF IN)	PC1 (TU)	PC2 (TU)	RM1 (RM)	RM2 (RM)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.9 ≥ 0.5

EXTENT OF REVIEW	OTHER HAZARDS	ACTION REQUIRED
Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____	Are There Hazards That Trigger A Detailed Structural Evaluation? <input type="checkbox"/> Pounding potential (unless S _{L1} > out-of, if known) <input type="checkbox"/> Falling hazards from taller adjacent building <input type="checkbox"/> Geologic hazards or Soil Type F <input type="checkbox"/> Significant damage/deterioration to the structural system	Detailed Structural Evaluation Required? <input type="checkbox"/> Yes, unknown FEMA building type or other building <input type="checkbox"/> Yes, score less than out-of <input type="checkbox"/> Yes, other hazards present <input type="checkbox"/> No Detailed Nonstructural Evaluation Recommended? (check one) <input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated <input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary <input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK
LEVEL 2 SCREENING PERFORMED? <input type="checkbox"/> Yes, Final Level 2 Score, S _{L2} _____ <input type="checkbox"/> No Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No		

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Assembled Housing FD = Flexible diaphragm
 BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.62 RVS form for Structure #49

PHOTOGRAPH

SKETCH

Additional sketches or comments on separate page

Address: 490 EAST CHESTER STREET
Zip: 38201

Other Identifiers: 12005000

Building Name: CITY OF JACKSON FIRE DEPARTMENT STATION

Use: FIRE STATION

Latitude: 35.61292 **Longitude:** -89.81446

Sr: 0.756 **Sr:** 0.27

Screeener(s): Abdulrahman Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1962 1951

Total Floor Area (sq. ft.): 17903 **Code Year:** 1993

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial **Other Services** Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (RR)	S2 (RR)	S3 (R)	S4 (RC SW)	S5 (RR BT)	C1 (SW)	C2 (SW)	C3 (RR IN)	PC1 (T)	PC2	RM1 (R)	RM2 (R)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.2 0.5

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM M = Unreinforced masonry mfr MH = Assembled Housing PD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.63 RVS form for Structure #50

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 801 HARTS BRIDGE ROAD Zip: 38301

Other Identifiers: 12005100

Building Name: MADISON COUNTY FIRE DEPARTMENT STATION I

Use: FIRE STATION

Latitude: 33.551149 **Longitude:** -88.774784

S₁: 0.654 **S₂:** 0.26

Screeener(s): Abdulrahman Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1992 EST

Total Floor Area (sq. ft.): 8180 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial **Emer. Services** Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF M)	PC1 (TU)	PC2 (TU)	RM1 (PD)	RM2 (PD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	-0.8	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.6 ≥ 0.3

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary


No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry mfr TU = Tilt up MH = Assembled Housing PD = Flexible diaphragm BR = Braced frame SW = Shear wall LM = Light metal RD = Rigid diaphragm

Figure J.64 RVS form for Structure #51

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: _____ Zip: _____

Other Identifiers: _____

Building Name: _____

Use: _____

Latitude: _____ **Longitude:** _____

Sr: _____ **Sr:** _____

Screeners: _____ **Date/Time:** _____

No. Stories: Above Grade: _____ Below Grade: _____ **Year Built:** 1980 1951

Total Floor Area (sq. ft.): _____ **Code Year:** _____

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial **Emer. Services** Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF IN)	PC1 (T)	PC2 (T)	RM1 (M)	RM2 (M)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	4.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	4.0	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	4.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.6	0.8	0.6	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} -0.1 ≥ **0.3**

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Assembled Housing PD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.65 RVS form for Structure #52

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 13 SPRING CREEK ROAD **Zip:** 38114

Other Identifiers: 12005200

Building Name: MADISON COUNTY FIRE DEPARTMENT STATION 7

Use: FIRE STATION

Latitude: 35.064719 **Longitude:** -88.676547

Sr: 0.754 **Sr:** 0.274

Screeener(s): Abdulrahman Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1985 EST

Total Floor Area (sq. ft.): 1880 **Code Year:** 1993

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial **Emer. Services** Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity): _____
 Plan (type): _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{1F}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (IJK)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (URC IN)	PC1 (TU)	PC2 (TU)	RM1 (FD)	RM2 (FD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	-0.8	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{1min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4


FINAL LEVEL 1 SCORE, S_{1F} ≥ S_{1min} 0.6 ≥ 0.3

EXTENT OF REVIEW	OTHER HAZARDS	ACTION REQUIRED
Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____	Are There Hazards That Trigger A Detailed Structural Evaluation? <input type="checkbox"/> Pounding potential (unless S _{1F} > out-of, if known) <input type="checkbox"/> Falling hazards from taller adjacent building <input type="checkbox"/> Geologic hazards or Soil Type F <input type="checkbox"/> Significant damage/deterioration to the structural system	Detailed Structural Evaluation Required? <input type="checkbox"/> Yes, unknown FEMA building type or other building <input type="checkbox"/> Yes, score less than out-of <input type="checkbox"/> Yes, other hazards present <input type="checkbox"/> No Detailed Nonstructural Evaluation Recommended? (check one) <input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated <input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary <input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK
LEVEL 2 SCREENING PERFORMED? <input type="checkbox"/> Yes, Final Level 2 Score, S _{2F} _____ <input type="checkbox"/> No Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No	Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know	

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Assembled Housing FD = Flexible diaphragm
 BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.66 RVS form for Structure #53

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 21 COLLEGE STREET **Zip:** 38156

Other Identifiers: 12005400

Building Name: MADISON COUNTY FIRE DEPARTMENT STATION 5

Use: FIRE STATION

Latitude: 35.499476 **Longitude:** -89.866451

Sr: 0.681 **Sr:** 0.256

Screeener(s): Abdulrahman Abdulhadi **Date/Time:**

No. Stories: Above Grade: _____ Below Grade: _____ **Year Built:** 1984 1991

Total Floor Area (sq. ft.): 2310 **Code Year:** 1993

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial **Emer. Services** Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (RRF)	S2 (RRF)	S3 (IAC)	S4 (RC SW)	S5 (RRF RT)	C1 (RRF)	C2 (SW)	C3 (RRF IN)	PC1 (TU)	PC2 (TU)	RM1 (PD)	RM2 (PD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.6 ≥ 0.3

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM M = Unreinforced masonry infill MH = Assembled Housing PD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.67 RVS form for Structure #54

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 11 STURDIVANT CROSSING ROAD Zip: 38192

Other Identifiers: 12005200

Building Name: MADISON COUNTY FIRE DEPARTMENT STATION 8

Use: FIRE STATION

Latitude: 35.479271 **Longitude:** -89.843086

Sr: 0.747 **Sr:** 0.273

Screeener(s): Abdulrahman Abdulhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1990 EST

Total Floor Area (sq. ft.): 2330 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial **Emer. Services** Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Stiff Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity):
 Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF IN)	PC1 (TU)	PC2	RM1 (FD)	RM2 (FD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.9 ≥ 0.5

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Assembled Housing FD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.68 RVS form for Structure #55

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 1056 BEAL CREEK ROAD Zip: 58166

Other Identifiers: 12005600

Building Name: MADISON COUNTY FIRE DEPARTMENT STATIO...

Use: FIRE STATION

Latitude: 33.486703 **Longitude:** -88.723105

Sr: 0.651 **Sr:** 0.248

Screeener(s): Abdulrahman Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1990 EST

Total Floor Area (sq. ft.): 2640 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial **Emer. Services** Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF M)	PC1 (TU)	PC2 (TU)	RM1 (RM)	RM2 (RM)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-0.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.6	0.9	0.5	0.9	0.9	0.6	0.6	0.7	0.9	0.7	0.6	0.8	0.6	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.6	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 2 ≥ 1.6


EXTENT OF REVIEW	OTHER HAZARDS	ACTION REQUIRED
Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____	Are There Hazards That Trigger A Detailed Structural Evaluation? <input type="checkbox"/> Pounding potential (unless S _{L1} > out-of, if known) <input type="checkbox"/> Falling hazards from taller adjacent building <input type="checkbox"/> Geologic hazards or Soil Type F <input type="checkbox"/> Significant damage/deterioration to the structural system	Detailed Structural Evaluation Required? <input type="checkbox"/> Yes, unknown FEMA building type or other building <input type="checkbox"/> Yes, score less than out-of <input type="checkbox"/> Yes, other hazards present <input type="checkbox"/> No Detailed Nonstructural Evaluation Recommended? (check one) <input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated <input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary <input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK
LEVEL 2 SCREENING PERFORMED? <input type="checkbox"/> Yes, Final Level 2 Score, S _{L2} _____ <input type="checkbox"/> No Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No		

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry mfr LM = Light metal
 BR = Braced frame SW = Shear wall TU = Tilt up MH = Asymmetric Housing PD = Flexible diaphragm RD = Rigid diaphragm

Figure J.69 RVS form for Structure #56

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 2932 Technology Center Dr **Zip:** 38166

Other Identifiers: 12005701

Building Name: MADISON COUNTY FIRE DEPARTMENT STATIO...

Use: FIRE STATION

Latitude: 35.607357 **Longitude:** -88.918123

Sr: 0.373 **Sr:** 0.28

Screeener(s): Abdulrahman Abdulhadi **Data/Time:**

No. Stories: Above Grade: _____ Below Grade: _____ **Year Built:** 2012 EST

Total Floor Area (sq. ft.): 9034 **Code Year:** 1993

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial **Emer. Services** Historic Shelter
 Industrial Office School Government
 Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
 Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S_{L1}

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF M)	C1 (SW)	C2 (SW)	C3 (MRF M)	PC1 (TU)	PC2 (TU)	RM1 (RM)	RM2 (RM)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.9	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} **2.8** ≥ **2.5**

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
 Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM M = Unreinforced masonry infill MH = Assembled Housing PD = Flexible diaphragm
 BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.70 RVS form for Structure #57.1

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 2932 Technology Center Dr **Zip:** 38166

Other Identifiers: 12-005702

Building Name: MADISON COUNTY FIRE DEPARTMENT STATION

Use: FIRE STATION

Latitude: 35.607357 **Longitude:** -88.918123

Sr: 0.373 **Sr:** 0.28

Screeners: Abdulrahman Abdulhadi **Date/Time:**

No. Stories: Above Grade: _____ Below Grade: _____ **Year Built:** 2001 2011

Total Floor Area (sq. ft.): 280 **Code Year:** 1993

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial **Emer. Services** Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity): _____
 Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (RR)	S2 (RR)	S3 (L)	S4 (RC SW)	S5 (RR BT)	C1 (SW)	C2 (SW)	C3 (RR IN)	PC1 (L)	PC2	RM1 (RR)	RM2 (RR)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		0.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		0.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.6	0.9	0.5	0.9	0.9	0.6	0.6	0.7	0.9	0.7	0.6	0.8	0.6	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.6	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 4.3 ≥ 1.6

EXTENT OF REVIEW	OTHER HAZARDS	ACTION REQUIRED
Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____	Are There Hazards That Trigger A Detailed Structural Evaluation? <input type="checkbox"/> Pounding potential (unless S _{L1} > out-of, if known) <input type="checkbox"/> Falling hazards from taller adjacent building <input type="checkbox"/> Geologic hazards or Soil Type F <input type="checkbox"/> Significant damage/deterioration to the structural system	Detailed Structural Evaluation Required? <input type="checkbox"/> Yes, unknown FEMA building type or other building <input type="checkbox"/> Yes, score less than out-of <input type="checkbox"/> Yes, other hazards present <input type="checkbox"/> No Detailed Nonstructural Evaluation Recommended? (check one) <input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated <input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary <input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK
LEVEL 2 SCREENING PERFORMED? <input type="checkbox"/> Yes, Final Level 2 Score, S _{L2} _____ <input type="checkbox"/> No Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No	Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know	

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM = Unreinforced masonry infill MH = Assembled Housing PD = Flexible diaphragm
 BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.71 RVS form for Structure #57.2

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH

SKETCH

Additional sketches or comments on separate page

Address: 2032 Technology Center Dr **Zip:** 38166

Other Identifiers: ID005703

Building Name: MADISON COUNTY FIRE DEPARTMENT STATIO...

Use: FIRE STATION

Latitude: 35.607357 **Longitude:** -88.918123

Sr: 0.773 **Sr:** 0.28

Screeener(s): Abdulrahman Abdulhadi **Date/Time:**

No. Stories: Above Grade: _____ Below Grade: _____ **Year Built:** 2010 EST

Total Floor Area (sq. ft.): 1050 **Code Year:** 1993

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial **Emer. Services** Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity): _____
 Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (RR)	S2 (RR)	S3 (IA)	S4 (RC SW)	S5 (RR BT)	C1 (SW)	C2 (SW)	C3 (URR IN)	PC1 (T)	PC2	RM1 (R)	RM2 (R)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.8	-0.6	-0.6	-0.6	-0.6	-0.8	-0.8	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.0	1.9	NA	1.5	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} **2.9** ≥ **2.9**

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No
Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM = Unreinforced masonry infill MH = Assembled Housing FD = Flexible diaphragm


BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.72 RVS form for Structure #57.3

Rapid Visual Screening of Buildings for Potential Seismic Hazards
 FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 2932 Technology Center Dr **Zip:** 38166

Other Identifiers: 12005704

Building Name: MADISON COUNTY FIRE DEPARTMENT STATIO...

Use: FIRE STATION

Latitude: 35.607357 **Longitude:** -88.918123

Sr: 0.373 **Sr:** 0.28

Screeners(s): Abdulrahman Abdulhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 2016 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024

Total Floor Area (sq. ft.): 1167 **Code Year:** 1993

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial **Emer. Services** Historic Shelter
 Industrial Office School Government
 Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
 Rock Rock Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity): _____
 Plan (type): _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (RR)	S2 (RR)	S3 (I)	S4 (RC SW)	S5 (RR BT)	C1 (SW)	C2 (SW)	C3 (RR IN)	PC1 (I)	PC2	RM1 (PI)	RM2 (PI)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	0.9	-0.8	-0.7	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.5	2.1	NA	2.1	2.1	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S_{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.4


FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 3.3 ≥ 3.3

EXTENT OF REVIEW	OTHER HAZARDS	ACTION REQUIRED
Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____	Are There Hazards That Trigger A Detailed Structural Evaluation? <input type="checkbox"/> Pounding potential (unless S _{L1} > out-of, if known) <input type="checkbox"/> Falling hazards from taller adjacent building <input type="checkbox"/> Geologic hazards or Soil Type F <input type="checkbox"/> Significant damage/deterioration to the structural system	Detailed Structural Evaluation Required? <input type="checkbox"/> Yes, unknown FEMA building type or other building <input type="checkbox"/> Yes, score less than out-of <input type="checkbox"/> Yes, other hazards present <input type="checkbox"/> No Detailed Nonstructural Evaluation Recommended? (check one) <input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated <input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary <input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK
LEVEL 2 SCREENING PERFORMED? <input type="checkbox"/> Yes, Final Level 2 Score, S _{L2} _____ <input type="checkbox"/> No Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No	Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know	

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM M = Unreinforced masonry mlf = Unreinforced masonry infill MH = Assembled Housing PD = Flexible diaphragm
 BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.73 RVS form for Structure #57.4

PHOTOGRAPH



SKETCH

Address: 58 Law Rd Zip: 58166

Other Identifiers: 12005800

Building Name: MADISON COUNTY FIRE DEPARTMENT STATIO...

Use: FIRE STATION

Latitude: 35.712147 Longitude: -88.673214

Sr: 0.713 S2: 0.264

Screener(s): Abdulrahman Abdulhadi Date/Time:

No. Stories: Above Grade: Below Grade: Year Built: 2000

Total Floor Area (sq. ft.): 3000 Code Year: 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Industrial Office School Government Utility Washhouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer Parapets Appendages Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (RR)	S2 (RR)	S3 (I)	S4 (RC SW)	S5 (RR BT)	C1 (SW)	C2 (SW)	C3 (URC IN)	PC1 (U)	PC2	RM1 (R)	RM2 (R)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.9	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} **2.8** ≥ 2.5

EXTENT OF REVIEW	OTHER HAZARDS	ACTION REQUIRED
Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____	Are There Hazards That Trigger A Detailed Structural Evaluation? <input type="checkbox"/> Pounding potential (unless S _{L1} > out-of, if known) <input type="checkbox"/> Falling hazards from taller adjacent building <input type="checkbox"/> Geologic hazards or Soil Type F <input type="checkbox"/> Significant damage/deterioration to the structural system	Detailed Structural Evaluation Required? <input type="checkbox"/> Yes, unknown FEMA building type or other building <input type="checkbox"/> Yes, score less than out-of <input type="checkbox"/> Yes, other hazards present <input type="checkbox"/> No Detailed Nonstructural Evaluation Recommended? (check one) <input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated <input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary <input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK
LEVEL 2 SCREENING PERFORMED? <input type="checkbox"/> Yes, Final Level 2 Score, S _{L2} _____ <input type="checkbox"/> No Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No	Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know	


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM M = Unreinforced masonry infill MH = Assembled Housing PD = Flexible diaphragm BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RM = Rigid diaphragm

Figure J.74 RVS form for Structure #58

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 72 Windy City Rd. **Zip:** 58566

Other Identifiers: 12005900

Building Name: MADISON COUNTY FIRE DEPARTMENT STATIO...

Use: FIRE STATION

Latitude: 35.691384 **Longitude:** -88.988107

Sr: 0.821 **Sr:** 0.295

Screeners: Abdulrahman Abdulhadi **Date/Time:** _____

No. Stories: Above Grade: _____ Below Grade: _____ **Year Built:** 2013 EST

Total Floor Area (sq. ft.): 6540 **Code Year:** 1993

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity): _____
 Plan (type): _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{1F}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF)	C1 (SW)	C2 (SW)	C3 (MRF)	PC1 (TU)	PC2 (TU)	RM1 (RM)	RM2 (RM)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	NA	1.2	
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{1min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{1F} ≥ S_{1min} 2.6 ≥ 1.6

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{1F} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry mfr LM = Light metal MH = Asymmetric Housing PD = Flexible diaphragm BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.75 RVS form for Structure #59

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 681 WALKER PARKWAY **Zip:** 38054

Other Identifiers: FND06050

Building Name: MUNFORD AND ATOKA FIRE DEPARTMENT STA...

Use: Fire Station

Latitude: 35.430684 **Longitude:** 89.776817

Sr: 1.13 **Sr:** 0.387

Screeners(s): Abdurrahman Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1998 est

Total Floor Area (sq. ft.): 5363 **Code Year:** 1991

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial Other, Specify: Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg Dense Stiff Soft Poor
Rock Rock Soil Soil Soil Soil
#DNK, assume Type D

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity): _____
 Plan (type): _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S_{L1}

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (L)	S4 (RC (RM or R))	S5 (RM or R)	C1 (MRF)	C2 (BR)	C3 (RM or R)	PC1 (TU)	PC2	RM1 (F)	RM2 (F)	UR1	MH
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V ₁		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, V ₂		-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.6	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, P ₁		-1.1	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.6	-0.6	-0.5	-0.7	-0.6	-0.6	-0.7	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmarks		1.5	1.9	2.2	1.4	1.4	1.1	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.3	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.6	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S _{min}		1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 2.6 ≥ 0.3

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial

Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > out-off, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (RM or R) = Unreinforced masonry wall MH = Manufactured Housing BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal FD = Flexible diaphragm RD = Rigid diaphragm

Figure J.76 RVS form for Structure #60

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 105 ATOKA-MCLAUGHLIN EXTENDED **Zip:** 38054

Other Identifiers: F0006150

Building Name: MUNFORD AND ATOKA FIRE DEPARTMENT STA...

Use: Fire Station

Latitude: 35.445791 **Longitude:** 89.782058

Sr: 1.177 **Sr:** 0.403

Screeners(s): Abdurrahman Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 2015 est

Total Floor Area (sq. ft.): 6794 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Other, Specify: Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Stiff Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity): Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S_{L1}

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (L)	S4 (RC (MRF))	S5 (RC (RF))	C1 (MRF)	C2 (BR)	C3 (LRS (F))	PC1 (TU)	PC2	RM1 (F)	RM2 (F)	UR1	MH
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V ₁		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, V ₂		-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.6	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, P ₁		-1.1	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.6	-0.6	-0.5	-0.7	-0.6	-0.7	-0.7	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmarks		1.5	1.9	2.2	1.4	1.4	1.1	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.3	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.6	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S _{min}		1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 2.6 ≥ 0.3

<p>EXTENT OF REVIEW</p> <p>Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial</p> <p>Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered</p> <p>Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Soil Type Source: _____</p> <p>Geologic Hazards Source: _____</p> <p>Contact Person: _____</p> <p>LEVEL 2 SCREENING PERFORMED?</p> <p><input type="checkbox"/> Yes, Final Level 2 Score, S_{L2} _____ <input type="checkbox"/> No</p> <p>Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>OTHER HAZARDS</p> <p>Are There Hazards That Trigger A Detailed Structural Evaluation?</p> <p><input type="checkbox"/> Pounding potential (unless S_{L1} > out-off, if known)</p> <p><input type="checkbox"/> Falling hazards from taller adjacent building</p> <p><input type="checkbox"/> Geologic hazards or Soil Type F</p> <p><input type="checkbox"/> Significant damage/deterioration to the structural system</p>	<p>ACTION REQUIRED</p> <p>Detailed Structural Evaluation Required?</p> <p><input type="checkbox"/> Yes, unknown FEMA building type or other building</p> <p><input type="checkbox"/> Yes, score less than cut-off</p> <p><input type="checkbox"/> Yes, other hazards present</p> <p><input type="checkbox"/> No</p> <p>Detailed Nonstructural Evaluation Recommended? (check one)</p> <p><input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated</p> <p><input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary</p> <p><input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK</p>
--	---	--

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM = Unreinforced masonry wall MH = Manufactured Housing BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal FD = Flexible diaphragm RD = Rigid diaphragm

Figure J.77 RVS form for Structure #61

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 2000 SADDLER SCHOOL ROAD **Zip:** 38011

Other Identifiers: FNR02250

Building Name: THREE STAR VOLUNTEER FIRE DEPARTMENT

Use: Fire Station

Latitude: 35.421094 **Longitude:** 89.683669

Sr: 1.038 **Sr:** 0.351

Screeners(s): Abdulmutab Abdulhadi **Date/Time:**

No. Stories: Above Grade: _____ Below Grade: _____ **Year Built:** 1992 est

Total Floor Area (sq. ft.): 3767 **Code Year:** 1991

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial Other, Specify _____ Historic Shelter
 Industrial Office School Government
 Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
 Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S_{L1}

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (L)	S4 (RC (RM) (R))	S5 (RM (R))	C1 (MRF)	C2 (BR)	C3 (RM (R))	PC1 (TU)	PC2	RM1 (F)	RM2 (F)	UR1	MH
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V ₁		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, V ₂		-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.5	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, P ₁		-1.1	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.6	-0.6	-0.5	-0.7	-0.6	-0.6	-0.7	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmarks		1.5	1.9	2.2	1.4	1.4	1.1	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.3	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.6	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S _{min}		1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 2.6 ≥ 0.3

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
 Interior: None Visible Entered
 Drawings Reviewed: Yes No
 Soil Type Source: _____
 Geologic Hazards Source: _____
 Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No
 Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > out-off, if known)
 Falling hazards from taller adjacent building
 Geologic hazards or Soil Type F
 Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building
 Yes, score less than cut-off
 Yes, other hazards present
 No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated
 No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary
 No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (RM) = Unreinforced masonry wall MH = Manufactured Housing BR = Fixed frame SW = Shear wall TU = Tilt up LM = Light metal FD = Flexible diaphragm RD = Rigid diaphragm

Figure J.78 RVS form for Structure #62

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 66 SCHOOL STREET **Zip:** 38011

Other Identifiers: F000350

Building Name: BRIGHTON FIRE DEPARTMENT

Use: Fire Station

Latitude: 35.481035 **Longitude:** -89.721815

S: 1.161 **Sz:** 0.398

Screener(s): Abdulmutau Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1990 est

Total Floor Area (sq. ft.): 3463 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Other, Specify: Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Stiff Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity):
 Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S_{L1}

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (L)	S4 (RC (MRF))	S5 (RC (RF))	C1 (MRF)	C2 (BR)	C3 (LR (RF))	PC1 (TU)	PC2	RM1 (FX)	RM2 (FE)	UR1	MH
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V ₁		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, V ₂		-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.6	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, P ₁		-1.1	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.6	-0.6	-0.5	-0.7	-0.6	-0.7	-0.7	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmarks		1.5	1.9	2.2	1.4	1.4	1.1	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.5	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.6	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S _{min}		1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.5 ≥ 0.3

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial

Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (M) = Unreinforced masonry masonry wall MH = Manufactured Housing BR = Fixed frame SW = Shear wall TU = Tilt up LM = Light metal FD = Flexible diaphragm RD = Rigid diaphragm

Figure J.79 RVS form for Structure #63

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 101 JLNNESSER AVENUE Zip: 38079
 Other Identifiers: FNR0450
 Building Name: COVINGTON FIRE DEPARTMENT - NORTH STA...
 Use: Fire Station
 Latitude: 35.580001 Longitude: 89.645894
 S: 1.241 S: 0.476
 Screener(s): Abdulmutab Abdulhadi Date/Time:
 No. Stories: Above Grade: Below Grade: Year Built: 1963 est
 Total Floor Area (sq. ft.): 9190 Code Year: 1991
 Additions: None Yes, Year(s) Built:
 Occupancy: Assembly Commercial **Other Services** Historic Shelter
 Industrial Office School Government
 Utility Warehouse Residential, # Units:
 Soil Type: A B C D E F DNK
 Hard Avg Dense Stiff Soft Poor #DNK, assume Type D
 Rock Rock Soil Soil Soil
 Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK
 Adjacency: Pounding Falling Hazards from Taller Adjacent Building
 Irregularities: Vertical (type/severity) Plan (type)
 Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:
 COMMENTS:
 Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S_{L1}

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (L)	S4 (RC (MRF))	S5 (RM (MRF))	C1 (MRF)	C2 (BR)	C3 (RM (MRF))	PC1 (TU)	PC2	RH1 (FD)	RH2 (FD)	URM	MH
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V ₁		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, V ₂		-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.6	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, P ₁		-1.1	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.6	-0.6	-0.5	-0.7	-0.6	-0.7	-0.7	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmarks		1.5	1.9	2.2	1.4	1.4	1.1	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.3	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.6	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S _{min}		1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} **0.3** ≤ **0.2**

EXTENT OF REVIEW Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____	OTHER HAZARDS Are There Hazards That Trigger A Detailed Structural Evaluation? <input type="checkbox"/> Pounding potential (unless S ₁ > out-off, if known) <input type="checkbox"/> Falling hazards from taller adjacent building <input type="checkbox"/> Geologic hazards or Soil Type F <input type="checkbox"/> Significant damage/deterioration to the structural system	ACTION REQUIRED Detailed Structural Evaluation Required? <input type="checkbox"/> Yes, unknown FEMA building type or other building <input type="checkbox"/> Yes, score less than cut-off <input type="checkbox"/> Yes, other hazards present <input type="checkbox"/> No Detailed Nonstructural Evaluation Recommended? (check one) <input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated <input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary <input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK
--	---	---

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM = Unreinforced masonry wall MH = Manufactured Housing FD = Flexible diaphragm BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.80 RVS form for Structure #64

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 1815 DAVIS ROAD **Zip:** 58109

Other Identifiers: 12006200

Building Name: CHARLESTON VOLUNTEER FIRE DEPARTMENT

Use: FIRE STATION

Latitude: 33.498471 **Longitude:** -89.523756

Sr: 0.991 **Sr:** 0.343

Screeener(s): Abdulrahman Abdulhadi **Data/Time:**

No. Stories: Above Grade: _____ Below Grade: _____ **Year Built:** 1988 EST

Total Floor Area (sq. ft.): 5100 **Code Year:** 1993

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial **Emer. Services** Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity): _____
 Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF M)	PC1 (TU)	PC2 (TU)	RM1 (PD)	RM2 (PD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.6 ≥ 0.3

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Assembled Housing PD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.81 RVS form for Structure #65

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 1195 GARLAND DRIVE **Zip:** 38019

Other Identifiers: F0006650

Building Name: GARLAND VOLUNTEER FIRE DEPARTMENT

Use: Fire Station

Latitude: 35.582493 **Longitude:** 89.754288

Sr: 1.292 **Sr:** 0.476

Screeners: Abdulmutalib Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1988 est

Total Floor Area (sq. ft.): 1900 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Other, Specify: Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity): Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S_{L1}

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (L)	S4 (RC BR)	S5 (MRF BR)	C1 (MRF)	C2 (BR)	C3 (LRS (F))	PC1 (TU)	PC2	RM1 (F)	RM2 (F)	UR1	MH
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V ₁		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, V ₂		-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.5	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, P ₁		-1.1	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.6	-0.8	-0.5	-0.7	-0.6	-0.7	-0.7	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmarks		1.5	1.9	2.2	1.4	1.4	1.1	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.3	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.5	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S _{min}		1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} **0.3 ≥ 0.0**

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial

Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > out-off, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **DR** = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM/MF = Unreinforced masonry/infill MH = Manufactured Housing FD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.82 RVS form for Structure #66

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 201 MULLER GRASS ROAD Zip: 38079

Other Identifiers: FNR06750

Building Name: COVINGTON FIRE DEPARTMENT - SOUTH STA...

Use: Fire Station

Latitude: 35.59784 **Longitude:** 89.667295

S: 1.198 **Sz:** 0.111

Screener(s): Abdulmutau Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1995 est

Total Floor Area (sq. ft.): 5821 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Other: Fire Station Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Stiff Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity):
 Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S_{L1}

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (L)	S4 (RC (MRF))	S5 (RC (RF))	C1 (MRF)	C2 (BR)	C3 (LRF (F))	PC1 (TU)	PC2	RM1 (F)	RM2 (F)	UR1	MH
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V ₁		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, V ₂		-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.6	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, P ₁		-1.1	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.6	-0.6	-0.5	-0.7	-0.6	-0.7	-0.7	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmarks		1.5	1.9	2.2	1.4	1.4	1.1	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.3	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.6	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S _{min}		1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 2.2 ≥ 1.3

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial

Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > out-off, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM/MF = Unreinforced masonry/mill MH = Manufactured Housing FD = Flexible diaphragm
ER = Fixed frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.83 RVS form for Structure #67

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: TALL ROAD Zip: 38023

Other Identifiers: FND08250

Building Name: QUITO VOLUNTEER FIRE DEPARTMENT STATION

Use: Fire Station

Latitude: 35.46467 **Longitude:** -89.897516

S: 1.348 **Sz:** 0.16

Screener(s): Abdulrahman Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1987 est

Total Floor Area (sq. ft.): 7543 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Other: Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Stiff Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity):
 Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S_{L1}

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (RRF)	S2 (BR)	S3 (L)	S4 (RC (RM) (R))	S5 (RM (R))	C1 (RRF)	C2 (BR)	C3 (RR (R))	PC1 (TU)	PC2	RM1 (FX)	RM2 (FE)	UR1	MH
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V ₁		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, V ₂		-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.5	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, P ₁		-1.1	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.6	-0.6	-0.5	-0.7	-0.6	-0.7	-0.7	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmarks		1.5	1.9	2.2	1.4	1.4	1.1	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.5	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.6	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S _{min}		1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.3 ≥ 0.3

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial

Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know


Legend: MF = Moment-resisting frame RC = Reinforced concrete URM = Unreinforced masonry wall MH = Manufactured Housing FD = Flexible diaphragm
 BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.84 RVS form for Structure #68

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 9149 Manford GLENEDGE ROAD **Zip:** 38015

Other Identifiers: FND09250

Building Name: GILT EDGE VOLUNTEER FIRE DEPARTMENT

Use: Fire Station

Latitude: 35.551568 **Longitude:** 89.823654

Sr: J 429 **Sr:** 0.483

Screeners: Abdulmutaz Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1987 est

Total Floor Area (sq. ft.): 4346 **Code Year:** 1991

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial Other: Seismic Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg Dense Stiff Soft Poor
Rock Rock Soil Soil Soil Soil
#DNK, assume Type D

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity): _____
 Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LC)	S4 (RC BR)	S5 (MRF BR)	C1 (MRF)	C2 (BR)	C3 (ERS NF)	PC1 (TU)	PC2	RH1 (FX)	RH2 (FE)	UR1	MH
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V ₁		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, V ₂		-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.5	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, P ₁		-1.1	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.6	-0.6	-0.5	-0.7	-0.6	-0.7	-0.7	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmarks		1.5	1.9	2.2	1.4	1.4	1.1	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.3	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.5	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S _{min}		1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0
FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min}		0.9 ≥ 0.6																

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial

Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary


No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM/MF = Unreinforced masonry/mill BR = Braced frame SW = Shear wall TU = Tilt up MH = Manufactured Housing FD = Flexible diaphragm ER = Eased frame LM = Light metal RD = Rigid diaphragm

Figure J.85 RVS form for Structure #69

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 12157 MAIN STREET Zip: 58049

Other Identifiers: 12307100

Building Name: MASON VOLUNTEER FIRE DEPARTMENT

Use: FIRE STATION

Latitude: 35.412335 **Longitude:** -89.512337

Sr: 0.916 **Sr:** 0.317

Screeener(s): Abdulrahman Abdulhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1956 1951

Total Floor Area (sq. ft.): 2042 **Code Year:** 1993

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial **Emer. Services** Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (IAC)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (SRC IN)	PC1 (TU)	PC2 (TU)	RM1 (FD)	RM2 (FD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.6	0.9	0.5	0.9	0.9	0.6	0.6	0.7	0.9	0.7	0.6	0.8	0.6	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.6	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.6 ≥ 0.3

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry mfr TU = Tilt up MH = Assembled Housing FD = Flexible diaphragm BR = Braced frame SW = Shear wall LM = Light metal RM = Rigid diaphragm

Figure J.86 RVS form for Structure #70

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: FLORITO ROAD **Zip:** 38053

Other Identifiers: FNO07150

Building Name: QUITO VOLUNTEER FIRE DEPARTMENT STATION

Use: Fire Station

Latitude: 35.413925 **Longitude:** 89.933275

Sr: 1.297 **Sr:** 0.115

Screeners(s): Abdulrahman Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1987 est

Total Floor Area (sq. ft.): 1561 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Other, Specify: Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Stiff Soft Poor
Rock Rock Soil Soil Soil Soil
#DNK, assume Type D

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity):
 Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S_{L1}

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (L)	S4 (RC SW)	S5 (RM RF)	C1 (MRF)	C2 (BR)	C3 (RM RF)	PC1 (TU)	PC2	RH1 (FX)	RH2 (FE)	UR1	MH
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V ₁		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, V ₂		-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.5	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, P ₁		-1.1	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.6	-0.6	-0.5	-0.7	-0.6	-0.7	-0.7	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmarks		1.5	1.9	2.2	1.4	1.4	1.1	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.5	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.5	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S _{min}		1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.9 ≥ 0.6

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial

Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM/RM = Unreinforced masonry wall MH = Manufactured Housing FD = Flexible diaphragm
 BR = Fixed frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.87 RVS form for Structure #71

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 1775 MUNFORD AVENUE **Zip:** 38058

Other Identifiers: FNO07250

Building Name: MUNFORD RURAL FIRE SERVICES

Use: Fire Station

Latitude: 35.447722 **Longitude:** -89.813024

Sr: 1.216 **Sr:** 0.481

Screeners: Abdulmuttalib Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1990 est

Total Floor Area (sq. ft.): 15158 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Other: Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Stiff Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity): Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S_{L1}

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (L)	S4 (RC (MRF))	S5 (RC (RF))	C1 (MRF)	C2 (BR)	C3 (RF)	PC1 (TU)	PC2	RM1 (FX)	RM2 (FE)	UR1	MH
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V ₁		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, V ₂		-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.6	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, P ₁		-1.1	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.6	-0.6	-0.5	-0.7	-0.6	-0.7	-0.7	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmarks		1.5	1.9	2.2	1.4	1.4	1.1	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.5	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.6	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S _{min}		1.1	0.9	0.7	0.5	0.6	0.6	0.6	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0 ≤ **0.3**

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial

Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S₁ > out-off, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM = Unreinforced masonry wall MH = Manufactured Housing FD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.88 RVS form for Structure #72

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 400 TICKET ST Zip: 38024

Other Identifiers: TN007301

Building Name: TENNIVA HEALTHCARE - DYERSBURG REGIONAL

Use: Hospital

Latitude: 36.043186 Longitude: -89.579914

S₁: 2.359 S₂: 0.645

Screener(s): Abdulrhman Abdalrhadi Date/Time:

No. Stories: Above Grade: Below Grade: Year Built: 1971 est

Total Floor Area (sq. ft.): 70766 Code Year: 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial **Other Services** Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Stiff Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Founding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity)
 Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LRC)	S4 (RC SW)	S5 (U/SW BR)	C1 (MRF)	C2 (SW)	C3 (LRM (RF))	PC1 (TL)	PC2	RM1 (FD)	RM2 (FD)	URM	MH
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.9	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.3	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.5	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	-0.5	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	0.0
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.1	1.6	NA	1.4	1.7	NA	1.5	1.7	1.6	1.6	NA	0.5
Soil Type A or B		0.3	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA
Minimum Score, S _{min}		0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.2 < **0.3**

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2}: _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S₂ > cut-off, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (RF) = Unreinforced masonry wall MH = Manufactured Housing PB = Flexible diaphragm
BR = Braced frame SW = Shear wall TL = Tie up LM = Light metal RD = Rigid diaphragm

Figure J.89 RVS form for Structure #73.1

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 400 TICKET ST
Zip: 38024

Other Identifiers: TN007302

Building Name: TENNIVA HEALTHCARE - DYERSBURG REGIONAL
Use: Hospital

Latitude: 36.043186 **Longitude:** -89.579914
S₁: 2.359 **S₂:** 0.645

Screener(s): Abdulrhman Abdalrhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1990 est
Total Floor Area (sq. ft.): 7811 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial **Emer. Services** Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Stiff Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Founding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S_{L1}

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LAC)	S4 (RC SW)	S5 (U/SI BR)	C1 (MRF)	C2 (SW)	C3 (LRM (RF))	PC1 (TL)	PC2	RM1 (FD)	RM2 (FD)	URM	MH
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.9	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.7	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.5	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	-0.5	-0.5	-0.5	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	0.0
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.1	1.5	NA	1.4	1.7	NA	1.5	1.7	1.6	1.6	NA	0.5
Soil Type A or B		0.3	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA
Minimum Score, S _{min}		0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.3 ≥ 0.3

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered
Drawings Reviewed: Yes No
Soil Type Source: _____
Geologic Hazards Source: _____
Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No
Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > cut-off, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (M) = Unreinforced masonry masonry TL = Tie up MH = Manufactured Housing FM = Flexible diaphragm BR = Braced frame SW = Shear wall DNK = Do Not Know

Figure J.90 RVS form for Structure #73.2

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 400 TICKET ST Zip: 38024

Other Identifiers: TN007303

Building Name: TENNIVA HEALTHCARE - DIVERSIF. RG REGIONAL

Use: Hospital

Latitude: 36.043186 Longitude: -89.579914

S₁: 2.359 S₂: 0.645

Screener(s): Abdulrhman Abdalrhadi Date/Time: _____

No. Stories: Above Grade: _____ Below Grade: _____ Year Built: 1970 est

Total Floor Area (sq. ft.): 1381 Code Year: 1991

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg. Dense Stiff Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Founding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

Additional sketches or comments on separate page

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LFR)	S4 (RC SW)	S5 (U/M IFR)	C1 (MRF)	C2 (BR)	C3 (LFR IFR)	PC1 (TL)	PC2	RM1 (FD)	RM2 (FD)	URM	MH	
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1	
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.9	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.7	-0.3	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.5	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	-0.5	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	0.0	
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.1	1.6	NA	1.4	1.7	NA	1.5	1.7	1.8	1.6	NA	0.5	
Soil Type A or B		0.3	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1	
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1	
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA	
Minimum Score, S _{avg}		0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	1.0	

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{avg} 1.3 ≥ 0.5

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial

Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > cut-off, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (M) = Unreinforced masonry masonry TL = Tie up MH = Manufactured Housing PB = Flexible diaphragm FD = Rigid diaphragm SW = Shear wall IM = Light metal

Figure J.91 RVS form for Structure #73.3

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 400 TICKET ST Zip: 38024

Other Identifiers: TN007304

Building Name: TENNIVA HEALTHCARE - DIVERSIF. RG REGIONAL

Use: Hospital

Latitude: 36.043186 Longitude: -89.579914

S₁: 2.359 S₂: 0.645

Screener(s): Abdulrhman Abdalrhadi Date/Time: _____

No. Stories: Above Grade: _____ Below Grade: _____ Year Built: 1950 est

Total Floor Area (sq. ft.): 3983 Code Year: 1991

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg. Dense Stiff Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Founding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

Additional sketches or comments on separate page

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LFR)	S4 (RC SW)	S5 (U/MF BR)	C1 (MRF)	C2 (BR)	C3 (LFR MF)	PC1 (TL)	PC2	RM1 (FD)	RM2 (FD)	URM	MH
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.9	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.5	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	-0.5	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	0.0
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.1	1.6	NA	1.4	1.7	NA	1.5	1.7	1.8	1.6	NA	0.5
Soil Type A or B		0.3	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA
Minimum Score, S _{min}		0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} **1.3** ≥ 0.5

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial

Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S₂ > cut-off, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (M) = Unreinforced masonry masonry wall MH = Manufactured Housing FD = Flexible diaphragm BR = Braced frame SW = Shear wall TL = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.92 RVS form for Structure #73.4

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

PHOTOGRAPH

Address: 400 TICKET ST **Zip:** 38024

Other Identifiers: TN007305

Building Name: TENNIVA HEALTHCARE - DYERSBURG REGIONAL

Use: Hospital

Latitude: 36.043186 **Longitude:** -89.579914

S₁: 2.359 **S₂:** 0.645

Screeners(s): Abdulrhman Abdalrhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1990 est

Total Floor Area (sq. ft.): 1238 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial **Other Services** Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Stiff Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Founding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

SKETCH

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S_{L1}

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LAC)	S4 (RC SW)	S5 (U/SI BR)	C1 (MRF)	C2 (SW)	C3 (LRM (RF))	PC1 (TL)	PC2	RM1 (FD)	RM2 (FD)	UR#	MH
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.9	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.3	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.5	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	-0.5	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	0.0
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.1	1.6	NA	1.4	1.7	NA	1.5	1.7	1.6	1.6	NA	0.5
Soil Type A or B		0.3	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA
Minimum Score, S _{min}		0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.9 ≥ 0.3

EXTENT OF REVIEW
 Exterior: Partial All Sides Aerial
 Interior: None Visible Entered
 Drawings Reviewed: Yes No
 Soil Type Source: _____
 Geologic Hazards Source: _____
 Contact Person: _____

LEVEL 2 SCREENING PERFORMED?
 Yes, Final Level 2 Score, S_{L2} _____ No
 Nonstructural hazards? Yes No

OTHER HAZARDS
Are There Hazards That Trigger A Detailed Structural Evaluation?
 Pounding potential (unless S₂ > cut-off, if known)
 Falling hazards from taller adjacent building
 Geologic hazards or Soil Type F
 Significant damage/deterioration to the structural system

ACTION REQUIRED
Detailed Structural Evaluation Required?
 Yes, unknown FEMA building type or other building
 Yes, score less than cut-off
 Yes, other hazards present
 No
Detailed Nonstructural Evaluation Recommended? (check one)
 Yes, nonstructural hazards identified that should be evaluated
 No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary
 No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (M) = Unreinforced masonry (masonry) MH = Manufactured Housing PB = Flexible diaphragm
 BR = Braced frame SW = Shear wall TL = Tie up LM = Light metal RD = Rigid diaphragm

Figure J.93 RVS form for Structure #73.5

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity


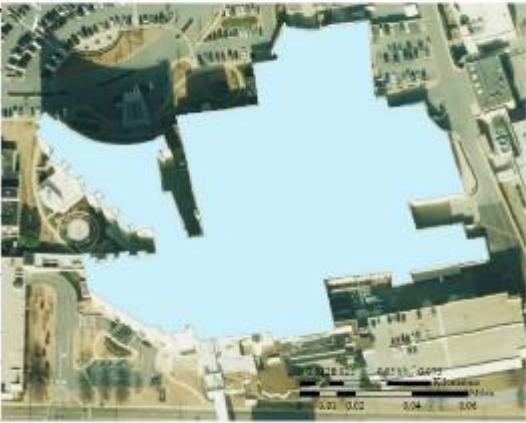
<p>PHOTOGRAPH</p>  <p style="text-align: center;">SKETCH</p>	<p>Address: 400 TICKET ST Zip: 38024</p> <p>Other Identifiers: TN000306</p> <p>Building Name: TENNIVA HEALTHCARE - DYERSBURG REGIONAL</p> <p>Use: Hospital</p> <p>Latitude: 36.043186 Longitude: -89.579914</p> <p>S₁: 2.359 S₂: 0.645</p> <p>Screener(s): Abdulrhman Abdalrhadi Date/Time:</p> <p>No. Stories: Above Grade: _____ Below Grade: _____ Year Built: 2006 <input type="checkbox"/> est</p> <p>Total Floor Area (sq. ft.): 5955 Code Year: 1991</p> <p>Additions: <input type="checkbox"/> None <input type="checkbox"/> Yes, Year(s) Built: _____</p> <p>Occupancy: Assembly <input type="checkbox"/> Commercial <input checked="" type="checkbox"/> Emer. Services <input type="checkbox"/> Historic <input type="checkbox"/> Shelter Industrial <input type="checkbox"/> Office <input type="checkbox"/> School <input type="checkbox"/> Government Utility <input type="checkbox"/> Warehouse <input type="checkbox"/> Residential, # Units: _____</p> <p>Soil Type: <input type="checkbox"/> A <input type="checkbox"/> B <input checked="" type="checkbox"/> C <input type="checkbox"/> D <input type="checkbox"/> E <input type="checkbox"/> F <input type="checkbox"/> DNK Hard Avg. Dense Stiff Soft Poor #DNK, assume Type D Rock Rock Soil Soil Soil Soil</p> <p>Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK</p> <p>Adjacency: <input type="checkbox"/> Founding <input type="checkbox"/> Falling Hazards from Taller Adjacent Building</p> <p>Irregularities: <input type="checkbox"/> Vertical (type/severity) _____ <input type="checkbox"/> Plan (type) _____</p> <p>Exterior Falling Hazards: <input type="checkbox"/> Unbraced Chimneys <input type="checkbox"/> Heavy Cladding or Heavy Veneer <input type="checkbox"/> Parapets <input type="checkbox"/> Appendages <input type="checkbox"/> Other: _____</p> <p>COMMENTS:</p> <p><input type="checkbox"/> Additional sketches or comments on separate page</p>																																																																																																																																																																																																																
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<table border="1" style="width:100%; border-collapse: collapse; font-size: small;"> <thead> <tr> <th>FEMA BUILDING TYPE</th> <th>Do Not Know</th> <th>W1</th> <th>W1A</th> <th>W2</th> <th>S1 (MRF)</th> <th>S2 (BR)</th> <th>S3 (LAC)</th> <th>S4 (RC SW)</th> <th>S5 (U/MF BR)</th> <th>C1 (MRF)</th> <th>C2 (SM)</th> <th>C3 (LRM MF)</th> <th>PC1 (TL)</th> <th>PC2</th> <th>RM1 (FD)</th> <th>RM2 (FD)</th> <th>URM</th> <th>MH</th> </tr> </thead> <tbody> <tr> <td>Basic Score</td> <td></td> <td>2.1</td> <td>1.9</td> <td>1.8</td> <td>1.5</td> <td>1.4</td> <td>1.6</td> <td>1.4</td> <td>1.2</td> <td>1.0</td> <td>1.2</td> <td>0.9</td> <td>1.1</td> <td>1.0</td> <td>1.1</td> <td>1.1</td> <td>0.9</td> <td>1.1</td> </tr> <tr> <td>Severe Vertical Irregularity, V₁</td> <td></td> <td>-0.9</td> <td>-0.9</td> <td>-0.9</td> <td>-0.9</td> <td>-0.7</td> <td>-0.8</td> <td>-0.7</td> <td>-0.7</td> <td>-0.7</td> <td>-0.8</td> <td>-0.6</td> <td>-0.7</td> <td>-0.7</td> <td>-0.7</td> <td>-0.7</td> <td>-0.3</td> <td>NA</td> </tr> <tr> <td>Moderate Vertical Irregularity, V₂</td> <td></td> <td>-0.8</td> <td>-0.5</td> <td>-0.5</td> <td>-0.4</td> <td>-0.4</td> <td>-0.5</td> <td>-0.4</td> <td>-0.3</td> <td>-0.4</td> <td>-0.4</td> <td>-0.3</td> <td>-0.4</td> <td>-0.4</td> <td>-0.4</td> <td>-0.4</td> <td>-0.3</td> <td>NA</td> </tr> <tr> <td>Plan Irregularity, P₁</td> <td></td> <td>-0.7</td> <td>-0.7</td> <td>-0.5</td> <td>-0.5</td> <td>-0.5</td> <td>-0.6</td> <td>-0.4</td> <td>-0.4</td> <td>-0.4</td> <td>-0.5</td> <td>-0.3</td> <td>-0.5</td> <td>-0.4</td> <td>-0.4</td> <td>-0.4</td> <td>-0.3</td> <td>NA</td> </tr> <tr> <td>Pre-Code</td> <td></td> <td>-0.3</td> <td>-0.3</td> <td>-0.3</td> <td>-0.3</td> <td>-0.2</td> <td>-0.3</td> <td>-0.2</td> <td>-0.1</td> <td>-0.1</td> <td>-0.2</td> <td>0.0</td> <td>-0.2</td> <td>-0.1</td> <td>-0.2</td> <td>0.0</td> <td>0.0</td> <td>0.0</td> </tr> <tr> <td>Post-Benchmark</td> <td></td> <td>1.9</td> <td>1.9</td> <td>2.0</td> <td>1.0</td> <td>1.1</td> <td>1.1</td> <td>1.6</td> <td>NA</td> <td>1.4</td> <td>1.7</td> <td>NA</td> <td>1.5</td> <td>1.7</td> <td>1.6</td> <td>NA</td> <td>0.5</td> </tr> <tr> <td>Soil Type A or B</td> <td></td> <td>0.3</td> <td>0.6</td> <td>0.4</td> <td>0.3</td> <td>0.3</td> <td>0.4</td> <td>0.3</td> <td>0.2</td> <td>0.2</td> <td>0.3</td> <td>0.1</td> <td>0.3</td> <td>0.2</td> <td>0.3</td> <td>0.3</td> <td>0.1</td> <td>0.1</td> </tr> <tr> <td>Soil Type E (1-3 stories)</td> <td></td> <td>0.0</td> <td>-0.2</td> <td>-0.4</td> <td>-0.3</td> <td>-0.2</td> <td>-0.2</td> <td>-0.2</td> <td>-0.1</td> <td>-0.1</td> <td>-0.2</td> <td>0.0</td> <td>-0.2</td> <td>-0.1</td> <td>-0.2</td> <td>-0.2</td> <td>0.0</td> <td>-0.1</td> </tr> <tr> <td>Soil Type E (> 3 stories)</td> <td></td> <td>-0.4</td> <td>-0.4</td> <td>-0.4</td> <td>-0.3</td> <td>-0.3</td> <td>NA</td> <td>-0.3</td> <td>-0.1</td> <td>-0.1</td> <td>-0.3</td> <td>-0.1</td> <td>NA</td> <td>-0.1</td> <td>-0.2</td> <td>-0.2</td> <td>0.0</td> <td>NA</td> </tr> <tr> <td>Minimum Score, S_{min}</td> <td></td> <td>0.7</td> <td>0.7</td> <td>0.7</td> <td>0.6</td> <td>0.5</td> <td>0.6</td> <td>0.5</td> <td>0.6</td> <td>0.2</td> <td>0.3</td> <td>0.2</td> <td>0.2</td> <td>0.2</td> <td>0.3</td> <td>0.2</td> <td>0.2</td> <td>1.0</td> </tr> </tbody> </table>		FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LAC)	S4 (RC SW)	S5 (U/MF BR)	C1 (MRF)	C2 (SM)	C3 (LRM MF)	PC1 (TL)	PC2	RM1 (FD)	RM2 (FD)	URM	MH	Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1	Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.9	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.3	NA	Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.5	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	NA	Plan Irregularity, P ₁		-0.7	-0.7	-0.5	-0.5	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.3	NA	Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	0.0	0.0	0.0	Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.1	1.6	NA	1.4	1.7	NA	1.5	1.7	1.6	NA	0.5	Soil Type A or B		0.3	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1	Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1	Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA	Minimum Score, S _{min}		0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	1.0
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LAC)	S4 (RC SW)	S5 (U/MF BR)	C1 (MRF)	C2 (SM)	C3 (LRM MF)	PC1 (TL)	PC2	RM1 (FD)	RM2 (FD)	URM	MH																																																																																																																																																																																															
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1																																																																																																																																																																																															
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.9	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.3	NA																																																																																																																																																																																															
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.5	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	NA																																																																																																																																																																																															
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	-0.5	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.3	NA																																																																																																																																																																																															
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	0.0	0.0	0.0																																																																																																																																																																																															
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.1	1.6	NA	1.4	1.7	NA	1.5	1.7	1.6	NA	0.5																																																																																																																																																																																																
Soil Type A or B		0.3	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1																																																																																																																																																																																															
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1																																																																																																																																																																																															
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA																																																																																																																																																																																															
Minimum Score, S _{min}		0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	1.0																																																																																																																																																																																															
<p>FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 2.7 ≥ 0.3</p>																																																																																																																																																																																																																	
<p>EXTENT OF REVIEW</p> <p>Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial</p> <p>Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered</p> <p>Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Soil Type Source: _____</p> <p>Geologic Hazards Source: _____</p> <p>Contact Person: _____</p>	<p>OTHER HAZARDS</p> <p>Are There Hazards That Trigger A Detailed Structural Evaluation?</p> <p><input type="checkbox"/> Pounding potential (unless S₂ > cut-off, if known)</p> <p><input type="checkbox"/> Falling hazards from taller adjacent building</p> <p><input type="checkbox"/> Geologic hazards or Soil Type F</p> <p><input type="checkbox"/> Significant damage/deterioration to the structural system</p>	<p>ACTION REQUIRED</p> <p>Detailed Structural Evaluation Required?</p> <p><input type="checkbox"/> Yes, unknown FEMA building type or other building</p> <p><input type="checkbox"/> Yes, score less than cut-off</p> <p><input type="checkbox"/> Yes, other hazards present</p> <p><input type="checkbox"/> No</p> <p>Detailed Nonstructural Evaluation Recommended? (check one)</p> <p><input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated</p> <p><input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary</p> <p><input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK</p>																																																																																																																																																																																																															
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<p>Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (M) = Unreinforced masonry (infill) MH = Manufactured Housing FD = Flexible diaphragm BR = Braced frame SW = Shear wall TL = Tie up LM = Light metal RD = Rigid diaphragm</p>																																																																																																																																																																																																																	

Figure J.94 RVS form for Structure #73.6

PHOTOGRAPH



SKETCH

Address: 620 SKYLINE DRIVE Zip: 38001

Other Identifiers: 12007400

Building Name: JACKSON - MADISON COUNTY GENERAL HOSPITAL

Use: HOSPITAL

Latitude: 35.636733 Longitude: -88.831770

Sr: 0.756 S2: 0.275

Screener(s): Abdulrahman Abdulhadi Date/Time:

No. Stories: Above Grade: Below Grade: Year Built: 2007 est

Total Floor Area (sq. ft.): 305770 Code Year: 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (PART)	S2 (PART)	S3 (PART)	S4 (PART)	S5 (PART)	C1 (PART)	C2 (PART)	C3 (PART)	PC1 (PART)	PC2 (PART)	RM1 (PART)	RM2 (PART)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.0	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.5	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.6	0.9	0.5	0.9	0.9	0.6	0.6	0.7	0.9	0.7	0.6	0.8	0.6	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.6	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

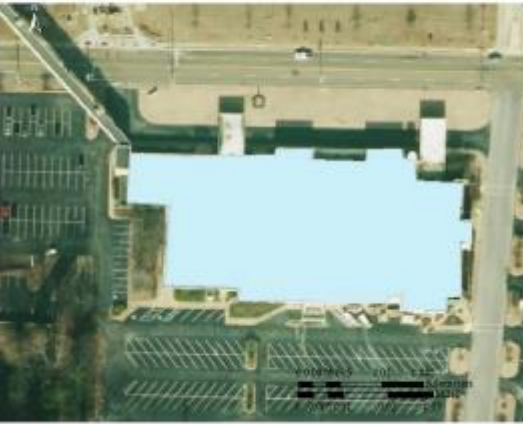
FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} **1.7** ≥ 0.5

EXTENT OF REVIEW	OTHER HAZARDS	ACTION REQUIRED
Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____	Are There Hazards That Trigger A Detailed Structural Evaluation? <input type="checkbox"/> Pounding potential (unless S _{L1} > out-of, if known) <input type="checkbox"/> Falling hazards from taller adjacent building <input type="checkbox"/> Geologic hazards or Soil Type F <input type="checkbox"/> Significant damage/deterioration to the structural system	Detailed Structural Evaluation Required? <input type="checkbox"/> Yes, unknown FEMA building type or other building <input type="checkbox"/> Yes, score less than out-of <input type="checkbox"/> Yes, other hazards present <input type="checkbox"/> No Detailed Nonstructural Evaluation Recommended? (check one) <input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated <input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary <input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK
LEVEL 2 SCREENING PERFORMED? <input type="checkbox"/> Yes, Final Level 2 Score, S _{L2} _____ <input type="checkbox"/> No Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No	Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know	

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Asymmetric Housing PD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up DNK = Light metal LM = Rigid diaphragm

Figure J.95 RVS form for Structure #74

PHOTOGRAPH



SKETCH

Address: 616 WEST FORREST AVENUE
Zip: 88301

Other Identifiers: 12007500

Building Name: SPIRE REHABILITATION HOSPITAL

Use: HOSPITAL

Latitude: 35.674877 **Longitude:** -88.67642

Sr: 0.253 **Sr:** 0.275

Screeners: Abdulrahman Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 2017 est

Total Floor Area (sq. ft.): 56174 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (RRF)	S2 (RRF)	S3 (RRF)	S4 (RRF SW)	S5 (RRF RT)	C1 (RRF)	C2 (RRF)	C3 (RRF IN)	PC1 (TU)	PC2	RM1 (RR)	RM2 (RR)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.6	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.7 ≥ 0.5

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Assembled Housing FD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.96 RVS form for Structure #75

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 367 HOSPITAL BLVD. **Zip:** 38104

Other Identifiers: TN007600

Building Name: TENNOVA HEALTHCARE - REGIONAL JACKSON

Use: HOSPITAL

Latitude: 35.684447 **Longitude:** -89.854046

Sr: 0.792 **St:** 0.286

Screeener(s): Abdulrahman Abdulhadi **Data/Time:**

No. Stories: Above Grade: _____ Below Grade: _____ **Year Built:** 1952 est

Total Floor Area (sq. ft.): 47570 **Code Year:** 1993

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial **Emer. Services** Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity): _____
 Plan (type): _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF IN)	PC1 (TU)	PC2 (TU)	RM1 (PD)	RM2 (PD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.7	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.4	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.2 0.3

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Assembled Housing PD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.97 RVS form for Structure #76

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
HIGH Seismicity

PHOTOGRAPH

SKETCH

Additional sketches or comments on separate page

Address: 1995 HIGHWAY 51 S **Zip:** 38063

Other Identifiers: TN007701

Building Name: BAPTIST MEMORIAL HOSPITAL TIPTON

Use: HOSPITAL

Latitude: 35.53571 **Longitude:** -89.677607

Sr: 1.203 **Sr:** 0.413

Screeners(s): Abdurrahman Abdulhadi **Date/Time:**

No. Stories: Above Grade: _____ Below Grade: _____ **Year Built:** 1993 est

Total Floor Area (sq. ft.): 89470 **Code Year:** 1991

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial Other: Severely Historic Shelter
 Industrial Office School Government
 Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
 Hard Avg Dense Silt Soft Poor #DNK, assume Type D
 Rock Rock Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity): _____
 Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S_{L1}

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (L)	S4 (RC (MRF))	S5 (RC (RF))	C1 (MRF)	C2 (BR)	C3 (LR (RF))	PC1 (TU)	PC2	RM1 (FX)	RM2 (FE)	UR1	MH
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V ₁		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, V ₂		-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.5	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, P ₁		-1.1	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.6	-0.8	-0.5	-0.7	-0.6	-0.7	-0.7	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmarks		1.5	1.9	2.2	1.4	1.4	1.1	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.3	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.6	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S _{min}		1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 2.8 ≥ 0.3

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial

Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > out-off, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (M) = Unreinforced masonry masonry wall MH = Manufactured Housing BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal FD = Flexible diaphragm RD = Rigid diaphragm

Figure J.98 RVS form for Structure #77.1

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
HIGH Seismicity

PHOTOGRAPH

SKETCH

Additional sketches or comments on separate page

Address: 1995 HIGHWAY 51 S **Zip:** 38063

Other Identifiers: TN007701

Building Name: BAPTIST MEMORIAL HOSPITAL TIPTON

Use: HOSPITAL

Latitude: 35.53571 **Longitude:** 89.677607

Sr: 1.203 **Sr:** 0.413

Screeners(s): Abdurrahman Abdulhadi **Date/Time:** _____

No. Stories: Above Grade: _____ Below Grade: _____ **Year Built:** 1995 est

Total Floor Area (sq. ft.): 10493 **Code Year:** 1991

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial Other: Severely Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg Dense Stiff Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity): _____
 Plan (type): _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S_{L1}

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (L)	S4 (RC (MRF))	S5 (RC (RF))	C1 (MRF)	C2 (BR)	C3 (RF)	PC1 (TU)	PC2	RM1 (FX)	RM2 (FE)	UR1	MH
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V ₁		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, V ₂		-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.6	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, P ₁		-1.1	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.6	-0.6	-0.5	-0.7	-0.6	-0.7	-0.7	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmarks		1.5	1.9	2.2	1.4	1.4	1.1	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.5	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.6	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S _{min}		1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} **3.8** ≥ **0.3**

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial

Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > out-off, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **DR** = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM/MF = Unreinforced masonry/mill MH = Manufactured Housing FD = Flexible diaphragm
BR = Fixed frame SW = Shear wall TU = Tie up LM = Light metal RD = Rigid diaphragm

Figure J.99 RVS form for Structure #77.2

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 1995 HIGHWAY 51 S **Zip:** 38063

Other Identifiers: TN007701

Building Name: BAPTIST MEMORIAL HOSPITAL TIPTON

Use: HOSPITAL

Latitude: 35.53571 **Longitude:** -89.677607

Sr: 1.203 **Sr:** 0.413

Screeners(s): Abdurrahman Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1995 est

Total Floor Area (sq. ft.): 3470 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Other: Severely Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity):
 Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S_{L1}

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LC)	S4 (RC (RM) (RF))	S5 (RM) (RF)	C1 (MRF)	C2 (BR)	C3 (RM) (RF)	PC1 (TU)	PC2	RH1 (FX)	RH2 (FE)	UR1	MH
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V ₁		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, V ₂		-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.5	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, P ₁		-1.1	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.6	-0.6	-0.5	-0.7	-0.6	-0.7	-0.7	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmarks		1.5	1.9	2.2	1.4	1.4	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2	
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.3	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.6	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S _{min}		1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 3.7 ≥ 1.1

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > out-off, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (RM) = Unreinforced masonry wall MH = Manufactured Housing BR = Braced frame SW = Steel wall TU = Tilt up LM = Light metal FD = Flexible diaphragm RD = Rigid diaphragm

Figure J.100 RVS form for Structure #77.3

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
HIGH Seismicity

PHOTOGRAPH

SKETCH

Additional sketches or comments on separate page

Address: 1995 HIGHWAY 51 S **Zip:** 38063

Other Identifiers: TN007701

Building Name: BAPTIST MEMORIAL HOSPITAL TIPTON

Use: HOSPITAL

Latitude: 35.53571 **Longitude:** -89.677607

Sr: 1.203 **Sr:** 0.413

Screener(s): Abdirahman Abdulkari **Date/Time:**

No. Stories: Above Grade: _____ Below Grade: _____ **Year Built:** 1995 est

Total Floor Area (sq. ft.): 7569 **Code Year:** 1991

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial Other: Severely Historic Shelter
 Industrial Office School Government
 Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
 Hard Avg Dense Stiff Soft Poor #DNK, assume Type D
 Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity): _____
 Plan (type): _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S_{L1}

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (L)	S4 (RC (RM) (R))	S5 (RM (R))	C1 (MRF)	C2 (BR)	C3 (RM (R))	PC1 (TU)	PC2	RH1 (F)	RH2 (F)	UR1	MH
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V ₁		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, V ₂		-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.5	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, P ₁		-1.1	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.6	-0.6	-0.5	-0.7	-0.6	-0.7	-0.7	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmarks		1.5	1.9	2.2	1.4	1.4	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.3	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.6	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S _{min}		1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} **3.7** ≥ 0.6

<p>EXTENT OF REVIEW</p> <p>Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered</p> <p>Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Soil Type Source: _____</p> <p>Geologic Hazards Source: _____</p> <p>Contact Person: _____</p> <hr/> <p>LEVEL 2 SCREENING PERFORMED?</p> <p><input type="checkbox"/> Yes, Final Level 2 Score, S_{L2} _____ <input type="checkbox"/> No</p> <p>Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>OTHER HAZARDS</p> <p>Are There Hazards That Trigger A Detailed Structural Evaluation?</p> <p><input type="checkbox"/> Pounding potential (unless S_{L1} > out-off, if known)</p> <p><input type="checkbox"/> Falling hazards from taller adjacent building</p> <p><input type="checkbox"/> Geologic hazards or Soil Type F</p> <p><input type="checkbox"/> Significant damage/deterioration to the structural system</p>	<p>ACTION REQUIRED</p> <p>Detailed Structural Evaluation Required?</p> <p><input type="checkbox"/> Yes, unknown FEMA building type or other building</p> <p><input type="checkbox"/> Yes, score less than cut-off</p> <p><input type="checkbox"/> Yes, other hazards present</p> <p><input type="checkbox"/> No</p> <p>Detailed Nonstructural Evaluation Recommended? (check one)</p> <p><input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated</p> <p><input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary</p> <p><input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK</p>
---	---	---

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (RM) = Unreinforced masonry wall MH = Manufactured Housing FD = Flexible diaphragm
 BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.101 RVS form for Structure #77.4

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
HIGH Seismicity

PHOTOGRAPH

SKETCH

Additional sketches or comments on separate page

Address: 1995 HIGHWAY 51 S **Zip:** 38063

Other Identifiers: TN007701

Building Name: BAPTIST MEMORIAL HOSPITAL TIPTON

Use: HOSPITAL

Latitude: 35.53571 **Longitude:** 89.677607

Sr: 1.203 **Sr:** 0.413

Screener(s): Abdirahman Abdulkari **Date/Time:** _____

No. Stories: Above Grade: _____ Below Grade: _____ **Year Built:** 1995 est

Total Floor Area (sq. ft.): 744 **Code Year:** 1991

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial Other: Severely Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg Dense Stiff Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S_{L1}

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (L)	S4 (RC (MRF))	S5 (RC (RF))	C1 (MRF)	C2 (BR)	C3 (RF)	PC1 (TU)	PC2	RH1 (FD)	RH2 (FE)	UR1	MH
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V ₁		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, V ₂		-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.5	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, P ₁		-1.1	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.6	-0.6	-0.5	-0.7	-0.6	-0.7	-0.7	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmarks		1.5	1.9	2.2	1.4	1.4	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.3	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.6	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S _{min}		1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} **3.7** ≥ 0.6

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial

Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > cut-off, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (M) = Unreinforced masonry mull MH = Manufactured Housing FD = Flexible diaphragm
 BR = Fixed frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.102 RVS form for Structure #77.5

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 401 EAST CLARK STREET
Zip: 38024

Other Identifiers: TN007800

Building Name: DYER COUNTY LAW ENFORCEMENT CENTER

Use: POLICE PROTECTION

Latitude: 36.030242 **Longitude:** -89.583978

S₁: 2.28 **S₂:** 0.809

Screener(s): Abdulrhman Abdalrhadi **Date/Time:** _____

No. Stories: Above Grade: _____ Below Grade: _____ **Year Built:** 2002 est

Total Floor Area (sq. ft.): 34001 **Code Year:** 1991

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial **Emer. Services** Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg. Dense Stiff Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Founding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LAC)	S4 (RC SW)	S5 (URM IM)	C1 (MRF)	C2 (BR)	C3 (URM IM)	PC1 (TL)	PC2	RM1 (FD)	RM2 (FD)	URM	MH
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.9	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.3	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.5	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	-0.5	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	0.0
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.1	1.6	NA	1.4	1.7	NA	1.5	1.7	1.8	1.6	NA	0.5
Soil Type A or B		0.3	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA
Minimum Score, S _{min}		0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 1.9 ≥ 0.3

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial

Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S₂ > out-off, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM IM = Unreinforced masonry infill MH = Manufactured Housing FD = Flexible diaphragm
BR = Braced frame SW = Shear wall TL = Tie up IM = Light metal RD = Rigid diaphragm

Figure J.103 RVS form for Structure #78

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

PHOTOGRAPH

SKETCH

Additional sketches or comments on separate page

Address: 425 WEST MARKET STREET
Zip: 38024

Other Identifiers: TN007000

Building Name: DYERSBURG POLICE DEPARTMENT

Use: POLICE PROTECTION

Latitude: 36.03082 **Longitude:** -89.590207

S₁: 2.299 **S₂:** 0.813

Screener(s): Abdulrhman Abdalrhadi **Date/Time:**

No. Stories: Above Grade: _____ Below Grade: _____ **Year Built:** 1980 est

Total Floor Area (sq. ft.): 5230 **Code Year:** 1991

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg. Dense Stiff Soft Poor
Rock Rock Soil Soil Soil Soil
#DNK, assume Type D

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Founding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LAC)	S4 (RC SW)	S5 (URM IM)	C1 (MRF)	C2 (RM)	C3 (LRM (RF))	PC1 (TU)	PC2	RM1 (FD)	RM2 (FD)	URM	MH
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.9	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.3	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.4	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	-0.5	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	0.0
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.1	1.6	NA	1.4	1.7	NA	1.5	1.7	1.6	1.6	NA	0.5
Soil Type A or B		0.3	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA
Minimum Score, S _{min}		0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.9 ≥ 0.3

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > cut-off, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (MRF) = Unreinforced masonry wall MH = Manufactured Housing FD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tie up IM = Light metal RD = Rigid diaphragm

Figure J.104 RVS form for Structure #79

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

PHOTOGRAPH

SKETCH

Address: 121 EAST MAIN STREET Zip: 38059

Other Identifiers: TN008200

Building Name: NEWBORN CITY POLICE DEPARTMENT

Use: POLICE PROTECTION

Latitude: 36.112997 Longitude: -89.263409

S₁: 2.357 S₂: 0.852

Screener(s): Abdulrhman Abdalrhadi Date/Time: _____

No. Stories: Above Grade: _____ Below Grade: _____ Year Built: 1975 est

Total Floor Area (sq. ft.): 2653 Code Year: 1991

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg. Dense Stiff Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Founding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

Additional sketches or comments on separate page

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LRC)	S4 (RC SW)	S5 (U/MF BR)	C1 (MRF)	C2 (BR)	C3 (LRM MF)	PC1 (TL)	PC2	RM1 (FD)	RM2 (FD)	UR#	MH
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.9	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.3	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.4	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	-0.5	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	0.0
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.1	1.6	NA	1.4	1.7	NA	1.5	1.7	1.6	1.6	NA	0.5
Soil Type A or B		0.3	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA
Minimum Score, S _{min}		0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.5 ≥ 0.5

<p>EXTENT OF REVIEW</p> <p>Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial</p> <p>Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered</p> <p>Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Soil Type Source: _____</p> <p>Geologic Hazards Source: _____</p> <p>Contact Person: _____</p>	<p>OTHER HAZARDS</p> <p>Are There Hazards That Trigger A Detailed Structural Evaluation?</p> <p><input type="checkbox"/> Pounding potential (unless S₂ > cut-off, if known)</p> <p><input type="checkbox"/> Falling hazards from taller adjacent building</p> <p><input type="checkbox"/> Geologic hazards or Soil Type F</p> <p><input type="checkbox"/> Significant damage/deterioration to the structural system</p>	<p>ACTION REQUIRED</p> <p>Detailed Structural Evaluation Required?</p> <p><input type="checkbox"/> Yes, unknown FEMA building type or other building</p> <p><input type="checkbox"/> Yes, score less than cut-off</p> <p><input type="checkbox"/> Yes, other hazards present</p> <p><input type="checkbox"/> No</p> <p>Detailed Nonstructural Evaluation Recommended? (check one)</p> <p><input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated</p> <p><input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary</p> <p><input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK</p>
---	--	--

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MF = unreinforced masonry mull BR = Brick wall LRM = Light metal PB = Flexible diaphragm FD = Rigid diaphragm

Figure J.105 RVS form for Structure #80

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 22 NORTE MAIN STREET
Zip: 38259

Other Identifiers: TN008100

Building Name: TRIMBLE POLICE DEPARTMENT

Use: POLICE PROTECTION

Latitude: 36.208417 **Longitude:** -89.191484

S₁: 2.271 **S₂:** 0.82

Screener(s): Abdulrhman Abdalrhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1975 est

Total Floor Area (sq. ft.): 2260 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial **Emer. Services** Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Stiff Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Founding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S_{L1}

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LRC)	S4 (RC SW)	S5 (U/MF BR)	C1 (MRF)	C2 (BR)	C3 (LRM MF)	PC1 (TL)	PC2	RM1 (F)	RM2 (FC)	UR#	MH
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.9	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.3	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.5	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	-0.5	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	0.0
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.1	1.6	NA	1.4	1.7	NA	1.5	1.7	1.6	1.6	NA	0.6
Soil Type A or B		0.3	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA
Minimum Score, S _{min}		0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.9 ≥ 0.3

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S₂ > cut-off, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MF = unreinforced masonry mull MH = Manufactured Housing FD = Flexible diaphragm
BR = Braced frame SW = Shear wall TL = Tie up IM = light metal RD = Rigid diaphragm

Figure J.106 RVS form for Structure #81

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 102 SOUTH FRONT STREET Zip: 38040

Other Identifiers: TN008200

Building Name: JALLS POLICE DEPARTMENT

Use: POLICE PROTECTION

Latitude: 35.875185 Longitude: -89.39468

S₁: 1.87 S₂: 0.571

Screener(s): Abdulrhman Abdalrhadi Date/Time: _____

No. Stories: Above Grade: _____ Below Grade: _____ Year Built: 1981 est

Total Floor Area (sq. ft.): _____ 1902 Code Year: 1991

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Founding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LAC)	S4 (RC SW)	S5 (U/MF BR)	C1 (MRF)	C2 (BW)	C3 (LRM (RF))	PC1 (TL)	PC2	RM1 (F)	RM2 (FC)	UR#	MH
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.9	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.3	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.5	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	-0.5	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	0.0	0.0	0.0
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.1	1.6	NA	1.4	1.7	NA	1.5	1.7	1.8	1.6	NA	0.5
Soil Type A or B		0.3	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA
Minimum Score, S _{min}		0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 1.8 ≥ 0.3

<p>EXTENT OF REVIEW</p> <p>Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial</p> <p>Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered</p> <p>Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Soil Type Source: _____</p> <p>Geologic Hazards Source: _____</p> <p>Contact Person: _____</p>	<p>OTHER HAZARDS</p> <p>Are There Hazards That Trigger A Detailed Structural Evaluation?</p> <p><input type="checkbox"/> Pounding potential (unless S₂ > cut-off, if known)</p> <p><input type="checkbox"/> Falling hazards from taller adjacent building</p> <p><input type="checkbox"/> Geologic hazards or Soil Type F</p> <p><input type="checkbox"/> Significant damage/deterioration to the structural system</p>	<p>ACTION REQUIRED</p> <p>Detailed Structural Evaluation Required?</p> <p><input type="checkbox"/> Yes, unknown FEMA building type or other building</p> <p><input type="checkbox"/> Yes, score less than cut-off</p> <p><input type="checkbox"/> Yes, other hazards present</p> <p><input type="checkbox"/> No</p> <p>Detailed Nonstructural Evaluation Recommended? (check one)</p> <p><input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated</p> <p><input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary</p> <p><input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK</p>
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Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (M) = Unreinforced masonry masonry TL = Tie up MH = Manufactured Housing PB = Flexible diaphragm BR = Braced frame SW = Shear wall LM = Light metal RC = Rigid diaphragm

Figure J.107 RVS form for Structure #82

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 185 MAIN STREET
Zip: 38041

Other Identifiers: TN028301

Building Name: HENNING POLICE DEPARTMENT
Use: POLICE PROTECTION

Latitude: 35.872655 **Longitude:** -89.573497
Sr: E751 **Sr:** 6458

Screeners(s): Abduraman Abdulsadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1990 est
Total Floor Area (sq. ft.): 7,67 **Code Year:** 1991

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity): _____
 Plan (type): _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S_{L1}

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (L)	S4 (RC (MRF) SW)	S5 (MRF) (RF)	C1 (MRF)	C2 (BR)	C3 (LRS) (F)	PC1 (TU)	PC2	RH1 (FX)	RH2 (FE)	URM	MH
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V ₁		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, V ₂		-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.5	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, P ₁		-1.1	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.6	-0.8	-0.5	-0.7	-0.6	-0.7	-0.7	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmarks		1.5	1.9	2.2	1.4	1.4	1.1	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.5	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.6	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S _{min}		1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.6 ≥ 0.2

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered
Drawings Reviewed: Yes No
Soil Type Source: _____
Geologic Hazards Source: _____
Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No
Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > out-off, if known)
 Falling hazards from taller adjacent building
 Geologic hazards or Soil Type F
 Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building
 Yes, score less than cut-off
 Yes, other hazards present
 No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated
 No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary
 No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **DR** = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM = Unreinforced masonry wall MH = Manufactured Housing FD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.108 RVS form for Structure #83.1

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 185 MAIN STREET
Zip: 38041

Other Identifiers: TN028302

Building Name: HENNING POLICE DEPARTMENT
Use: POLICE PROTECTION

Latitude: 35.872655 **Longitude:** -89.573497
Sr: L751 **Sr:** 6458

Screeners(s): Abdurrahman Abdulsadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1984 est
Total Floor Area (sq. ft.): 650 **Code Year:** 1991

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg Dense Stiff Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity): _____
 Plan (type): _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S_{L1}

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LC)	S4 (RC (MRF))	S5 (RM (MRF))	C1 (MRF)	C2 (BR)	C3 (LRM (F))	PC1 (TU)	PC2	RH1 (FX)	RH2 (FE)	UR1	MH
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V ₁		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, V ₂		-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.6	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, P ₁		-1.1	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.6	-0.6	-0.5	-0.7	-0.6	-0.7	-0.7	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmarks		1.5	1.9	2.2	1.4	1.4	1.1	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.5	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.6	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S _{min}		1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.9 ≥ 0.5

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered
Drawings Reviewed: Yes No
Soil Type Source: _____
Geologic Hazards Source: _____
Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No
Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > out-off, if known)
 Falling hazards from taller adjacent building
 Geologic hazards or Soil Type F
 Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building
 Yes, score less than cut-off
 Yes, other hazards present
 No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated
 No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary
 No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **DR** = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (M) = Unreinforced masonry infill MH = Manufactured Housing FD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tie up LM = Light metal RD = Rigid diaphragm

Figure J.109 RVS form for Structure #83.2

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 10035 2ND STREET
Zip: 38042

Other Identifiers: TN008400

Building Name: GATES POLICE DEPARTMENT

Use: POLICE PROTECTION

Latitude: 35.837949 **Longitude:** -89.46745

S₁: 1.858 **S₂:** 0.535

Screeners: Abdulrhman Abdalrhadi **Date/Time:**

No. Stories: Above Grade: _____ Below Grade: _____ **Year Built:** 1991 est

Total Floor Area (sq. ft.): 5795 **Code Year:** 1991

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial **Emer. Services** Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg Dense Stiff Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Founding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LC)	S4 (RC SW)	S5 (U/SI BR)	C1 (MRF)	C2 (SW)	C3 (LRM (M))	PC1 (TL)	PC2	RM1 (F)	RM2 (D)	UR#	MH
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.9	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.3	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.5	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	-0.5	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	0.0	0.0	0.0
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.1	1.6	NA	1.4	1.7	NA	1.5	1.7	1.6	1.6	NA	0.5
Soil Type A or B		0.3	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA
Minimum Score, S _{min}		0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} **2.3** ≥ 0.3

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____
Geologic Hazards Source: _____
Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No
Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > cut-off, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (M) = Unreinforced masonry mull MH = Manufactured Housing FD = Flexible diaphragm
BR = Braced frame SW = Shear wall TL = Tie up LM = Light metal RD = Rigid diaphragm

Figure J.110 RVS form for Structure #84

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 575 UNITED STATES HIGHWAY 51 SOUTH
Zip: 33063

Other Identifiers: TNOE8501

Building Name: LAUDERDALE COUNTY SHERIFFS DEPARTMENT

Use: POLICE PROTECTION

Latitude: 25.746085 **Longitude:** -80.555836

Sr: L803 **Sr:** 0.511

Screeners: Abdurrahman Abdulsadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1994 EST

Total Floor Area (sq. ft.): 1300 **Code Year:** 1994

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial **Emer. Services** Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity):
 Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S_{L1}

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (L)	S4 (RC (MRF))	S5 (RC (RF))	C1 (MRF)	C2 (BR)	C3 (ERS (F))	PC1 (TU)	PC2	RH1 (F)	RH2 (F)	UR1	MH
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V ₁		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, V ₂		-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.5	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, P ₁		-1.1	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.6	-0.6	-0.5	-0.7	-0.6	-0.7	-0.7	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmarks		1.5	1.9	2.2	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.3	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.6	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S _{min}		1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} **2.3** ≥ 0.5

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered
Drawings Reviewed: Yes No
Soil Type Source: _____
Geologic Hazards Source: _____
Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No
Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > out-off, if known)
 Falling hazards from taller adjacent building
 Geologic hazards or Soil Type F
 Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building
 Yes, score less than cut-off
 Yes, other hazards present
 No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated
 No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary
 No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (M) = Unreinforced masonry mull MH = Manufactured Housing FD = Flexible diaphragm
ER = Fixed frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.111 RVS form for Structure #85.1

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 575 UNITED STATES HIGHWAY 51 SOUTH
Zip: 33063

Other Identifiers: TNO28502

Building Name: LAUDERDALE COUNTY SHERIFFS DEPARTMENT
Use: POLICE PROTECTION

Latitude: 25.746085 **Longitude:** -80.555836
Sr: L803 **Sr:** 0.511

Screeners: Abdurrahman Abdulsadi **Date/Time:**

No. Stories: Above Grade: _____ Below Grade: _____ **Year Built:** 1994 est
Total Floor Area (sq. ft.): 45660 **Code Year:** 1994

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg Dense Stiff Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity): _____
 Plan (type): _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S_{L1}

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (L)	S4 (RC (MRF) OR SW)	S5 (RC (MRF) OR SW)	C1 (MRF)	C2 (BR)	C3 (LRS (F))	PC1 (TU)	PC2	RM1 (F)	RM2 (F)	UR1	MH
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V ₁		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, V ₂		-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.5	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, P ₁		-1.1	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.6	-0.6	-0.5	-0.7	-0.6	-0.6	-0.7	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmarks		1.5	1.9	2.2	1.4	1.4	1.1	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.3	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.6	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S _{min}		1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 2.5 ≥ 0.3

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered
Drawings Reviewed: Yes No
Soil Type Source: _____
Geologic Hazards Source: _____
Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No
Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > out-off, if known)
 Falling hazards from taller adjacent building
 Geologic hazards or Soil Type F
 Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building
 Yes, score less than cut-off
 Yes, other hazards present
 No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated
 No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary
 No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (M) = Unreinforced masonry infill MH = Manufactured Housing FD = Flexible diaphragm
 BR = Fixed frame SW = Shear wall TU = Tie up LM = Light metal RD = Rigid diaphragm

Figure J.112 RVS form for Structure #85.2

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 110 SOUTH WASHINGTON STREET
Zip: 18061

Other Identifiers: T908800

Building Name: RIPLEY POLICE DEPARTMENT

Use: POLICE PROTECTION

Latitude: 38.745115 **Longitude:** -89.530352

Sr: L419 **Sr:** 0499

Screeners: Abdurman Abdulsadi **Date/Time:** _____

No. Stories: Above Grade: _____ Below Grade: _____ **Year Built:** 1923 est

Total Floor Area (sq. ft.): 4470 **Code Year:** 1991

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial **Emer. Services** Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity): _____
 Plan (type): _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S_{L1}

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (L)	S4 (RC (MRF) OR SW)	S5 (MRF OR SW)	C1 (MRF)	C2 (BR)	C3 (LRS (F))	PC1 (TU)	PC2	RH1 (FX)	RH2 (FE)	UR1	MH
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V ₁		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, V ₂		-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.5	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, P ₁		-1.1	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.6	-0.8	-0.5	-0.7	-0.6	-0.7	-0.7	-0.4	NA
Pre-Code		0.1	-1.0	-0.9	-0.5	-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmarks		1.5	1.9	2.2	1.4	1.4	1.1	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.5	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.5	-0.9	-0.5	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.5	-0.2	NA
Minimum Score, S _{min}		1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.5	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 2.5 ≥ 1.1

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial

Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM/MF = Unreinforced masonry infill MH = Manufactured Housing BR = Braced frame SW = Shear wall TU = Tie up LM = Light metal FD = Flexible diaphragm RD = Rigid diaphragm

Figure J.113 RVS form for Structure #86

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH

SKETCH

Additional sketches or comments on separate page

Address: 317 DENMARK JACKSON RD
Zip: 38301

Other Identifiers: TN008801

Building Name: MADISON COUNTY SHERIFFS DEPARTMENT

Use: POLICE PROTECTION

Latitude: 35.579668 **Longitude:** 88.915969

S₁: 0.757 **S₂:** 0.275

Screeener(s): Abdurhaman Abdurhalil **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 2017 est

Total Floor Area (sq. ft.): 5,694 **Code Year:** 1991

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (MRF)	S4 (RC SW)	S5 (MRF)	C1 (SW)	C2 (SW)	C3 (MRF)	PC1 (TU)	PC2 (TU)	RM1 (PD)	RM2 (PD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	NA	1.2	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 3.7 ≥ 0.5

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Assembled Housing PD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.114 RVS form for Structure #88.1

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH

SKETCH

Additional sketches or comments on separate page

Address: 317 DENMARK JACKSON RD **Zip:** 38301

Other Identifiers: TN008902

Building Name: MADISON COUNTY SHERIFFS DEPARTMENT

Use: POLICE PROTECTION

Latitude: 35.57954 **Longitude:** 88.915814

S₁: 0.757 **S₂:** 0.275

Screeener(s): Abdulkhann Abdulkhal **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 2017 est

Total Floor Area (sq. ft.): 9030 **Code Year:** 1991

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF M)	C1 (MRF)	C2 (SW)	C3 (MRF M)	PC1 (TU)	PC2	RM1 (PD)	RM2 (PD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.5	2.1	NA	2.1	2.4	2.1	NA	1.2	
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 3.0 ≥ 0.5

<p>EXTENT OF REVIEW</p> <p>Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered</p> <p>Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Soil Type Source: _____</p> <p>Geologic Hazards Source: _____</p> <p>Contact Person: _____</p>	<p>OTHER HAZARDS</p> <p>Are There Hazards That Trigger A Detailed Structural Evaluation?</p> <p><input type="checkbox"/> Pounding potential (unless S_{L1} > out-of, if known)</p> <p><input type="checkbox"/> Falling hazards from taller adjacent building</p> <p><input type="checkbox"/> Geologic hazards or Soil Type F</p> <p><input type="checkbox"/> Significant damage/deterioration to the structural system</p>	<p>ACTION REQUIRED</p> <p>Detailed Structural Evaluation Required?</p> <p><input type="checkbox"/> Yes, unknown FEMA building type or other building</p> <p><input type="checkbox"/> Yes, score less than out-of</p> <p><input type="checkbox"/> Yes, other hazards present</p> <p><input type="checkbox"/> No</p> <p>Detailed Nonstructural Evaluation Recommended? (check one)</p> <p><input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated</p> <p><input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary</p> <p><input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK</p>
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Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Assembled Housing PD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.115 RVS form for Structure #88.2

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH

SKETCH

Additional sketches or comments on separate page

Address: 317 DENMARK JACKSON RD **Zip:** 38301

Other Identifiers: TN008805

Building Name: MADISON COUNTY SHERIFFS DEPARTMENT

Use: POLICE PROTECTION

Latitude: 35.57964 **Longitude:** 88.915814

S₁: 0.757 **S₂:** 0.275

Screeners: Abdulkhann Abdulhadi **Date/Time:**

No. Stories: Above Grade: _____ Below Grade: _____ **Year Built:** 2017 est

Total Floor Area (sq. ft.): 9540 **Code Year:** 1991

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial Emer. Services Historic Shelter
 Industrial Office School Government
 Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
 Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF M)	C1 (MRF)	C2 (SW)	C3 (MRF M)	PC1 (TU)	PC2	RM1 (PD)	RM2 (PD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.5	2.1	NA	2.1	2.4	2.1	NA	1.2	
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 3.0 ≥ 0.5

<p>EXTENT OF REVIEW</p> <p>Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered</p> <p>Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Soil Type Source: _____</p> <p>Geologic Hazards Source: _____</p> <p>Contact Person: _____</p> <p>LEVEL 2 SCREENING PERFORMED?</p> <p><input type="checkbox"/> Yes, Final Level 2 Score, S_{L2} _____ <input type="checkbox"/> No</p> <p>Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>OTHER HAZARDS</p> <p>Are There Hazards That Trigger A Detailed Structural Evaluation?</p> <p><input type="checkbox"/> Pounding potential (unless S_{L2} > out-of, if known)</p> <p><input type="checkbox"/> Falling hazards from taller adjacent building</p> <p><input type="checkbox"/> Geologic hazards or Soil Type F</p> <p><input type="checkbox"/> Significant damage/deterioration to the structural system</p>	<p>ACTION REQUIRED</p> <p>Detailed Structural Evaluation Required?</p> <p><input type="checkbox"/> Yes, unknown FEMA building type or other building</p> <p><input type="checkbox"/> Yes, score less than out-of</p> <p><input type="checkbox"/> Yes, other hazards present</p> <p><input type="checkbox"/> No</p> <p>Detailed Nonstructural Evaluation Recommended? (check one)</p> <p><input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated</p> <p><input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary</p> <p><input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK</p>
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Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM M = Unreinforced masonry infill MH = Assembled Housing PD = Flexible diaphragm
 BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.116 RVS form for Structure #88.3

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH

SKETCH

Additional sketches or comments on separate page

Address: 317 DENMARK JACKSON RD **Zip:** 38301

Other Identifiers: TN008804

Building Name: MADISON COUNTY SHERIFFS DEPARTMENT

Use: POLICE PROTECTION

Latitude: 35.57964 **Longitude:** 88.915814

S₁: 0.757 **S₂:** 0.275

Screeners: Abdulkhann Abdulhadi **Date/Time:** _____

No. Stories: Above Grade: _____ Below Grade: _____ **Year Built:** 2017 est

Total Floor Area (sq. ft.): 9740 **Code Year:** 1991

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (MRF)	S4 (RC SW)	S5 (MRF)	C1 (MRF)	C2 (SW)	C3 (MRF)	PC1 (TU)	PC2	RM1 (FD)	RM2 (FD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.5	2.1	NA	2.1	2.4	2.1	NA	1.2	
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 2.6 ≥ 0.3

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Assembled Housing FD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.117 RVS form for Structure #88.4

PHOTOGRAPH

SKETCH

Additional sketches or comments on separate page

Address: 317 DENMARK JACKSON RD
Zip: 38301

Other Identifiers: TN008903

Building Name: MADISON COUNTY SHERIFFS DEPARTMENT

Use: POLICE PROTECTION

Latitude: 35.57964 **Longitude:** 88.915814

S₁: 0.757 **S₂:** 0.275

Screeners: Abdurrahman Abdurhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 2017 est

Total Floor Area (sq. ft.): 6195 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial **Emer. Services** Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity):
 Plan (type):

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF)	C1 (MRF)	C2 (SW)	C3 (MRF IN)	PC1 (TU)	PC2	RM1 (PD)	RM2 (PD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.5	2.1	NA	2.1	2.4	2.1	NA	1.2	
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 3.9 ≥ 0.3

EXTENT OF REVIEW	OTHER HAZARDS	ACTION REQUIRED
Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____	Are There Hazards That Trigger A Detailed Structural Evaluation? <input type="checkbox"/> Pounding potential (unless S _{L1} > out-of, if known) <input type="checkbox"/> Falling hazards from taller adjacent building <input type="checkbox"/> Geologic hazards or Soil Type F <input type="checkbox"/> Significant damage/deterioration to the structural system	Detailed Structural Evaluation Required? <input type="checkbox"/> Yes, unknown FEMA building type or other building <input type="checkbox"/> Yes, score less than out-of <input type="checkbox"/> Yes, other hazards present <input type="checkbox"/> No Detailed Nonstructural Evaluation Recommended? (check one) <input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated <input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary <input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK
LEVEL 2 SCREENING PERFORMED? <input type="checkbox"/> Yes, Final Level 2 Score, S _{L2} _____ <input type="checkbox"/> No Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No	Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know	


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Assembled Housing PD = Flexible diaphragm
 BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.118 RVS form for Structure #88.5

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 214 INSTITUTE STREET **Zip:** 38301

Other Identifiers: TN008900

Building Name: JACKSON POLICE DEPARTMENT

Use: POLICE PROTECTION

Latitude: 35.61041 **Longitude:** 88.814335

S₁: 0.735 **S₂:** 0.269

Screeners: Abdurrahman Abdurhadi **Date/Time:** _____

No. Stories: Above Grade: _____ Below Grade: _____ **Year Built:** 1975 est

Total Floor Area (sq. ft.): 36893 **Code Year:** 1991

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial **Emer. Services** Historic Shelter
 Industrial Office School Government
 Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
 Hard Avg Dense Silt Soft Poor #DNK, assume Type D
 Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity): _____
 Plan (type): _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{1F}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (RRF)	S2 (RRF)	S3 (RRF)	S4 (RRF SW)	S5 (RRF RT)	C1 (RRF)	C2 (RRF)	C3 (RRF IN)	PC1 (TU)	PC2 (TU)	RM1 (PD)	RM2 (PD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.0	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.5	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.6	0.9	0.5	0.9	0.9	0.6	0.6	0.7	0.9	0.7	0.6	0.8	0.6	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.6	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{1min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{1F} ≥ S_{1min} 1.9 ≥ 0.3

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
 Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{1F} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM = Unreinforced masonry infill MH = Assembled Housing PD = Flexible diaphragm
 BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.119 RVS form for Structure #89

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH

SKETCH

Additional sketches or comments on separate page

Address: 515 SOUTH LIBERTY STREET
Zip: 38301

Other Identifiers: TN009020

Building Name: JACOBANDER LEECH CRIMINAL JUSTICE CO...
Use: POLICE PROTECTION

Latitude: 35.689054 **Longitude:** 88.81902
S₁: 0.716 **S₂:** 0.27

Screeners: Abdurhaman Abdurhaci **Date/Time:** _____

No. Stories: Above Grade: _____ Below Grade: _____ **Year Built:** 1984 est
Total Floor Area (sq. ft.): 52583 **Code Year:** 1991

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor
Rock Rock Soil Soil Soil Soil #DNK, assume Type D

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{1F}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF)	C1 (SW)	C2 (SW)	C3 (MRF)	PC1 (TU)	PC2 (TU)	RM1 (PD)	RM2 (PD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	4.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	-0.8	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	4.0	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	4.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.6	0.9	0.5	0.9	0.9	0.6	0.6	0.7	0.9	0.7	0.6	0.8	0.6	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{1min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4
FINAL LEVEL 1 SCORE, S_{1F} ≥ S_{1min}		0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____
Geologic Hazards Source: _____
Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S₂ _____ No
Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S₂ > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Asymmetric Housing PD = Flexible diaphragm BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.120 RVS form for Structure #90

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 29 VANN DRIVE **Zip:** 38308

Other Identifiers: TN009100

Building Name: TENNESSEE HIGHWAY PATROL DISTRICT 6 H...

Use: POLICE PROTECTION

Latitude: 35.672151 **Longitude:** 88.811163

S₁: 0.775 **S₂:** 0.281

Screeners: Abdulkhann Abdulhadi **Date/Time:** _____

No. Stories: Above Grade: _____ Below Grade: _____ **Year Built:** 1982 est

Total Floor Area (sq. ft.): 6818 **Code Year:** 1991

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial **Emer. Services** Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{1F}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (URC IN)	PC1 (TU)	PC2	RM1 (FD)	RM2 (FD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.3	NA
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4
FINAL LEVEL 1 SCORE, S_{1F} ≥ S_{min}		0.6																

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S₂ _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S₂ > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (M) = Unreinforced masonry infill MH = Asymmetric housing FD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.121 RVS form for Structure #91

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 354 ATOKA MURFORD AVENUE Zip: 38004

Other Identifiers: TN009400

Building Name: ATOKA POLICE DEPARTMENT

Use: POLICE PROTECTION

Latitude: 35.443742 **Longitude:** -89.782517

S₁: 1174 **S₂:** 0402

Screener(s): Abdulrhman Abdalrhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 2016 est

Total Floor Area (sq. ft.): 10971 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial **Emer. Services** Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Stiff Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Founding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LRC)	S4 (RC SW)	S5 (U/M I/M)	C1 (MRF)	C2 (BR)	C3 (L/M I/M)	PC1 (TL)	PC2	RM1 (FD)	RM2 (FD)	UR#	MH
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.9	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.3	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.5	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	-0.5	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	0.0
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.1	1.6	NA	1.4	1.7	NA	1.5	1.7	1.6	1.6	NA	0.5
Soil Type A or B		0.3	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA
Minimum Score, S _{min}		0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 1.8 ≥ 0.3

<p>EXTENT OF REVIEW</p> <p>Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial</p> <p>Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered</p> <p>Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Soil Type Source: _____</p> <p>Geologic Hazards Source: _____</p> <p>Contact Person: _____</p>	<p>OTHER HAZARDS</p> <p>Are There Hazards That Trigger A Detailed Structural Evaluation?</p> <p><input type="checkbox"/> Pounding potential (unless S₂ > cut-off, if known)</p> <p><input type="checkbox"/> Falling hazards from taller adjacent building</p> <p><input type="checkbox"/> Geologic hazards or Soil Type F</p> <p><input type="checkbox"/> Significant damage/deterioration to the structural system</p>	<p>ACTION REQUIRED</p> <p>Detailed Structural Evaluation Required?</p> <p><input type="checkbox"/> Yes, unknown FEMA building type or other building</p> <p><input type="checkbox"/> Yes, score less than cut-off</p> <p><input type="checkbox"/> Yes, other hazards present</p> <p><input type="checkbox"/> No</p> <p>Detailed Nonstructural Evaluation Recommended? (check one)</p> <p><input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated</p> <p><input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary</p> <p><input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK</p>
---	--	--

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (M) = Unreinforced masonry (infill) MH = Manufactured Housing FD = Flexible diaphragm
BR = Braced frame SW = Shear wall TL = Tie up IM = Light metal RD = Rigid diaphragm

Figure J.122 RVS form for Structure #94

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 582 LAST WOODLAWN AVENUE
Zip: 38001

Other Identifiers: TN009500

Building Name: BRIGHTON POLICE DEPARTMENT
Use: POLICE PROTECTION

Latitude: 35.487606 **Longitude:** -89.722752
S: 1.169 **S:** 0.401

Screeners: Abdurrahman Abdulsadi **Date/Time:** _____

No. Stories: Above Grade: _____ Below Grade: _____ **Year Built:** 1990 est

Total Floor Area (sq. ft.): 1991 **Code Year:** 1991

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial **Emer. Services** Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S_{L1}

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LC)	S4 (RC (MRF) OR SW)	S5 (MRF OR RC)	C1 (MRF)	C2 (BR)	C3 (LRB (F))	PC1 (TU)	PC2	RH1 (FX)	RH2 (FE)	UR1	MH
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V ₁		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, V ₂		-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.5	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, P ₁		-1.1	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.6	-0.6	-0.5	-0.7	-0.6	-0.7	-0.7	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmarks		1.5	1.9	2.2	1.4	1.4	1.1	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.3	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.6	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S _{min}		1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.9 ≥ 0.5

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered
Drawings Reviewed: Yes No
Soil Type Source: _____
Geologic Hazards Source: _____
Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No
Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > out-off, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (M) = Unreinforced masonry masonry wall MH = Manufactured Housing ER = Fixed frame SW = Shear wall TU = Tilt up LM = Light metal FD = Flexible diaphragm RD = Rigid diaphragm

Figure J.123 RVS form for Structure #95

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
HIGH Seismicity

PHOTOGRAPH

SKETCH

Additional sketches or comments on separate page

Address: 180 SOUTH COLLEGE STREET, SUITE 106
Zip: 38019

Other Identifiers: TN069500

Building Name: Tipton County Sheriffs Department / T...
Use: POLICE PROTECTION

Latitude: 35.547385 **Longitude:** -89.650377
Sr: 1.136 **Sr:** 0.407

Screeners(s): Abdurman Abdulsadi **Data/Time:**

No. Stories: Above Grade: _____ Below Grade: _____ **Year Built:** 1992 est
Total Floor Area (sq. ft.): 59230 **Code Year:** 1991

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg Dense Stiff Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity): _____
 Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (L)	S4 (RC SW)	S5 (RM RF)	C1 (MRF)	C2 (BR)	C3 (RM RF)	PC1 (TU)	PC2	RH1 (FX)	RH2 (FE)	UR1	MH
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V ₁		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, V ₂		-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.6	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, P ₁		-1.1	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.6	-0.6	-0.5	-0.7	-0.6	-0.7	-0.7	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmarks		1.5	1.9	2.2	1.4	1.4	1.1	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.5	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.6	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S _{min}		1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 1.1 ≥ 0.5

EXTENT OF REVIEW	OTHER HAZARDS	ACTION REQUIRED
Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____	Are There Hazards That Trigger A Detailed Structural Evaluation? <input type="checkbox"/> Pounding potential (unless S _{L1} > out-off, if known) <input type="checkbox"/> Falling hazards from taller adjacent building <input type="checkbox"/> Geologic hazards or Soil Type F <input type="checkbox"/> Significant damage/deterioration to the structural system	Detailed Structural Evaluation Required? <input type="checkbox"/> Yes, unknown FEMA building type or other building <input type="checkbox"/> Yes, score less than cut-off <input type="checkbox"/> Yes, other hazards present <input type="checkbox"/> No Detailed Nonstructural Evaluation Recommended? (check one) <input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated <input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary <input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM/RM = Unreinforced masonry wall MH = Manufactured Housing FD = Flexible diaphragm
 BR = Fixed frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.124 RVS form for Structure #96

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 131 LAST PLEASANT AVENUE **Zip:** 38019

Other Identifiers: TN069700

Building Name: COVINGTON POLICE DEPARTMENT

Use: POLICE PROTECTION

Latitude: 35.56158 **Longitude:** -89.64497

Sr: 1.217 **Sr:** 0.416

Screeners: Abdurrahman Abdulsadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1963 est

Total Floor Area (sq. ft.): 7470 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial **Emer. Services** Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity):
 Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LC)	S4 (RC (MRF or SW))	S5 (RM or RP)	C1 (MRF)	C2 (BR)	C3 (LRB (F))	PC1 (TU)	PC2	RH1 (FX)	RH2 (FE)	URM	MH
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V ₁		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.9	NA
Moderate Vertical Irregularity, V ₂		-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.6	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, P ₁		-1.1	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.6	-0.6	-0.5	-0.7	-0.6	-0.7	-0.7	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmarks		1.5	1.9	2.2	1.4	1.4	1.1	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.5	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.6	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S _{min}		1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.3 ≥ 0.3

<p>EXTENT OF REVIEW</p> <p>Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial</p> <p>Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered</p> <p>Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Soil Type Source: _____</p> <p>Geologic Hazards Source: _____</p> <p>Contact Person: _____</p> <p>LEVEL 2 SCREENING PERFORMED?</p> <p><input type="checkbox"/> Yes, Final Level 2 Score, S_{L2} _____ <input type="checkbox"/> No</p> <p>Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>OTHER HAZARDS</p> <p>Are There Hazards That Trigger A Detailed Structural Evaluation?</p> <p><input type="checkbox"/> Pounding potential (unless S_{L1} > cut-off, if known)</p> <p><input type="checkbox"/> Falling hazards from taller adjacent building</p> <p><input type="checkbox"/> Geologic hazards or Soil Type F</p> <p><input type="checkbox"/> Significant damage/deterioration to the structural system</p>	<p>ACTION REQUIRED</p> <p>Detailed Structural Evaluation Required?</p> <p><input type="checkbox"/> Yes, unknown FEMA building type or other building</p> <p><input type="checkbox"/> Yes, score less than cut-off</p> <p><input type="checkbox"/> Yes, other hazards present</p> <p><input type="checkbox"/> No</p> <p>Detailed Nonstructural Evaluation Recommended? (check one)</p> <p><input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated</p> <p><input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary</p> <p><input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK</p>
--	---	--

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM = Unreinforced masonry wall MH = Manufactured Housing BR = Fixed frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.125 RVS form for Structure #97

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 12157 MAIN STREET Zip: 38049

Other Identifiers: TN009800

Building Name: MASON POLICE DEPARTMENT

Use: POLICE PROTECTION

Latitude: 35.411588 **Longitude:** 89.532125

S₁: 0.907 **S₂:** 0.316

Screeener(s): Abdulhannan Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1956 est

Total Floor Area (sq. ft.): -4273 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity):
 Plan (type):

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{1F}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (MRF)	S4 (RC SW)	S5 (MRF)	C1 (SW)	C2 (SW)	C3 (MRF)	PC1 (TU)	PC2 (TU)	RM1 (PD)	RM2 (PD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{1min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4
FINAL LEVEL 1 SCORE, S_{1F} ≥ S_{1min}		1.3																

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{2F} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{2F} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM/MF = Unreinforced masonry/mill LM = Light metal
BR = Braced frame SW = Shear wall TU = Tilt up MH = Assembled Housing PD = Flexible diaphragm RD = Rigid diaphragm

Figure J.126 RVS form for Structure #98

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 79 COLLEGE STREET Zip: 38005

Other Identifiers: TN009100

Building Name: MEMPHIS POLICE DEPARTMENT

Use: POLICE PROTECTION

Latitude: 35.147269 **Longitude:** -90.05362

Sr: 1216 **Sr:** 0416

Screeners: Abdurrahman Abdulsadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1990 est

Total Floor Area (sq. ft.): 5950 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (L)	S4 (RC BR)	S5 (MRF BR)	C1 (MRF)	C2 (BR)	C3 (LRF)	PC1 (TU)	PC2	RM1 (FX)	RM2 (FE)	URM	MH
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V ₁		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, V ₂		-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.5	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, P ₁		-1.1	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.6	-0.6	-0.5	-0.7	-0.6	-0.7	-0.7	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmarks		1.5	1.9	2.2	1.4	1.4	1.1	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.5	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.6	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S _{min}		1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.3 ≥ 0.3

EXTENT OF REVIEW	OTHER HAZARDS	ACTION REQUIRED
Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____	Are There Hazards That Trigger A Detailed Structural Evaluation? <input type="checkbox"/> Pounding potential (unless S _{L1} > out-off, if known) <input type="checkbox"/> Falling hazards from taller adjacent building <input type="checkbox"/> Geologic hazards or Soil Type F <input type="checkbox"/> Significant damage/deterioration to the structural system	Detailed Structural Evaluation Required? <input type="checkbox"/> Yes, unknown FEMA building type or other building <input type="checkbox"/> Yes, score less than cut-off <input type="checkbox"/> Yes, other hazards present <input type="checkbox"/> No Detailed Nonstructural Evaluation Recommended? (check one) <input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated <input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary <input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM = Unreinforced masonry wall MH = Manufactured Housing FD = Flexible diaphragm
 BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.127 RVS form for Structure #99

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 3000 OPPORTUNITY ST Zip: 38024

Other Identifiers: 1N00050

Building Name: THREE OAKS MIDDLE SCHOOL

Use: Schools

Latitude: 36.0497 **Longitude:** 89.434019

S: 1.471 **Sz:** 0.506

Screener(s): Abdulmutab Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1995 est

Total Floor Area (sq. ft.): 106489 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial ~~Enter Specifics~~ Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Stiff Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S_{L1}

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LC)	S4 (RC (RM) (RF))	S5 (RM (RF))	C1 (MRF)	C2 (BR)	C3 (RM (RF))	PC1 (TU)	PC2	RM1 (FX)	RM2 (FE)	UR1	MH
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V ₁		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, V ₂		-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.5	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, P ₁		-1.1	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.6	-0.8	-0.5	-0.7	-0.6	-0.7	-0.7	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmarks		1.5	1.9	2.2	1.4	1.4	1.1	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.3	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.6	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S _{min}		1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 2.6 ≥ 0.3

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial

Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > out-off, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (RF) = Unreinforced masonry infill MH = Manufactured Housing FD = Flexible diaphragm
ER = Fixed frame SW = Shear wall TU = Tie up LM = Light metal RD = Rigid diaphragm

Figure J.128 RVS form for Structure #100

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 2371 MILLSFIELD HW Zip: 38024

Other Identifiers: TNO 0100

Building Name: FIFTH CONSOLIDATED SCHOOL

Use: SCHOOL

Latitude: 36.087096 **Longitude:** -89.579055

S: 2.519 **S:** 0.917

Screener(s): Abdulrhman Abdalrhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 2012 est

Total Floor Area (sq. ft.): 71175 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Stiff Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Founding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LAC)	S4 (RC SW)	S5 (URM IR)	C1 (MRF)	C2 (BR)	C3 (LRM IR)	PC1 (TL)	PC2	RM1 (FD)	RM2 (FD)	URM	MH
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.9	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.3	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.5	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	-0.5	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	0.0
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.1	1.6	NA	1.4	1.7	NA	1.5	1.7	1.6	1.6	NA	0.5
Soil Type A or B		0.3	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA
Minimum Score, S _{min}		0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{avg} 2.3 ≥ 0.3

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > cut-off, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (M) = Unreinforced masonry masonry IR = Infill wall TL = Tilt-up MH = Manufactured Housing FD = Flexible diaphragm BR = Rigid diaphragm SW = Shear wall

Figure J.129 RVS form for Structure #101

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 405 FRANK MAYNARD DR
Zip: 38024

Other Identifiers: TN0 0200

Building Name: DYLBURG MIDDLE SCHOOL

Use: SCHOOL

Latitude: 36.033125 **Longitude:** -89.35333

Sr: 2.241 **Sr:** 0.794

Screener(s): Abdulrhman Abdalrhadi **Date/Time:**

No. Stories: Above Grade: _____ Below Grade: _____ **Year Built:** 2001 est

Total Floor Area (sq. ft.): 18000 **Code Year:** 1991

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Founding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

Additional sketches or comments on separate page

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (L)	S4 (RC SW)	S5 (URM IR)	C1 (MRF)	C2 (BR)	C3 (LRM IR)	PC1 (TL)	PC2	RM1 (FD)	RM2 (FD)	URM	MH
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.0	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.3	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.5	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	-0.5	-0.5	-0.5	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	0.0	0.0	0.0
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.1	1.5	NA	1.4	1.7	NA	1.5	1.7	1.5	1.6	NA	0.5
Soil Type A or B		0.3	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA
Minimum Score, S _{min}		0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{avg} 1.0 ≥ 0.3

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____
Geologic Hazards Source: _____
Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No
Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > cut-off, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (M) = Unreinforced masonry masonry (M) MH = Manufactured Housing FD = Flexible diaphragm IR = Irregular SW = Shear wall TL = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.130 RVS form for Structure #102

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 125 HIGHWAY 31, BY-PASS WEST
Zip: 38024

Other Identifiers: TN0 0301

Building Name: DYERSBURG HIGH SCHOOL

Use: SCHOOL

Latitude: 36.055555 **Longitude:** -89.584704

Sr: 2.398 **Sr:** 0.662

Screeners: Abdulrhman Abdalrhadi **Date/Time:**

No. Stories: Above Grade: _____ Below Grade: _____ **Year Built:** 1972 est

Total Floor Area (sq. ft.): 235000 **Code Year:** 1991

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg. Dense Stiff Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Founding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (L)	S4 (RC SW)	S5 (U/M IFR)	C1 (MRF)	C2 (BR)	C3 (L/R IFR)	PC1 (T)	PC2	RM1 (F)	RM2 (D)	UR#	MH
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.9	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.3	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.4	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	-0.5	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.9	-0.2	-0.1	-0.2	-0.2	0.0	0.0
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.1	1.6	NA	1.4	1.7	NA	1.5	1.7	1.8	1.6	NA	0.5
Soil Type A or B		0.3	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA
Minimum Score, S _{min}		0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{avg} 0.3 ≥ 0.3

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > cut-off, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (M) = Unreinforced masonry (wall) MH = Manufactured Housing FD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tie up IM = light metal RD = Rigid diaphragm

Figure J.131 RVS form for Structure #103.1

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

PHOTOGRAPH

Address: 125 HIGHWAY 31, BY-PASS WEST **Zip:** 38024

Other Identifiers: TN0 0302

Building Name: DYERSBURG HIGH SCHOOL (VOC)

Use: SCHOOL

Latitude: 36.055265 **Longitude:** -89.585927

Sr: 2.399 **Sr:** 0.603

Screeners(s): Abdulrahman Abdalrhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1974 est

Total Floor Area (sq. ft.): 30000 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Founding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

PHOTOGRAPH

SKETCH

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S_{L1}

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (L)	S4 (RC SW)	S5 (URM IR)	C1 (MRF)	C2 (BR)	C3 (URM IR)	PC1 (T)	PC2	RM1 (F)	RM2 (D)	URM	MH
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.9	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.3	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.4	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	-0.5	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	0.0
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.1	1.6	NA	1.4	1.7	NA	1.5	1.7	1.6	1.6	NA	0.5
Soil Type A or B		0.3	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA
Minimum Score, S _{min}		0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.3 ≥ 0.3

EXTENT OF REVIEW
 Exterior: Partial All Sides Aerial
 Interior: None Visible Entered
 Drawings Reviewed: Yes No
 Soil Type Source: _____
 Geologic Hazards Source: _____
 Contact Person: _____

LEVEL 2 SCREENING PERFORMED?
 Yes, Final Level 2 Score, S_{L2} _____ No
 Nonstructural hazards? Yes No

OTHER HAZARDS
 Are There Hazards That Trigger A Detailed Structural Evaluation?
 Pounding potential (unless S_{L1} > cut-off, if known)
 Falling hazards from taller adjacent building
 Geologic hazards or Soil Type F
 Significant damage/deterioration to the structural system

ACTION REQUIRED
 Detailed Structural Evaluation Required?
 Yes, unknown FEMA building type or other building
 Yes, score less than cut-off
 Yes, other hazards present
 No
 Detailed Nonstructural Evaluation Recommended? (check one)
 Yes, nonstructural hazards identified that should be evaluated
 No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary
 No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (M) = Unreinforced masonry masonry IR = Infill RC = Reinforced concrete SW = Shear wall URM (M) = Unreinforced masonry masonry IR = Infill MH = Manufactured Housing IM = Light metal PD = Flexible diaphragm RD = Rigid diaphragm

Figure J.132 RVS form for Structure #103.2

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 1425 FRANK MAYNARD DR
Zip: 38024

Other Identifiers: TN0 0400

Building Name: DYERSBURG PRIMARY

Use: SCHOOL

Latitude: 36.046834 **Longitude:** -89.561546

Sr: 2.321 **Sr:** 0.825

Screener(s): Abdulrhman Abdalrhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1992 est

Total Floor Area (sq. ft.): 58857.14-53 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Stiff Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Founding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity)
 Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (L)	S4 (RC SW)	S5 (URM IR)	C1 (MRF)	C2 (BR)	C3 (LRM IR)	PC1 (TL)	PC2	RM1 (FD)	RM2 (FD)	URM	MH
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.0	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.3	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.5	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	-0.5	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	0.0	0.0	0.0
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.1	1.6	NA	1.4	1.7	NA	1.5	1.7	1.6	NA	0.5	
Soil Type A or B		0.3	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA
Minimum Score, S _{min}		0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.9 ≥ 0.3

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered
Drawings Reviewed: Yes No
Soil Type Source: _____
Geologic Hazards Source: _____
Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No
Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > cut-off, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (M) = Unreinforced masonry masonry IR = Infill wall TL = Tilt up MH = Manufactured Housing IM = light metal FD = Flexible diaphragm BR = Rigid diaphragm

Figure J.133 RVS form for Structure #104

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 72.5 HIBBS ST Zip: 38024

Other Identifiers: TNO #501

Building Name: DYERSBURG INTERMEDIATE SCHOOL (Feyta)

Use: SCHOOL

Latitude: 36.039613 Longitude: -89.576964

Sr: 2.307 Sr: 0.821

Screener(s): Abdulrhman Abdalrhadi Date/Time:

No. Stories: Above Grade: Below Grade: Year Built: 2005 est

Total Floor Area (sq. ft.): 31700 Code Year: 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office **School** Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Founding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity)
 Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (L)	S4 (RC SW)	S5 (URM IM)	C1 (MRF)	C2 (BR)	C3 (URM IM)	PC1 (TU)	PC2	RM1 (FD)	RM2 (FD)	URM	MH
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.0	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.3	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.5	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	-0.5	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	0.0	0.0	0.0
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.1	1.6	NA	1.4	1.7	NA	1.5	1.7	1.6	1.6	NA	0.5
Soil Type A or B		0.3	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA
Minimum Score, S _{min}		0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} **2.3** ≥ 0.3

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered
Drawings Reviewed: Yes No
Soil Type Source: _____
Geologic Hazards Source: _____
Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No
Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > cut-off, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM IM = Unreinforced masonry wall MH = Manufactured Housing FD = Flexible diaphragm BR = Braced frame SW = Shear wall TU = Tie up LM = Light metal RD = Rigid diaphragm

Figure J.134 RVS form for Structure #105.1

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

PHOTOGRAPH

Address: 72.5 HIBBS ST Zip: 38024

Other Identifiers: TN0 0502

Building Name: DYERSBURG INTERMEDIATE SCHOOL (OG)

Use: SCHOOL

Latitude: 36.033177 **Longitude:** -89.37706

S₁: 2.305 **S₂:** 0.821

Screeener(s): Abdulrahman Abdalrhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1954 est

Total Floor Area (sq. ft.): 62125 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Founding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

PHOTOGRAPH

SKETCH

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S_{L1}

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LRC)	S4 (RC SW)	S5 (U/MF MF)	C1 (MRF)	C2 (BR)	C3 (LRM MF)	PC1 (TU)	PC2	RM1 (FD)	RM2 (FD)	URM	MH
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.9	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.3	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.5	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	-0.5	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	0.0
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.1	1.6	NA	1.4	1.7	NA	1.5	1.7	1.6	1.6	NA	0.5
Soil Type A or B		0.3	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA
Minimum Score, S _{min}		0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{avg} 0.3 ≥ 0.3

EXTENT OF REVIEW
 Exterior: Partial All Sides Aerial
 Interior: None Visible Entered
 Drawings Reviewed: Yes No
 Soil Type Source: _____
 Geologic Hazards Source: _____
 Contact Person: _____

LEVEL 2 SCREENING PERFORMED?
 Yes, Final Level 2 Score, S_{L2} _____ No
 Nonstructural hazards? Yes No

OTHER HAZARDS
 Are There Hazards That Trigger A Detailed Structural Evaluation?
 Pounding potential (unless S_{L1} > cut-off, if known)
 Falling hazards from taller adjacent building
 Geologic hazards or Soil Type F
 Significant damage/deterioration to the structural system

ACTION REQUIRED
 Detailed Structural Evaluation Required?
 Yes, unknown FEMA building type or other building
 Yes, score less than cut-off
 Yes, other hazards present
 No
 Detailed Nonstructural Evaluation Recommended? (check one)
 Yes, nonstructural hazards identified that should be evaluated
 No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary
 No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MF = Unreinforced masonry mull MH = Manufactured Housing FD = Flexible diaphragm BR = Braced frame SW = Shear wall TU = Tie up LM = Light metal RD = Rigid diaphragm

Figure J.135 RVS form for Structure #105.2

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

PHOTOGRAPH

Address: 72.5 HIBBS ST
Zip: 38024

Other Identifiers: TNO 0503

Building Name: DYERSBURG INTERMEDIATE SCHOOL (Add)

Use: SCHOOL

Latitude: 36.037744 **Longitude:** -89.576773

Sr: 2.308 **Sr:** 0.82

Screeners(s): Abdulrahman Abdalrhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1997 est

Total Floor Area (sq. ft.): 22400 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Founding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity)
 Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

SKETCH Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S_{L1}

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LAC)	S4 (RC SW)	S5 (URM MFR)	C1 (MRF)	C2 (BR)	C3 (URM MFR)	PC1 (TU)	PC2	RM1 (FD)	RM2 (FD)	URM	MH
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.9	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.3	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.5	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	-0.5	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	0.0
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.1	1.6	NA	1.4	1.7	NA	1.5	1.7	1.6	1.6	NA	0.5
Soil Type A or B		0.3	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA
Minimum Score, S _{min}		0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} **2.7** ≥ 0.3

EXTENT OF REVIEW
 Exterior: Partial All Sides Aerial
 Interior: None Visible Entered
 Drawings Reviewed: Yes No
 Soil Type Source: _____
 Geologic Hazards Source: _____
 Contact Person: _____

LEVEL 2 SCREENING PERFORMED?
 Yes, Final Level 2 Score, S_{L2} _____ No
 Nonstructural hazards? Yes No

OTHER HAZARDS
 Are There Hazards That Trigger A Detailed Structural Evaluation?
 Pounding potential (unless S_{L1} > cut-off, if known)
 Falling hazards from taller adjacent building
 Geologic hazards or Soil Type F
 Significant damage/deterioration to the structural system

ACTION REQUIRED
 Detailed Structural Evaluation Required?
 Yes, unknown FEMA building type or other building
 Yes, score less than cut-off
 Yes, other hazards present
 No
 Detailed Nonstructural Evaluation Recommended? (check one)
 Yes, nonstructural hazards identified that should be evaluated
 No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary
 No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST = Estimated or unreliable data** **OR** **DNK = Do Not Know**


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MFR = unreinforced masonry mfr MH = Manufactured Housing PB = Flexible diaphragm BR = Braced frame SW = Shear wall TU = Tie up IM = light metal RD = Rigid diaphragm

Figure J.136 RVS form for Structure #105.3

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 918 HIGHWAY 210 SOUTH
Zip: 38024

Other Identifiers: TNO 0500

Building Name: HOLICE POWELL ELEMENTARY

Use: SCHOOL

Latitude: 35.971189 **Longitude:** -89.588874

Sr: 2.036 **Sr:** 0.707

Screener(s): Abdulrhman Abdalrhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1950 est

Total Floor Area (sq. ft.): 41782 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Stiff Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Founding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (L)	S4 (RC SW)	S5 (URM IR)	C1 (MRF)	C2 (BR)	C3 (LRM IR)	PC1 (TL)	PC2	RM1 (FD)	RM2 (FD)	URM	MH
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.9	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.3	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.5	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	-0.5	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	0.0
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.1	1.6	NA	1.4	1.7	NA	1.5	1.7	1.6	1.6	NA	0.5
Soil Type A or B		0.3	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA
Minimum Score, S _{min}		0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.1 ≤ **0.3**

<p>EXTENT OF REVIEW</p> <p>Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____</p> <p>LEVEL 2 SCREENING PERFORMED?</p> <p><input type="checkbox"/> Yes, Final Level 2 Score, S_{L2} _____ <input type="checkbox"/> No Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>OTHER HAZARDS</p> <p>Are There Hazards That Trigger A Detailed Structural Evaluation?</p> <p><input type="checkbox"/> Pounding potential (unless S_{L2} > cut-off, if known)</p> <p><input type="checkbox"/> Falling hazards from taller adjacent building</p> <p><input type="checkbox"/> Geologic hazards or Soil Type F</p> <p><input type="checkbox"/> Significant damage/deterioration to the structural system</p>	<p>ACTION REQUIRED</p> <p>Detailed Structural Evaluation Required?</p> <p><input type="checkbox"/> Yes, unknown FEMA building type or other building</p> <p><input type="checkbox"/> Yes, score less than cut-off</p> <p><input type="checkbox"/> Yes, other hazards present</p> <p><input type="checkbox"/> No</p> <p>Detailed Nonstructural Evaluation Recommended? (check one)</p> <p><input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated</p> <p><input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary</p> <p><input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK</p>
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Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (M) = Unreinforced masonry (masonry) MH = Manufactured Housing FD = Flexible diaphragm
BR = Braced frame SW = Shear wall TL = Tie up IM = Light metal RD = Rigid diaphragm

Figure J.137 RVS form for Structure #106

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 1310 LAKE RD Zip: 38024

Other Identifiers: TN0 0301

Building Name: DYERSBURG STATE COMMUNITY COLLEGE LAD

Use: SCHOOL

Latitude: 36.047485 Longitude: -89.591545

Sr: 2.375 Sr: 0.852

Screener(s): Abdulrhman Abdalrhadi Date/Time:

No. Stories: Above Grade: Below Grade: Year Built: 1971 est

Total Floor Area (sq. ft.): 11225 Code Year: 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office **School** Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Founding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity)
 Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LAC)	S4 (RC SW)	S5 (URM IM)	C1 (MRF)	C2 (BR)	C3 (LRM IM)	PC1 (TL)	PC2	RM1 (FD)	RM2 (FD)	URM	MH
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.9	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.3	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.5	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	-0.5	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	0.0	0.0	0.0
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.1	1.6	NA	1.4	1.7	NA	1.5	1.7	1.8	1.6	NA	0.5
Soil Type A or B		0.3	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA
Minimum Score, S _{avg}		0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{avg} **0.9** ≥ 0.3

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > cut-off, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM IM = Unreinforced masonry wall MH = Manufactured Housing PB = Flexible diaphragm FD = Rigid diaphragm SW = Shear wall TL = Tilt up IM = Light metal

Figure J.138 RVS form for Structure #109.1

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 1310 LAKE RD. **Zip:** 38024

Other Identifiers: TN0 0302

Building Name: DYERSBURG STATE COMMUNITY COLLEGE MAT

Use: SCHOOL

Latitude: 36.047368 **Longitude:** -89.590766

Sr: 2.373 **Sr:** 0.651

Screener(s): Abdulrahman Abdalrhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1971 est

Total Floor Area (sq. ft.): 37361 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Founding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (L)	S4 (RC SW)	S5 (U/M I/F)	C1 (MRF)	C2 (BR)	C3 (L/M I/F)	PC1 (T)	PC2	RM1 (F)	RM2 (D)	URM	MH
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.9	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.5	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	-0.5	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.5	-0.5	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.6	-0.2	-0.1	-0.2	-0.2	0.0	0.0
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.1	1.6	NA	1.4	1.7	NA	1.5	1.7	1.8	1.6	NA	0.5
Soil Type A or B		0.3	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA
Minimum Score, S _{avg}		0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{avg} 0.6 ≥ 0.3

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > cut-off, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (M) = Unreinforced masonry mull MH = Manufactured Housing FD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tie up IM = light metal RD = Rigid diaphragm

Figure J.139 RVS form for Structure #109.2

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 1310 LAKE RD. **Zip:** 38024

Other Identifiers: TN0 0303

Building Name: DYERSBURG STATE COMMUNITY COLLEGE DAL

Use: SCHOOL

Latitude: 36.047093 **Longitude:** -89.589348

Sr: 3.37 **Sr:** 0.645

Screeners: Abdulrahman Abdalrhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1971 est

Total Floor Area (sq. ft.): 22470 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Founding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LAC)	S4 (RC SW)	S5 (U/M I/F)	C1 (MRF)	C2 (BM)	C3 (LRM I/F)	PC1 (TU)	PC2	RM1 (FD)	RM2 (FD)	URM	MH
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.0	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.3	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.5	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	-0.5	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.5	-0.5	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	0.0
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.1	1.6	NA	1.4	1.7	NA	1.5	1.7	1.8	1.6	NA	0.5
Soil Type A or B		0.3	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA
Minimum Score, S _{min}		0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{avg} 0.6 ≥ 0.3

<p>EXTENT OF REVIEW</p> <p>Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial</p> <p>Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered</p> <p>Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Soil Type Source: _____</p> <p>Geologic Hazards Source: _____</p> <p>Contact Person: _____</p>	<p>OTHER HAZARDS</p> <p>Are There Hazards That Trigger A Detailed Structural Evaluation?</p> <p><input type="checkbox"/> Pounding potential (unless S₂ > cut-off, if known)</p> <p><input type="checkbox"/> Falling hazards from taller adjacent building</p> <p><input type="checkbox"/> Geologic hazards or Soil Type F</p> <p><input type="checkbox"/> Significant damage/deterioration to the structural system</p>	<p>ACTION REQUIRED</p> <p>Detailed Structural Evaluation Required?</p> <p><input type="checkbox"/> Yes, unknown FEMA building type or other building</p> <p><input type="checkbox"/> Yes, score less than cut-off</p> <p><input type="checkbox"/> Yes, other hazards present</p> <p><input type="checkbox"/> No</p> <p>Detailed Nonstructural Evaluation Recommended? (check one)</p> <p><input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated</p> <p><input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary</p> <p><input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK</p>
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Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (M) = Unreinforced masonry (infill) MH = Manufactured Housing FD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tie up IM = Light metal RD = Rigid diaphragm

Figure J.140 RVS form for Structure #109.3

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 1310 LAKE RD. **Zip:** 38024

Other Identifiers: TN0 0304

Building Name: DYERSBURG STATE COMMUNITY COLLEGE ACT

Use: SCHOOL

Latitude: 36.043944 **Longitude:** -89.590767

Sr: 2.381 **Sr:** 0.854

Screener(s): Abdulrhman Abdalrhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1971 est

Total Floor Area (sq. ft.): 12268 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Founding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LAC)	S4 (RC SW)	S5 (URM MF)	C1 (MRF)	C2 (BR)	C3 (LRM MF)	PC1 (TL)	PC2	RM1 (FD)	RM2 (FD)	URM	MH
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.0	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.3	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.4	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	-0.5	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	0.0
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.1	1.6	NA	1.4	1.7	NA	1.5	1.7	1.6	1.6	NA	0.6
Soil Type A or B		0.3	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA
Minimum Score, S _{min}		0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.1 ≤ **0.3**

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > cut-off, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MF = unreinforced masonry mfr MH = Manufactured Housing FD = Flexible diaphragm
BR = Braced frame SW = Shear wall TL = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.141 RVS form for Structure #109.4

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 1310 LAKE RD. **Zip:** 38024

Other Identifiers: TNO #305

Building Name: DYLSBURG STATE COMMUNITY COLLEGE STC

Use: SCHOOL

Latitude: 36.043855 **Longitude:** -89.590129

Sr: 0.38 **Sr:** 0.654

Screener(s): Abdulrahman Abdalrhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1971 est

Total Floor Area (sq. ft.): 17600 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Founding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S_{L1}

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LFR)	S4 (RC SW)	S5 (URM MF)	C1 (MRF)	C2 (BR)	C3 (URM MF)	PC1 (TU)	PC2	RM1 (FD)	RM2 (FD)	URM	MH
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.9	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.5	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.4	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	-0.5	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	0.0
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.1	1.6	NA	1.4	1.7	NA	1.5	1.7	1.6	1.6	NA	0.5
Soil Type A or B		0.3	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA
Minimum Score, S _{min}		0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.3 ≥ 0.3

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > cut-off, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MF = unreinforced masonry mull MH = Manufactured Housing PB = Flexible diaphragm FD = Rigid diaphragm
BR = Braced frame SW = Shear wall TU = Tie up IM = light metal

Figure J.142 RVS form for Structure #109.5

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 1310 LAKE RD. **Zip:** 38024

Other Identifiers: TNO 0306

Building Name: DYERSBURG STATE COMMUNITY COLLEGE-GY

Use: SCHOOL

Latitude: 36.043976 **Longitude:** -89.587913

S₁: 2.377 **S₂:** 0.852

Screeners: Abdulrhman Abdalrhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1971 est

Total Floor Area (sq. ft.): 35531 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Stiff Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Founding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LAC)	S4 (RC SW)	S5 (URM IM)	C1 (MRF)	C2 (BM)	C3 (LRM IM)	PC1 (TL)	PC2	RM1 (FD)	RM2 (FD)	URM	MH
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.9	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.3	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.5	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	-0.5	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	0.0
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.1	1.6	NA	1.4	1.7	NA	1.5	1.7	1.6	1.6	NA	0.5
Soil Type A or B		0.3	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA
Minimum Score, S _{min}		0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.1 ≤ **0.3**

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S₂ > cut-off, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM IM = Unreinforced masonry Infill MH = Manufactured Housing PB = Flexible diaphragm
BR = Braced frame SW = Shear wall TL = Tilt up IM = light metal RC = Rigid diaphragm

Figure J.143 RVS form for Structure #109.6

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 1310 LAKE RD. **Zip:** 38024

Other Identifiers: TN0 0307

Building Name: DYERSBURG STATE COMMUNITY COLLEGE MA

Use: SCHOOL

Latitude: 36.049629 **Longitude:** -89.587512

S₁: 2.379 **S₂:** 0.854

Screeners: Abdulrhman Abdalrhadi **Date/Time:**

No. Stories: Above Grade: _____ Below Grade: _____ **Year Built:** 1971 est

Total Floor Area (sq. ft.): 6091 **Code Year:** 1991

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg. Dense Stiff Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Founding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LAC)	S4 (RC SW)	S5 (U/M I/F)	C1 (MRF)	C2 (BW)	C3 (L/R I/F)	PC1 (TU)	PC2	RM1 (FD)	RM2 (FD)	UR#	MH
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.9	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.3	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.5	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	-0.5	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	0.0
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.1	1.6	NA	1.4	1.7	NA	1.5	1.7	1.6	1.6	NA	0.5
Soil Type A or B		0.3	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA
Minimum Score, S _{min}		0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.9 ≥ 0.3

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > cut-off, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (M) = Unreinforced masonry masonry TU = Tie up MH = Manufactured Housing IM = light metal FD = Flexible diaphragm BR = Rigid diaphragm SW = Shear wall

Figure J.144 RVS form for Structure #109.7

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 77 POPLAR STREET Zip: 38039

Other Identifiers: TN011000

Building Name: FINLEY ELEMENTARY

Use: SCHOOL

Latitude: 36.034741 **Longitude:** -89.481769

Sr: 2.376 **Sr:** 0.651

Screener(s): Abdulrhman Abdalrhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1919 est

Total Floor Area (sq. ft.): 51170 **Code Year:** 1991

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg Dense Stiff Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Founding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

Additional sketches or comments on separate page

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LAC)	S4 (RC SW)	S5 (URM BR)	C1 (MRF)	C2 (BM)	C3 (LRM (RF))	PC1 (TL)	PC2	RM1 (F)	RM2 (FD)	URM	MH
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.9	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.3	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.5	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	-0.5	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	0.0	0.0	0.0
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.1	1.6	NA	1.4	1.7	NA	1.5	1.7	1.6	1.6	NA	0.6
Soil Type A or B		0.3	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA
Minimum Score, S _{min}		0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.4 ≤ **0.5**

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial

Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > cut-off, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (RF) = Unreinforced masonry wall MH = Manufactured Housing FD = Flexible diaphragm
BR = Braced frame SW = Shear wall TL = Tie up IM = light metal RD = Rigid diaphragm

Figure J.145 RVS form for Structure #110

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 1000 WEST MAIN ST. **Zip:** 38059

Other Identifiers: TNO 1100

Building Name: DYER COUNTY HIGH SCHOOL

Use: SCHOOL

Latitude: 36.103297 **Longitude:** -89.292079

Sr: 2.423 **Sr:** 0.876

Screeners: Abdulrhman Abdalrhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 2003 est

Total Floor Area (sq. ft.): 19400 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Stiff Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Founding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LAC)	S4 (RC SW)	S5 (URM IR)	C1 (MRF)	C2 (BR)	C3 (LRM IR)	PC1 (TU)	PC2	RM1 (FD)	RM2 (FD)	URM	MH
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.9	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.7	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.5	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	-0.5	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	0.0
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.1	1.6	NA	1.4	1.7	NA	1.5	1.7	1.8	1.6	NA	0.5
Soil Type A or B		0.3	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA
Minimum Score, S _{min}		0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.5 ≤ **0.5**

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial

Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > cut-off, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (M) = Unreinforced masonry (wall) MH = Manufactured Housing FD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tie up IM = light metal RD = Rigid diaphragm

Figure J.146 RVS form for Structure #111

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 625 WILLIAMS ST
Zip: 38059

Other Identifiers: TN011300

Building Name: NORTHVIEW MIDDLE SCHOOL

Use: SCHOOL

Latitude: 36.114491 **Longitude:** -89.284302

Sr: 2.459 **Sr:** 0.583

Screeners: Abdulrhman Abdalrhadi **Date/Time:**

No. Stories: Above Grade: _____ Below Grade: _____ **Year Built:** 1970 est

Total Floor Area (sq. ft.): 99614 **Code Year:** 1991

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Founding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LW)	S4 (RC SW)	S5 (U/SI BR)	C1 (MRF)	C2 (SW)	C3 (LRM (RF))	PC1 (TU)	PC2	RM1 (FD)	RM2 (FD)	URM	MH	
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1	
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.9	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.7	-0.3	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.5	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	-0.5	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.9	-0.2	-0.1	-0.2	-0.2	0.0	0.0	
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.1	1.6	NA	1.4	1.7	NA	1.5	1.7	1.8	1.6	NA	0.5	
Soil Type A or B		0.3	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1	
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1	
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA	
Minimum Score, S _{avg}		0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.6	0.2	0.3	0.3	0.2	0.2	0.3	0.3	0.2	1.0	

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{avg} 0.6 ≥ 0.3

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial

Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > cut-off, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (RF) = Unreinforced masonry wall MH = Manufactured Housing FD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tie up LM = Light metal RD = Rigid diaphragm

Figure J.147 RVS form for Structure #112

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 401 NORTH YORK ST
Zip: 38059

Other Identifiers: TN011301

Building Name: NEWBORN GRAMMAR (NEWEST)

Use: SCHOOL

Latitude: 36.117453 **Longitude:** -89.29485

Sr: 2.357 **Sr:** 0.853

Screener(s): Abdulrhman Abdalrhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 2012 est

Total Floor Area (sq. ft.): 40000 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Stiff Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Founding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LRC)	S4 (RC SW)	S5 (U/SI BR)	C1 (MRF)	C2 (SW)	C3 (LRM (R))	PC1 (TU)	PC2	RM1 (F)	RM2 (FD)	UR#	MH
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.9	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.3	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.5	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	-0.5	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	0.0	0.0	0.0
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.1	1.6	NA	1.4	1.7	NA	1.5	1.7	1.8	1.6	NA	0.5
Soil Type A or B		0.3	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA
Minimum Score, S _{avg}		0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{avg} 2.3 ≥ 0.3

<p>EXTENT OF REVIEW</p> <p>Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____</p> <p>LEVEL 2 SCREENING PERFORMED?</p> <p><input type="checkbox"/> Yes, Final Level 2 Score, S_{L2} _____ <input type="checkbox"/> No Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>OTHER HAZARDS</p> <p>Are There Hazards That Trigger A Detailed Structural Evaluation?</p> <p><input type="checkbox"/> Pounding potential (unless S_{L2} > cut-off, if known)</p> <p><input type="checkbox"/> Falling hazards from taller adjacent building</p> <p><input type="checkbox"/> Geologic hazards or Soil Type F</p> <p><input type="checkbox"/> Significant damage/deterioration to the structural system</p>	<p>ACTION REQUIRED</p> <p>Detailed Structural Evaluation Required?</p> <p><input type="checkbox"/> Yes, unknown FEMA building type or other building</p> <p><input type="checkbox"/> Yes, score less than cut-off</p> <p><input type="checkbox"/> Yes, other hazards present</p> <p><input type="checkbox"/> No</p> <p>Detailed Nonstructural Evaluation Recommended? (check one)</p> <p><input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated</p> <p><input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary</p> <p><input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK</p>
--	---	--

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (M) = unreinforced masonry mull MH = Manufactured Housing FD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tie up IM = light metal RD = Rigid diaphragm

Figure J.148 RVS form for Structure #113.1

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 401 NORTH YORK ST
Zip: 38059

Other Identifiers: TN011302

Building Name: NEWBLEN GRAMMAR (MIDDLE)

Use: SCHOOL

Latitude: 36.11771 **Longitude:** -89.260402

Sr: 2.359 **Sr:** 0.854

Screener(s): Abdulrhman Abdalrhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1978 est

Total Floor Area (sq. ft.): 5800 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Founding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (L)	S4 (RC SW)	S5 (U/M FR)	C1 (MRF)	C2 (BR)	C3 (L/M FR)	PC1 (T)	PC2	RM1 (F)	RM2 (D)	UR#	MH
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.9	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.3	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.5	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	-0.5	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	0.0	0.0	0.0
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.1	1.6	NA	1.4	1.7	NA	1.5	1.7	1.8	1.6	NA	0.5
Soil Type A or B		0.3	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA
Minimum Score, S _{avg}		0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{avg} 0.8 ≥ 0.5

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial

Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > cut-off, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (M) = Unreinforced masonry (infill) MH = Manufactured Housing FD = Flexible diaphragm
FR = Braced frame SW = Shear wall TU = Tie up IM = light metal RD = Rigid diaphragm

Figure J.149 RVS form for Structure #113.2

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 401 NORTH YORK ST Zip: 38059

Other Identifiers: TN011303

Building Name: NEWBORN GRAMMAR (OLDEST)

Use: SCHOOL

Latitude: 36.117892 Longitude: -89.25993

Sr: 0.36 Sr: 0.654

Screener(s): Abdulrhman Abdalrhadi Date/Time:

No. Stories: Above Grade: Below Grade: Year Built: 1970 est

Total Floor Area (sq. ft.): 12530 Code Year: 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office **School** Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Founding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LRC)	S4 (RC SW)	S5 (URM IM)	C1 (MRF)	C2 (BR)	C3 (URM IM)	PC1 (TL)	PC2	RM1 (FD)	RM2 (FD)	URM	MH
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.0	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.3	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.4	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	-0.5	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	0.0
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.1	1.6	NA	1.4	1.7	NA	1.5	1.7	1.8	1.6	NA	0.5
Soil Type A or B		0.3	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA
Minimum Score, S _{min}		0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} **1.1** ≥ 0.5

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > cut-off, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM IM = Unreinforced masonry infill MH = Manufactured Housing TL = Tilt up FD = Flexible diaphragm BR = Rigid diaphragm SW = Shear wall

Figure J.150 RVS form for Structure #113.3

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 340 WASHINGTON ST
Zip: 38059

Other Identifiers: TN011401

Building Name: TENNESSEE COLLEGE OF APPLIED TECHNOLOGY

Use: SCHOOL

Latitude: 36.119951 **Longitude:** -89.257458

Sr: 2.357 **Sr:** 0.853

Screener(s): Abdulrhman Abdalrhadi **Date/Time:**

No. Stories: Above Grade: _____ Below Grade: _____ **Year Built:** 1975 est

Total Floor Area (sq. ft.): 38000 **Code Year:** 1991

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Founding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LW)	S4 (RC SW)	S5 (U/M I/M)	C1 (MRF)	C2 (BW)	C3 (L/RM I/M)	PC1 (TU)	PC2	RM1 (F)	RM2 (FD)	URM	MH
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.9	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.3	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.5	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	-0.5	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	0.0
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.1	1.6	NA	1.4	1.7	NA	1.5	1.7	1.6	1.6	NA	0.5
Soil Type A or B		0.3	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA
Minimum Score, S _{min}		0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.6 ≥ 0.2

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial

Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > cut-off, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (M) = Unreinforced masonry mull MH = Manufactured Housing FD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tie up IM = light metal RD = Rigid diaphragm

Figure J.151 RVS form for Structure #114.1

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 340 WASHINGTON ST
Zip: 38059

Other Identifiers: TN011402

Building Name: TENNESSEE COLLEGE OF APPLIED TECHNOLOGY

Use: SCHOOL

Latitude: 36.120185 **Longitude:** -89.257962

Sr: 2.359 **Sr:** 0.654

Screener(s): Abdulrhman Abdalrhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1975 est

Total Floor Area (sq. ft.): 10400 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Founding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity)
 Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (L)	S4 (RC SW)	S5 (U/M IFR)	C1 (MRF)	C2 (BR)	C3 (L/M IFR)	PC1 (T)	PC2	RM1 (F)	RM2 (D)	URM	MH
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.9	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.3	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.5	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	-0.5	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	0.0
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.1	1.6	NA	1.4	1.7	NA	1.5	1.7	1.6	1.6	NA	0.5
Soil Type A or B		0.3	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA
Minimum Score, S _{avg}		0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{avg} 0.3 ≥ 0.2

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered
Drawings Reviewed: Yes No
Soil Type Source: _____
Geologic Hazards Source: _____
Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No
Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > cut-off, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (M) = Unreinforced masonry (masonry) MH = Manufactured Housing PB = Flexible diaphragm
BR = Braced frame SW = Shear wall TL = Tie up IM = light metal RD = Rigid diaphragm

Figure J.152 RVS form for Structure #114.2

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

PHOTOGRAPH

SKETCH

Additional sketches or comments on separate page

Address: 342 WASHINGTON ST. **Zip:** 38059

Other Identifiers: TN011403

Building Name: TN APPLIED TECHNOLOGY

Use: SCHOOL

Latitude: 36.12047 **Longitude:** 89.206313

S₁: 2.154 **S₂:** 0.852

Screeener(s): Abdulrhman Abdalrhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1975 551

Total Floor Area (sq. ft.): 1790 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Founding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LM)	S4 (RC SW)	S5 (U/M IFR)	C1 (MRF)	C2 (BM)	C3 (LRM IFR)	PC1 (TL)	PC2	RM1 (F)	RM2 (FD)	URM	MH
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.9	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.3	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.4	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	-0.5	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	0.0
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.1	1.6	NA	1.4	1.7	NA	1.5	1.7	1.8	1.6	NA	0.5
Soil Type A or B		0.3	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA
Minimum Score, S _{min}		0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 1.3 ≥ 0.5

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S₂ > cut-off, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM IFR = Unreinforced masonry infill MH = Manufactured Housing SW = Shear wall TL = Tie up IM = Light metal PD = Flexible diaphragm RD = Rigid diaphragm

Figure J.153 RVS form for Structure #114.3

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 255 COLLIER ST Zip: 34204

Other Identifiers: TN011500

Building Name: TREMBLE ELEMENTARY

Use: SCHOOL

Latitude: 34.20049 **Longitude:** 85.1841

S: 0.241 **Sz:** 0.800

Screeners: Abdulhameed Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1939 EST

Total Floor Area (sq. ft.): 17969 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Stiff Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Founding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LC)	S4 (RC SW)	S5 (USL BR)	C1 (MRF)	C2 (BR)	C3 (LRM (R))	PC1 (TL)	PC2	RM1 (F)	RM2 (FD)	URM	MH
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.9	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.3	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.5	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	-0.5	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	0.0
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.1	1.6	NA	1.4	1.7	NA	1.5	1.7	1.8	1.6	NA	0.5
Soil Type A or B		0.3	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA
Minimum Score, S _{min}		0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{req} 0.4 ≥ 0.5

<p>EXTENT OF REVIEW</p> <p>Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____</p> <p>LEVEL 2 SCREENING PERFORMED?</p> <p><input type="checkbox"/> Yes, Final Level 2 Score, S_{L2} _____ <input type="checkbox"/> No Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>OTHER HAZARDS</p> <p>Are There Hazards That Trigger A Detailed Structural Evaluation?</p> <p><input type="checkbox"/> Pounding potential (unless S_{L2} > cut-off, if known)</p> <p><input type="checkbox"/> Falling hazards from taller adjacent building</p> <p><input type="checkbox"/> Geologic hazards or Soil Type F</p> <p><input type="checkbox"/> Significant damage/deterioration to the structural system</p>	<p>ACTION REQUIRED</p> <p>Detailed Structural Evaluation Required?</p> <p><input type="checkbox"/> Yes, unknown FEMA building type or other building <input type="checkbox"/> Yes, score less than cut-off <input type="checkbox"/> Yes, other hazards present <input type="checkbox"/> No</p> <p>Detailed Nonstructural Evaluation Recommended? (check one)</p> <p><input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated <input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary <input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK</p>
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Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (M) = Unreinforced masonry masonry MH = Manufactured Housing PB = Plyshear diaphragm
BR = Braced frame SW = Shear wall TL = Tie up LM = Light metal RD = Rigid diaphragm

Figure J.154 RVS form for Structure #115

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 202 COLLEGE ST Zip: 39401

Other Identifiers: T3011601

Building Name: LARA SINDALL ELEMENTARY

Use: SCHOOL

Latitude: 34.265775 **Longitude:** 89.480291

Sr: 1.095 **Sr:** 1.212

Screeners(s): Abdulrhman Abdalrhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1917 551

Total Floor Area (sq. ft.): 97050 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Founding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (L)	S4 (RC SW)	S5 (U/M IFR)	C1 (MRF)	C2 (BR)	C3 (L/M IFR)	PC1 (T)	PC2	RM1 (E)	RM2 (D)	UR#	MH
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.9	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.3	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.5	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	-0.5	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	0.0
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.1	1.5	NA	1.4	1.7	NA	1.5	1.7	1.6	1.6	NA	0.5
Soil Type A or B		0.3	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA
Minimum Score, S _{min}		0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.1 ≥ **0.3**

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S₂ > cut-off, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (M) = Unreinforced masonry (wall) MH = Manufactured Housing PD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tie up IM = Light metal RD = Rigid diaphragm

Figure J.155 RVS form for Structure #116.1

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 202 COLLEGE ST Zip: 39401

Other Identifiers: T3011602

Building Name: LARA KENDALL ELEMENTARY (AUXILIARY BUILDING)

Use: SCHOOL

Latitude: 34.261961 **Longitude:** 89.481113

Sr: 1.095 **Sr:** 1.212

Screeners(s): Abdulrhman Abdalrhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1989 EST

Total Floor Area (sq. ft.): 1700 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Founding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (L)	S4 (RC SW)	S5 (U/M IFR)	C1 (MRF)	C2 (BW)	C3 (L/RM IFR)	PC1 (TL)	PC2	RM1 (F)	RM2 (FD)	URM	MH
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.0	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.3	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.5	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	-0.5	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	0.0
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.1	1.6	NA	1.4	1.7	NA	1.5	1.7	1.6	1.6	NA	0.6
Soil Type A or B		0.3	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA
Minimum Score, S _{min}		0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{avg} **1.3** ≥ 0.5

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > cut-off, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (M) = Unreinforced masonry masonry TL = Tilt up MH = Manufactured Housing PB = Plyshear diaphragm FR = Free end frame SW = Shear wall IM = Light metal RC = Rigid diaphragm

Figure J.156 RVS form for Structure #116.2

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 202 COLLEGE ST Zip: 38401

Other Identifiers: TN011603

Building Name: LARA KENDALL ELEMENTARY (MAINTENANCE)

Use: SCHOOL

Latitude: 36.265277 **Longitude:** 89.47843

Sr: 1.096 **St:** 1.212

Screeners: Abdulrhman Abdalrhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1981 2011

Total Floor Area (sq. ft.): 214 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Founding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (SM)	S4 (RC SW)	S5 (U/M IFR)	C1 (MRF)	C2 (BW)	C3 (LRM IFR)	PC1 (TL)	PC2	RM1 (FD)	RM2 (FD)	URM	MH
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.0	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.3	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.5	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	-0.5	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	0.0
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.1	1.6	NA	1.4	1.7	NA	1.5	1.7	1.8	1.6	NA	0.6
Soil Type A or B		0.3	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA
Minimum Score, S _{avg}		0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{avg} 0.7 ≥ 0.5

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial

Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S₂ > cut-off, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM IFR = Unreinforced masonry infill MH = Manufactured Housing SW = Shear wall TL = Tie up IM = Light metal FD = Flexible diaphragm RD = Rigid diaphragm

Figure J.157 RVS form for Structure #116.3

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 202 COLLEGE ST
Zip: 39401

Other Identifiers: T3011604

Building Name: LARA KENDALL ELEMENTARY (CONCESSION)

Use: SCHOOL

Latitude: 34.266032 **Longitude:** 89.479288

Sr: 1.065 **Sr:** 1.211

Screeners: Abdulrhman Abdalrhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 2004 EST

Total Floor Area (sq. ft.): 190 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Founding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (JL)	S4 (RC SW)	S5 (U/SI BR)	C1 (MRF)	C2 (BW)	C3 (L/RM (M))	PC1 (TL)	PC2	RM1 (EX)	RM2 (DI)	URM	MH
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.0	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.3	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.5	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	-0.5	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	0.0
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.1	1.6	NA	1.4	1.7	NA	1.5	1.7	3.8	1.6	NA	0.5
Soil Type A or B		0.3	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA
Minimum Score, S _{min}		0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 2.7 ≥ 0.3

<p>EXTENT OF REVIEW</p> <p>Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____</p> <p>LEVEL 2 SCREENING PERFORMED?</p> <p><input type="checkbox"/> Yes, Final Level 2 Score, S_{L2} _____ <input type="checkbox"/> No Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>OTHER HAZARDS</p> <p>Are There Hazards That Trigger A Detailed Structural Evaluation?</p> <p><input type="checkbox"/> Pounding potential (unless S_{L2} > cut-off, if known)</p> <p><input type="checkbox"/> Falling hazards from taller adjacent building</p> <p><input type="checkbox"/> Geologic hazards or Soil Type F</p> <p><input type="checkbox"/> Significant damage/deterioration to the structural system</p>	<p>ACTION REQUIRED</p> <p>Detailed Structural Evaluation Required?</p> <p><input type="checkbox"/> Yes, unknown FEMA building type or other building</p> <p><input type="checkbox"/> Yes, score less than cut-off</p> <p><input type="checkbox"/> Yes, other hazards present</p> <p><input type="checkbox"/> No</p> <p>Detailed Nonstructural Evaluation Recommended? (check one)</p> <p><input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated</p> <p><input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary</p> <p><input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK</p>
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Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (M) = Unreinforced masonry masonry TL = Tilt up MH = Manufactured Housing PB = Plyshear diaphragm BR = Braced frame SW = Shear wall LM = Light metal RD = Rigid diaphragm

Figure J.158 RVS form for Structure #116.4

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 817 CHURCH ST Zip: 38679

Other Identifiers: T3011701

Building Name: MARGARET NEWTON ELEMENTARY

Use: SCHOOL

Latitude: 36.37782 **Longitude:** 89.47497

Sr: 1.065 **St:** 1.096

Screeener(s): Abdulrhman Abdalrhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1951 EST

Total Floor Area (sq. ft.): 18754 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Stiff Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Founding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LRC)	S4 (RC SW)	S5 (U/M IFR)	C1 (MRF)	C2 (BR)	C3 (LRM IFR)	PC1 (TL)	PC2	RM1 (FD)	RM2 (FD)	UR/M	MH
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.9	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.3	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.4	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	-0.5	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	0.0
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.1	1.6	NA	1.4	1.7	NA	1.5	1.7	1.6	1.6	NA	0.5
Soil Type A or B		0.3	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA
Minimum Score, S _{min}		0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.3 ≥ 0.2

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered
Drawings Reviewed: Yes No
Soil Type Source: _____
Geologic Hazards Source: _____
Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No
Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > cut-off, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM IFR = Unreinforced masonry infill MH = Manufactured Housing SW = Shear wall TL = Tie up IM = Light metal FD = Flexible diaphragm RD = Rigid diaphragm

Figure J.159 RVS form for Structure #117.1

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 817 CHURCH ST Zip: 38079

Other Identifiers: T3011702

Building Name: MARGARET NEWTON ELEMENTARY

Use: SCHOOL

Latitude: 36.377582 **Longitude:** 89.475281

Sr: 1.057 **Sr:** 1.093

Screeener(s): Abdulrhman Abdalrhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1976 EST

Total Floor Area (sq. ft.): 7057 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Founding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LC)	S4 (RC SW)	S5 (U/M IFR)	C1 (MRF)	C2 (BW)	C3 (LRM IFR)	PC1 (TL)	PC2	RM1 (F)	RM2 (FD)	UR/M	MH
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.0	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.3	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.4	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	-0.5	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	0.0
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.1	1.6	NA	1.4	1.7	NA	1.5	1.7	1.6	1.6	NA	0.5
Soil Type A or B		0.3	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA
Minimum Score, S _{min}		0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.9 ≥ 0.2

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered
Drawings Reviewed: Yes No
Soil Type Source: _____
Geologic Hazards Source: _____
Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No
Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > cut-off, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM IFR = Unreinforced masonry infill MH = Manufactured Housing SW = Shear wall TL = Tie up IM = light metal PD = Flexible diaphragm RD = Rigid diaphragm

Figure J.160 RVS form for Structure #117.2

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 817 CHURCH ST Zip: 38079

Other Identifiers: T3011703

Building Name: MARGARET NEWTON ELEMENTARY (GYM)

Use: SCHOOL

Latitude: 36.37716 **Longitude:** 89.47499

Sr: 1.096 **St:** 1.096

Screeners: Abdulhameed Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1989 2011

Total Floor Area (sq. ft.): 7570 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Stiff Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Founding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LM)	S4 (RC SW)	S5 (U/M I/M)	C1 (MRF)	C2 (BM)	C3 (LRM/RF)	PC1 (TL)	PC2	RM1 (FD)	RM2 (FD)	URM	MH
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.0	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.3	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.4	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	-0.5	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	0.0
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.1	1.6	NA	1.4	1.7	NA	1.5	1.7	1.6	1.6	NA	0.6
Soil Type A or B		0.3	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA
Minimum Score, S _{min}		0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} L₃ ≥ 0.5

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > cut-off, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (M) = Unreinforced masonry masonry IM = light metal MH = Manufactured Housing PD = Flexible diaphragm
BR = Braced frame SW = Shear wall TL = Tie up

Figure J.161 RVS form for Structure #117.3

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 817 CHURCH ST Zip: 39401

Other Identifiers: T3011704

Building Name: MARGARET NEWTON ELEMENTARY

Use: SCHOOL

Latitude: 34.377654 **Longitude:** 89.475293

Sr: 1,507 **St:** 1,196

Screeners(s): Abdulrhman Abdalrhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1981 EST

Total Floor Area (sq. ft.): 2015 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Stiff Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Founding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LM)	S4 (RC SW)	S5 (U/MF BR)	C1 (MRF)	C2 (BM)	C3 (LRM (RF))	PC1 (TL)	PC2	RM1 (F)	RM2 (FD)	URM	MH
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.0	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.3	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.4	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	-0.5	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	0.0	0.0	0.0
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.1	1.5	NA	1.4	1.7	NA	1.5	1.7	1.8	1.6	NA	0.5
Soil Type A or B		0.3	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA
Minimum Score, S _{min}		0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 1.3 ≥ 0.5

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial

Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > cut-off, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (M) = Unreinforced masonry masonry IM = light metal MH = Manufactured Housing PD = Flexible diaphragm BR = Braced frame SW = Shear wall TL = Tie up

Figure J.162 RVS form for Structure #117.4

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

Address: 302 COCHRAN ST **Zip:** 58079

Other Identifiers: T3011801

Building Name: LAKE CO HIGH SCHOOL

Use: SCHOOL

Latitude: 36.375455 **Longitude:** 89.472762

Sr: 1.054 **Sr:** 1.096

Screeners: Abdulrhman Abdalrhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1962 1951

Total Floor Area (sq. ft.): 30933 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Stiff Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Founding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

PHOTOGRAPH

SKETCH

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S_{L1}

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LRC)	S4 (RC SW)	S5 (U/MF BR)	C1 (MRF)	C2 (BR)	C3 (LRM/RF)	PC1 (TL)	PC2	RM1 (FD)	RM2 (FD)	URM	MH	
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1	
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.9	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.7	-0.3	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.5	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	-0.5	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	0.0	
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.1	1.6	NA	1.4	1.7	NA	1.5	1.7	1.8	1.6	NA	0.5	
Soil Type A or B		0.3	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1	
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1	
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA	
Minimum Score, S _{min}		0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0	

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.1 ≥ **0.3**

EXTENT OF REVIEW
 Exterior: Partial All Sides Aerial
 Interior: None Visible Entered
 Drawings Reviewed: Yes No
 Soil Type Source: _____
 Geologic Hazards Source: _____
 Contact Person: _____

LEVEL 2 SCREENING PERFORMED?
 Yes, Final Level 2 Score, S_{L2} _____ No
 Nonstructural hazards? Yes No

OTHER HAZARDS
 Are There Hazards That Trigger A Detailed Structural Evaluation?
 Pounding potential (unless S_{L1} > cut-off, if known)
 Falling hazards from taller adjacent building
 Geologic hazards or Soil Type F
 Significant damage/deterioration to the structural system

ACTION REQUIRED
 Detailed Structural Evaluation Required?
 Yes, unknown FEMA building type or other building
 Yes, score less than cut-off
 Yes, other hazards present
 No
 Detailed Nonstructural Evaluation Recommended? (check one)
 Yes, nonstructural hazards identified that should be evaluated
 No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary
 No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST = Estimated or unreliable data** **OR** **DNK = Do Not Know**

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (M) = Unreinforced masonry masonry wall MH = Manufactured Housing PB = Plyshear diaphragm
 BR = Braced frame SW = Shear wall TL = Tie up IM = light metal RD = Rigid diaphragm

Figure J.163 RVS form for Structure #118.1

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

PHOTOGRAPH

Address: 302 COCHRAN ST **Zip:** 34679

Other Identifiers: T3011802

Building Name: LAKE CO HIGH SCHOOL (VOCATIONALS)

Use: SCHOOL

Latitude: 34.726187 **Longitude:** 85.472585

S₁: 1.054 **S₂:** 1.099

Screeener(s): Abdulrahman Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1976 551

Total Floor Area (sq. ft.): 8660 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Stiff Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Founding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

PHOTOGRAPH

SKETCH

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S_{L1}

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LAC)	S4 (RC SW)	S5 (U/SF BR)	C1 (MRF)	C2 (BW)	C3 (LRM (RF))	PC1 (TL)	PC2	RM1 (F)	RM2 (FD)	UR/M	MH
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.9	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.3	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.5	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	-0.5	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	0.0
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.1	1.6	NA	1.4	1.7	NA	1.5	1.7	1.6	1.6	NA	0.5
Soil Type A or B		0.3	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA
Minimum Score, S _{min}		0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.6 ≥ 0.2

EXTENT OF REVIEW
 Exterior: Partial All Sides Aerial
 Interior: None Visible Entered
 Drawings Reviewed: Yes No
 Soil Type Source: _____
 Geologic Hazards Source: _____
 Contact Person: _____

LEVEL 2 SCREENING PERFORMED?
 Yes, Final Level 2 Score, S_{L2} _____ No
 Nonstructural hazards? Yes No

OTHER HAZARDS
 Are There Hazards That Trigger A Detailed Structural Evaluation?
 Pounding potential (unless S_{L1} > cut-off, if known)
 Falling hazards from taller adjacent building
 Geologic hazards or Soil Type F
 Significant damage/deterioration to the structural system

ACTION REQUIRED
 Detailed Structural Evaluation Required?
 Yes, unknown FEMA building type or other building
 Yes, score less than cut-off
 Yes, other hazards present
 No
 Detailed Nonstructural Evaluation Recommended? (check one)
 Yes, nonstructural hazards identified that should be evaluated
 No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary
 No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (M) = Unreinforced masonry mull MH = Manufactured Housing PB = Flexible diaphragm
 BR = Braced frame SW = Shear wall TL = Tie up IM = Light metal RD = Rigid diaphragm

Figure J.164 RVS form for Structure #118.2

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 302 COCHRAN ST
Zip: 58079

Other Identifiers: T3011803

Building Name: LAKE CO HIGH SCHOOL (CONCESSION)

Use: SCHOOL

Latitude: 36.374839 **Longitude:** 89.472005

Sr: 1.054 **Sr:** 1.099

Screeners: Abdulrhman Abdalrhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1995 EST

Total Floor Area (sq. ft.): 170 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Founding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity)
 Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LAC)	S4 (RC SW)	S5 (U/SI BR)	C1 (MRF)	C2 (BW)	C3 (LRM (RF))	PC1 (TU)	PC2	RM1 (F)	RM2 (FD)	UR/M	MH
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.9	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.3	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.5	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	-0.5	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	0.0
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.1	1.6	NA	1.4	1.7	NA	1.5	1.7	1.8	1.6	NA	0.5
Soil Type A or B		0.3	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA
Minimum Score, S _{avg}		0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{avg} 0.9 ≥ 0.2

<p>EXTENT OF REVIEW</p> <p>Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____</p> <p>LEVEL 2 SCREENING PERFORMED?</p> <p><input type="checkbox"/> Yes, Final Level 2 Score, S_{L2} _____ <input type="checkbox"/> No Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>OTHER HAZARDS</p> <p>Are There Hazards That Trigger A Detailed Structural Evaluation?</p> <p><input type="checkbox"/> Pounding potential (unless S_{L1} > cut-off, if known)</p> <p><input type="checkbox"/> Falling hazards from taller adjacent building</p> <p><input type="checkbox"/> Geologic hazards or Soil Type F</p> <p><input type="checkbox"/> Significant damage/deterioration to the structural system</p>	<p>ACTION REQUIRED</p> <p>Detailed Structural Evaluation Required?</p> <p><input type="checkbox"/> Yes, unknown FEMA building type or other building</p> <p><input type="checkbox"/> Yes, score less than cut-off</p> <p><input type="checkbox"/> Yes, other hazards present</p> <p><input type="checkbox"/> No</p> <p>Detailed Nonstructural Evaluation Recommended? (check one)</p> <p><input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated</p> <p><input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary</p> <p><input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK</p>
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Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (M) = Unreinforced masonry masonry TU = Tie up MH = Manufactured Housing IM = light metal PD = Flexible diaphragm BR = Rigid diaphragm SW = Shear wall

Figure J.165 RVS form for Structure #118.3

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 302 COCHRAN ST Zip: 80601

Other Identifiers: T3011804

Building Name: LAKE CO HIGH SCHOOL (WEDGE B0036)

Use: SCHOOL

Latitude: 38.378159 **Longitude:** 89.472005

Sr: 1.054 **Sr:** 1.099

Screeener(s): Abdulrhman Abdalrhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 2004 EST

Total Floor Area (sq. ft.): 8750 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Stiff Soft Poor
Rock Rock Soil Soil Soil Soil
#DNK, assume Type D

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Founding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity)
 Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LRC)	S4 (RC SW)	S5 (U/SI BR)	C1 (MRF)	C2 (BR)	C3 (LRM (R))	PC1 (TL)	PC2	RM1 (EX)	RM2 (DI)	UR#	MH
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.9	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.3	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.5	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	-0.5	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	0.0	0.0	0.0
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.1	1.6	NA	1.4	1.7	NA	1.5	1.7	1.8	1.6	NA	0.5
Soil Type A or B		0.3	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA
Minimum Score, S _{min}		0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} **2.7** ≥ 0.3

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial

Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > cut-off, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (M) = Unreinforced masonry masonry TL = Tie up MH = Manufactured Housing PB = Plyshe diaphragm BR = Braced frame SW = Shear wall IM = Light metal RC = Rigid diaphragm

Figure J.166 RVS form for Structure #118.4

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 802 WEST TIGHEVILLE ST Zip: 39400

Other Identifiers: T3011901

Building Name: HALES HIGH SCHOOL

Use: SCHOOL

Latitude: 33.878962 **Longitude:** 89.104595

Sr: 1.895 **St:** 0.182

Screeners(s): Abdulrhman Abdalrhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1967 EST

Total Floor Area (sq. ft.): 46558 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Stiff Soft Poor
Rock Rock Soil Soil Soil Soil
#DNK, assume Type D

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Founding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity)
 Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LW)	S4 (RC SW)	S5 (U/M IFR)	C1 (MRF)	C2 (BW)	C3 (LRM IFR)	PC1 (TL)	PC2	RM1 (EX)	RM2 (FD)	UR#	MH
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.0	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.3	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.4	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	-0.5	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	0.0
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.1	1.6	NA	1.4	1.7	NA	1.5	1.7	1.6	1.6	NA	0.5
Soil Type A or B		0.3	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA
Minimum Score, S _{avg}		0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{avg} 0.5 ≥ 0.3

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S₂ > cut-off, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM IFR = Unreinforced masonry Infill MH = Manufactured Housing PB = Flexible diaphragm BR = Braced frame SW = Shear wall TL = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.167 RVS form for Structure #119.1

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 802 WEST TIGHE CIRCLE
Zip: 38400

Other Identifiers: T3011902

Building Name: HALLS HIGH SCHOOL GYM/CLASS ADDN

Use: SCHOOL

Latitude: 35.828573 **Longitude:** 89.405175

S: 1.89F **Sz:** 0.38L

Screeners(s): Abdulrahman Abdalrhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1995 EST

Total Floor Area (sq. ft.): 10047 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Stiff Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Founding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity)
 Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (L)	S4 (RC SW)	S5 (U/M IFR)	C1 (MRF)	C2 (BW)	C3 (LRM IFR)	PC1 (T)	PC2	RM1 (F)	RM2 (D)	URM	MH
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.9	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.3	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.5	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	-0.5	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	0.0
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.1	1.6	NA	1.4	1.7	NA	1.5	1.7	1.6	1.6	NA	0.5
Soil Type A or B		0.3	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA
Minimum Score, S _{avg}		0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{avg} 1.9 ≥ 0.3

<p>EXTENT OF REVIEW</p> <p>Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____</p> <p>LEVEL 2 SCREENING PERFORMED?</p> <p><input type="checkbox"/> Yes, Final Level 2 Score, S_{L2} _____ <input type="checkbox"/> No Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>OTHER HAZARDS</p> <p>Are There Hazards That Trigger A Detailed Structural Evaluation?</p> <p><input type="checkbox"/> Pounding potential (unless S_{L1} > cut-off, if known)</p> <p><input type="checkbox"/> Falling hazards from taller adjacent building</p> <p><input type="checkbox"/> Geologic hazards or Soil Type F</p> <p><input type="checkbox"/> Significant damage/deterioration to the structural system</p>	<p>ACTION REQUIRED</p> <p>Detailed Structural Evaluation Required?</p> <p><input type="checkbox"/> Yes, unknown FEMA building type or other building</p> <p><input type="checkbox"/> Yes, score less than cut-off</p> <p><input type="checkbox"/> Yes, other hazards present</p> <p><input type="checkbox"/> No</p> <p>Detailed Nonstructural Evaluation Recommended? (check one)</p> <p><input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated</p> <p><input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary</p> <p><input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK</p>
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Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (M) = Unreinforced masonry mull MH = Manufactured Housing FD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tie up IM = light metal RD = Rigid diaphragm

Figure J.168 RVS form for Structure #119.2

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 802 WEST TIGHEVILLE ST
Zip: 38400

Other Identifiers: T3011903

Building Name: HALLS HIGH SCHOOL (VOC BUILDING)

Use: SCHOOL

Latitude: 35.890824 **Longitude:** 89.104593

Sr: 1.701 **Sr:** 0.982

Screeners: Abdulrhman Abdalrhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1997 EST

Total Floor Area (sq. ft.): 17915 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Stiff Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Founding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (L)	S4 (RC SW)	S5 (U/M IFR)	C1 (MRF)	C2 (BR)	C3 (L/M IFR)	PC1 (T)	PC2	RM1 (F)	RM2 (D)	UR#	MH
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.9	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.3	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.5	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	-0.5	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	0.0
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.1	1.6	NA	1.4	1.7	NA	1.5	1.7	1.8	1.6	NA	0.5
Soil Type A or B		0.3	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA
Minimum Score, S _{avg}		0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{avg} 0.5 ≥ 0.3

<p>EXTENT OF REVIEW</p> <p>Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____</p> <p>LEVEL 2 SCREENING PERFORMED?</p> <p><input type="checkbox"/> Yes, Final Level 2 Score, S_{L2} _____ <input type="checkbox"/> No Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>OTHER HAZARDS</p> <p>Are There Hazards That Trigger A Detailed Structural Evaluation?</p> <p><input type="checkbox"/> Pounding potential (unless S_{L2} > cut-off, if known)</p> <p><input type="checkbox"/> Falling hazards from taller adjacent building</p> <p><input type="checkbox"/> Geologic hazards or Soil Type F</p> <p><input type="checkbox"/> Significant damage/deterioration to the structural system</p>	<p>ACTION REQUIRED</p> <p>Detailed Structural Evaluation Required?</p> <p><input type="checkbox"/> Yes, unknown FEMA building type or other building</p> <p><input type="checkbox"/> Yes, score less than cut-off</p> <p><input type="checkbox"/> Yes, other hazards present</p> <p><input type="checkbox"/> No</p> <p>Detailed Nonstructural Evaluation Recommended? (check one)</p> <p><input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated</p> <p><input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary</p> <p><input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK</p>
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Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (M) = Unreinforced masonry mull MH = Manufactured Housing PD = Flexible diaphragm
FR = Braced frame SW = Shear wall TU = Tie up IM = Light metal RD = Rigid diaphragm

Figure J.169 RVS form for Structure #119.3

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 802 WEST TIGHE DR ST Zip: 39400

Other Identifiers: T3011904

Building Name: HALLS JUNIOR HIGH SCHOOL

Use: SCHOOL

Latitude: 33.879895 Longitude: 89.409827

Sr: 1.89F Ss: 0.38L

Screeners(s): Abdulrhman Abdalrhman Date/Time:

No. Stories: Above Grade: Below Grade: Year Built: 1947 EST

Total Floor Area (sq. ft.): 10000 Code Year: 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office **School** Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Stiff Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Founding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity)
 Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LRC)	S4 (RC SW)	S5 (U/M IFR)	C1 (MRF)	C2 (BR)	C3 (LRM IFR)	PC1 (TL)	PC2	RM1 (EX)	RM2 (FC)	URM	MH
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.0	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.3	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.5	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	-0.5	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	0.0
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.1	1.6	NA	1.4	1.7	NA	1.5	1.7	1.6	1.6	NA	0.6
Soil Type A or B		0.3	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA
Minimum Score, S _{avg}		0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{avg} 0.1 ≥ **0.3**

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > cut-off, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (M) = Unreinforced masonry masonry TL = Tilt-up MH = Manufactured Housing IM = light metal PD = Flexible diaphragm BR = Rigid diaphragm SW = Shear wall

Figure J.170 RVS form for Structure #119.4

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 302 COCHRAN ST
Zip: 58079

Other Identifiers: T3012001

Building Name: LAKE CO HIGH SCHOOL

Use: SCHOOL

Latitude: 36.375455 **Longitude:** 89.472762

Sr: 1.054 **Sr:** 1.096

Screeners: Abdulrahman Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1962 1951

Total Floor Area (sq. ft.): 30933 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Stiff Soft Poor
Rock Rock Soil Soil Soil Soil
#DNK, assume Type D

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Founding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LC)	S4 (RC SW)	S5 (U/M IFR)	C1 (MRF)	C2 (SW)	C3 (LRM IFR)	PC1 (TU)	PC2	RM1 (FD)	RM2 (FD)	UR#	MH
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.9	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.3	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.4	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	-0.5	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	0.0	0.0	0.0
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.1	1.6	NA	1.4	1.7	NA	1.5	1.7	1.6	1.6	NA	0.6
Soil Type A or B		0.3	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA
Minimum Score, S _{min}		0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.1 ≥ **0.3**

<p>EXTENT OF REVIEW</p> <p>Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____</p> <p>LEVEL 2 SCREENING PERFORMED?</p> <p><input type="checkbox"/> Yes, Final Level 2 Score, S_{L2} _____ <input type="checkbox"/> No Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>OTHER HAZARDS</p> <p>Are There Hazards That Trigger A Detailed Structural Evaluation?</p> <p><input type="checkbox"/> Pounding potential (unless S_{L2} > cut-off, if known)</p> <p><input type="checkbox"/> Falling hazards from taller adjacent building</p> <p><input type="checkbox"/> Geologic hazards or Soil Type F</p> <p><input type="checkbox"/> Significant damage/deterioration to the structural system</p>	<p>ACTION REQUIRED</p> <p>Detailed Structural Evaluation Required?</p> <p><input type="checkbox"/> Yes, unknown FEMA building type or other building</p> <p><input type="checkbox"/> Yes, score less than cut-off</p> <p><input type="checkbox"/> Yes, other hazards present</p> <p><input type="checkbox"/> No</p> <p>Detailed Nonstructural Evaluation Recommended? (check one)</p> <p><input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated</p> <p><input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary</p> <p><input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK</p>
--	---	--

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (M) = Unreinforced masonry/infill MH = Manufactured Housing FD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tie up IM = light metal RD = Rigid diaphragm

Figure J.171 RVS form for Structure #120.1

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 302 COCHRAN ST **Zip:** 34679

Other Identifiers: T3012002

Building Name: LAKE CO HIGH SCHOOL (VOCATIONALS)

Use: SCHOOL

Latitude: 34.726187 **Longitude:** 85.472585

Sr: 1.054 **Sr:** 1.099

Screeners: Abdulrahman Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1976 551

Total Floor Area (sq. ft.): 8660 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Founding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (L)	S4 (RC SW)	S5 (U/M IFR)	C1 (MRF)	C2 (BW)	C3 (L/RM IFR)	PC1 (TL)	PC2	RM1 (FD)	RM2 (FD)	UR/M	MH
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.9	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.3	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.5	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	-0.5	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	0.0
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.1	1.6	NA	1.4	1.7	NA	1.5	1.7	1.6	1.6	NA	0.5
Soil Type A or B		0.3	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA
Minimum Score, S _{min}		0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.6 ≥ 0.2

<p>EXTENT OF REVIEW</p> <p>Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered</p> <p>Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Soil Type Source: _____</p> <p>Geologic Hazards Source: _____</p> <p>Contact Person: _____</p> <p>LEVEL 2 SCREENING PERFORMED?</p> <p><input type="checkbox"/> Yes, Final Level 2 Score, S_{L2} _____ <input type="checkbox"/> No</p> <p>Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>OTHER HAZARDS</p> <p>Are There Hazards That Trigger A Detailed Structural Evaluation?</p> <p><input type="checkbox"/> Pounding potential (unless S_{L1} > cut-off, if known)</p> <p><input type="checkbox"/> Falling hazards from taller adjacent building</p> <p><input type="checkbox"/> Geologic hazards or Soil Type F</p> <p><input type="checkbox"/> Significant damage/deterioration to the structural system</p>	<p>ACTION REQUIRED</p> <p>Detailed Structural Evaluation Required?</p> <p><input type="checkbox"/> Yes, unknown FEMA building type or other building</p> <p><input type="checkbox"/> Yes, score less than cut-off</p> <p><input type="checkbox"/> Yes, other hazards present</p> <p><input type="checkbox"/> No</p> <p>Detailed Nonstructural Evaluation Recommended? (check one)</p> <p><input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated</p> <p><input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary</p> <p><input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK</p>
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Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (M) = Unreinforced masonry mull MH = Manufactured Housing FD = Flexible diaphragm
BR = Braced frame SW = Shear wall TL = Tie up IM = light metal RD = Rigid diaphragm

Figure J.172 RVS form for Structure #120.2

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
HIGH Seismicity

PHOTOGRAPH

Address: 100 HWY 19 LASKAV **Zip:** 38063

Other Identifiers: FNU02256

Building Name: RIPLEY ELEMENTARY

Use: Schools

Latitude: 35.731775 **Longitude:** 89.557356

Sr: 1.448 **St:** 0.098

Screener(s): Abdulmutab Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1995 est

Total Floor Area (sq. ft.): 108948 **Code Year:** 1991

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial Elementary Schools Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg Dense Stiff Soft Poor
Rock Rock Soil Soil Soil Soil
#DNK, assume Type D

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity): _____
 Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S_{L1}

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LC)	S4 (RC (RM) (RF))	S5 (RM (RF))	C1 (MRF)	C2 (BR)	C3 (LR) (RF)	PC1 (TU)	PC2	RM1 (FX)	RM2 (FE)	UR1	MH
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V ₁		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, V ₂		-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.6	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, P ₁		-1.1	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.6	-0.6	-0.5	-0.7	-0.6	-0.7	-0.7	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmarks		1.5	1.9	2.2	1.4	1.4	1.1	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.3	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.6	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S _{min}		1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} **X1** ≥ 0.3

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered
Drawings Reviewed: Yes No
Soil Type Source: _____
Geologic Hazards Source: _____
Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No
Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > out-of, if known)
 Falling hazards from taller adjacent building
 Geologic hazards or Soil Type F
 Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building
 Yes, score less than cut-off
 Yes, other hazards present
 No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated
 No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary
 No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (RM) = Unreinforced masonry infill MH = Manufactured Housing FD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.173 RVS form for Structure #122

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 254 JEFFERSON ST Zip: 38063

Other Identifiers: FNU02351

Building Name: RIPLEY HIGH SCHOOL

Use: Schools

Latitude: 35.755066 **Longitude:** 89.536585

Sr: 1.432 **Sr:** 0.093

Screener(s): Abdulmutab Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1968 est

Total Floor Area (sq. ft.): 79400 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Enter, Specify Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S_{L1}

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LC)	S4 (RC (RM) (RF))	S5 (RM (RF))	C1 (MRF)	C2 (BR)	C3 (LR) (RF)	PC1 (TU)	PC2	RM1 (FX)	RM2 (FE)	UR1	MH
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V ₁		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, V ₂		-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.5	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, P ₁		-1.1	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.6	-0.8	-0.5	-0.7	-0.6	-0.7	-0.7	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmarks		1.5	1.9	2.2	1.4	1.4	1.1	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.3	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.6	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S _{min}		1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 9.0 ≤ **9.3**

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial

Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > cut-off, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (RM) = Unreinforced masonry wall MH = Manufactured Housing FD = Flexible diaphragm
 BR = Fixed frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.174 RVS form for Structure #123.1

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
HIGH Seismicity

PHOTOGRAPH

Address: 254 JEFFERSON ST Zip: 38063

Other Identifiers: FNO02352

Building Name: RIPLEY EDGE SCHOOL

Use: Schools

Latitude: 35.754807 **Longitude:** 89.537884

Sr: 1.431 **Sr:** 0.093

Screeners(s): Abdulrahman Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1995 est

Total Floor Area (sq. ft.): 16400 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Elementary School Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Stiff Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity):
 Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S_{L1}

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (L)	S4 (RC BR)	S5 (MRF BR)	C1 (MRF)	C2 (BR)	C3 (LRS (F))	PC1 (TU)	PC2	RH1 (F)	RH2 (F)	UR1	MH
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V ₁		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, V ₂		-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.6	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, P ₁		-1.1	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.6	-0.6	-0.5	-0.7	-0.6	-0.7	-0.7	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmarks		1.5	1.9	2.2	1.4	1.4	1.1	1.9	NA	1.9	2.1	NA	2.0	2.0	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.5	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.6	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S _{min}		1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 3.2 ≥ 0.2

<p>EXTENT OF REVIEW</p> <p>Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial</p> <p>Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered</p> <p>Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Soil Type Source: _____</p> <p>Geologic Hazards Source: _____</p> <p>Contact Person: _____</p> <p>LEVEL 2 SCREENING PERFORMED?</p> <p><input type="checkbox"/> Yes, Final Level 2 Score, S_{L2} _____ <input type="checkbox"/> No</p> <p>Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>OTHER HAZARDS</p> <p>Are There Hazards That Trigger A Detailed Structural Evaluation?</p> <p><input type="checkbox"/> Pounding potential (unless S_{L1} > out-off, if known)</p> <p><input type="checkbox"/> Falling hazards from taller adjacent building</p> <p><input type="checkbox"/> Geologic hazards or Soil Type F</p> <p><input type="checkbox"/> Significant damage/deterioration to the structural system</p>	<p>ACTION REQUIRED</p> <p>Detailed Structural Evaluation Required?</p> <p><input type="checkbox"/> Yes, unknown FEMA building type or other building</p> <p><input type="checkbox"/> Yes, score less than cut-off</p> <p><input type="checkbox"/> Yes, other hazards present</p> <p><input type="checkbox"/> No</p> <p>Detailed Nonstructural Evaluation Recommended? (check one)</p> <p><input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated</p> <p><input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary</p> <p><input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK</p>
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Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (M) = Unreinforced masonry masonry wall MH = Manufactured Housing FD = Flexible diaphragm
ER = Fixed frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.175 RVS form for Structure #123.2

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
HIGH Seismicity

PHOTOGRAPH

Address: 254 JEFFERSON ST Zip: 38063

Other Identifiers: FNO2358

Building Name: RIPLEY HIGH SCHOOL (SHELTER/MATH)

Use: Schools

Latitude: 35.735626 **Longitude:** 89.537485

Sr: 1.432 **St:** 0.093

Screeners(s): Abdulmutab Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 2014 est

Total Floor Area (sq. ft.): 19000 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Elementary Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Stiff Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity):
 Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S_{L1}

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LC)	S4 (RC (RM) (RF))	S5 (RM (RF))	C1 (MRF)	C2 (BR)	C3 (LR) (RF)	PC1 (TU)	PC2	RM1 (FX)	RM2 (FE)	UR1	MH
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V ₁		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, V ₂		-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.5	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, P ₁		-1.1	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.6	-0.8	-0.5	-0.7	-0.6	-0.7	-0.7	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmarks		1.5	1.9	2.2	1.4	1.4	1.1	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.3	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.6	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S _{min}		1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} **SR** ≥ 0.3

<p>EXTENT OF REVIEW</p> <p>Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial</p> <p>Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered</p> <p>Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Soil Type Source: _____</p> <p>Geologic Hazards Source: _____</p> <p>Contact Person: _____</p>	<p>OTHER HAZARDS</p> <p>Are There Hazards That Trigger A Detailed Structural Evaluation?</p> <p><input type="checkbox"/> Pounding potential (unless S₁ > out-off, if known)</p> <p><input type="checkbox"/> Falling hazards from taller adjacent building</p> <p><input type="checkbox"/> Geologic hazards or Soil Type F</p> <p><input type="checkbox"/> Significant damage/deterioration to the structural system</p>	<p>ACTION REQUIRED</p> <p>Detailed Structural Evaluation Required?</p> <p><input type="checkbox"/> Yes, unknown FEMA building type or other building</p> <p><input type="checkbox"/> Yes, score less than cut-off</p> <p><input type="checkbox"/> Yes, other hazards present</p> <p><input type="checkbox"/> No</p> <p>Detailed Nonstructural Evaluation Recommended? (check one)</p> <p><input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated</p> <p><input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary</p> <p><input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK</p>
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Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **DR** = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (RM) = Unreinforced masonry wall MH = Manufactured Housing FD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.176 RVS form for Structure #123.3

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
HIGH Seismicity

PHOTOGRAPH

Address: 254 JEFFERSON ST Zip: 38063

Other Identifiers: FNO2354

Building Name: RIPLEY HIGH SCHOOL (VOC BUILDING)

Use: Schools

Latitude: 35.756034 **Longitude:** -89.53755

Sr: 1.424 **Sr:** 0.093

Screeners(s): Abdulmutab Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1997 est

Total Floor Area (sq. ft.): 14000 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Enter Specifics Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Stiff Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S_{L1}

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (L)	S4 (RC (RM) (R))	S5 (RM (R))	C1 (MRF)	C2 (BR)	C3 (LR) (F)	PC1 (TU)	PC2	RM1 (F)	RM2 (F)	UR1	MH
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V ₁		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, V ₂		-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.6	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, P ₁		-1.1	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.6	-0.6	-0.5	-0.7	-0.6	-0.7	-0.7	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmarks		1.5	1.9	2.2	1.4	1.4	1.1	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.3	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.6	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S _{min}		1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} **0.7** ≥ 0.3

<p>EXTENT OF REVIEW</p> <p>Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial</p> <p>Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered</p> <p>Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Soil Type Source: _____</p> <p>Geologic Hazards Source: _____</p> <p>Contact Person: _____</p>	<p>OTHER HAZARDS</p> <p>Are There Hazards That Trigger A Detailed Structural Evaluation?</p> <p><input type="checkbox"/> Pounding potential (unless S₁ > out-off, if known)</p> <p><input type="checkbox"/> Falling hazards from taller adjacent building</p> <p><input type="checkbox"/> Geologic hazards or Soil Type F</p> <p><input type="checkbox"/> Significant damage/deterioration to the structural system</p>	<p>ACTION REQUIRED</p> <p>Detailed Structural Evaluation Required?</p> <p><input type="checkbox"/> Yes, unknown FEMA building type or other building</p> <p><input type="checkbox"/> Yes, score less than cut-off</p> <p><input type="checkbox"/> Yes, other hazards present</p> <p><input type="checkbox"/> No</p> <p>Detailed Nonstructural Evaluation Recommended? (check one)</p> <p><input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated</p> <p><input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary</p> <p><input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK</p>
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Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (RM) = Unreinforced masonry wall MH = Manufactured Housing FD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.177 RVS form for Structure #123.4

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
HIGH Seismicity

PHOTOGRAPH

Address: 254 JEFFERSON ST Zip: 38063

Other Identifiers: FNU02355

Building Name: RIPLEY HIGH SCHOOL (GYM)

Use: Schools

Latitude: 35.736074 **Longitude:** 89.538663

Sr: 1.435 **Sr:** 0.094

Screeners(s): Abdulmutalib Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 2004 est

Total Floor Area (sq. ft.): 19475 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial ~~Enter Specifics~~ Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S_{L1}

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (L)	S4 (RC (MRF) or SW)	S5 (URM (MRF))	C1 (MRF)	C2 (BR)	C3 (URM (MRF))	PC1 (TU)	PC2	RH1 (FD)	RH2 (FE)	UR1	MH
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V ₁		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, V ₂		-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.6	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, P ₁		-1.1	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.6	-0.6	-0.5	-0.7	-0.6	-0.7	-0.7	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmarks		1.5	1.9	2.2	1.4	1.4	1.1	1.9	NA	1.9	2.1	NA	2.0	2.0	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.3	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.6	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S _{min}		1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 3.3 ≥ 0.2

<p>EXTENT OF REVIEW</p> <p>Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial</p> <p>Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered</p> <p>Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Soil Type Source: _____</p> <p>Geologic Hazards Source: _____</p> <p>Contact Person: _____</p>	<p>OTHER HAZARDS</p> <p>Are There Hazards That Trigger A Detailed Structural Evaluation?</p> <p><input type="checkbox"/> Pounding potential (unless S_{L1} > cut-off, if known)</p> <p><input type="checkbox"/> Falling hazards from taller adjacent building</p> <p><input type="checkbox"/> Geologic hazards or Soil Type F</p> <p><input type="checkbox"/> Significant damage/deterioration to the structural system</p>	<p>ACTION REQUIRED</p> <p>Detailed Structural Evaluation Required?</p> <p><input type="checkbox"/> Yes, unknown FEMA building type or other building</p> <p><input type="checkbox"/> Yes, score less than cut-off</p> <p><input type="checkbox"/> Yes, other hazards present</p> <p><input type="checkbox"/> No</p> <p>Detailed Nonstructural Evaluation Recommended? (check one)</p> <p><input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated</p> <p><input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary</p> <p><input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK</p>
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Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (MRF) = Unreinforced masonry infill MH = Manufactured Housing FD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.178 RVS form for Structure #123.5

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 225 VOLZ RD Zip: 38063

Other Identifiers: FNU02456

Building Name: REPLEY PRIMARY

Use: Schools

Latitude: 35.724526 **Longitude:** -89.556411

Sr: 1,428 **St:** 0,091

Screener(s): Abdulmutau Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1990 est

Total Floor Area (sq. ft.): 98374 **Code Year:** 1991

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial ~~Enter Specifics~~ Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg Dense Stiff Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (RFR)	S2 (BR)	S3 (L)	S4 (RC (RFR) (R))	S5 (RFR) (R)	C1 (RFR)	C2 (BR)	C3 (RFR) (R)	PC1 (TU)	PC2	RM1 (FX)	RM2 (FE)	UR1	MH
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V ₁		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, V ₂		-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.5	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, P ₁		-1.1	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.6	-0.8	-0.5	-0.7	-0.6	-0.7	-0.7	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmarks		1.5	1.9	2.2	1.4	1.4	1.1	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.3	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.6	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S _{min}		1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0
FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min}		0.0 ≤ 6.3																

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial

Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > out-off, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **DR** = Do Not Know


Legend: MF = Moment-resisting frame RC = Reinforced concrete URM = Unreinforced masonry wall MH = Manufactured Housing FD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.179 RVS form for Structure #124

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 309 CHARLES GRIGGS ST Zip: 33063

Other Identifiers: FNO2550

Building Name: LAUDERDALE MIDDLE SCHOOL

Use: Schools

Latitude: 35.728695 **Longitude:** 80.552585

Sr: 1.438 **Sr:** 0.095

Screener(s): Abdulmutau Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1987 est

Total Floor Area (sq. ft.): 106436 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Elementary Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Stiff Soft Poor
Rock Rock Soil Soil Soil Soil
#DNK, assume Type D

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity):
 Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (L)	S4 (RC BR)	S5 (MRF BR)	C1 (MRF)	C2 (BR)	C3 (LRS (F))	PC1 (TU)	PC2	RN1 (F)	RN2 (F)	UR1	MH
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V ₁		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, V ₂		-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.5	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, P ₁		-1.1	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.6	-0.6	-0.5	-0.7	-0.6	-0.7	-0.7	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmarks		1.5	1.9	2.2	1.4	1.4	1.1	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.3	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.5	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S _{min}		1.1	0.9	0.7	0.5	0.6	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0
FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min}		0.0 ≤ 6.3																

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial

Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > cut-off, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data DR = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM = Unreinforced masonry wall MH = Manufactured Housing BR = Braced frame SW = Shear wall TU = Tie up LM = Light metal FD = Flexible diaphragm RD = Rigid diaphragm

Figure J.180 RVS form for Structure #125

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
VERY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 127 INDUSTRIAL DRIVE
Zip: 38463

Other Identifiers: TN012000

Building Name: TENNESSEE COLLEGE OF APPLIED TECH

Use: SCHOOL

Latitude: 35.778665 **Longitude:** 89.519279

Sr: 1.519 **Sr:** 0.323

Screeners: Abdulrhman Abdalrhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1973 201

Total Floor Area (sq. ft.): 18900 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor
Rock Rock Soil Soil Soil Soil
#DNK, assume Type D

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Founding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LAC)	S4 (RC SW)	S5 (U/M IFR)	C1 (MRF)	C2 (BM)	C3 (LRM (RF))	PC1 (TU)	PC2	RM1 (FX)	RM2 (FD)	URM	MH
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1
Severe Vertical Irregularity, V ₁		-0.9	-0.9	-0.9	-0.9	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.3	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.5	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P ₁		-0.7	-0.7	-0.5	-0.5	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	0.0
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.1	1.6	NA	1.4	1.7	NA	1.5	1.7	1.6	1.6	NA	0.5
Soil Type A or B		0.3	0.6	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA
Minimum Score, S _{min}		0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.1 ≥ **0.3**

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S₂ > cut-off, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (M) = Unreinforced masonry mull MH = Manufactured Housing FD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tie up IM = Light metal RD = Rigid diaphragm

Figure J.181 RVS form for Structure #130

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
HIGH Seismicity

PHOTOGRAPH

SKETCH

Additional sketches or comments on separate page

Address: 315 SOUTH WASHINGTON STREET **Zip:** 38063

Other Identifiers: FNR03150

Building Name: THE UNIVERSITY OF TENNESSEE-MARTIN - ...

Use: Schools

Latitude: 35.738822 **Longitude:** -89.541364

S: 1.446 **Sr:** 0.098

Screeners: Abdulmutab Abdulhadi **Date/Time:** _____

No. Stories: Above Grade: _____ Below Grade: _____ **Year Built:** 1975 est

Total Floor Area (sq. ft.): 60400 **Code Year:** 1991

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial Err. Scabbies Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg Dense Stiff Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (RRF)	S2 (BR)	S3 (LC)	S4 (RC (RM) (RF))	S5 (RM) (RF)	C1 (RRF)	C2 (BR)	C3 (RR) (RF)	PC1 (TU)	PC2	RM1 (FX)	RM2 (FE)	UR1	MH
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V ₁		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, V ₂		-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.6	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, P ₁		-1.1	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.6	-0.6	-0.5	-0.7	-0.6	-0.7	-0.7	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmarks		1.5	1.9	2.2	1.4	1.4	1.1	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.3	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.6	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S _{min}		1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0
FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min}		0.5		2		0.3												

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial

Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > out-off, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know

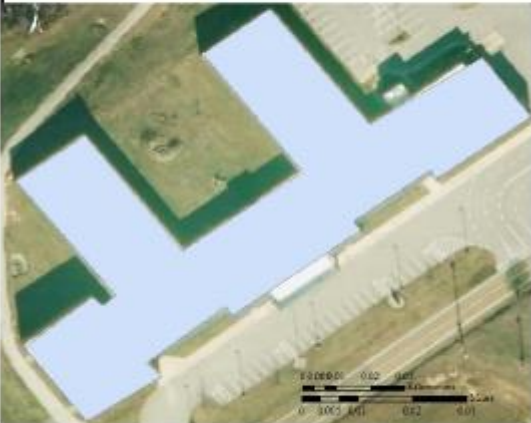
Legend: MF = Moment-resisting frame RC = Reinforced concrete URM = Unreinforced masonry wall MH = Manufactured Housing FD = Flexible diaphragm
ER = Fixed frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.182 RVS form for Structure #131

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 1905 DENMARK RD Zip: 58901

Other Identifiers: 12-013300

Building Name: DENMARK ELEMENTARY

Use: Schools

Latitude: 55.551031 **Longitude:** -98.97380F

Sr: 0.263 **Sr:** 0.277

Screeener(s): Abdulrahman Abdulhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1998 EST

Total Floor Area (sq. ft.): 62728 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity)
 Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{1F}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF M)	PC1 (TU)	PC2 (TU)	RM1 (FD)	RM2 (FD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	NA	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.6	0.9	0.5	0.9	0.9	0.6	0.6	0.7	0.9	0.7	0.6	0.8	0.6	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.6	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{1min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{1F} ≥ S_{1min} 2.6 ≥ 1.6

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{1F} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Asymmetric Housing FD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.183 RVS form for Structure #133

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 555 DENMARK JACKSON RD Zip: 39311

Other Identifiers: 12013501

Building Name: FAMILY CHRISTIAN SCHOOL

Use: Schools

Latitude: 33.378249 **Longitude:** -89.924167

Sr: 0.256 **Sr:** 0.276

Screeners: Abdulrahman Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1955 EST

Total Floor Area (sq. ft.): 36478 **Code Year:** 1993

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{1F}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF IN)	PC1 (TU)	PC2 (TU)	RM1 (PD)	RM2 (PD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	-0.5
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.6	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{1min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{1F} ≥ S_{1min} 0.5 ≥ 0.2

<p>EXTENT OF REVIEW</p> <p>Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered</p> <p>Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Soil Type Source: _____</p> <p>Geologic Hazards Source: _____</p> <p>Contact Person: _____</p>	<p>OTHER HAZARDS</p> <p>Are There Hazards That Trigger A Detailed Structural Evaluation?</p> <p><input type="checkbox"/> Pounding potential (unless S_{1F} > out-of, if known)</p> <p><input type="checkbox"/> Falling hazards from taller adjacent building</p> <p><input type="checkbox"/> Geologic hazards or Soil Type F</p> <p><input type="checkbox"/> Significant damage/deterioration to the structural system</p>	<p>ACTION REQUIRED</p> <p>Detailed Structural Evaluation Required?</p> <p><input type="checkbox"/> Yes, unknown FEMA building type or other building</p> <p><input type="checkbox"/> Yes, score less than out-of</p> <p><input type="checkbox"/> Yes, other hazards present</p> <p><input type="checkbox"/> No</p> <p>Detailed Nonstructural Evaluation Recommended? (check one)</p> <p><input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated</p> <p><input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary</p> <p><input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK</p>
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Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Assembled Housing PD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.184 RVS form for Structure #135.1

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 555 DUNMARK JACKSON RD Zip: 38911

Other Identifiers: ID:013502

Building Name: FAMILY CHRISTIAN SCHOOL Near plus ground

Use: Schools

Latitude: 35.178564 **Longitude:** -88.923687

Sr: 0.256 **St:** 0.276

Screeener(s): Abdulrahman Abdulhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1992 1993

Total Floor Area (sq. ft.): 1630 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{1F}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (RR)	S2 (RR)	S3 (L)	S4 (RC SW)	S5 (RR BT)	C1 (SW)	C2 (SW)	C3 (LRR IN)	PC1 (L)	PC2	RM1 (RR)	RM2 (RR)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{1min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{1F} ≥ S_{1min} 2.0 ≥ 1.9

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
 None Visible Entered

Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{1F} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary


No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM M = Unreinforced masonry infill MH = Asymmetric Housing PD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RM = Rigid diaphragm

Figure J.185 RVS form for Structure #135.2

PHOTOGRAPH



SKETCH

Address: 535 DENMARK JACKSON MS Zip: 39211

Other Identifiers: 12013303

Building Name: FAMILY CHRISTIAN SCHOOL BACK BUILDING

Use: Schools

Latitude: 33.178735 **Longitude:** -89.024215

Sr: 0.256 **Sr:** 0.276

Screeener(s): Abdulrahman Abdulhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1962 1951

Total Floor Area (sq. ft.): 3715 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{1F}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (MRF)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF IN)	PC1 (TU)	PC2 (TU)	RM1 (PD)	RM2 (PD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.0	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	-0.5
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.3	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{1min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{1F} ≥ S_{1min} 2.1 2.2

<p>EXTENT OF REVIEW</p> <p>Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered</p> <p>Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered</p> <p>Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Soil Type Source: _____</p> <p>Geologic Hazards Source: _____</p> <p>Contact Person: _____</p>	<p>OTHER HAZARDS</p> <p>Are There Hazards That Trigger A Detailed Structural Evaluation?</p> <p><input type="checkbox"/> Pounding potential (unless S_{1F} > out-of, if known)</p> <p><input type="checkbox"/> Falling hazards from taller adjacent building</p> <p><input type="checkbox"/> Geologic hazards or Soil Type F</p> <p><input type="checkbox"/> Significant damage/deterioration to the structural system</p>	<p>ACTION REQUIRED</p> <p>Detailed Structural Evaluation Required?</p> <p><input type="checkbox"/> Yes, unknown FEMA building type or other building</p> <p><input type="checkbox"/> Yes, score less than out-of</p> <p><input type="checkbox"/> Yes, other hazards present</p> <p><input type="checkbox"/> No</p> <p>Detailed Nonstructural Evaluation Recommended? (check one)</p> <p><input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated</p> <p><input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary</p> <p><input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK</p>
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Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry mfr TU = Tilt up MH = Assembled Housing PD = Flexible diaphragm BR = Braced frame SW = Shear wall DNK = Do Not Know LM = Light metal RD = Rigid diaphragm

Figure J.186 RVS form for Structure #135.3

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 1091 OLD BRIMBOLD RD Zip: 58045

Other Identifiers: 12013601

Building Name: POPE ELEMENTARY

Use: Schools

Latitude: 45.713456 **Longitude:** -98.89014

Sr: 0.813 **Sr:** 0.292

Screeener(s): Abdulrahman Abdulhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1996 1991 1993

Total Floor Area (sq. ft.): 39900 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (RRF)	S2 (RRF)	S3 (RRF)	S4 (RRF SW)	S5 (RRF RT)	C1 (RRF)	C2 (RRF)	C3 (RRF IN)	PC1 (RRF)	PC2 (RRF)	RM1 (RRF)	RM2 (RRF)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.5	2.1	NA	2.1	2.4	2.1	NA	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.6	0.9	0.5	0.9	0.9	0.6	0.6	0.7	0.9	0.7	0.6	0.8	0.6	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.6	-0.8	-0.8	-0.4	NA	-0.6	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 1.2 ≥ 0.3

EXTENT OF REVIEW	OTHER HAZARDS	ACTION REQUIRED
Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____	Are There Hazards That Trigger A Detailed Structural Evaluation? <input type="checkbox"/> Pounding potential (unless S _{L1} > out-of, if known) <input type="checkbox"/> Falling hazards from taller adjacent building <input type="checkbox"/> Geologic hazards or Soil Type F <input type="checkbox"/> Significant damage/deterioration to the structural system	Detailed Structural Evaluation Required? <input type="checkbox"/> Yes, unknown FEMA building type or other building <input type="checkbox"/> Yes, score less than cut-off <input type="checkbox"/> Yes, other hazards present <input type="checkbox"/> No Detailed Nonstructural Evaluation Recommended? (check one) <input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated <input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary <input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK
LEVEL 2 SCREENING PERFORMED? <input type="checkbox"/> Yes, Final Level 2 Score, S _{L2} _____ <input type="checkbox"/> No Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No	Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know	


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Assembled Housing PD = Flexible diaphragm
 BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.187 RVS form for Structure #136.1

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 1091 OLD BRIMBOLD RD Zip: 88045

Other Identifiers: 12013602

Building Name: POPE ELEMENTARY

Use: Schools

Latitude: 35.712689 **Longitude:** -101.850344

S: 0.813 **Sr:** 0.292

Screeener(s): Abdulrahman Abdulhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1996 1951

Total Floor Area (sq. ft.): 8864 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (IAC)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (URC IN)	PC1 (U)	PC2	RM1 (FD)	RM2 (FD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.9	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 2.8 ≥ 0.5

EXTENT OF REVIEW	OTHER HAZARDS	ACTION REQUIRED
Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____	Are There Hazards That Trigger A Detailed Structural Evaluation? <input type="checkbox"/> Pounding potential (unless S _{L1} > out-of, if known) <input type="checkbox"/> Falling hazards from taller adjacent building <input type="checkbox"/> Geologic hazards or Soil Type F <input type="checkbox"/> Significant damage/deterioration to the structural system	Detailed Structural Evaluation Required? <input type="checkbox"/> Yes, unknown FEMA building type or other building <input type="checkbox"/> Yes, score less than out-of <input type="checkbox"/> Yes, other hazards present <input type="checkbox"/> No Detailed Nonstructural Evaluation Recommended? (check one) <input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated <input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary <input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK
LEVEL 2 SCREENING PERFORMED? <input type="checkbox"/> Yes, Final Level 2 Score, S _{L2} _____ <input type="checkbox"/> No Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No	Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know	


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Assembled Housing FD = Flexible diaphragm
 BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.188 RVS form for Structure #136.2

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 1091 OLD BRIMBOLD RD Zip: 58045

Other Identifiers: 12013603

Building Name: POPE ELEMENTARY

Use: Schools

Latitude: 45.712571 **Longitude:** -98.89247

Sr: 0.813 **Sr:** 0.292

Screeener(s): Abdulrahman Abdulhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1996 1951

Total Floor Area (sq. ft.): 6943 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (IAC)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF IN)	PC1 (TU)	PC2 (TU)	RM1 (RM)	RM2 (RM)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.9	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 1.6 ≥ 0.5

EXTENT OF REVIEW	OTHER HAZARDS	ACTION REQUIRED
Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____	Are There Hazards That Trigger A Detailed Structural Evaluation? <input type="checkbox"/> Pounding potential (unless S _{L1} > out-of, if known) <input type="checkbox"/> Falling hazards from taller adjacent building <input type="checkbox"/> Geologic hazards or Soil Type F <input type="checkbox"/> Significant damage/deterioration to the structural system	Detailed Structural Evaluation Required? <input type="checkbox"/> Yes, unknown FEMA building type or other building <input type="checkbox"/> Yes, score less than out-of <input type="checkbox"/> Yes, other hazards present <input type="checkbox"/> No Detailed Nonstructural Evaluation Recommended? (check one) <input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated <input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary <input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK
LEVEL 2 SCREENING PERFORMED? <input type="checkbox"/> Yes, Final Level 2 Score, S _{L2} _____ <input type="checkbox"/> No Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No	Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know	


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Assembled Housing PD = Flexible diaphragm
 BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.189 RVS form for Structure #136.3

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 1091 OLD BRIMBOLD RD Zip: 58104

Other Identifiers: 12013604

Building Name: POPE ELEMENTARY

Use: Schools

Latitude: 35.714796 **Longitude:** -88.899385

Sr: 0.814 **Sr:** 0.292

Screeener(s): Abdulrahman Abdulhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1996 EST

Total Floor Area (sq. ft.): 790 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity):
 Plan (type):

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (IJK)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (URC IN)	PC1 (U)	PC2	RM1 (FD)	RM2 (FD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.0	1.9	NA	1.5	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 1.9 ≥ 0.9

EXTENT OF REVIEW	OTHER HAZARDS	ACTION REQUIRED
Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____	Are There Hazards That Trigger A Detailed Structural Evaluation? <input type="checkbox"/> Pounding potential (unless S _{L1} > out-of, if known) <input type="checkbox"/> Falling hazards from taller adjacent building <input type="checkbox"/> Geologic hazards or Soil Type F <input type="checkbox"/> Significant damage/deterioration to the structural system	Detailed Structural Evaluation Required? <input type="checkbox"/> Yes, unknown FEMA building type or other building <input type="checkbox"/> Yes, score less than out-of <input type="checkbox"/> Yes, other hazards present <input type="checkbox"/> No Detailed Nonstructural Evaluation Recommended? (check one) <input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated <input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary <input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK
LEVEL 2 SCREENING PERFORMED? <input type="checkbox"/> Yes, Final Level 2 Score, S _{L2} _____ <input type="checkbox"/> No Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No	Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know	


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Asm/sulated Housing FD = Flexible diaphragm
 BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.190 RVS form for Structure #136.4

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 1091 OLD BRIMBOLD RD Zip: 88104

Other Identifiers: 12013605

Building Name: POPE ELEMENTARY

Use: Schools

Latitude: 35.714171 **Longitude:** -88.830558

Sr: 0.814 **Sr:** 0.292

Screeener(s): Abdulrahman Abdulhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1996 1951

Total Floor Area (sq. ft.): 790 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (IAC)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF IN)	PC1 (T)	PC2 (T)	RM1 (FD)	RM2 (FD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.0	1.9	NA	1.5	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.4
FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min}		1.9 ≥ 0.9																

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
 None Visible Entered

Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/degradation to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry masonry wall MH = Assembled Housing FD = Flexible diaphragm BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.191 RVS form for Structure #136.5

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 1091 OLD BRIMBOLD RD Zip: 58104

Other Identifiers: 12013606

Building Name: POPE ELEMENTARY

Use: Schools

Latitude: 45.714014 **Longitude:** -98.899393

Sr: 0.814 **Sr:** 0.292

Screeners: Abdulrahman Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1996 EST

Total Floor Area (sq. ft.): 790 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (IAC)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF IN)	PC1 (TU)	PC2 (TU)	RM1 (RM)	RM2 (RM)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.0	1.9	NA	1.5	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4
FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min}		1.9 ≥ 0.9																

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
 None Visible Entered

Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/degradation to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Assembled Housing PD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.192 RVS form for Structure #136.6

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 1091 OLD BRIMBOLD RD Zip: 58104

Other Identifiers: 12013607

Building Name: POPE ELEMENTARY

Use: Schools

Latitude: 35.710996 **Longitude:** -98.89584

Sr: 0.814 **Sr:** 0.292

Screeener(s): Abdulrahman Abdulhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1996 1951

Total Floor Area (sq. ft.): 790 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Floor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (IJK)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF IN)	PC1 (T)	PC2	RM1 (FD)	RM2 (FD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.0	1.9	NA	1.5	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4
FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min}		1.9 ≥ 0.9																

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
 None Visible Entered

Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry mfr LM = Light metal
BR = Braced frame SW = Shear wall TU = Tilt up MH = Assembled Housing FD = Flexible diaphragm
RD = Rigid diaphragm

Figure J.193 RVS form for Structure #136.7

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 1091 OLD BRIMBOLD RD Zip: 58104

Other Identifiers: 12013608

Building Name: POPE ELEMENTARY

Use: Schools

Latitude: 45.710994 **Longitude:** -98.859487

Sr: 0.814 **Sr:** 0.292

Screeener(s): Abdulrahman Abdulhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1996 1951

Total Floor Area (sq. ft.): 790 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (IAC)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF IN)	PC1 (T)	PC2	RM1 (M)	RM2 (M)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.0	1.9	NA	1.5	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 1.9 ≥ 0.9

EXTENT OF REVIEW	OTHER HAZARDS	ACTION REQUIRED
Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____	Are There Hazards That Trigger A Detailed Structural Evaluation? <input type="checkbox"/> Pounding potential (unless S _{L1} > out-of, if known) <input type="checkbox"/> Falling hazards from taller adjacent building <input type="checkbox"/> Geologic hazards or Soil Type F <input type="checkbox"/> Significant damage/deterioration to the structural system	Detailed Structural Evaluation Required? <input type="checkbox"/> Yes, unknown FEMA building type or other building <input type="checkbox"/> Yes, score less than out-of <input type="checkbox"/> Yes, other hazards present <input type="checkbox"/> No Detailed Nonstructural Evaluation Recommended? (check one) <input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated <input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary <input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK
LEVEL 2 SCREENING PERFORMED? <input type="checkbox"/> Yes, Final Level 2 Score, S _{L2} _____ <input type="checkbox"/> No Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No	Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know	


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Assembled Housing PD = Flexible diaphragm
 BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.194 RVS form for Structure #136.8

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 1071 OLD BRIMBOLD RD Zip: 58104

Other Identifiers: 12013609

Building Name: POPE ELEMENTARY

Use: Schools

Latitude: 45.713783 **Longitude:** -98.89395

Sr: 0.814 **Sr:** 0.292

Screeners: Abdulrahman Abdulhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1996 EST

Total Floor Area (sq. ft.): 790 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (IJK)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (URC IN)	PC1 (U)	PC2	RM1 (FD)	RM2 (FD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.0	1.9	NA	1.5	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 1.9 ≥ 0.9

EXTENT OF REVIEW	OTHER HAZARDS	ACTION REQUIRED
Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____	Are There Hazards That Trigger A Detailed Structural Evaluation? <input type="checkbox"/> Pounding potential (unless S _{L1} > out-of, if known) <input type="checkbox"/> Falling hazards from taller adjacent building <input type="checkbox"/> Geologic hazards or Soil Type F <input type="checkbox"/> Significant damage/deformation to the structural system	Detailed Structural Evaluation Required? <input type="checkbox"/> Yes, unknown FEMA building type or other building <input type="checkbox"/> Yes, score less than out-of <input type="checkbox"/> Yes, other hazards present <input type="checkbox"/> No Detailed Nonstructural Evaluation Recommended? (check one) <input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated <input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary <input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK
LEVEL 2 SCREENING PERFORMED? <input type="checkbox"/> Yes, Final Level 2 Score, S _{L2} _____ <input type="checkbox"/> No Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No	Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know	


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Assembled Housing FD = Flexible diaphragm
 BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.195 RVS form for Structure #136.9

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 1091 OLD BRIMBOLD RD Zip: 88045

Other Identifiers: 12013610

Building Name: POPE ELEMENTARY

Use: Schools

Latitude: 35.713781 **Longitude:** -101.859465

Sr: 0.814 **Sr:** 0.292

Screeener(s): Abdulrahman Abdulhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1996 EST

Total Floor Area (sq. ft.): 790 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (RR)	S2 (RR)	S3 (L)	S4 (RC SW)	S5 (RR BT)	C1 (SW)	C2 (SW)	C3 (LRR IN)	PC1 (L)	PC2	RM1 (RR)	RM2 (RR)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.0	1.9	NA	1.5	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 1.9 ≥ 0.9

EXTENT OF REVIEW	OTHER HAZARDS	ACTION REQUIRED
Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____	Are There Hazards That Trigger A Detailed Structural Evaluation? <input type="checkbox"/> Pounding potential (unless S _{L1} > out-of, if known) <input type="checkbox"/> Falling hazards from taller adjacent building <input type="checkbox"/> Geologic hazards or Soil Type F <input type="checkbox"/> Significant damage/deterioration to the structural system	Detailed Structural Evaluation Required? <input type="checkbox"/> Yes, unknown FEMA building type or other building <input type="checkbox"/> Yes, score less than out-of <input type="checkbox"/> Yes, other hazards present <input type="checkbox"/> No Detailed Nonstructural Evaluation Recommended? (check one) <input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated <input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary <input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK
LEVEL 2 SCREENING PERFORMED? <input type="checkbox"/> Yes, Final Level 2 Score, S _{L2} _____ <input type="checkbox"/> No Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No	Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know	


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM M = Unreinforced masonry infill MH = Assembled Housing PD = Flexible diaphragm
 BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.196 RVS form for Structure #136.10

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 1091 OLD BRIMBOLD RD Zip: 58104

Other Identifiers: T24013611

Building Name: POPE ELEMENTARY

Use: Schools

Latitude: 35.713551 **Longitude:** -98.859627

Sr: 0.814 **Sr:** 0.292

Screeners: Abdulrahman Abdulhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1996 EST

Total Floor Area (sq. ft.): 790 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity):
 Plan (type):

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (IAC)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (URC IN)	PC1 (U)	PC2	RM1 (FD)	RM2 (FD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.0	1.9	NA	1.5	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 1.9 ≥ 0.9

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry mfr LM = Light metal MH = Assembled Housing FD = Flexible diaphragm BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.197 RVS form for Structure #136.11

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 1091 OLD BRIMBOLD RD Zip: 58104

Other Identifiers: TN013612

Building Name: POPE ELEMENTARY

Use: Schools

Latitude: 35.713644 **Longitude:** -98.859485

Sr: 0.814 **Sr:** 0.292

Screeener(s): Abdulrahman Abdulhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1996 EST

Total Floor Area (sq. ft.): 790 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity):
 Plan (type):

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (IJK)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (URC IN)	PC1 (U)	PC2	RM1 (FD)	RM2 (FD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.0	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

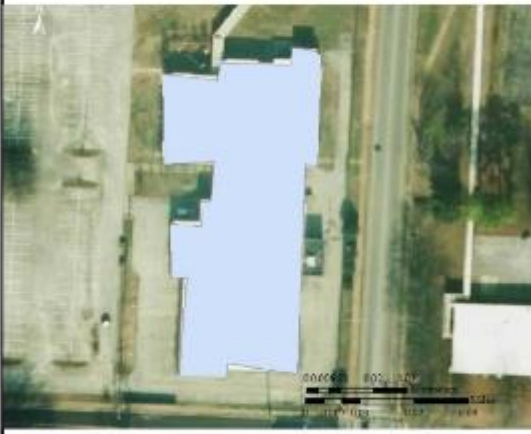
FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 1.9 ≥ 0.9

EXTENT OF REVIEW	OTHER HAZARDS	ACTION REQUIRED
Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____	Are There Hazards That Trigger A Detailed Structural Evaluation? <input type="checkbox"/> Pounding potential (unless S _{L1} > out-of, if known) <input type="checkbox"/> Falling hazards from taller adjacent building <input type="checkbox"/> Geologic hazards or Soil Type F <input type="checkbox"/> Significant damage/deterioration to the structural system	Detailed Structural Evaluation Required? <input type="checkbox"/> Yes, unknown FEMA building type or other building <input type="checkbox"/> Yes, score less than out-of <input type="checkbox"/> Yes, other hazards present <input type="checkbox"/> No Detailed Nonstructural Evaluation Recommended? (check one) <input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated <input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary <input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK
LEVEL 2 SCREENING PERFORMED? <input type="checkbox"/> Yes, Final Level 2 Score, S _{L2} _____ <input type="checkbox"/> No Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No	Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know	

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Assembled Housing FD = Flexible diaphragm
 BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.198 RVS form for Structure #136.12

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 322 LANE AV Zip: 39201

Other Identifiers: 12013700

Building Name: JACKSON CENTRAL-MERRY ACADEMY OF MED

Use: Schools

Latitude: 33.625648 **Longitude:** -88.813344

Sr: 0.742 **Sr:** 0.272

Screeener(s): Abdulrahman Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 2006 EST

Total Floor Area (sq. ft.): 53860 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office **School** Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (RRF)	S2 (RRF)	S3 (RRF)	S4 (RRF SW)	S5 (RRF RT)	C1 (RRF)	C2 (RRF)	C3 (RRF IN)	PC1 (PL)	PC2	RM1 (RR)	RM2 (RR)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.0	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	NA	1.2	
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 2.6 ≥ 0.3

EXTENT OF REVIEW	OTHER HAZARDS	ACTION REQUIRED
Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____	Are There Hazards That Trigger A Detailed Structural Evaluation? <input type="checkbox"/> Pounding potential (unless S _{L1} > out-of, if known) <input type="checkbox"/> Falling hazards from taller adjacent building <input type="checkbox"/> Geologic hazards or Soil Type F <input type="checkbox"/> Significant damage/deterioration to the structural system	Detailed Structural Evaluation Required? <input type="checkbox"/> Yes, unknown FEMA building type or other building <input type="checkbox"/> Yes, score less than out-of <input type="checkbox"/> Yes, other hazards present <input type="checkbox"/> No Detailed Nonstructural Evaluation Recommended? (check one) <input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated <input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary <input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK
LEVEL 2 SCREENING PERFORMED? <input type="checkbox"/> Yes, Final Level 2 Score, S _{L2} _____ <input type="checkbox"/> No Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No	Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know	

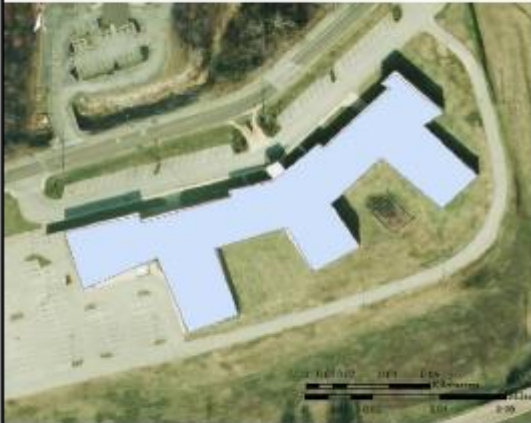
Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM M = Unreinforced masonry infill MH = Assembled Housing PD = Flexible diaphragm
 BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.199 RVS form for Structure #137

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 658 LUXINGTON AV Zip: 38104

Other Identifiers: 12013800

Building Name: JACKSON CAREER TECHNOLOGY MAGNET

Use: Schools

Latitude: 35.621223 **Longitude:** -88.791334

Sr: 0.752 **St:** 0.269

Screeener(s): Abdulrahman Abdulhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1991 EST

Total Floor Area (sq. ft.): 99430 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (RR)	S2 (RR)	S3 (L)	S4 (RC SW)	S5 (RR BT)	C1 (SW)	C2 (SW)	C3 (LRR IN)	PC1 (L)	PC2	RM1 (RR)	RM2 (RR)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 9.0 9.3

EXTENT OF REVIEW	OTHER HAZARDS	ACTION REQUIRED
Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____	Are There Hazards That Trigger A Detailed Structural Evaluation? <input type="checkbox"/> Pounding potential (unless S _{L1} > out-of, if known) <input type="checkbox"/> Falling hazards from taller adjacent building <input type="checkbox"/> Geologic hazards or Soil Type F <input type="checkbox"/> Significant damage/deterioration to the structural system	Detailed Structural Evaluation Required? <input type="checkbox"/> Yes, unknown FEMA building type or other building <input type="checkbox"/> Yes, score less than out-of <input type="checkbox"/> Yes, other hazards present <input type="checkbox"/> No Detailed Nonstructural Evaluation Recommended? (check one) <input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated <input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary <input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK
LEVEL 2 SCREENING PERFORMED? <input type="checkbox"/> Yes, Final Level 2 Score, S _{L2} _____ <input type="checkbox"/> No Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No	Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know	

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Assembled Housing PD = Flexible diaphragm
 BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.200 RVS form for Structure #138

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH

SKETCH

Additional sketches or comments on separate page

Address: 211 OLD HICKORY BL. **Zip:** 38104

Other Identifiers: 12013901

Building Name: ANDREW JACKSON ELEMENTARY MAGNET

Use: Schools

Latitude: 35.655647 **Longitude:** -88.879697

Sr: 0.77 **Sr:** 0.279

Screeener(s): Abdulrahman Abdulhadi **Data/Time:**

No. Stories: Above Grade: _____ Below Grade: _____ **Year Built:** 1990 EST

Total Floor Area (sq. ft.): 51100 **Code Year:** 1993

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF M)	C1 (SW)	C2 (SW)	C3 (MRF M)	PC1 (TU)	PC2 (TU)	RM1 (FD)	RM2 (FD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4
FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min}		0.6				0.3												

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Asymmetric Housing FD = Flexible diaphragm BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.201 RVS form for Structure #139.1

PHOTOGRAPH

SKETCH

Additional sketches or comments on separate page

Address: 211 OLD HICKORY BL. **Zip:** 38104

Other Identifiers: 12013902

Building Name: ANDREW JACKSON ELEMENTARY MAGNET

Use: Schools

Latitude: 35.65597 **Longitude:** -88.6387

Sr: 0.366 **Sr:** 0.279

Screeners: Abdulrahman Abdulhadi **Date/Time:**

No. Stories: Above Grade: _____ Below Grade: _____ **Year Built:** 1990 EST

Total Floor Area (sq. ft.): 13482 **Code Year:** 1993

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{1F}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF IN)	PC1 (TU)	PC2 (TU)	RM1 (FD)	RM2 (FD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{1min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{1F} ≥ S_{1min} 1.7 ≥ 0.5

EXTENT OF REVIEW	OTHER HAZARDS	ACTION REQUIRED
Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____	Are There Hazards That Trigger A Detailed Structural Evaluation? <input type="checkbox"/> Pounding potential (unless S _{1F} > out-of, if known) <input type="checkbox"/> Falling hazards from taller adjacent building <input type="checkbox"/> Geologic hazards or Soil Type F <input type="checkbox"/> Significant damage/deterioration to the structural system	Detailed Structural Evaluation Required? <input type="checkbox"/> Yes, unknown FEMA building type or other building <input type="checkbox"/> Yes, score less than out-of <input type="checkbox"/> Yes, other hazards present <input type="checkbox"/> No Detailed Nonstructural Evaluation Recommended? (check one) <input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated <input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary <input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK
LEVEL 2 SCREENING PERFORMED? <input type="checkbox"/> Yes, Final Level 2 Score, S _{2F} _____ <input type="checkbox"/> No Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No	Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know	


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry mfr LM = Light metal
 BR = Braced frame SW = Shear wall TU = Tilt up MH = Assembled Housing FD = Flexible diaphragm RD = Rigid diaphragm

Figure J.202 RVS form for Structure #139.2

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 211 OLD HICKORY BL. Zip: 38904

Other Identifiers: 12013903

Building Name: ANDREW JACKSON ELEMENTARY MAGNET

Use: Schools

Latitude: 35.655766 **Longitude:** -88.819228

Sr: 0.77 **St:** 0.279

Screeners: Abdulrahman Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1990 EST

Total Floor Area (sq. ft.): 993 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office **School** Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (RR)	S2 (RR)	S3 (L)	S4 (RC SW)	S5 (RR BT)	C1 (SW)	C2 (SW)	C3 (RR IN)	PC1 (L)	PC2	RM1 (RR)	RM2 (RR)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.5	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.6	0.9	0.5	0.9	0.9	0.6	0.6	0.7	0.9	0.7	0.6	0.6	0.6	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.6	-0.8	-0.8	-0.4	NA	-0.6	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.4
FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min}		2.3																

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Assembled Housing PD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.203 RVS form for Structure #139.3

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 211 OLD HICKORY BL. **Zip:** 38104

Other Identifiers: 12013904

Building Name: ANDREW JACKSON ELEMENTARY MAGNET

Use: Schools

Latitude: 35.655924 **Longitude:** -89.818938

Sr: 0.77 **Sr:** 0.279

Screeners: Abdulrahman Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1990 EST

Total Floor Area (sq. ft.): 842 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (IAC)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF IN)	PC1 (TU)	PC2 (TU)	RM1 (FD)	RM2 (FD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.4
FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min}		2.3																

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
 None Visible Entered

Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary


No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM = Unreinforced masonry infill MH = Assembled Housing FD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.204 RVS form for Structure #139.4

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 248 BILBOURD WHITE RD Zip: 38045

Other Identifiers: TN014001

Building Name: NOWA ELEMENTARY

Use: Schools

Latitude: 35.687199 **Longitude:** -88.756144

Sr: 0.251 **St:** 0.274

Screeener(s): Abdulrahman Abdulhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1999 EST

Total Floor Area (sq. ft.): 52700 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor
Rock Rock Soil Soil Soil Soil *#DNK, assume Type D*

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF IN)	PC1 (TU)	PC2 (TU)	RM1 (PD)	RM2 (PD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	NA	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4
FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min}		3.6		2		0.1												

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary


No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM = Unreinforced masonry infill MH = Asymmetric Housing PD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RM = Rigid diaphragm

Figure J.205 RVS form for Structure #140.1

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 248 BILBOURD WHITE RD
Zip: 38904

Other Identifiers: 12014002

Building Name: NOVA ELEMENTARY GYM

Use: Schools

Latitude: 35.686737 **Longitude:** -88.756715

Sr: 0.251 **Sr:** 0.274

Screeners: Abdulrahman Abdulhadi **Date/Time:**

No. Stories: Above Grade: _____ Below Grade: _____ **Year Built:** 1999 EST

Total Floor Area (sq. ft.): 9178 **Code Year:** 1993

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A Hard Rock B Avg. Rock C Dense Soil D Silt Soil E Soft Soil F Poor Soil DNK #DNK, assume Type D

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{1F}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (RRF)	S2 (RRF)	S3 (I ₁)	S4 (PC (RRF SW))	S5 (RRF (R ₁))	C1 (RRF)	C2 (RRF)	C3 (RRF (R ₁))	PC1 (TU)	PC2	RM1 (RRF)	RM2 (RRF)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.0	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.4
FINAL LEVEL 1 SCORE, S_{1F} ≥ S_{min}		3.9		2		0.9												

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{2F} _____ No
Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{2F} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary


No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM = Unreinforced masonry infill MH = Assembled Housing PD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RM = Rigid diaphragm

Figure J.206 RVS form for Structure #140.2

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 248 BILBOURD WHITE RD Zip: 38045

Other Identifiers: 12014003

Building Name: NOWA ELEMENTARY

Use: Schools

Latitude: 35.66742 **Longitude:** -88.753794

Sr: 0.251 **Sr:** 0.274

Screeners: Abdulrahman Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1993 EST

Total Floor Area (sq. ft.): 800 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity):
 Plan (type):

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{1F}																			
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (RR)	S2 (RR)	S3 (I)	S4 (RC SW)	S5 (RR BT)	C1 (SW)	C2 (SW)	C3 (RR IN)	PC1 (I)	PC2	RM1 (RR)	RM2 (RR)	URW	MH	
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2	
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA	
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA	
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA	
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3	
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.0	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2	
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9	
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5	
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA	
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.4	
FINAL LEVEL 1 SCORE, S_{1F} ≥ S_{min}		3.9																	

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{1F} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM M = Unreinforced masonry masonry infill MH = Assembled Housing PD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RM = Rigid diaphragm

Figure J.207 RVS form for Structure #140.3

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH

SKETCH

Additional sketches or comments on separate page

Address: 248 BILBOURD WHITE RD Zip: 38045

Other Identifiers: 12014004

Building Name: NOWA ELEMENTARY

Use: Schools

Latitude: 35.687187 **Longitude:** -88.759723

Sr: 0.251 **Sr:** 0.274

Screeners: Abdulrahman Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1999 EST

Total Floor Area (sq. ft.): 710 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office **School** Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																			
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (RRF)	S2 (RRF)	S3 (RRF)	S4 (RRF SW)	S5 (RRF BT)	C1 (RRF)	C2 (RRF)	C3 (RRF IN)	PC1 (TU)	PC2	RM1 (RR)	RM2 (RR)	URW	MH	
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2	
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA	
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA	
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA	
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3	
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.0	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2	
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9	
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5	
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA	
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.4	
FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min}		3.9																	

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM M = Unreinforced masonry mlf = Unreinforced masonry infill TU = Tilt up MH = Assembled Housing PD = Flexible diaphragm BR = Braced frame SW = Shear wall URM R = Unreinforced masonry mlf LM = Light metal RD = Rigid diaphragm

Figure J.208 RVS form for Structure #140.4

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 248 BILBOURD WHITE RD Zip: 38045

Other Identifiers: 12014005

Building Name: NOWA ELEMENTARY

Use: Schools

Latitude: 35.686968 **Longitude:** -88.759711

Sr: 0.251 **St:** 0.274

Screeners: Abdulrahman Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1999 EST

Total Floor Area (sq. ft.): 1843 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{1F}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (RR)	S2 (RR)	S3 (L)	S4 (RC SW)	S5 (RR BT)	C1 (SW)	C2 (SW)	C3 (RR IN)	PC1 (L)	PC2	RM1 (RR)	RM2 (RR)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.0	1.9	NA	1.5	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.4
FINAL LEVEL 1 SCORE, S_{1F} ≥ S_{min}		3.9				2		0.9										

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{2F} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{2F} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Assembled Housing PD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.209 RVS form for Structure #140.5

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 248 BILBOURD WHITE RD Zip: 38045

Other Identifiers: 12014006

Building Name: NOWA ELEMENTARY

Use: Schools

Latitude: 35.686996 **Longitude:** -88.755867

Sr: 0.251 **St:** 0.274

Screeners: Abdulrahman Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1999 EST

Total Floor Area (sq. ft.): 725 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity):
 Plan (type):

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{1F}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (RR)	S2 (RR)	S3 (L)	S4 (RC SW)	S5 (RR BT)	C1 (SW)	C2 (SW)	C3 (RR IN)	PC1 (L)	PC2	RM1 (RR)	RM2 (RR)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.0	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{1min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.4
FINAL LEVEL 1 SCORE, S_{1F} ≥ S_{1min}		3.9																

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{2F} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{2F} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM M = Unreinforced masonry mlf = Light metal MH = Assembled Housing PD = Flexible diaphragm BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.210 RVS form for Structure #140.6

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 248 BILBOURD WHITE RD Zip: 38045

Other Identifiers: 12014007

Building Name: NOWA ELEMENTARY

Use: Schools

Latitude: 35.686639 **Longitude:** -88.755976

Sr: 0.251 **Sr:** 0.274

Screeners: Abdulrahman Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1999 EST

Total Floor Area (sq. ft.): 725 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{1F}																			
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (RR)	S2 (RR)	S3 (I)	S4 (RC SW)	S5 (RR BT)	C1 (SW)	C2 (SW)	C3 (RR IN)	PC1 (I)	PC2	RM1 (RR)	RM2 (RR)	URW	MH	
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2	
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA	
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA	
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA	
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3	
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.0	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2	
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9	
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5	
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA	
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.4	
FINAL LEVEL 1 SCORE, S_{1F} ≥ S_{min}		2.9																	

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{2F} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{2F} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM M = Unreinforced masonry infill MH = Assembled Housing PD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.211 RVS form for Structure #140.7

PHOTOGRAPH

SKETCH

Additional sketches or comments on separate page

Address: 619 BOLIVAR HWY Zip: 38901

Other Identifiers: TN014101

Building Name: MALESUS ELEMENTARY

Use: Schools

Latitude: 35.541234 **Longitude:** -88.826187

Sr: 0.706 **Sr:** 0.262

Screeners: Abdulrahman Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1962 EST

Total Floor Area (sq. ft.): 15670 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office **School** Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF IN)	PC1 (T)	PC2 (T)	RM1 (FD)	RM2 (FD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.9	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	-0.8	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.3	NA
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.1 ≥ 0.1

<p>EXTENT OF REVIEW</p> <p>Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered</p> <p>Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Soil Type Source: _____</p> <p>Geologic Hazards Source: _____</p> <p>Contact Person: _____</p> <p>LEVEL 2 SCREENING PERFORMED?</p> <p><input type="checkbox"/> Yes, Final Level 2 Score, S_{L2} _____ <input type="checkbox"/> No</p> <p>Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>OTHER HAZARDS</p> <p>Are There Hazards That Trigger A Detailed Structural Evaluation?</p> <p><input type="checkbox"/> Pounding potential (unless S_{L2} > out-of, if known)</p> <p><input type="checkbox"/> Falling hazards from taller adjacent building</p> <p><input type="checkbox"/> Geologic hazards or Soil Type F</p> <p><input type="checkbox"/> Significant damage/deterioration to the structural system</p>	<p>ACTION REQUIRED</p> <p>Detailed Structural Evaluation Required?</p> <p><input type="checkbox"/> Yes, unknown FEMA building type or other building</p> <p><input type="checkbox"/> Yes, score less than out-of</p> <p><input type="checkbox"/> Yes, other hazards present</p> <p><input type="checkbox"/> No</p> <p>Detailed Nonstructural Evaluation Recommended? (check one)</p> <p><input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated</p> <p><input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary</p> <p><input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK</p>
---	--	---

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry mfr MH = Assembled Housing FD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.212 RVS form for Structure #141.1

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 619 BOLIVAR HW Zip: 88301

Other Identifiers: 12014102

Building Name: MALESUS ELEMENTARY

Use: Schools

Latitude: 35.541116 **Longitude:** -88.82586

Sr: 0.706 **Sr:** 0.262

Screeners: Abdulrahman Abdulhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1962 EST

Total Floor Area (sq. ft.): 29630 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF M)	PC1 (M)	PC2	RM1 (M)	RM2 (M)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.9	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.3	NA
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.6	0.9	0.5	0.9	0.9	0.6	0.6	0.7	0.9	0.7	0.6	0.6	0.6	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.6	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.1 0.2

EXTENT OF REVIEW	OTHER HAZARDS	ACTION REQUIRED
Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____	Are There Hazards That Trigger A Detailed Structural Evaluation? <input type="checkbox"/> Pounding potential (unless S _{L1} > out-of, if known) <input type="checkbox"/> Falling hazards from taller adjacent building <input type="checkbox"/> Geologic hazards or Soil Type F <input type="checkbox"/> Significant damage/deterioration to the structural system	Detailed Structural Evaluation Required? <input type="checkbox"/> Yes, unknown FEMA building type or other building <input type="checkbox"/> Yes, score less than out-of <input type="checkbox"/> Yes, other hazards present <input type="checkbox"/> No Detailed Nonstructural Evaluation Recommended? (check one) <input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated <input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary <input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK
LEVEL 2 SCREENING PERFORMED? <input type="checkbox"/> Yes, Final Level 2 Score, S _{L2} _____ <input type="checkbox"/> No Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No	Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know	


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry mfr MH = Assembled Housing PD = Flexible diaphragm
 BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.213 RVS form for Structure #141.2

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 619 BOLIVAR HWY Zip: 38901

Other Identifiers: TN014103

Building Name: MALESUS ELEMENTARY

Use: Schools

Latitude: 35.541161 **Longitude:** -88.821293

Sr: 0.205 **Sr:** 0.262

Screeners: Abdulrahman Abdulhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1962 1951

Total Floor Area (sq. ft.): 9938 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF M)	PC1 (M)	PC2	RM1 (M)	RM2 (M)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.6	0.9	0.5	0.9	0.9	0.6	0.6	0.7	0.9	0.7	0.6	0.6	0.6	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.6	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.1 0.5

EXTENT OF REVIEW	OTHER HAZARDS	ACTION REQUIRED
Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____	Are There Hazards That Trigger A Detailed Structural Evaluation? <input type="checkbox"/> Pounding potential (unless S _{L1} > out-of, if known) <input type="checkbox"/> Falling hazards from taller adjacent building <input type="checkbox"/> Geologic hazards or Soil Type F <input type="checkbox"/> Significant damage/deterioration to the structural system	Detailed Structural Evaluation Required? <input type="checkbox"/> Yes, unknown FEMA building type or other building <input type="checkbox"/> Yes, score less than out-of <input type="checkbox"/> Yes, other hazards present <input type="checkbox"/> No Detailed Nonstructural Evaluation Recommended? (check one) <input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated <input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary <input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK
LEVEL 2 SCREENING PERFORMED? <input type="checkbox"/> Yes, Final Level 2 Score, S _{L2} _____ <input type="checkbox"/> No Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No	Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know	


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Assembled Housing PD = Flexible diaphragm
 BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.214 RVS form for Structure #141.3

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 619 BOLIVAR HWY Zip: 38901

Other Identifiers: TN014104

Building Name: MALESUS ELEMENTARY

Use: Schools

Latitude: 35.540777 **Longitude:** -88.821171

Sr: 0.205 **Sr:** 0.262

Screeners: Abdulrahman Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1962 EST

Total Floor Area (sq. ft.): 810 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor
Rock Rock Soil Soil Soil Soil
#DNK, assume Type D

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity):
 Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (RR)	S2 (RR)	S3 (IJK)	S4 (RC SW)	S5 (RR BT)	C1 (SW)	C2 (SW)	C3 (RR IN)	PC1 (TU)	PC2	RM1 (RR)	RM2 (RR)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.4
FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min}		3.3	2	1.5														

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Asm./solid Masonry PD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RM = Rigid diaphragm

Figure J.215 RVS form for Structure #141.4

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 619 BOLIVAR HW
Zip: 8801

Other Identifiers: 12014105

Building Name: MALESUS ELEMENTARY

Use: Schools

Latitude: 33.540598 **Longitude:** -108.823195

Sr: 0.705 **Sr:** 0.262

Screeners: Abdulrahman Abdulhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1962 EST

Total Floor Area (sq. ft.): 830 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office **School** Government
Utility Washhouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (RR)	S2 (RR)	S3 (IJK)	S4 (RC SW)	S5 (RR BT)	C1 (SW)	C2 (SW)	C3 (RR IN)	PC1 (TU)	PC2	RM1 (RR)	RM2 (RR)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.4
FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min}		3.3	2	1.5														

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/degradation to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary


No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Asm. column housing PD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RM = Rigid diaphragm

Figure J.216 RVS form for Structure #141.5

PHOTOGRAPH



SKETCH

Address: 332 WHITEHALL ST Zip: 38001

Other Identifiers: TN014201

Building Name: WHITEHALL PRE-K CENTER

Use: Schools

Latitude: 35.620967 **Longitude:** -88.800681

Sr: 0.756 **Sr:** 0.27

Screeener(s): Abdulrahman Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1991

Total Floor Area (sq. ft.): 41240 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Stiff Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{1F}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF IN)	PC1 (TU)	PC2 (TU)	RM1 (PD)	RM2 (PD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{1min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4
FINAL LEVEL 1 SCORE, S_{1F} ≥ S_{1min}		0.6		2	0.1													

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{2F} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{2F} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/degradation to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary


No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry mfr LM = Light metal PD = Flexible diaphragm BR = Braced frame SW = Shear wall TU = Tilt up MH = Amplified Moment RD = Rigid diaphragm

Figure J.217 RVS form for Structure #142.1

PHOTOGRAPH



SKETCH

Address: 332 WHITEHALL ST Zip: 38901

Other Identifiers: 12014202

Building Name: WHITEHALL PRE-K CENTER

Use: Schools

Latitude: 35.620616 **Longitude:** -88.870617

Sr: 0.756 **Sr:** 0.27

Screeener(s): Abdulrahman Abdulhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 199 251

Total Floor Area (sq. ft.): 1774 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Stiff Soft Poor
Rock Rock Soil Soil Soil Soil
#DNK, assume Type D

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{1F}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF IN)	PC1 (TU)	PC2 (TU)	RM1 (PD)	RM2 (PD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.9	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4
FINAL LEVEL 1 SCORE, S_{1F} ≥ S_{min}		3.6	2	0.5														

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
 None Visible Entered

Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{2F} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{2F} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry mfr LM = Light metal
BR = Braced frame SW = Shear wall TU = Tilt up MH = Assembled Housing PD = Flexible diaphragm RD = Rigid diaphragm

Figure J.218 RVS form for Structure #142.2

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 81 HARTS BRIDGE RD Zip: 38301

Other Identifiers: TN014293

Building Name: SOUTH SIDE HIGH SCHOOL

Use: Schools

Latitude: 35.569071 **Longitude:** -88.899887

Sr: 0.714 **Sr:** 0.264

Screeener(s): Abdulrahman Abdulhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1962 1951

Total Floor Area (sq. ft.): 52372 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity)
 Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (RR)	S2 (RR)	S3 (L)	S4 (RC SW)	S5 (RR BT)	C1 (SW)	C2 (SW)	C3 (RR IN)	PC1 (L)	PC2 (L)	RM1 (RR)	RM2 (RR)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.5	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.6	0.9	0.5	0.9	0.9	0.6	0.6	0.7	0.9	0.7	0.6	0.8	0.6	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} **0.3**

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Assembled Housing PD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.219 RVS form for Structure #143.1

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 81 HARTS BRIDGE RD Zip: 38901

Other Identifiers: TN014302

Building Name: SOUTH SIDE HIGH SCHOOL

Use: Schools

Latitude: 35.568996 **Longitude:** -88.813414

S: 0.714 **Sz:** 0.264

Screeener(s): Abdulrahman Abdulhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1962 1951

Total Floor Area (sq. ft.): 57820 **Code Year:** 1993

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (RR)	S2 (RR)	S3 (I)	S4 (RC SW)	S5 (RR BT)	C1 (RR)	C2 (SW)	C3 (RR IN)	PC1 (I)	PC2	RM1 (I)	RM2 (I)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.7	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.5	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.6	0.9	0.5	0.9	0.9	0.6	0.6	0.7	0.9	0.7	0.6	0.8	0.6	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.6	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} **0.3**

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM = Unreinforced masonry infill MH = Assembled Housing PD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.220 RVS form for Structure #143.2

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 81 HARTS BRIDGE RD Zip: 38901

Other Identifiers: TN014303

Building Name: SOUTH SIDE HIGH SCHOOL

Use: Schools

Latitude: 35.568743 **Longitude:** -88.812615

Sr: 0.714 **St:** 0.264

Screeener(s): Abdulrahman Abdulhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1962 1951

Total Floor Area (sq. ft.): 1810 **Code Year:** 1993

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (RR)	S2 (RR)	S3 (I)	S4 (RC SW)	S5 (RR BT)	C1 (RR BT)	C2 (SW)	C3 (RR IN)	PC1 (I)	PC2	RM1 (I)	RM2 (I)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.8	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.5	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.6	0.9	0.5	0.9	0.9	0.6	0.6	0.7	0.9	0.7	0.6	0.8	0.6	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S_{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.4
FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min}		1.3 ≥ 0.3																

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
 None Visible Entered

Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Asymmetric Housing PD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RM = Rigid diaphragm

Figure J.221 RVS form for Structure #143.3

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 81 HARTS BRIDGE RD Zip: 38901

Other Identifiers: TN014304

Building Name: SOUTH SIDE HIGH SCHOOL

Use: Schools

Latitude: 35.568537 **Longitude:** -88.812124

Sr: 0.714 **St:** 0.264

Screener(s): Abdulrahman Abdulhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1962 1951

Total Floor Area (sq. ft.): 9350 **Code Year:** 1993

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{1F}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (RR)	S2 (RR)	S3 (L)	S4 (RC SW)	S5 (RR BT)	C1 (SW)	C2 (SW)	C3 (LRC IN)	PC1 (L)	PC2	RM1 (R)	RM2 (R)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.3	NA
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.5	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.6	0.9	0.5	0.9	0.9	0.6	0.6	0.7	0.9	0.7	0.6	0.6	0.6	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.6	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{1min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{1F} ≥ S_{1min} 0.1 ≤ 0.2

EXTENT OF REVIEW	OTHER HAZARDS	ACTION REQUIRED
Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____	Are There Hazards That Trigger A Detailed Structural Evaluation? <input type="checkbox"/> Pounding potential (unless S _{1F} > out-of, if known) <input type="checkbox"/> Falling hazards from taller adjacent building <input type="checkbox"/> Geologic hazards or Soil Type F <input type="checkbox"/> Significant damage/deterioration to the structural system	Detailed Structural Evaluation Required? <input type="checkbox"/> Yes, unknown FEMA building type or other building <input type="checkbox"/> Yes, score less than out-of <input type="checkbox"/> Yes, other hazards present <input type="checkbox"/> No Detailed Nonstructural Evaluation Recommended? (check one) <input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated <input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary <input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK
LEVEL 2 SCREENING PERFORMED? <input type="checkbox"/> Yes, Final Level 2 Score, S _{2F} _____ <input type="checkbox"/> No Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No	Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know	


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Assembled Housing PD = Flexible diaphragm
 BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.222 RVS form for Structure #143.4

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 81 HARTS BRIDGE RD Zip: 38901

Other Identifiers: TN014205

Building Name: SOUTH SIDE HIGH SCHOOL

Use: Schools

Latitude: 35.969074 **Longitude:** -88.81065

Sr: 0.714 **Sr:** 0.264

Screeener(s): Abdulrahman Abdulhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1962 1951

Total Floor Area (sq. ft.): 58625 **Code Year:** 1993

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S ₁₁																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (MRF)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF IN)	PC1 (TU)	PC2 (TU)	RM1 (PD)	RM2 (PD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.5	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.6	0.9	0.5	0.9	0.9	0.6	0.6	0.7	0.9	0.7	0.6	0.8	0.6	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S₁₁ ≥ S_{min} 0.9 ≥ 0.5

EXTENT OF REVIEW	OTHER HAZARDS	ACTION REQUIRED
Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____	Are There Hazards That Trigger A Detailed Structural Evaluation? <input type="checkbox"/> Pounding potential (unless S ₁₁ > out-of, if known) <input type="checkbox"/> Falling hazards from taller adjacent building <input type="checkbox"/> Geologic hazards or Soil Type F <input type="checkbox"/> Significant damage/deterioration to the structural system	Detailed Structural Evaluation Required? <input type="checkbox"/> Yes, unknown FEMA building type or other building <input type="checkbox"/> Yes, score less than out-of <input type="checkbox"/> Yes, other hazards present <input type="checkbox"/> No Detailed Nonstructural Evaluation Recommended? (check one) <input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated <input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary <input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK
LEVEL 2 SCREENING PERFORMED? <input type="checkbox"/> Yes, Final Level 2 Score, S ₁₂ _____ <input type="checkbox"/> No Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No	Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know	


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Assembled Housing PD = Flexible diaphragm
 BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.223 RVS form for Structure #143.5

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 81 HARTS BRIDGE RD Zip: 38901

Other Identifiers: TN014206

Building Name: SOUTH SIDE HIGH SCHOOL

Use: Schools

Latitude: 35.568363 **Longitude:** -88.810316

Sr: 0.713 **St:** 0.264

Screeener(s): Abdulrahman Abdulhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1962 1951

Total Floor Area (sq. ft.): 15112 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF IN)	PC1 (T)	PC2 (T)	RM1 (FD)	RM2 (FD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.5	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.6	0.9	0.5	0.9	0.9	0.6	0.6	0.7	0.9	0.7	0.6	0.8	0.6	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.6	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.9 ≥ 0.5

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

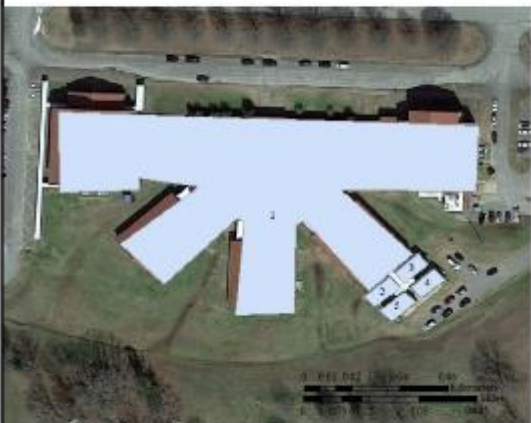
No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Asymmetric Housing FD = Flexible diaphragm BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RM = Rigid diaphragm

Figure J.224 RVS form for Structure #143.6

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 2665 CHRISTMASVILLE RD Zip: 98045

Other Identifiers: EN014401

Building Name: NORTHEAST MIDDLE SCHOOL

Use: Schools

Latitude: 45.691341 **Longitude:** -122.27737

Sr: 0.262 **Sr:** 0.277

Screeners: Abdulrahman Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1992 1993

Total Floor Area (sq. ft.): 81970 **Code Year:** 1993

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor
Rock Rock Soil Soil Soil Soil
#DNK, assume Type D

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF IN)	PC1 (TU)	PC2 (TU)	RM1 (PD)	RM2 (PD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	NA	1.2	
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

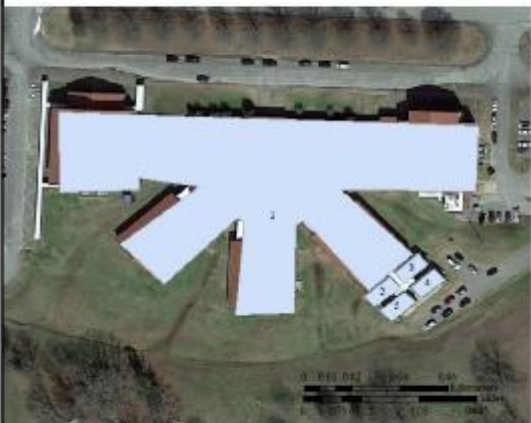
FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 2.6 ≥ 0.5

EXTENT OF REVIEW	OTHER HAZARDS	ACTION REQUIRED
Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____	Are There Hazards That Trigger A Detailed Structural Evaluation? <input type="checkbox"/> Pounding potential (unless S _{L1} > out-of, if known) <input type="checkbox"/> Falling hazards from taller adjacent building <input type="checkbox"/> Geologic hazards or Soil Type F <input type="checkbox"/> Significant damage/deterioration to the structural system	Detailed Structural Evaluation Required? <input type="checkbox"/> Yes, unknown FEMA building type or other building <input type="checkbox"/> Yes, score less than out-of <input type="checkbox"/> Yes, other hazards present <input type="checkbox"/> No Detailed Nonstructural Evaluation Recommended? (check one) <input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated <input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary <input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK
LEVEL 2 SCREENING PERFORMED? <input type="checkbox"/> Yes, Final Level 2 Score, S _{L2} _____ <input type="checkbox"/> No Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No	Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know	

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry mfr MH = Assembled Housing PD = Flexible diaphragm
 BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.225 RVS form for Structure #144.1

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 2665 CHRISTMASVILLE RD Zip: 98045

Other Identifiers: EN014402

Building Name: NORTHEAST MIDDLE SCHOOL

Use: Schools

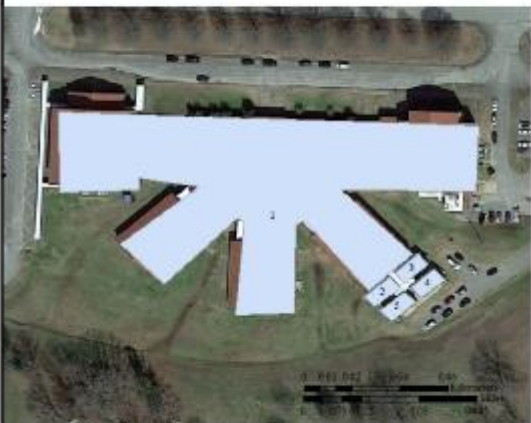
Latitude: 45.692677 **Longitude:** -122.776601

Sr: 0.762 **Sr:** 0.277

Screeener(s): Abdulrahman Abdulhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1992 1991 1990 1989 1988 1987 1986 1985 1984 1983 1982 1981 1980 1979 1978 1977 1976 1975 1974 1973 1972 1971 1970 1969 1968 1967 1966 1965 1964 1963 1962 1961 1960 1959 1958 1957 1956 1955 1954 1953 1952 1951 1950 1949 1948 1947 1946 1945 1944 1943 1942 1941 1940 1939 1938 1937 1936 1935 1934 1933 1932 1931 1930 1929 1928 1927 1926 1925 1924 1923 1922 1921 1920 1919 1918 1917 1916 1915 1914 1913 1912 1911 1910 1909 1908 1907 1906 1905 1904 1903 1902 1901 1900 1899 1898 1897 1896 1895 1894 1893 1892 1891 1890 1889 1888 1887 1886 1885 1884 1883 1882 1881 1880 1879 1878 1877 1876 1875 1874 1873 1872 1871 1870 1869 1868 1867 1866 1865 1864 1863 1862 1861 1860 1859 1858 1857 1856 1855 1854 1853 1852 1851 1850 1849 1848 1847 1846 1845 1844 1843 1842 1841 1840 1839 1838 1837 1836 1835 1834 1833 1832 1831 1830 1829 1828 1827 1826 1825 1824 1823 1822 1821 1820 1819 1818 1817 1816 1815 1814 1813 1812 1811 1810 1809 1808 1807 1806 1805 1804 1803 1802 1801 1800 1799 1798 1797 1796 1795 1794 1793 1792 1791 1790 1789 1788 1787 1786 1785 1784 1783 1782 1781 1780 1779 1778 1777 1776 1775 1774 1773 1772 1771 1770 1769 1768 1767 1766 1765 1764 1763 1762 1761 1760 1759 1758 1757 1756 1755 1754 1753 1752 1751 1750 1749 1748 1747 1746 1745 1744 1743 1742 1741 1740 1739 1738 1737 1736 1735 1734 1733 1732 1731 1730 1729 1728 1727 1726 1725 1724 1723 1722 1721 1720 1719 1718 1717 1716 1715 1714 1713 1712 1711 1710 1709 1708 1707 1706 1705 1704 1703 1702 1701 1700 1699 1698 1697 1696 1695 1694 1693 1692 1691 1690 1689 1688 1687 1686 1685 1684 1683 1682 1681 1680 1679 1678 1677 1676 1675 1674 1673 1672 1671 1670 1669 1668 1667 1666 1665 1664 1663 1662 1661 1660 1659 1658 1657 1656 1655 1654 1653 1652 1651 1650 1649 1648 1647 1646 1645 1644 1643 1642 1641 1640 1639 1638 1637 1636 1635 1634 1633 1632 1631 1630 1629 1628 1627 1626 1625 1624 1623 1622 1621 1620 1619 1618 1617 1616 1615 1614 1613 1612 1611 1610 1609 1608 1607 1606 1605 1604 1603 1602 1601 1600 1599 1598 1597 1596 1595 1594 1593 1592 1591 1590 1589 1588 1587 1586 1585 1584 1583 1582 1581 1580 1579 1578 1577 1576 1575 1574 1573 1572 1571 1570 1569 1568 1567 1566 1565 1564 1563 1562 1561 1560 1559 1558 1557 1556 1555 1554 1553 1552 1551 1550 1549 1548 1547 1546 1545 1544 1543 1542 1541 1540 1539 1538 1537 1536 1535 1534 1533 1532 1531 1530 1529 1528 1527 1526 1525 1524 1523 1522 1521 1520 1519 1518 1517 1516 1515 1514 1513 1512 1511 1510 1509 1508 1507 1506 1505 1504 1503 1502 1501 1500 1499 1498 1497 1496 1495 1494 1493 1492 1491 1490 1489 1488 1487 1486 1485 1484 1483 1482 1481 1480 1479 1478 1477 1476 1475 1474 1473 1472 1471 1470 1469 1468 1467 1466 1465 1464 1463 1462 1461 1460 1459 1458 1457 1456 1455 1454 1453 1452 1451 1450 1449 1448 1447 1446 1445 1444 1443 1442 1441 1440 1439 1438 1437 1436 1435 1434 1433 1432 1431 1430 1429 1428 1427 1426 1425 1424 1423 1422 1421 1420 1419 1418 1417 1416 1415 1414 1413 1412 1411 1410 1409 1408 1407 1406 1405 1404 1403 1402 1401 1400 1399 1398 1397 1396 1395 1394 1393 1392 1391 1390 1389 1388 1387 1386 1385 1384 1383 1382 1381 1380 1379 1378 1377 1376 1375 1374 1373 1372 1371 1370 1369 1368 1367 1366 1365 1364 1363 1362 1361 1360 1359 1358 1357 1356 1355 1354 1353 1352 1351 1350 1349 1348 1347 1346 1345 1344 1343 1342 1341 1340 1339 1338 1337 1336 1335 1334 1333 1332 1331 1330 1329 1328 1327 1326 1325 1324 1323 1322 1321 1320 1319 1318 1317 1316 1315 1314 1313 1312 1311 1310 1309 1308 1307 1306 1305 1304 1303 1302 1301 1300 1299 1298 1297 1296 1295 1294 1293 1292 1291 1290 1289 1288 1287 1286 1285 1284 1283 1282 1281 1280 1279 1278 1277 1276 1275 1274 1273 1272 1271 1270 1269 1268 1267 1266 1265 1264 1263 1262 1261 1260 1259 1258 1257 1256 1255 1254 1253 1252 1251 1250 1249 1248 1247 1246 1245 1244 1243 1242 1241 1240 1239 1238 1237 1236 1235 1234 1233 1232 1231 1230 1229 1228 1227 1226 1225 1224 1223 1222 1221 1220 1219 1218 1217 1216 1215 1214 1213 1212 1211 1210 1209 1208 1207 1206 1205 1204 1203 1202 1201 1200 1199 1198 1197 1196 1195 1194 1193 1192 1191 1190 1189 1188 1187 1186 1185 1184 1183 1182 1181 1180 1179 1178 1177 1176 1175 1174 1173 1172 1171 1170 1169 1168 1167 1166 1165 1164 1163 1162 1161 1160 1159 1158 1157 1156 1155 1154 1153 1152 1151 1150 1149 1148 1147 1146 1145 1144 1143 1142 1141 1140 1139 1138 1137 1136 1135 1134 1133 1132 1131 1130 1129 1128 1127 1126 1125 1124 1123 1122 1121 1120 1119 1118 1117 1116 1115 1114 1113 1112 1111 1110 1109 1108 1107 1106 1105 1104 1103 1102 1101 1100 1099 1098 1097 1096 1095 1094 1093 1092 1091 1090 1089 1088 1087 1086 1085 1084 1083 1082 1081 1080 1079 1078 1077 1076 1075 1074 1073 1072 1071 1070 1069 1068 1067 1066 1065 1064 1063 1062 1061 1060 1059 1058 1057 1056 1055 1054 1053 1052 1051 1050 1049 1048 1047 1046 1045 1044 1043 1042 1041 1040 1039 1038 1037 1036 1035 1034 1033 1032 1031 1030 1029 1028 1027 1026 1025 1024 1023 1022 1021 1020 1019 1018 1017 1016 1015 1014 1013 1012 1011 1010 1009 1008 1007 1006 1005 1004 1003 1002 1001 1000 999 998 997 996 995 994 993 992 991 990 989 988 987 986 985 984 983 982 981 980 979 978 977 976 975 974 973 972 971 970 969 968 967 966 965 964 963 962 961 960 959 958 957 956 955 954 953 952 951 950 949 948 947 946 945 944 943 942 941 940 939 938 937 936 935 934 933 932 931 930 929 928 927 926 925 924 923 922 921 920 919 918 917 916 915 914 913 912 911 910 909 908 907 906 905 904

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 2665 CHRISTMASVILLE RD Zip: 58045

Other Identifiers: TN014403

Building Name: NORTHEAST MIDDLE SCHOOL

Use: Schools

Latitude: 35.692773 **Longitude:** -98.776716

Sr: 0.762 **Sr:** 0.277

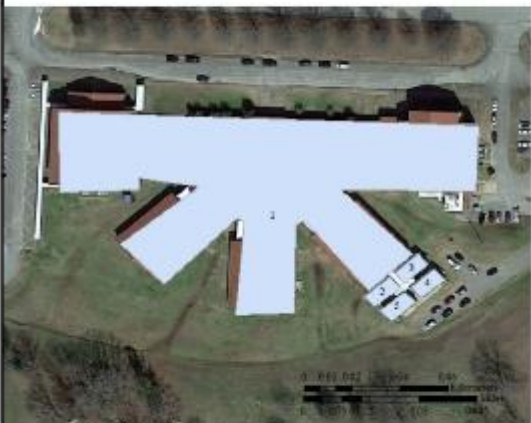
Screeners: Abdulrahman Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1992 1991 1990 1989 1988 1987 1986 1985 1984 1983 1982 1981 1980 1979 1978 1977 1976 1975 1974 1973 1972 1971 1970 1969 1968 1967 1966 1965 1964 1963 1962 1961 1960 1959 1958 1957 1956 1955 1954 1953 1952 1951 1950 1949 1948 1947 1946 1945 1944 1943 1942 1941 1940 1939 1938 1937 1936 1935 1934 1933 1932 1931 1930 1929 1928 1927 1926 1925 1924 1923 1922 1921 1920 1919 1918 1917 1916 1915 1914 1913 1912 1911 1910 1909 1908 1907 1906 1905 1904 1903 1902 1901 1900 1899 1898 1897 1896 1895 1894 1893 1892 1891 1890 1889 1888 1887 1886 1885 1884 1883 1882 1881 1880 1879 1878 1877 1876 1875 1874 1873 1872 1871 1870 1869 1868 1867 1866 1865 1864 1863 1862 1861 1860 1859 1858 1857 1856 1855 1854 1853 1852 1851 1850 1849 1848 1847 1846 1845 1844 1843 1842 1841 1840 1839 1838 1837 1836 1835 1834 1833 1832 1831 1830 1829 1828 1827 1826 1825 1824 1823 1822 1821 1820 1819 1818 1817 1816 1815 1814 1813 1812 1811 1810 1809 1808 1807 1806 1805 1804 1803 1802 1801 1800 1799 1798 1797 1796 1795 1794 1793 1792 1791 1790 1789 1788 1787 1786 1785 1784 1783 1782 1781 1780 1779 1778 1777 1776 1775 1774 1773 1772 1771 1770 1769 1768 1767 1766 1765 1764 1763 1762 1761 1760 1759 1758 1757 1756 1755 1754 1753 1752 1751 1750 1749 1748 1747 1746 1745 1744 1743 1742 1741 1740 1739 1738 1737 1736 1735 1734 1733 1732 1731 1730 1729 1728 1727 1726 1725 1724 1723 1722 1721 1720 1719 1718 1717 1716 1715 1714 1713 1712 1711 1710 1709 1708 1707 1706 1705 1704 1703 1702 1701 1700 1699 1698 1697 1696 1695 1694 1693 1692 1691 1690 1689 1688 1687 1686 1685 1684 1683 1682 1681 1680 1679 1678 1677 1676 1675 1674 1673 1672 1671 1670 1669 1668 1667 1666 1665 1664 1663 1662 1661 1660 1659 1658 1657 1656 1655 1654 1653 1652 1651 1650 1649 1648 1647 1646 1645 1644 1643 1642 1641 1640 1639 1638 1637 1636 1635 1634 1633 1632 1631 1630 1629 1628 1627 1626 1625 1624 1623 1622 1621 1620 1619 1618 1617 1616 1615 1614 1613 1612 1611 1610 1609 1608 1607 1606 1605 1604 1603 1602 1601 1600 1599 1598 1597 1596 1595 1594 1593 1592 1591 1590 1589 1588 1587 1586 1585 1584 1583 1582 1581 1580 1579 1578 1577 1576 1575 1574 1573 1572 1571 1570 1569 1568 1567 1566 1565 1564 1563 1562 1561 1560 1559 1558 1557 1556 1555 1554 1553 1552 1551 1550 1549 1548 1547 1546 1545 1544 1543 1542 1541 1540 1539 1538 1537 1536 1535 1534 1533 1532 1531 1530 1529 1528 1527 1526 1525 1524 1523 1522 1521 1520 1519 1518 1517 1516 1515 1514 1513 1512 1511 1510 1509 1508 1507 1506 1505 1504 1503 1502 1501 1500 1499 1498 1497 1496 1495 1494 1493 1492 1491 1490 1489 1488 1487 1486 1485 1484 1483 1482 1481 1480 1479 1478 1477 1476 1475 1474 1473 1472 1471 1470 1469 1468 1467 1466 1465 1464 1463 1462 1461 1460 1459 1458 1457 1456 1455 1454 1453 1452 1451 1450 1449 1448 1447 1446 1445 1444 1443 1442 1441 1440 1439 1438 1437 1436 1435 1434 1433 1432 1431 1430 1429 1428 1427 1426 1425 1424 1423 1422 1421 1420 1419 1418 1417 1416 1415 1414 1413 1412 1411 1410 1409 1408 1407 1406 1405 1404 1403 1402 1401 1400 1399 1398 1397 1396 1395 1394 1393 1392 1391 1390 1389 1388 1387 1386 1385 1384 1383 1382 1381 1380 1379 1378 1377 1376 1375 1374 1373 1372 1371 1370 1369 1368 1367 1366 1365 1364 1363 1362 1361 1360 1359 1358 1357 1356 1355 1354 1353 1352 1351 1350 1349 1348 1347 1346 1345 1344 1343 1342 1341 1340 1339 1338 1337 1336 1335 1334 1333 1332 1331 1330 1329 1328 1327 1326 1325 1324 1323 1322 1321 1320 1319 1318 1317 1316 1315 1314 1313 1312 1311 1310 1309 1308 1307 1306 1305 1304 1303 1302 1301 1300 1299 1298 1297 1296 1295 1294 1293 1292 1291 1290 1289 1288 1287 1286 1285 1284 1283 1282 1281 1280 1279 1278 1277 1276 1275 1274 1273 1272 1271 1270 1269 1268 1267 1266 1265 1264 1263 1262 1261 1260 1259 1258 1257 1256 1255 1254 1253 1252 1251 1250 1249 1248 1247 1246 1245 1244 1243 1242 1241 1240 1239 1238 1237 1236 1235 1234 1233 1232 1231 1230 1229 1228 1227 1226 1225 1224 1223 1222 1221 1220 1219 1218 1217 1216 1215 1214 1213 1212 1211 1210 1209 1208 1207 1206 1205 1204 1203 1202 1201 1200 1199 1198 1197 1196 1195 1194 1193 1192 1191 1190 1189 1188 1187 1186 1185 1184 1183 1182 1181 1180 1179 1178 1177 1176 1175 1174 1173 1172 1171 1170 1169 1168 1167 1166 1165 1164 1163 1162 1161 1160 1159 1158 1157 1156 1155 1154 1153 1152 1151 1150 1149 1148 1147 1146 1145 1144 1143 1142 1141 1140 1139 1138 1137 1136 1135 1134 1133 1132 1131 1130 1129 1128 1127 1126 1125 1124 1123 1122 1121 1120 1119 1118 1117 1116 1115 1114 1113 1112 1111 1110 1109 1108 1107 1106 1105 1104 1103 1102 1101 1100 1099 1098 1097 1096 1095 1094 1093 1092 1091 1090 1089 1088 1087 1086 1085 1084 1083 1082 1081 1080 1079 1078 1077 1076 1075 1074 1073 1072 1071 1070 1069 1068 1067 1066 1065 1064 1063 1062 1061 1060 1059 1058 1057 1056 1055 1054 1053 1052 1051 1050 1049 1048 1047 1046 1045 1044 1043 1042 1041 1040 1039 1038 1037 1036 1035 1034 1033 1032 1031 1030 1029 1028 1027 1026 1025 1024 1023 1022 1021 1020 1019 1018 1017 1016 1015 1014 1013 1012 1011 1010 1009 1008 1007 1006 1005 1004 1003 1002 1001 1000 999 998 997 996 995 994 993 992 991 990 989 988 987 986 985 984 983 982 981 980 979 978 977 976 975 974 973 972 971 970 969 968 967 966 965 964 963 962 961 960 959 958 957 956 955 954 953 952 951 950 949 948 947 946 945 944 943 942 941 940 939 938 937 936 935 934 933 932 931 930 929 928 927 926 925 924 923 922 921 920 919 918 917 916 915 914 913 912 911 910 909 908 907 906 905 904 903 <

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 2665 CHRISTMASVILLE RD Zip: 58104

Other Identifiers: TN014404

Building Name: NORTHEAST MIDDLE SCHOOL

Use: Schools

Latitude: 45.692917 **Longitude:** -98.276677

Sr: 0.262 **Sr:** 0.277

Screeners: Abdulrahman Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1992 1993

Total Floor Area (sq. ft.): 800 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity):
 Plan (type):

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (RR)	S2 (RR)	S3 (L)	S4 (RC SW)	S5 (RR BT)	C1 (SW)	C2 (SW)	C3 (RR IN)	PC1 (L)	PC2	RM1 (RR)	RM2 (RR)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.0	1.9	NA	1.5	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 3.9 ≥ 0.9

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

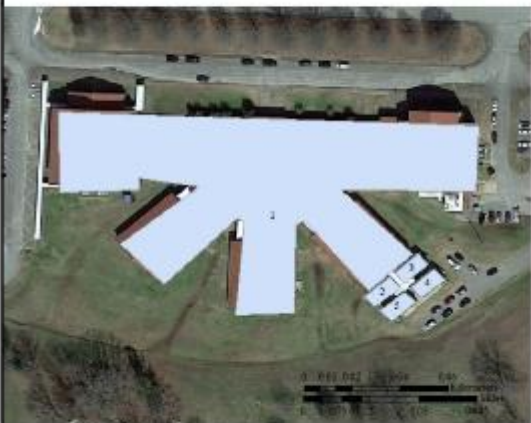
No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM = Unreinforced masonry infill MH = Assembled Housing PD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RM = Rigid diaphragm

Figure J.228 RVS form for Structure #144.4

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 2665 CHRISTMASVILLE RD Zip: 58104

Other Identifiers: TN014405

Building Name: NORTHEAST MIDDLE SCHOOL

Use: Schools

Latitude: 45.692641 **Longitude:** -98.72661

Sr: 0.262 **Sr:** 0.277

Screeener(s): Abdulrahman Abdulhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1992 1993

Total Floor Area (sq. ft.): 800 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (RR)	S2 (RR)	S3 (I)	S4 (RC SW)	S5 (RR BT)	C1 (SW)	C2 (SW)	C3 (RR IN)	PC1 (I)	PC2	RM1 (I)	RM2 (I)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.0	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 3.9 ≥ 0.9

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM = Unreinforced masonry infill MH = Assembled Housing PD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.229 RVS form for Structure #144.5

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 716 WEST WOOD AV Zip: 88001

Other Identifiers: 12014200

Building Name: I B TIGRETT MIDDLE SCHOOL

Use: Schools

Latitude: 35.650671 **Longitude:** -98.811013

Sr: 0.253 **Sr:** 0.275

Screeener(s): Abdulrahman Abdulhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1964 1951

Total Floor Area (sq. ft.): 16143 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor
Rock Rock Soil Soil Soil Soil
#DNK, assume Type D

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (MRF)	S4 (RC SW)	S5 (MRF)	C1 (SW)	C2 (SW)	C3 (MRF)	PC1 (M)	PC2 (M)	RM1 (M)	RM2 (M)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.3	NA
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.6	0.9	0.5	0.9	0.9	0.6	0.6	0.7	0.9	0.7	0.6	0.8	0.6	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4
FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min}		0.1 ≥ 0.2																

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry mfr LM = Light metal MH = Asymmetric Housing PD = Flexible diaphragm BR = Braced frame SW = Shear wall TU = Tilt up RD = Rigid diaphragm

Figure J.230 RVS form for Structure #145.0

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 716 WEST WOOD AV Zip: 88901

Other Identifiers: 12014290

Building Name: I B TIGRETT MIDDLE SCHOOL

Use: Schools

Latitude: 33.631197 **Longitude:** -88.812785

Sr: 0.362 **Sr:** 0.277

Screeener(s): Abdulrahman Abdulhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1964 2011

Total Floor Area (sq. ft.): 89490 **Code Year:** 1993

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor
Rock Rock Soil Soil Soil Soil
#DNK, assume Type D

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (MRF)	S4 (RC SW)	S5 (MRF)	C1 (SW)	C2 (SW)	C3 (MRF)	PC1 (M)	PC2	RM1 (M)	RM2 (M)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.6	0.9	0.5	0.9	0.9	0.6	0.6	0.7	0.9	0.7	0.6	0.8	0.6	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.6	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S_{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.5 ≥ 0.5

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry mfr U = Tilt up MH = Asymmetric Housing PD = Flexible diaphragm BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.231 RVS form for Structure #145.1

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 716 WEST WOOD AV Zip: 88901

Other Identifiers: 12014502

Building Name: I B TIGRETT MIDDLE SCHOOL

Use: Schools

Latitude: 35.69073 **Longitude:** -88.813471

Sr: 0.257 **Sr:** 0.275

Screeener(s): Abdulrahman Abdulhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1964 1951

Total Floor Area (sq. ft.): 790 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor
Rock Rock Soil Soil Soil Soil
#DNK, assume Type D

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity):
 Plan (type):

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{1F}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (RR)	S2 (RR)	S3 (L)	S4 (RC SW)	S5 (RR BT)	C1 (SW)	C2 (SW)	C3 (RR IN)	PC1 (L)	PC2	RM1 (RR)	RM2 (RR)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.7	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{1min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.4
FINAL LEVEL 1 SCORE, S_{1F} ≥ S_{1min}		2.2 ≥ 0.9																

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S₂ _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S₂ > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM M = Unreinforced masonry mlf = Unreinforced masonry infill MH = Asymmetric Housing PD = Flexible diaphragm BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.232 RVS form for Structure #145.2

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 716 WEST WOOD AV Zip: 88901

Other Identifiers: 12014293

Building Name: I B TIGRETT MIDDLE SCHOOL

Use: Schools

Latitude: 35.650231 **Longitude:** -88.813475

Sr: 0.253 **Sr:** 0.275

Screeener(s): Abdulrahman Abdulhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1964 1951

Total Floor Area (sq. ft.): 790 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor
Rock Rock Soil Soil Soil Soil
#DNK, assume Type D

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity):
 Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{1F}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (RR)	S2 (RR)	S3 (L)	S4 (RC SW)	S5 (RR BT)	C1 (SW)	C2 (SW)	C3 (LRC IN)	PC1 (L)	PC2	RM1 (R)	RM2 (R)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{1min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.4
FINAL LEVEL 1 SCORE, S_{1F} ≥ S_{1min}										2.2	2	0.9						

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{2F} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{2F} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM M = Unreinforced masonry mlf = Unreinforced masonry infill MH = Assembled Housing PD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.233 RVS form for Structure #145.3

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 716 WEST WOOD AV Zip: 88301

Other Identifiers: 12014204

Building Name: I B TIGRETT MIDDLE SCHOOL

Use: Schools

Latitude: 35.650707 **Longitude:** -98.813361

Sr: 0.253 **Sr:** 0.275

Screeener(s): Abdulrahman Abdulhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1964 1951

Total Floor Area (sq. ft.): 790 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor
Rock Rock Soil Soil Soil Soil
#DNK, assume Type D

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity):
 Plan (type):

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{1F}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (RR)	S2 (RR)	S3 (L)	S4 (RC SW)	S5 (RR BT)	C1 (SW)	C2 (SW)	C3 (LRC IN)	PC1 (L)	PC2	RM1 (R)	RM2 (R)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S_{1min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.4
FINAL LEVEL 1 SCORE, S_{1F} ≥ S_{1min}										2.2	2	0.9						

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{2F} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{2F} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM M = Unreinforced masonry mlf = Unreinforced masonry infill MH = Assembled Housing PD = Flexible diaphragm BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal LM = Rigid diaphragm

Figure J.234 RVS form for Structure #145.4

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 716 WEST WOOD AV Zip: 88301

Other Identifiers: 12014205

Building Name: I B TIGRETT MIDDLE SCHOOL

Use: Schools

Latitude: 35.650706 **Longitude:** -98.813257

Sr: 0.253 **Sr:** 0.275

Screeener(s): Abdulrahman Abdulhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1964 1951

Total Floor Area (sq. ft.): 790 **Code Year:** 1993

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor
Rock Rock Soil Soil Soil Soil
#DNK, assume Type D

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{1F}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (RR)	S2 (RR)	S3 (L)	S4 (RC SW)	S5 (RR BT)	C1 (SW)	C2 (SW)	C3 (RR IN)	PC1 (L)	PC2 (L)	RM1 (RR)	RM2 (RR)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{1min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.4
FINAL LEVEL 1 SCORE, S_{1F} ≥ S_{1min}										2.2	2	0.9						

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S₂ _____ No
Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S₂ > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM M = Unreinforced masonry mlf = Unreinforced masonry infill MH = Assembled Housing PD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.235 RVS form for Structure #145.5

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 716 WESTWOOD AV Zip: 88901

Other Identifiers: 12014206

Building Name: I B TIGRETT MIDDLE SCHOOL

Use: Schools

Latitude: 35.69087 **Longitude:** -88.813487

Sr: 0.253 **Sr:** 0.275

Screeener(s): Abdulrahman Abdulhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1964 1951

Total Floor Area (sq. ft.): 790 **Code Year:** 1993

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor
Rock Rock Soil Soil Soil Soil
#DNK, assume Type D

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{1F}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (RR)	S2 (RR)	S3 (L)	S4 (RC SW)	S5 (RR BT)	C1 (SW)	C2 (SW)	C3 (LRC IN)	PC1 (L)	PC2	RM1 (R)	RM2 (R)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.5	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{1min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.4
FINAL LEVEL 1 SCORE, S_{1F} ≥ S_{1min}										2.2	≥							0.9

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S₂ _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S₂ > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM = Unreinforced masonry infill MH = Asymmetric housing PD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.236 RVS form for Structure #146.6

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 716 WEST WOOD AV Zip: 88901

Other Identifiers: 12014297

Building Name: I B TIGRETT MIDDLE SCHOOL

Use: Schools

Latitude: 35.650104 **Longitude:** -88.81334E

Sr: 0.253 **Sr:** 0.275

Screeener(s): Abdulrahman Abdulhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1964 1951

Total Floor Area (sq. ft.): 790 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor
Rock Rock Soil Soil Soil Soil
#DNK, assume Type D

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity):
 Plan (type):

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{1F}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (RR)	S2 (RR)	S3 (L)	S4 (RC SW)	S5 (RR BT)	C1 (SW)	C2 (SW)	C3 (LRC IN)	PC1 (L)	PC2	RM1 (R)	RM2 (R)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S_{1min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.4
FINAL LEVEL 1 SCORE, S_{1F} ≥ S_{1min}		2.2 ≥ 0.9																

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S₂ _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S₂ > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM R = Unreinforced masonry infill MH = Asm. (solid) Masonry PD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.237 RVS form for Structure #145.7

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 905 E. CHESTER ST Zip: 88001

Other Identifiers: 12014600

Building Name: PARKVIEW LEARNING CENTER

Use: Schools

Latitude: 35.612576 **Longitude:** -101.890181

Sr: 0.73 **St:** 0.208

Screeener(s): Abdulrahman Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1994 EST

Total Floor Area (sq. ft.): 4496 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{1F}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF M)	PC1 (M)	PC2	RM1 (M)	RM2 (M)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.8	-0.6	-0.6	-0.6	-0.8	-0.8	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.4
FINAL LEVEL 1 SCORE, S_{1F} ≥ S_{min}							0.1	2	0.3									

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{2F} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{2F} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/degradation to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary


No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry mfr U = Tilt up MH = Assembled Housing PD = Flexible diaphragm BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.238 RVS form for Structure #146

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 1241 NORTH PARKWAY
Zip: 58104

Other Identifiers: 12014701

Building Name: NORTH PARKWAY MIDDLE SCHOOL (E)

Use: Schools

Latitude: 25.651237 **Longitude:** -88.811788

Sr: 0.255 **Sr:** 0.275

Screeener(s): Abdulrahman Abdulhadi **Data/Time:**

No. Stories: Above Grade: _____ Below Grade: _____ **Year Built:** 1974 551

Total Floor Area (sq. ft.): 18130 **Code Year:** 1993

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (RRF)	S2 (RRF)	S3 (RRF)	S4 (RRF SW)	S5 (RRF RT)	C1 (RRF)	C2 (RRF)	C3 (RRF IN)	PC1 (RRF)	PC2	RM1 (RRF)	RM2 (RRF)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	-0.8	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.6	0.9	0.5	0.9	0.9	0.6	0.6	0.7	0.9	0.7	0.6	0.8	0.6	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4
FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min}		0.0 ≥ 0.3																

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary


No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM M = Unreinforced masonry infill MH = Asymmetric Housing PD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.239 RVS form for Structure #147.1

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 1341 NORTH PARKWAY
Zip: 38104

Other Identifiers: 12014702

Building Name: NORTH PARKWAY MIDDLE SCHOOL (W)

Use: Schools

Latitude: 35.651237 **Longitude:** -89.811788

Sr: 0.255 **Sr:** 0.275

Screeener(s): Abdulrahman Abdulhadi **Data/Time:**

No. Stories: Above Grade: _____ Below Grade: _____ **Year Built:** 1974 1951

Total Floor Area (sq. ft.): 9316 **Code Year:** 1993

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF M)	PC1 (T)	PC2 (T)	RM1 (FD)	RM2 (FD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	-0.8	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4
FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min}		0.0 ≥ 0.3																

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Assembled Housing FD = Flexible diaphragm BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RM = Rigid diaphragm

Figure J.240 RVS form for Structure #147.2

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 2215 BRUCE BLVD RD Zip: 38301

Other Identifiers: TN014900

Building Name: ROSE HILL MIDDLE SCHOOL

Use: Schools

Latitude: 35.811559 **Longitude:** 88.769572

Sr: 0.716 **Sr:** 0.263

Screeners: Abdurrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1975 551

Total Floor Area (sq. ft.): 94521 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF M)	PC1 (TU)	PC2	RM1 (TU)	RM2 (TU)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.0 ≥ 0.3

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary


No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM = Unreinforced masonry infill MH = Assembled Housing PD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RM = Rigid diaphragm

Figure J.241 RVS form for Structure #148

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 3966 NORTH HIGHLAND
Zip: 58104

Other Identifiers: 12014901

Building Name: NORTH SIDE HIGH SCHOOL

Use: Schools

Latitude: 45.691346 **Longitude:** -98.828166

Sr: 0.764 **Sr:** 0.283

Screeners: Abdulrahman Abdulhadi **Date/Time:**

No. Stories: Above Grade: _____ Below Grade: _____ **Year Built:** 1963 EST

Total Floor Area (sq. ft.): 43200 **Code Year:** 1993

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF IN)	PC1 (T)	PC2	RM1 (M)	RM2 (M)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.4
FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min}		1.3 ≥ 0.5																

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary


No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry mfr IM = Insulated masonry IM = Light metal MH = Asbestos Hazardous Material (AHJ) FD = Flexible diaphragm RD = Rigid diaphragm SW = Shear wall TU = Tilt up

Figure J.242 RVS form for Structure #149.1

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 3966 NORTH HIGHLAND Zip: 58104

Other Identifiers: 12014902

Building Name: NORTH SIDE HIGH SCHOOL

Use: Schools

Latitude: 45.691454 **Longitude:** -98.82757

S₁: 0.764 **S₂:** 0.283

Screeners: Abdulrahman Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1963 EST

Total Floor Area (sq. ft.): 7383 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF IN)	PC1 (T)	PC2	RM1 (M)	RM2 (M)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.3	NA
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.5	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.4
FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min}		1.3 ≥ 0.5																

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry mfr LM = Light metal
BR = Braced frame SW = Shear wall TU = Tilt up MH = Assembled Housing PD = Flexible diaphragm
RD = Rigid diaphragm

Figure J.243 RVS form for Structure #149.2

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 3966 NORTH HIGHLAND Zip: 58104

Other Identifiers: 12014903

Building Name: NORTH SIDE HIGH SCHOOL

Use: Schools

Latitude: 45.691393 **Longitude:** -98.827005

Sr: 0.764 **Sr:** 0.283

Screeener(s): Abdulrahman Abdulhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1993 EST

Total Floor Area (sq. ft.): 13954 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF IN)	PC1 (TU)	PC2 (TU)	RM1 (FD)	RM2 (FD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.9	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.3	NA
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.5	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.6	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.4
FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min}		0.1	0	0.2														

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/degradation to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary


No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry mfr LM = Light metal MH = Assembled Housing FD = Flexible diaphragm RB = Rigid diaphragm BR = Braced frame SW = Shear wall TU = Tilt up

Figure J.244 RVS form for Structure #149.3

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 3966 NORTH HIGHLAND Zip: 58104

Other Identifiers: 12014904

Building Name: NORTH SIDE HIGH SCHOOL

Use: Schools

Latitude: 45.691829 **Longitude:** -98.82249E

Sr: 0.764 **Sr:** 0.283

Screeners: Abdulrahman Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1963 1951

Total Floor Area (sq. ft.): 1223 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF IN)	PC1 (T)	PC2	RM1 (M)	RM2 (M)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.6	0.9	0.5	0.9	0.9	0.6	0.6	0.7	0.9	0.7	0.6	0.8	0.6	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4
FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min}		3.3		2		1.6												

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/degradation to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary


No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Asm. column housing PD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.245 RVS form for Structure #149.4

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 3966 NORTH HIGHLAND Zip: 58104

Other Identifiers: 12014905

Building Name: NORTH SIDE HIGH SCHOOL

Use: Schools

Latitude: 45.692254 **Longitude:** -98.827028

Sr: 0.764 **Sr:** 0.283

Screeners: Abdulrahman Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1970 EST

Total Floor Area (sq. ft.): 5698 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF IN)	PC1 (TU)	PC2 (TU)	RM1 (PD)	RM2 (PD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.5	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.3 ≥ 1.3

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry mfr LM = Light metal MH = Asymmetric Housing PD = Flexible diaphragm BR = Braced frame SW = Shear wall TU = Tilt up RD = Rigid diaphragm

Figure J.246 RVS form for Structure #149.5

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 3966 NORTH HIGHLAND
Zip: 58104

Other Identifiers: 12014906

Building Name: NORTH SIDE HIGH SCHOOL

Use: Schools


Latitude: 45.692276 **Longitude:** -98.827901

Sr: 0.764 **Sr:** 0.283

Screeners: Abdulrahman Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1992 1991 1990 1989 1988 1987 1986 1985 1984 1983 1982 1981 1980 1979 1978 1977 1976 1975 1974 1973 1972 1971 1970 1969 1968 1967 1966 1965 1964 1963 1962 1961 1960 1959 1958 1957 1956 1955 1954 1953 1952 1951 1950 1949 1948 1947 1946 1945 1944 1943 1942 1941 1940 1939 1938 1937 1936 1935 1934 1933 1932 1931 1930 1929 1928 1927 1926 1925 1924 1923 1922 1921 1920 1919 1918 1917 1916 1915 1914 1913 1912 1911 1910 1909 1908 1907 1906 1905 1904 1903 1902 1901 1900 1899 1898 1897 1896 1895 1894 1893 1892 1891 1890 1889 1888 1887 1886 1885 1884 1883 1882 1881 1880 1879 1878 1877 1876 1875 1874 1873 1872 1871 1870 1869 1868 1867 1866 1865 1864 1863 1862 1861 1860 1859 1858 1857 1856 1855 1854 1853 1852 1851 1850 1849 1848 1847 1846 1845 1844 1843 1842 1841 1840 1839 1838 1837 1836 1835 1834 1833 1832 1831 1830 1829 1828 1827 1826 1825 1824 1823 1822 1821 1820 1819 1818 1817 1816 1815 1814 1813 1812 1811 1810 1809 1808 1807 1806 1805 1804 1803 1802 1801 1800 1799 1798 1797 1796 1795 1794 1793 1792 1791 1790 1789 1788 1787 1786 1785 1784 1783 1782 1781 1780 1779 1778 1777 1776 1775 1774 1773 1772 1771 1770 1769 1768 1767 1766 1765 1764 1763 1762 1761 1760 1759 1758 1757 1756 1755 1754 1753 1752 1751 1750 1749 1748 1747 1746 1745 1744 1743 1742 1741 1740 1739 1738 1737 1736 1735 1734 1733 1732 1731 1730 1729 1728 1727 1726 1725 1724 1723 1722 1721 1720 1719 1718 1717 1716 1715 1714 1713 1712 1711 1710 1709 1708 1707 1706 1705 1704 1703 1702 1701 1700 1699 1698 1697 1696 1695 1694 1693 1692 1691 1690 1689 1688 1687 1686 1685 1684 1683 1682 1681 1680 1679 1678 1677 1676 1675 1674 1673 1672 1671 1670 1669 1668 1667 1666 1665 1664 1663 1662 1661 1660 1659 1658 1657 1656 1655 1654 1653 1652 1651 1650 1649 1648 1647 1646 1645 1644 1643 1642 1641 1640 1639 1638 1637 1636 1635 1634 1633 1632 1631 1630 1629 1628 1627 1626 1625 1624 1623 1622 1621 1620 1619 1618 1617 1616 1615 1614 1613 1612 1611 1610 1609 1608 1607 1606 1605 1604 1603 1602 1601 1600 1599 1598 1597 1596 1595 1594 1593 1592 1591 1590 1589 1588 1587 1586 1585 1584 1583 1582 1581 1580 1579 1578 1577 1576 1575 1574 1573 1572 1571 1570 1569 1568 1567 1566 1565 1564 1563 1562 1561 1560 1559 1558 1557 1556 1555 1554 1553 1552 1551 1550 1549 1548 1547 1546 1545 1544 1543 1542 1541 1540 1539 1538 1537 1536 1535 1534 1533 1532 1531 1530 1529 1528 1527 1526 1525 1524 1523 1522 1521 1520 1519 1518 1517 1516 1515 1514 1513 1512 1511 1510 1509 1508 1507 1506 1505 1504 1503 1502 1501 1500 1499 1498 1497 1496 1495 1494 1493 1492 1491 1490 1489 1488 1487 1486 1485 1484 1483 1482 1481 1480 1479 1478 1477 1476 1475 1474 1473 1472 1471 1470 1469 1468 1467 1466 1465 1464 1463 1462 1461 1460 1459 1458 1457 1456 1455 1454 1453 1452 1451 1450 1449 1448 1447 1446 1445 1444 1443 1442 1441 1440 1439 1438 1437 1436 1435 1434 1433 1432 1431 1430 1429 1428 1427 1426 1425 1424 1423 1422 1421 1420 1419 1418 1417 1416 1415 1414 1413 1412 1411 1410 1409 1408 1407 1406 1405 1404 1403 1402 1401 1400 1399 1398 1397 1396 1395 1394 1393 1392 1391 1390 1389 1388 1387 1386 1385 1384 1383 1382 1381 1380 1379 1378 1377 1376 1375 1374 1373 1372 1371 1370 1369 1368 1367 1366 1365 1364 1363 1362 1361 1360 1359 1358 1357 1356 1355 1354 1353 1352 1351 1350 1349 1348 1347 1346 1345 1344 1343 1342 1341 1340 1339 1338 1337 1336 1335 1334 1333 1332 1331 1330 1329 1328 1327 1326 1325 1324 1323 1322 1321 1320 1319 1318 1317 1316 1315 1314 1313 1312 1311 1310 1309 1308 1307 1306 1305 1304 1303 1302 1301 1300 1299 1298 1297 1296 1295 1294 1293 1292 1291 1290 1289 1288 1287 1286 1285 1284 1283 1282 1281 1280 1279 1278 1277 1276 1275 1274 1273 1272 1271 1270 1269 1268 1267 1266 1265 1264 1263 1262 1261 1260 1259 1258 1257 1256 1255 1254 1253 1252 1251 1250 1249 1248 1247 1246 1245 1244 1243 1242 1241 1240 1239 1238 1237 1236 1235 1234 1233 1232 1231 1230 1229 1228 1227 1226 1225 1224 1223 1222 1221 1220 1219 1218 1217 1216 1215 1214 1213 1212 1211 1210 1209 1208 1207 1206 1205 1204 1203 1202 1201 1200 1199 1198 1197 1196 1195 1194 1193 1192 1191 1190 1189 1188 1187 1186 1185 1184 1183 1182 1181 1180 1179 1178 1177 1176 1175 1174 1173 1172 1171 1170 1169 1168 1167 1166 1165 1164 1163 1162 1161 1160 1159 1158 1157 1156 1155 1154 1153 1152 1151 1150 1149 1148 1147 1146 1145 1144 1143 1142 1141 1140 1139 1138 1137 1136 1135 1134 1133 1132 1131 1130 1129 1128 1127 1126 1125 1124 1123 1122 1121 1120 1119 1118 1117 1116 1115 1114 1113 1112 1111 1110 1109 1108 1107 1106 1105 1104 1103 1102 1101 1100 1099 1098 1097 1096 1095 1094 1093 1092 1091 1090 1089 1088 1087 1086 1085 1084 1083 1082 1081 1080 1079 1078 1077 1076 1075 1074 1073 1072 1071 1070 1069 1068 1067 1066 1065 1064 1063 1062 1061 1060 1059 1058 1057 1056 1055 1054 1053 1052 1051 1050 1049 1048 1047 1046 1045 1044 1043 1042 1041 1040 1039 1038 1037 1036 1035 1034 1033 1032 1031 1030 1029 1028 1027 1026 1025 1024 1023 1022 1021 1020 1019 1018 1017 1016 1015 1014 1013 1012 1011 1010 1009 1008 1007 1006 1005 1004 1003 1002 1001 1000 999 998 997 996 995 994 993 992 991 990 989 988 987 986 985 984 983 982 981 980 979 978 977 976 975 974 973 972 971 970 969 968 967 966 965 964 963 962 961 960 959 958 957 956 955 954 953 952 951 950 949 948 947 946 945 944 943 942 941 940 939 938 937 936 935 934 933 932 931 930 929 928 927 926 925 924 923 922 921 920 919 918 917 916 915 914 913 912 911 910 909 908 907 906 905 904 903 902 90

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 3966 NORTH HIGHLAND Zip: 58104

Other Identifiers: 12014907

Building Name: NORTH SIDE HIGH SCHOOL

Use: Schools

Latitude: 45.692577 **Longitude:** -98.828257

Sr: 0.785 **Sr:** 0.284

Screeners: Abdulrahman Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1970 1951

Total Floor Area (sq. ft.): 20678 **Code Year:** 1993

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF IN)	PC1 (T)	PC2	RM1 (M)	RM2 (M)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S_{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 1.4 ≥ 0.5

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No
Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary


No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Assembled Housing PD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.248 RVS form for Structure #149.7

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 3966 NORTH HIGHLAND Zip: 58104

Other Identifiers: 12014908

Building Name: NORTH SIDE HIGH SCHOOL

Use: Schools

Latitude: 45.691044 **Longitude:** -98.826621

Sr: 0.785 **Sr:** 0.284

Screeners: Abdulrahman Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1970 1951

Total Floor Area (sq. ft.): 47531 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF)	C1 (SW)	C2 (SW)	C3 (MRF)	PC1 (TU)	PC2 (TU)	RM1 (TU)	RM2 (TU)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.5	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4
FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min}		0.0 ≤ 0.3																

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry mfr LM = Light metal MH = Assembled Housing PD = Flexible diaphragm BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.249 RVS form for Structure #149.8

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 3966 NORTH HIGHLAND Zip: 58104

Other Identifiers: 12014909

Building Name: NORTH SIDE HIGH SCHOOL

Use: Schools

Latitude: 45.691319 **Longitude:** -98.828227

Sr: 0.764 **Sr:** 0.283

Screeners: Abdulrahman Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1970 2011

Total Floor Area (sq. ft.): 800 **Code Year:** 1993

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (MRF)	S4 (RC SW)	S5 (MRF)	C1 (SW)	C2 (SW)	C3 (MRF)	PC1 (TU)	PC2 (TU)	RM1 (PD)	RM2 (PD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.5	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.4
FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min}		2.2		2		0.9												

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM = Unreinforced masonry infill MH = Asymmetric Housing PD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RM = Rigid diaphragm

Figure J.250 RVS form for Structure #149.9

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 3966 NORTH HIGHLAND Zip: 58104

Other Identifiers: 12014910

Building Name: NORTH SIDE HIGH SCHOOL

Use: Schools

Latitude: 45.693319 **Longitude:** -98.82864

Sr: 0.785 **Sr:** 0.284

Screeener(s): Abdulrahman Abdulhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1970 EST

Total Floor Area (sq. ft.): 800 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{1F}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (MRF)	S4 (MRF)	S5 (MRF)	C1 (MRF)	C2 (MRF)	C3 (MRF)	PC1 (MRF)	PC2 (MRF)	RM1 (MRF)	RM2 (MRF)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.5	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.4
FINAL LEVEL 1 SCORE, S_{1F} ≥ S_{min}							2.2	2	0.8									

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{2F} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{2F} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry mfr LM = Light metal


BR = Braced frame SW = Shear wall TU = Tilt up MH = Assembled Housing PD = Flexible diaphragm RD = Rigid diaphragm

Figure J.251 RVS form for Structure #149.10

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 3066 NOREL HIGHLAND Zip: 58101

Other Identifiers: T24014911

Building Name: NORTH SHORE HIGH SCHOOL

Use: Schools

Latitude: 33.69322 **Longitude:** -98.87864

Sr: 0.785 **Sr:** 0.394

Screeners: Abdurahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1970 EST

Total Floor Area (sq. ft.): 800 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (MRF)	S4 (RC SW)	S5 (MRF)	C1 (MRF)	C2 (SW)	C3 (MRF)	PC1 (TU)	PC2	RM1 (PD)	RM2 (PD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.5	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 2.2 ≥ 0.9

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry mfr MH = Assembled Housing PD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.252 RVS form for Structure #149.11

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 3066 NOREL HIGHLAND Zip: 38104

Other Identifiers: TN018912

Building Name: NORTHSHORE HIGH SCHOOL

Use: Schools

Latitude: 35.693224 **Longitude:** -88.876199

S: 0.785 **Sz:** 0.394

Screeners: Abdurahman Abdelhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1970 EST

Total Floor Area (sq. ft.): 800 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (MRF)	S4 (RC SW)	S5 (MRF)	C1 (SW)	C2 (SW)	C3 (MRF)	PC1 (TU)	PC2	RM1 (PD)	RM2 (PD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.5	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} **2.2** ≥ **0.9**

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry mfr MH = Assembled Housing PD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.253 RVS form for Structure #149.12

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 175 ALLEN AVE Zip: 38101

Other Identifiers: TN015000

Building Name: JACKSON CENTRAL-MERRY LARRY COLLEGE

Use: Schools

Latitude: 35.626145 **Longitude:** -88.815874

Sr: 0.244 **Sr:** 0.272

Screeners: Abdelrahman Abdelhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 2003 est

Total Floor Area (sq. ft.): 40750 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF IN)	PC1 (T)	PC2 (T)	RM1 (FD)	RM2 (FD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	NA	1.2	
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 3.2 ≥ 0.3

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry mfr LM = Light metal
BR = Braced frame SW = Shear wall TU = Tilt up MH = Assembled Housing FD = Flexible diaphragm RD = Rigid diaphragm

Figure J.254 RVS form for Structure #150

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 1470 ASHFORD RD Zip: 38104

Other Identifiers: TN01500

Building Name: EUGENIA BARKER ELEMENTARY

Use: Schools

Latitude: 35.716854 **Longitude:** -88.814912

S: 0.803 **Sz:** 0.289

Screeener(s): Abdelrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1992 EST

Total Floor Area (sq. ft.): 79450 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF IN)	PC1 (T)	PC2 (T)	RM1 (FD)	RM2 (FD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	NA	1.2	
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 3.2 ≥ 0.3

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry mfr LM = Light metal MH = Assembled Housing PD = Flexible diaphragm BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.255 RVS form for Structure #151

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 423 BERRY ST Zip: 38104

Other Identifiers: TN015100

Building Name: LINCOLN MAGNET SCHOOL FOR MATHEMATICS

Use: Schools

Latitude: 35.629776 **Longitude:** -88.821653

Sr: 0.24 **St:** 0.271

Screeners: Abdelrahman Abdelhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1971 EST

Total Floor Area (sq. ft.): 53163 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (RRF)	S2 (RRF)	S3 (RM)	S4 (RC SW)	S5 (RRF RT)	C1 (SW)	C2 (SW)	C3 (LIVE IN)	PC1 (TV)	PC2	RM1 (RM)	RM2 (RM)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.5	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.6	0.9	0.5	0.9	0.9	0.6	0.6	0.7	0.9	0.7	0.6	0.8	0.6	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.6	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} < 0.1 < 0.3

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM = Unreinforced masonry infill MH = Assembled Housing PD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RM = Rigid diaphragm

Figure J.256 RVS form for Structure #152

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 2480 ASHFORD RD Zip: 38105

Other Identifiers: TN015301

Building Name: BASE ELEMENTARY SCHOOL

Use: Schools

Latitude: 35.720647 **Longitude:** -88.759947

S: 0.369 **Sr:** 0.279


Screeener(s): Abdelrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1992 1991 1990 1989 1988 1987 1986 1985 1984 1983 1982 1981 1980 1979 1978 1977 1976 1975 1974 1973 1972 1971 1970 1969 1968 1967 1966 1965 1964 1963 1962 1961 1960 1959 1958 1957 1956 1955 1954 1953 1952 1951 1950 1949 1948 1947 1946 1945 1944 1943 1942 1941 1940 1939 1938 1937 1936 1935 1934 1933 1932 1931 1930 1929 1928 1927 1926 1925 1924 1923 1922 1921 1920 1919 1918 1917 1916 1915 1914 1913 1912 1911 1910 1909 1908 1907 1906 1905 1904 1903 1902 1901 1900 1899 1898 1897 1896 1895 1894 1893 1892 1891 1890 1889 1888 1887 1886 1885 1884 1883 1882 1881 1880 1879 1878 1877 1876 1875 1874 1873 1872 1871 1870 1869 1868 1867 1866 1865 1864 1863 1862 1861 1860 1859 1858 1857 1856 1855 1854 1853 1852 1851 1850 1849 1848 1847 1846 1845 1844 1843 1842 1841 1840 1839 1838 1837 1836 1835 1834 1833 1832 1831 1830 1829 1828 1827 1826 1825 1824 1823 1822 1821 1820 1819 1818 1817 1816 1815 1814 1813 1812 1811 1810 1809 1808 1807 1806 1805 1804 1803 1802 1801 1800 1799 1798 1797 1796 1795 1794 1793 1792 1791 1790 1789 1788 1787 1786 1785 1784 1783 1782 1781 1780 1779 1778 1777 1776 1775 1774 1773 1772 1771 1770 1769 1768 1767 1766 1765 1764 1763 1762 1761 1760 1759 1758 1757 1756 1755 1754 1753 1752 1751 1750 1749 1748 1747 1746 1745 1744 1743 1742 1741 1740 1739 1738 1737 1736 1735 1734 1733 1732 1731 1730 1729 1728 1727 1726 1725 1724 1723 1722 1721 1720 1719 1718 1717 1716 1715 1714 1713 1712 1711 1710 1709 1708 1707 1706 1705 1704 1703 1702 1701 1700 1699 1698 1697 1696 1695 1694 1693 1692 1691 1690 1689 1688 1687 1686 1685 1684 1683 1682 1681 1680 1679 1678 1677 1676 1675 1674 1673 1672 1671 1670 1669 1668 1667 1666 1665 1664 1663 1662 1661 1660 1659 1658 1657 1656 1655 1654 1653 1652 1651 1650 1649 1648 1647 1646 1645 1644 1643 1642 1641 1640 1639 1638 1637 1636 1635 1634 1633 1632 1631 1630 1629 1628 1627 1626 1625 1624 1623 1622 1621 1620 1619 1618 1617 1616 1615 1614 1613 1612 1611 1610 1609 1608 1607 1606 1605 1604 1603 1602 1601 1600 1599 1598 1597 1596 1595 1594 1593 1592 1591 1590 1589 1588 1587 1586 1585 1584 1583 1582 1581 1580 1579 1578 1577 1576 1575 1574 1573 1572 1571 1570 1569 1568 1567 1566 1565 1564 1563 1562 1561 1560 1559 1558 1557 1556 1555 1554 1553 1552 1551 1550 1549 1548 1547 1546 1545 1544 1543 1542 1541 1540 1539 1538 1537 1536 1535 1534 1533 1532 1531 1530 1529 1528 1527 1526 1525 1524 1523 1522 1521 1520 1519 1518 1517 1516 1515 1514 1513 1512 1511 1510 1509 1508 1507 1506 1505 1504 1503 1502 1501 1500 1499 1498 1497 1496 1495 1494 1493 1492 1491 1490 1489 1488 1487 1486 1485 1484 1483 1482 1481 1480 1479 1478 1477 1476 1475 1474 1473 1472 1471 1470 1469 1468 1467 1466 1465 1464 1463 1462 1461 1460 1459 1458 1457 1456 1455 1454 1453 1452 1451 1450 1449 1448 1447 1446 1445 1444 1443 1442 1441 1440 1439 1438 1437 1436 1435 1434 1433 1432 1431 1430 1429 1428 1427 1426 1425 1424 1423 1422 1421 1420 1419 1418 1417 1416 1415 1414 1413 1412 1411 1410 1409 1408 1407 1406 1405 1404 1403 1402 1401 1400 1399 1398 1397 1396 1395 1394 1393 1392 1391 1390 1389 1388 1387 1386 1385 1384 1383 1382 1381 1380 1379 1378 1377 1376 1375 1374 1373 1372 1371 1370 1369 1368 1367 1366 1365 1364 1363 1362 1361 1360 1359 1358 1357 1356 1355 1354 1353 1352 1351 1350 1349 1348 1347 1346 1345 1344 1343 1342 1341 1340 1339 1338 1337 1336 1335 1334 1333 1332 1331 1330 1329 1328 1327 1326 1325 1324 1323 1322 1321 1320 1319 1318 1317 1316 1315 1314 1313 1312 1311 1310 1309 1308 1307 1306 1305 1304 1303 1302 1301 1300 1299 1298 1297 1296 1295 1294 1293 1292 1291 1290 1289 1288 1287 1286 1285 1284 1283 1282 1281 1280 1279 1278 1277 1276 1275 1274 1273 1272 1271 1270 1269 1268 1267 1266 1265 1264 1263 1262 1261 1260 1259 1258 1257 1256 1255 1254 1253 1252 1251 1250 1249 1248 1247 1246 1245 1244 1243 1242 1241 1240 1239 1238 1237 1236 1235 1234 1233 1232 1231 1230 1229 1228 1227 1226 1225 1224 1223 1222 1221 1220 1219 1218 1217 1216 1215 1214 1213 1212 1211 1210 1209 1208 1207 1206 1205 1204 1203 1202 1201 1200 1199 1198 1197 1196 1195 1194 1193 1192 1191 1190 1189 1188 1187 1186 1185 1184 1183 1182 1181 1180 1179 1178 1177 1176 1175 1174 1173 1172 1171 1170 1169 1168 1167 1166 1165 1164 1163 1162 1161 1160 1159 1158 1157 1156 1155 1154 1153 1152 1151 1150 1149 1148 1147 1146 1145 1144 1143 1142 1141 1140 1139 1138 1137 1136 1135 1134 1133 1132 1131 1130 1129 1128 1127 1126 1125 1124 1123 1122 1121 1120 1119 1118 1117 1116 1115 1114 1113 1112 1111 1110 1109 1108 1107 1106 1105 1104 1103 1102 1101 1100 1099 1098 1097 1096 1095 1094 1093 1092 1091 1090 1089 1088 1087 1086 1085 1084 1083 1082 1081 1080 1079 1078 1077 1076 1075 1074 1073 1072 1071 1070 1069 1068 1067 1066 1065 1064 1063 1062 1061 1060 1059 1058 1057 1056 1055 1054 1053 1052 1051 1050 1049 1048 1047 1046 1045 1044 1043 1042 1041 1040 1039 1038 1037 1036 1035 1034 1033 1032 1031 1030 1029 1028 1027 1026 1025 1024 1023 1022 1021 1020 1019 1018 1017 1016 1015 1014 1013 1012 1011 1010 1009 1008 1007 1006 1005 1004 1003 1002 1001 1000 999 998 997 996 995 994 993 992 991 990 989 988 987 986 985 984 983 982 981 980 979 978 977 976 975 974 973 972 971 970 969 968 967 966 965 964 963 962 961 960 959 958 957 956 955 954 953 952 951 950 949 948 947 946 945 944 943 942 941 940 939 938 937 936 935 934 933 932 931 930 929 928 927 926 925 924 923 922 921 920 919 918 917 916 915 914 913 912 911 910 909 908 907 906 905 904 903 902 901 900 899 898

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 2480 ASHFORD RD Zip: 38104

Other Identifiers: TN015302

Building Name: BASE ELEMENTARY SCHOOL

Use: Schools

Latitude: 35.722747 **Longitude:** -88.75485

Sr: 0.369 **Sr:** 0.279

Screeners: Abdelrahman Abdelhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1992 EST

Total Floor Area (sq. ft.): 733 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (IAC)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (SRC IN)	PC1 (TU)	PC2	RM1 (FD)	RM2 (FD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.0	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 3.8 ≥ 0.9

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry mfr LM = Light metal
BR = Braced frame SW = Shear wall TU = Tilt up MH = Assembled Housing FD = Flexible diaphragm RD = Rigid diaphragm

Figure J.258 RVS form for Structure #153.2

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 2480 ASHFORD RD Zip: 38104

Other Identifiers: TN015303

Building Name: BASE ELEMENTARY SCHOOL

Use: Schools

Latitude: 35.722747 **Longitude:** -88.75485

Sr: 0.369 **Sr:** 0.279

Screeener(s): Abdelrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1992 EST

Total Floor Area (sq. ft.): Two **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (RRF)	S2 (RRF)	S3 (RRF)	S4 (RRF SW)	S5 (RRF BT)	C1 (RRF)	C2 (RRF)	C3 (RRF IN)	PC1 (TU)	PC2	RM1 (RR)	RM2 (RR)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.0	1.9	NA	1.5	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 3.8 ≥ 0.9

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Assembled Housing PD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.259 RVS form for Structure #153.3

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 2480 ASHFORD RD Zip: 38104

Other Identifiers: TN015304

Building Name: BASE ELEMENTARY SCHOOL

Use: Schools

Latitude: 35.722747 **Longitude:** -88.75485

Sr: 0.369 **Sr:** 0.279

Screeners: Abdelrahman Abdelhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1992 EST

Total Floor Area (sq. ft.): 785 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (RRF)	S2 (RRF)	S3 (RRF)	S4 (RRF SW)	S5 (RRF RT)	C1 (RRF)	C2 (RRF)	C3 (RRF IN)	PC1 (TU)	PC2 (TU)	RM1 (RR)	RM2 (RR)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.0	1.9	NA	1.5	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 3.8 ≥ 0.9

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial

Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/degradation to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Assembled Housing PD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.260 RVS form for Structure #153.4

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 2480 ASHFORD RD Zip: 38105

Other Identifiers: TN015305

Building Name: BASE ELEMENTARY SCHOOL

Use: Schools

Latitude: 35.720468 **Longitude:** -88.755114

Sr: 0.369 **Sr:** 0.279


Screeners: Abdelrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1992 1991 1990 1989 1988 1987 1986 1985 1984 1983 1982 1981 1980 1979 1978 1977 1976 1975 1974 1973 1972 1971 1970 1969 1968 1967 1966 1965 1964 1963 1962 1961 1960 1959 1958 1957 1956 1955 1954 1953 1952 1951 1950 1949 1948 1947 1946 1945 1944 1943 1942 1941 1940 1939 1938 1937 1936 1935 1934 1933 1932 1931 1930 1929 1928 1927 1926 1925 1924 1923 1922 1921 1920 1919 1918 1917 1916 1915 1914 1913 1912 1911 1910 1909 1908 1907 1906 1905 1904 1903 1902 1901 1900 1899 1898 1897 1896 1895 1894 1893 1892 1891 1890 1889 1888 1887 1886 1885 1884 1883 1882 1881 1880 1879 1878 1877 1876 1875 1874 1873 1872 1871 1870 1869 1868 1867 1866 1865 1864 1863 1862 1861 1860 1859 1858 1857 1856 1855 1854 1853 1852 1851 1850 1849 1848 1847 1846 1845 1844 1843 1842 1841 1840 1839 1838 1837 1836 1835 1834 1833 1832 1831 1830 1829 1828 1827 1826 1825 1824 1823 1822 1821 1820 1819 1818 1817 1816 1815 1814 1813 1812 1811 1810 1809 1808 1807 1806 1805 1804 1803 1802 1801 1800 1799 1798 1797 1796 1795 1794 1793 1792 1791 1790 1789 1788 1787 1786 1785 1784 1783 1782 1781 1780 1779 1778 1777 1776 1775 1774 1773 1772 1771 1770 1769 1768 1767 1766 1765 1764 1763 1762 1761 1760 1759 1758 1757 1756 1755 1754 1753 1752 1751 1750 1749 1748 1747 1746 1745 1744 1743 1742 1741 1740 1739 1738 1737 1736 1735 1734 1733 1732 1731 1730 1729 1728 1727 1726 1725 1724 1723 1722 1721 1720 1719 1718 1717 1716 1715 1714 1713 1712 1711 1710 1709 1708 1707 1706 1705 1704 1703 1702 1701 1700 1699 1698 1697 1696 1695 1694 1693 1692 1691 1690 1689 1688 1687 1686 1685 1684 1683 1682 1681 1680 1679 1678 1677 1676 1675 1674 1673 1672 1671 1670 1669 1668 1667 1666 1665 1664 1663 1662 1661 1660 1659 1658 1657 1656 1655 1654 1653 1652 1651 1650 1649 1648 1647 1646 1645 1644 1643 1642 1641 1640 1639 1638 1637 1636 1635 1634 1633 1632 1631 1630 1629 1628 1627 1626 1625 1624 1623 1622 1621 1620 1619 1618 1617 1616 1615 1614 1613 1612 1611 1610 1609 1608 1607 1606 1605 1604 1603 1602 1601 1600 1599 1598 1597 1596 1595 1594 1593 1592 1591 1590 1589 1588 1587 1586 1585 1584 1583 1582 1581 1580 1579 1578 1577 1576 1575 1574 1573 1572 1571 1570 1569 1568 1567 1566 1565 1564 1563 1562 1561 1560 1559 1558 1557 1556 1555 1554 1553 1552 1551 1550 1549 1548 1547 1546 1545 1544 1543 1542 1541 1540 1539 1538 1537 1536 1535 1534 1533 1532 1531 1530 1529 1528 1527 1526 1525 1524 1523 1522 1521 1520 1519 1518 1517 1516 1515 1514 1513 1512 1511 1510 1509 1508 1507 1506 1505 1504 1503 1502 1501 1500 1499 1498 1497 1496 1495 1494 1493 1492 1491 1490 1489 1488 1487 1486 1485 1484 1483 1482 1481 1480 1479 1478 1477 1476 1475 1474 1473 1472 1471 1470 1469 1468 1467 1466 1465 1464 1463 1462 1461 1460 1459 1458 1457 1456 1455 1454 1453 1452 1451 1450 1449 1448 1447 1446 1445 1444 1443 1442 1441 1440 1439 1438 1437 1436 1435 1434 1433 1432 1431 1430 1429 1428 1427 1426 1425 1424 1423 1422 1421 1420 1419 1418 1417 1416 1415 1414 1413 1412 1411 1410 1409 1408 1407 1406 1405 1404 1403 1402 1401 1400 1399 1398 1397 1396 1395 1394 1393 1392 1391 1390 1389 1388 1387 1386 1385 1384 1383 1382 1381 1380 1379 1378 1377 1376 1375 1374 1373 1372 1371 1370 1369 1368 1367 1366 1365 1364 1363 1362 1361 1360 1359 1358 1357 1356 1355 1354 1353 1352 1351 1350 1349 1348 1347 1346 1345 1344 1343 1342 1341 1340 1339 1338 1337 1336 1335 1334 1333 1332 1331 1330 1329 1328 1327 1326 1325 1324 1323 1322 1321 1320 1319 1318 1317 1316 1315 1314 1313 1312 1311 1310 1309 1308 1307 1306 1305 1304 1303 1302 1301 1300 1299 1298 1297 1296 1295 1294 1293 1292 1291 1290 1289 1288 1287 1286 1285 1284 1283 1282 1281 1280 1279 1278 1277 1276 1275 1274 1273 1272 1271 1270 1269 1268 1267 1266 1265 1264 1263 1262 1261 1260 1259 1258 1257 1256 1255 1254 1253 1252 1251 1250 1249 1248 1247 1246 1245 1244 1243 1242 1241 1240 1239 1238 1237 1236 1235 1234 1233 1232 1231 1230 1229 1228 1227 1226 1225 1224 1223 1222 1221 1220 1219 1218 1217 1216 1215 1214 1213 1212 1211 1210 1209 1208 1207 1206 1205 1204 1203 1202 1201 1200 1199 1198 1197 1196 1195 1194 1193 1192 1191 1190 1189 1188 1187 1186 1185 1184 1183 1182 1181 1180 1179 1178 1177 1176 1175 1174 1173 1172 1171 1170 1169 1168 1167 1166 1165 1164 1163 1162 1161 1160 1159 1158 1157 1156 1155 1154 1153 1152 1151 1150 1149 1148 1147 1146 1145 1144 1143 1142 1141 1140 1139 1138 1137 1136 1135 1134 1133 1132 1131 1130 1129 1128 1127 1126 1125 1124 1123 1122 1121 1120 1119 1118 1117 1116 1115 1114 1113 1112 1111 1110 1109 1108 1107 1106 1105 1104 1103 1102 1101 1100 1099 1098 1097 1096 1095 1094 1093 1092 1091 1090 1089 1088 1087 1086 1085 1084 1083 1082 1081 1080 1079 1078 1077 1076 1075 1074 1073 1072 1071 1070 1069 1068 1067 1066 1065 1064 1063 1062 1061 1060 1059 1058 1057 1056 1055 1054 1053 1052 1051 1050 1049 1048 1047 1046 1045 1044 1043 1042 1041 1040 1039 1038 1037 1036 1035 1034 1033 1032 1031 1030 1029 1028 1027 1026 1025 1024 1023 1022 1021 1020 1019 1018 1017 1016 1015 1014 1013 1012 1011 1010 1009 1008 1007 1006 1005 1004 1003 1002 1001 1000 999 998 997 996 995 994 993 992 991 990 989 988 987 986 985 984 983 982 981 980 979 978 977 976 975 974 973 972 971 970 969 968 967 966 965 964 963 962 961 960 959 958 957 956 955 954 953 952 951 950 949 948 947 946 945 944 943 942 941 940 939 938 937 936 935 934 933 932 931 930 929 928 927 926 925 924 923 922 921 920 919 918 917 916 915 914 913 912 911 910 909 908 907 906 905 904 903 902 901 900 899 898

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 746 LEXINGTON ST Zip: 38101

Other Identifiers: TN015400

Building Name: ISAAC LANETHRINOLOGY MAGNET ELEMENTARY

Use: Schools

Latitude: 35.622595 **Longitude:** -88.768667

Sr: 0.731 **Sr:** 0.369

Screeners: Abdurahman Abdelhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1961 EST

Total Floor Area (sq. ft.): 87470 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (RR?)	S2 (RR?)	S3 (I, K)	S4 (RC (RR) SW)	S5 (RR) (R)	C1 (SW)	C2 (SW)	C3 (RR) (R)	PC1 (TU)	PC2 (TU)	RM1 (RR)	RM2 (RR)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	-0.8	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.0 ≥ 0.3

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry mfr U = Tilt up MH = Assembled Housing PD = Flexible diaphragm BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.262 RVS form for Structure #154

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 370 RUDOLPHS ROAD EXTENDED
Zip: 38104

Other Identifiers: TN015501

Building Name: LIBERTY TECHNOLOGY MAGNET HIGH SCHOOL

Use: Schools

Latitude: 35.675207 **Longitude:** -88.759493

S: 0.246 **Sr:** 0.273

Screeners: Abdelrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: _____ Below Grade: _____ **Year Built:** 1975 EST

Total Floor Area (sq. ft.): 99485 **Code Year:** 1993

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor
Rock Rock Soil Soil Soil Soil
#DNK, assume Type D

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF IN)	PC1 (TU)	PC2 (TU)	RM1 (PD)	RM2 (PD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.5	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.6	0.9	0.5	0.9	0.9	0.6	0.6	0.7	0.9	0.7	0.6	0.8	0.6	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.6	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.0 < 0.3

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/degradation to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Assembled Housing PD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.263 RVS form for Structure #155.1

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 370 RUDOLPHS ROAD EXTENDED
Zip: 38104

Other Identifiers: TN01550

Building Name: LIBERTY TECHNOLOGY MAGNET HIGH SCHOOL

Use: Schools

Latitude: 35.67313 **Longitude:** -88.751612

Sr: 0.246 **Sr:** 0.273

Screeners: Abdelrahman Abdelhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1975 551

Total Floor Area (sq. ft.): 5987 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity):
 Plan (type):

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{1F}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF IN)	PC1 (TU)	PC2 (TU)	RM1 (FD)	RM2 (FD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.5	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.6	0.9	0.5	0.9	0.9	0.6	0.6	0.7	0.9	0.7	0.6	0.8	0.6	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{1min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{1F} ≥ S_{1min} 1.9 ≥ 0.3

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S₂ _____ No
Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S₂ > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM = Unreinforced masonry infill MH = Assembled Housing FD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.264 RVS form for Structure #155.2

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 370 RUDOLPHS ROAD EXTENDED
Zip: 38105

Other Identifiers: TN015503

Building Name: LIBERTY TECHNOLOGY MAGNET HIGH SCHOOL

Use: Schools

Latitude: 35.675003 **Longitude:** -88.759114

S: 0.246 **Sz:** 0.273

Screeners: Abdelrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1975 551

Total Floor Area (sq. ft.): 1174 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity):
 Plan (type):

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{1F}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF IN)	PC1 (TU)	PC2	RM1 (FD)	RM2 (FD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.5	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{1min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.4

FINAL LEVEL 1 SCORE, S_{1F} ≥ S_{1min} 2.2 ≥ 0.8

EXTENT OF REVIEW	OTHER HAZARDS	ACTION REQUIRED
Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____	Are There Hazards That Trigger A Detailed Structural Evaluation? <input type="checkbox"/> Pounding potential (unless S _{1F} > out-of, if known) <input type="checkbox"/> Falling hazards from taller adjacent building <input type="checkbox"/> Geologic hazards or Soil Type F <input type="checkbox"/> Significant damage/deterioration to the structural system	Detailed Structural Evaluation Required? <input type="checkbox"/> Yes, unknown FEMA building type or other building <input type="checkbox"/> Yes, score less than out-of <input type="checkbox"/> Yes, other hazards present <input type="checkbox"/> No Detailed Nonstructural Evaluation Recommended? (check one) <input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated <input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary <input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK
LEVEL 2 SCREENING PERFORMED? <input type="checkbox"/> Yes, Final Level 2 Score, S _{2F} _____ <input type="checkbox"/> No Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No	Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know	


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Assembled Housing FD = Flexible diaphragm
 BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.265 RVS form for Structure #155.3

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 370 R. DOLBERT ROAD EXTENDED
Zip: 38104

Other Identifiers: TN015504

Building Name: LIBERTY TECHNOLOGY MAGNET HIGH SCHOOL

Use: Schools

Latitude: 35.674519 **Longitude:** -88.759033

S₁: 0.246 **S₂:** 0.273

Screeener(s): Abdelrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1975 551

Total Floor Area (sq. ft.): 1174 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity):
 Plan (type):

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{1F}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF M)	C1 (SW)	C2 (SW)	C3 (MRF M)	PC1 (M)	PC2	RM1 (M)	RM2 (M)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.5	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{1min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{1F} ≥ S_{1min} 2.2 ≥ 0.8

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S₂ _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S₂ > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry mfr LM = Light metal MH = Assembled Housing PD = Flexible diaphragm BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.266 RVS form for Structure #155.4

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 370 R. DOLBERT ROAD EXTENDED
Zip: 38105

Other Identifiers: TN015505

Building Name: LIBERTY TECHNOLOGY MAGNET HIGH SCHOOL

Use: Schools

Latitude: 35.674519 **Longitude:** -88.759033

S: 0.246 **Sz:** 0.273

Screeners: Abdelrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1975 551

Total Floor Area (sq. ft.): 1174 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity):
 Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF IN)	PC1 (TU)	PC2	RM1 (FD)	RM2 (FD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.6	0.9	0.5	0.9	0.9	0.6	0.6	0.7	0.9	0.7	0.6	0.8	0.6	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.6	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 2.2 ≥ 0.8

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Assembled Housing FD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.267 RVS form for Structure #155.5

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 370 RUDOLPHS ROAD EXTENDED
Zip: 38104

Other Identifiers: TN015506

Building Name: LIBERTY TECHNOLOGY MAGNET HIGH SCHOOL

Use: Schools

Latitude: 35.674471 **Longitude:** -88.758158

S: 0.246 **Sr:** 0.273

Screeener(s): Abdelrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1975 551

Total Floor Area (sq. ft.): 5592 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor
Rock Rock Soil Soil Soil Soil
#DNK, assume Type D

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity):
 Plan (type):

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (RRF)	S2 (RRF)	S3 (RRF)	S4 (RRF SW)	S5 (RRF RT)	C1 (RRF)	C2 (RRF)	C3 (RRF IN)	PC1 (TU)	PC2 (TU)	RM1 (RR)	RM2 (RR)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.5	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.6	0.9	0.5	0.9	0.9	0.6	0.6	0.7	0.9	0.7	0.6	0.8	0.6	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.6	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 1.9 ≥ 0.3

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM = Unreinforced masonry infill MH = Assembled Housing PD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.268 RVS form for Structure #155.6

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 900 N HIGHLAND AV Zip: 38101

Other Identifiers: TN015620

Building Name: ALEXANDER MICRO-SOCIETY MAGNET ELEMENT

Use: Schools

Latitude: 35.629702 **Longitude:** -88.816914

S: 0.246 **Sz:** 0.273

Screeners: Abdelrahman Abdelhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1941 EST

Total Floor Area (sq. ft.): 58200 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity)
 Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (RRF)	S2 (RRF)	S3 (I _h)	S4 (RC (RRF SW))	S5 (RRF (R _h))	C1 (SW)	C2 (SW)	C3 (URR (R _h))	PC1 (TU)	PC2	RM1 (R _h)	RM2 (R _h)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.6	0.9	0.5	0.9	0.9	0.6	0.6	0.7	0.9	0.7	0.6	0.8	0.6	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.6	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.0 ≤ **0.2**

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM R/F = Unreinforced masonry infill MH = Assembled Housing PD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.269 RVS form for Structure #156

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH

SKETCH

Address: 230 D St Zip: 38101

Other Identifiers: TN015701

Building Name: THE MONTESSORI ELEMENTARY SCHOOL AT B

Use: Schools

Latitude: 35.379726 Longitude: -88.810918

Sr: 0.225 Sr: 0.367

Screener(s): Abdelrahman Abdelhadi Date/Time:

No. Stories: Above Grade: Below Grade: Year Built: 1961 2011

Total Floor Area (sq. ft.): 9712 Code Year: 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (URC IN)	PC1 (TU)	PC2 (TU)	RM1 (PD)	RM2 (PD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.6	0.9	0.5	0.9	0.9	0.6	0.6	0.7	0.9	0.7	0.6	0.8	0.6	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.6	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.0 **0.2**

EXTENT OF REVIEW	OTHER HAZARDS	ACTION REQUIRED
Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____	Are There Hazards That Trigger A Detailed Structural Evaluation? <input type="checkbox"/> Pounding potential (unless S _{L1} > out-of, if known) <input type="checkbox"/> Falling hazards from taller adjacent building <input type="checkbox"/> Geologic hazards or Soil Type F <input type="checkbox"/> Significant damage/deterioration to the structural system	Detailed Structural Evaluation Required? <input type="checkbox"/> Yes, unknown FEMA building type or other building <input type="checkbox"/> Yes, score less than out-of <input type="checkbox"/> Yes, other hazards present <input type="checkbox"/> No Detailed Nonstructural Evaluation Recommended? (check one) <input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated <input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary <input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK
LEVEL 2 SCREENING PERFORMED? <input type="checkbox"/> Yes, Final Level 2 Score, S _{L2} _____ <input type="checkbox"/> No Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No	Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know	

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Assembled Housing PD = Flexible diaphragm
 BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.270 RVS form for Structure #157.1

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH

SKETCH

Address: 230 D St Zip: 38104

Other Identifiers: TN015702

Building Name: THE MONTESSORI ELEMENTARY SCHOOL AT B

Use: Schools

Latitude: 35.37971 Longitude: -88.879573

Sr: 0.225 St: 0.367

Screener(s): Abdelrahman Abdelhadi Date/Time:

No. Stories: Above Grade: Below Grade: Year Built: 1961 2011

Total Floor Area (sq. ft.): 14533 Code Year: 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF M)	C1 (SW)	C2 (SW)	C3 (MRF M)	PC1 (TU)	PC2 (TU)	RM1 (PD)	RM2 (PD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.6	0.9	0.5	0.9	0.9	0.6	0.6	0.7	0.9	0.7	0.6	0.8	0.6	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.6	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.0 **0.2**

EXTENT OF REVIEW	OTHER HAZARDS	ACTION REQUIRED
Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____	Are There Hazards That Trigger A Detailed Structural Evaluation? <input type="checkbox"/> Pounding potential (unless S _{L1} > out-of, if known) <input type="checkbox"/> Falling hazards from taller adjacent building <input type="checkbox"/> Geologic hazards or Soil Type F <input type="checkbox"/> Significant damage/deterioration to the structural system	Detailed Structural Evaluation Required? <input type="checkbox"/> Yes, unknown FEMA building type or other building <input type="checkbox"/> Yes, score less than out-of <input type="checkbox"/> Yes, other hazards present <input type="checkbox"/> No Detailed Nonstructural Evaluation Recommended? (check one) <input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated <input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary <input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK
LEVEL 2 SCREENING PERFORMED? <input type="checkbox"/> Yes, Final Level 2 Score, S _{L2} _____ <input type="checkbox"/> No Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No	Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know	

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Assembled Housing PD = Flexible diaphragm
 BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.271 RVS form for Structure #157.2

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH

SKETCH

Address: 230 D St Zip: 38104

Other Identifiers: TN015705

Building Name: THE MONTESSORI ELEMENTARY SCHOOL AT B

Use: Schools

Latitude: 35.379837 Longitude: -88.879178

Sr: 0.225 Ss: 0.367

Screener(s): Abdelrahman Abdelhadi Date/Time:

No. Stories: Above Grade: Below Grade: Year Built: 1961 201

Total Floor Area (sq. ft.): 16065 Code Year: 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A Hard Rock B Avg. Rock C Dense Soil D Silt Soil E Soft Soil F Poor Soil DNK #DNK, assume Type D

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (RRF)	S2 (RRF)	S3 (I _h)	S4 (RC SW)	S5 (RRF R _f)	C1 (SW)	C2 (SW)	C3 (URR IN)	PC1 (TU)	PC2	RM1 (FD)	RM2 (FD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.0 **0.2**

<p>EXTENT OF REVIEW</p> <p>Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered</p> <p>Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Soil Type Source: _____</p> <p>Geologic Hazards Source: _____</p> <p>Contact Person: _____</p>	<p>OTHER HAZARDS</p> <p>Are There Hazards That Trigger A Detailed Structural Evaluation?</p> <p><input type="checkbox"/> Pounding potential (unless S_{L1} > out-of, if known)</p> <p><input type="checkbox"/> Falling hazards from taller adjacent building</p> <p><input type="checkbox"/> Geologic hazards or Soil Type F</p> <p><input type="checkbox"/> Significant damage/deterioration to the structural system</p>	<p>ACTION REQUIRED</p> <p>Detailed Structural Evaluation Required?</p> <p><input type="checkbox"/> Yes, unknown FEMA building type or other building</p> <p><input type="checkbox"/> Yes, score less than out-of</p> <p><input type="checkbox"/> Yes, other hazards present</p> <p><input type="checkbox"/> No</p> <p>Detailed Nonstructural Evaluation Recommended? (check one)</p> <p><input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated</p> <p><input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary</p> <p><input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK</p>
--	--	--

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Assembled Housing FD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.272 RVS form for Structure #157.3

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH

SKETCH

Additional sketches or comments on separate page

Address: 230 D St
Zip: 38104

Other Identifiers: TN015706

Building Name: THE MONTESSORI ELEMENTARY SCHOOL AT B

Use: Schools

Latitude: 35.37983 **Longitude:** -88.87679

Sr: 0.225 **Sr:** 0.267

Screeners: Abdelrahman Abdelhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1961 est

Total Floor Area (sq. ft.): 13792 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (URC IN)	PC1 (TU)	PC2 (TU)	RM1 (PD)	RM2 (PD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.0 < 0.2

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry mfr LM = Light metal
BR = Braced frame SW = Shear wall TU = Tilt up MH = Assembled Housing PD = Flexible diaphragm RD = Rigid diaphragm

Figure J.273 RVS form for Structure #157.4

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH

SKETCH

Address: 230 D St Zip: 38101

Other Identifiers: TN015705

Building Name: THE MONTESSORI ELEMENTARY SCHOOL AT B

Use: Schools

Latitude: 35.379734 Longitude: -88.876744

Sr: 0.225 St: 0.367

Screener(s): Abdelrahman Abdelhadi Date/Time:

No. Stories: Above Grade: Below Grade: Year Built: 1961 2011

Total Floor Area (sq. ft.): 1216 Code Year: 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (URC IN)	PC1 (TU)	PC2 (TU)	RM1 (PD)	RM2 (PD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.0 < 0.2

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
 None Visible Entered

Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary


No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Assembled Housing PD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.274 RVS form for Structure #157.5

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 701 ARLINGTON AVE
Zip: 38104

Other Identifiers: 23017800

Building Name: ARLINGTON ELEMENTARY SCHOOL
Use: Schools

Latitude: 33.628234 **Longitude:** -89.833123

Sr: 0.752 **Sr:** 0.274

Screeners: Abdurahman Abdelhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 2000 551

Total Floor Area (sq. ft.): 1071 **Code Year:** 1993

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor
Rock Rock Soil Soil Soil Soil
#DNK, assume Type D

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (URC IN)	PC1 (TU)	PC2 (TU)	RM1 (PX)	RM2 (PD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4


FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 2.9 ≥ 0.3

EXTENT OF REVIEW	OTHER HAZARDS	ACTION REQUIRED
Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____	Are There Hazards That Trigger A Detailed Structural Evaluation? <input type="checkbox"/> Pounding potential (unless S _{L1} > out-of, if known) <input type="checkbox"/> Falling hazards from taller adjacent building <input type="checkbox"/> Geologic hazards or Soil Type F <input type="checkbox"/> Significant damage/deterioration to the structural system	Detailed Structural Evaluation Required? <input type="checkbox"/> Yes, unknown FEMA building type or other building <input type="checkbox"/> Yes, score less than out-of <input type="checkbox"/> Yes, other hazards present <input type="checkbox"/> No Detailed Nonstructural Evaluation Recommended? (check one) <input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated <input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary <input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK
LEVEL 2 SCREENING PERFORMED? <input type="checkbox"/> Yes, Final Level 2 Score, S _{L2} _____ <input type="checkbox"/> No Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No	Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know	

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Assembled Housing PD = Flexible diaphragm
 BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.275 RVS form for Structure #158

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 100 BERRY HILL DR Zip: 38101

Other Identifiers: TN015900

Building Name: WEST TENNESSEE SCHOOL FOR DEAF

Use: Schools

Latitude: 35.646481 **Longitude:** -88.768651

Sr: 0.244 **Sr:** 0.272

Screeener(s): Abdelrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1971 EST

Total Floor Area (sq. ft.): 3500 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity)
 Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (RRF)	S2 (RRF)	S3 (RRF)	S4 (RRF SW)	S5 (RRF BT)	C1 (RRF)	C2 (RRF)	C3 (RRF IN)	PC1 (TU)	PC2 (TU)	RM1 (FD)	RM2 (FD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.3	NA
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4
FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min}		0.1																0.2

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM M = Unreinforced masonry infill MH = Assembled Housing FD = Flexible diaphragm BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RM = Rigid diaphragm

Figure J.276 RVS form for Structure #159.0

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 100 BERRY HILL DR Zip: 38101

Other Identifiers: TN015901

Building Name: WEST TENNESSEE SCHOOL FOR DEAF

Use: Schools

Latitude: 35.646374 **Longitude:** -88.768667

Sr: 0.244 **Sr:** 0.272

Screeener(s): Abdelrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 2002 est

Total Floor Area (sq. ft.): 11064 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{1F}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (IJK)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (SRC IN)	PC1 (TU)	PC2 (TU)	RM1 (FD)	RM2 (FD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.7	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{1min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{1F} ≥ S_{1min} 0.7 ≥ 0.5

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{1F} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary


No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry mfr LM = Light metal
BR = Braced frame SW = Shear wall TU = Tilt up MH = Assembled Housing FD = Flexible diaphragm RD = Rigid diaphragm

Figure J.277 RVS form for Structure #159.1

PHOTOGRAPH



SKETCH

Address: 100 BERRY HILL DR Zip: 38104

Other Identifiers: TN015902

Building Name: WEST TENNESSEE SCHOOL FOR DEAF

Use: Schools

Latitude: 35.643599 **Longitude:** -88.768781

Sr: 0.243 **Sr:** 0.272

Screeener(s): Abdelrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1971 EST

Total Floor Area (sq. ft.): 17139 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF IN)	PC1 (TU)	PC2	RM1 (FD)	RM2 (FD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-0.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 1.2 ≤ **1.6**

EXTENT OF REVIEW	OTHER HAZARDS	ACTION REQUIRED
Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____	Are There Hazards That Trigger A Detailed Structural Evaluation? <input type="checkbox"/> Pounding potential (unless S _{L1} > out-of, if known) <input type="checkbox"/> Falling hazards from taller adjacent building <input type="checkbox"/> Geologic hazards or Soil Type F <input type="checkbox"/> Significant damage/deterioration to the structural system	Detailed Structural Evaluation Required? <input type="checkbox"/> Yes, unknown FEMA building type or other building <input type="checkbox"/> Yes, score less than cut-off <input type="checkbox"/> Yes, other hazards present <input type="checkbox"/> No Detailed Nonstructural Evaluation Recommended? (check one) <input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated <input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary <input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK
LEVEL 2 SCREENING PERFORMED? <input type="checkbox"/> Yes, Final Level 2 Score, S _{L2} _____ <input type="checkbox"/> No Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No	Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know	

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry mfr LM = Light metal
BR = Braced frame SW = Shear wall TU = Tilt up MH = Assembled Housing FD = Flexible diaphragm RD = Rigid diaphragm

Figure J.278 RVS form for Structure #159.2

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH

SKETCH

Additional sketches or comments on separate page

Address: 100 BERRY HILL DR Zip: 38104

Other Identifiers: TN015905

Building Name: WEST TENNESSEE SCHOOL FOR DEAF

Use: Schools

Latitude: 35.645947 **Longitude:** -88.768961

Sr: 0.243 **Sr:** 0.272

Screeener(s): Abdelrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1971 EST

Total Floor Area (sq. ft.): 1432 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity):
 Plan (type):

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (RR)	S2 (RR)	S3 (L)	S4 (RC SW)	S5 (RRM RT)	C1 (SW)	C2 (SW)	C3 (L/RD IN)	PC1 (L)	PC2	RM1 (RD)	RM2 (RD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.4
FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min}		2.2		≥		0.8												

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM M = Unreinforced masonry infill MH = Asm/colored Housing PD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RM = Rigid diaphragm

Figure J.279 RVS form for Structure #159.3

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 49 OLD HICKORY BLVD Zip: 38104

Other Identifiers: TN016030

Building Name: MADISON OAKS ACADEMY

Use: Schools

Latitude: 35.654721 **Longitude:** -88.875504

Sr: 0.774 **Sr:** 0.38

Screeener(s): Abdelrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1979 EST

Total Floor Area (sq. ft.): 4587.143668 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF IN)	PC1 (TU)	PC2 (TU)	RM1 (FD)	RM2 (FD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.3	NA
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.6	0.9	0.5	0.9	0.9	0.6	0.6	0.7	0.9	0.7	0.6	0.8	0.6	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4
FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min}			-0.2															0.2

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/degradation to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary


No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry masonry infill TU = Tilt up MH = Assembled Housing FD = Flexible diaphragm BR = Braced frame SW = Shear wall LM = Light metal RD = Rigid diaphragm

Figure J.280 RVS form for Structure #160

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 832 COUNTRY CLUB LN Zip: 38101

Other Identifiers: TN015101

Building Name: JACKSON CHRISTIAN SCHOOL

Use: Schools

Latitude: 35.66942 **Longitude:** -88.85499

S₁: 0.788 **S₂:** 0.385

Screeener(s): Abdelrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 2009 EST

Total Floor Area (sq. ft.): 49260 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{1F}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF IN)	PC1 (TU)	PC2 (TU)	RM1 (PD)	RM2 (PD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.6	0.9	0.5	0.9	0.9	0.6	0.6	0.7	0.9	0.7	0.6	0.8	0.6	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{1min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4
FINAL LEVEL 1 SCORE, S_{1F} ≥ S_{1min}		2.8		≥		0.3												

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S₂ _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S₂ > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry mfr LM = Light metal PD = Flexible diaphragm RD = Rigid diaphragm


BR = Braced frame SW = Shear wall TU = Tilt up

Figure J.281 RVS form for Structure #161.1

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 832 COUNTRY CLUB LN Zip: 38104

Other Identifiers: TN014102

Building Name: JACKSON CHRISTIAN SCHOOL

Use: Schools

Latitude: 35.669525 **Longitude:** -88.855457

S: 0.789 **Sz:** 0.385

Screeener(s): Abdelrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 2000 EST

Total Floor Area (sq. ft.): 74555 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{1F}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (IWF)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (URF IN)	PC1 (TU)	PC2	RM1 (FD)	RM2 (FD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.5	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.6	0.9	0.5	0.9	0.9	0.6	0.6	0.7	0.9	0.7	0.6	0.6	0.6	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.6	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{1min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{1F} ≥ S_{1min} 0.7 ≥ 0.5

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S₂ _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S₂ > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry mfr LM = Light metal
BR = Braced frame SW = Shear wall TU = Tilt up MH = Assembled Housing FD = Flexible diaphragm RD = Rigid diaphragm

Figure J.282 RVS form for Structure #161.2

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 832 COUNTRY CLUB LN Zip: 38105

Other Identifiers: TN014105

Building Name: JACKSON CHRISTIAN SCHOOL

Use: Schools

Latitude: 35.669555 **Longitude:** -88.856107

Sr: 0.789 **Sr:** 0.385

Screener(s): Abdelrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 2000 EST

Total Floor Area (sq. ft.): 13850 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (IAC)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (URC IN)	PC1 (TU)	PC2 (TU)	RM1 (PD)	RM2 (PD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.5	2.1	NA	2.1	2.4	2.1	NA	1.2	
Soil Type A or B		0.3	0.6	0.9	0.6	0.9	0.5	0.9	0.9	0.6	0.6	0.7	0.9	0.7	0.6	0.8	0.6	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 3.9 ≥ 0.3

EXTENT OF REVIEW	OTHER HAZARDS	ACTION REQUIRED
Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____	Are There Hazards That Trigger A Detailed Structural Evaluation? <input type="checkbox"/> Pounding potential (unless S _{L1} > out-of, if known) <input type="checkbox"/> Falling hazards from taller adjacent building <input type="checkbox"/> Geologic hazards or Soil Type F <input type="checkbox"/> Significant damage/deterioration to the structural system	Detailed Structural Evaluation Required? <input type="checkbox"/> Yes, unknown FEMA building type or other building <input type="checkbox"/> Yes, score less than out-of <input type="checkbox"/> Yes, other hazards present <input type="checkbox"/> No Detailed Nonstructural Evaluation Recommended? (check one) <input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated <input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary <input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK
LEVEL 2 SCREENING PERFORMED? <input type="checkbox"/> Yes, Final Level 2 Score, S _{L2} _____ <input type="checkbox"/> No Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No	Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know	


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Assembled Housing PD = Flexible diaphragm
 BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.283 RVS form for Structure #161.3

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 832 COUNTRY CLUB LN Zip: 38104

Other Identifiers: TN014101

Building Name: JACKSON CHRISTIAN SCHOOL

Use: Schools

Latitude: 35.66998 **Longitude:** -88.85667

Sr: 0.79 **Sr:** 0.385

Screeener(s): Abdelrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1991 EST

Total Floor Area (sq. ft.): 48067 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{1F}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (URC IN)	PC1 (TU)	PC2 (TU)	RM1 (PD)	RM2 (PD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	NA	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.6	0.9	0.5	0.9	0.9	0.6	0.6	0.7	0.9	0.7	0.6	0.8	0.6	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{1min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4
FINAL LEVEL 1 SCORE, S_{1F} ≥ S_{1min}		2.8		≥		0.3												

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{2F} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{1F} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/degradation to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Asm. column housing PD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RM = Rigid diaphragm

Figure J.284 RVS form for Structure #161.4

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 832 COUNTRY CLUB LN Zip: 38105

Other Identifiers: TN016105

Building Name: JACKSON CHRISTIAN SCHOOL

Use: Schools

Latitude: 35.669745 **Longitude:** -88.856121

Sr: 0.789 **Sr:** 0.385

Screeners: Abdelrahman Abdelhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1991 EST

Total Floor Area (sq. ft.): 1357 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{1F}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF IN)	PC1 (TU)	PC2	RM1 (PD)	RM2 (PD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.5	2.1	NA	2.1	2.4	2.1	NA	1.2	
Soil Type A or B		0.3	0.6	0.9	0.6	0.9	0.5	0.9	0.9	0.6	0.6	0.7	0.9	0.7	0.6	0.8	0.6	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{1min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{1F} ≥ S_{1min} 3.9 ≥ 0.3

EXTENT OF REVIEW	OTHER HAZARDS	ACTION REQUIRED
Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____	Are There Hazards That Trigger A Detailed Structural Evaluation? <input type="checkbox"/> Pounding potential (unless S _{1F} > out-of, if known) <input type="checkbox"/> Falling hazards from taller adjacent building <input type="checkbox"/> Geologic hazards or Soil Type F <input type="checkbox"/> Significant damage/deterioration to the structural system	Detailed Structural Evaluation Required? <input type="checkbox"/> Yes, unknown FEMA building type or other building <input type="checkbox"/> Yes, score less than out-of <input type="checkbox"/> Yes, other hazards present <input type="checkbox"/> No Detailed Nonstructural Evaluation Recommended? (check one) <input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated <input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary <input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK
LEVEL 2 SCREENING PERFORMED? <input type="checkbox"/> Yes, Final Level 2 Score, S _{2F} _____ <input type="checkbox"/> No Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No	Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know	

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry mfr LM = Light metal
BR = Braced frame SW = Shear wall TU = Tilt up MH = Assembled Housing PD = Flexible diaphragm RD = Rigid diaphragm

Figure J.285 RVS form for Structure #161.5

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH

SKETCH

Additional sketches or comments on separate page

Address: 832 COUNTRY CLUB LN Zip: 38104

Other Identifiers: TN016106

Building Name: JACKSON CHRISTIAN SCHOOL

Use: Schools

Latitude: 35.668167 **Longitude:** -88.86782

S₁: 0.788 **S₂:** 0.385

Screener(s): Abdelrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 2000 EST

Total Floor Area (sq. ft.): 4855 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity):
 Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (IWF)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (URF IN)	PC1 (TU)	PC2	RM1 (FD)	RM2 (FD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.5	2.1	NA	2.1	2.4	2.1	NA	1.2	
Soil Type A or B		0.3	0.6	0.9	0.6	0.9	0.5	0.9	0.9	0.6	0.6	0.7	0.9	0.7	0.6	0.8	0.6	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 3.9 ≥ 0.3

EXTENT OF REVIEW	OTHER HAZARDS	ACTION REQUIRED
Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____	Are There Hazards That Trigger A Detailed Structural Evaluation? <input type="checkbox"/> Pounding potential (unless S _{L1} > out-of, if known) <input type="checkbox"/> Falling hazards from taller adjacent building <input type="checkbox"/> Geologic hazards or Soil Type F <input type="checkbox"/> Significant damage/deterioration to the structural system	Detailed Structural Evaluation Required? <input type="checkbox"/> Yes, unknown FEMA building type or other building <input type="checkbox"/> Yes, score less than out-of <input type="checkbox"/> Yes, other hazards present <input type="checkbox"/> No Detailed Nonstructural Evaluation Recommended? (check one) <input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated <input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary <input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK
LEVEL 2 SCREENING PERFORMED? <input type="checkbox"/> Yes, Final Level 2 Score, S _{L2} _____ <input type="checkbox"/> No Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No	Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know	


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry mfr LM = Light metal
BR = Braced frame SW = Shear wall TU = Tilt up MH = Assembled Housing FD = Flexible diaphragm
RD = Rigid diaphragm

Figure J.286 RVS form for Structure #161.6

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 1865 HIGHWAY 45 DYP
Zip: 38104

Other Identifiers: TN016250

Building Name: ST MARYS SCHOOL

Use: Schools

Latitude: 35.651415 **Longitude:** -88.85343

Sr: 0.773 **Sr:** 0.38

Screeener(s): Abdelrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1980 1981

Total Floor Area (sq. ft.): 15143 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF IN)	PC1 (TU)	PC2 (TU)	RM1 (PD)	RM2 (PD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.3	NA
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.6	0.9	0.5	0.9	0.9	0.6	0.6	0.7	0.9	0.7	0.6	0.6	0.6	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.6	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.1 **0.2**

EXTENT OF REVIEW	OTHER HAZARDS	ACTION REQUIRED
Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____	Are There Hazards That Trigger A Detailed Structural Evaluation? <input type="checkbox"/> Pounding potential (unless S _{L1} > out-of, if known) <input type="checkbox"/> Falling hazards from taller adjacent building <input type="checkbox"/> Geologic hazards or Soil Type F <input type="checkbox"/> Significant damage/deterioration to the structural system	Detailed Structural Evaluation Required? <input type="checkbox"/> Yes, unknown FEMA building type or other building <input type="checkbox"/> Yes, score less than out-of <input type="checkbox"/> Yes, other hazards present <input type="checkbox"/> No Detailed Nonstructural Evaluation Recommended? (check one) <input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated <input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary <input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK
LEVEL 2 SCREENING PERFORMED? <input type="checkbox"/> Yes, Final Level 2 Score, S _{L2} _____ <input type="checkbox"/> No Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No	Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know	


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Assembled Housing PD = Flexible diaphragm
 BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.287 RVS form for Structure #162.0

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 1865 HIGHWAY 45 DYP Zip: 38104

Other Identifiers: TN016201

Building Name: ST MARYS SCHOOL

Use: Schools

Latitude: 35.651827 **Longitude:** -88.852867

Sr: 0.773 **Sr:** 0.38

Screeener(s): Abdelrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 2011 EST

Total Floor Area (sq. ft.): 79652 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{1F}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (MRF)	S4 (RC SW)	S5 (MRF)	C1 (SW)	C2 (SW)	C3 (MRF)	PC1 (TU)	PC2 (TU)	RM1 (PD)	RM2 (PD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.5	2.1	NA	2.1	2.4	2.1	NA	1.2	
Soil Type A or B		0.3	0.6	0.9	0.6	0.9	0.5	0.9	0.9	0.6	0.6	0.7	0.9	0.7	0.6	0.8	0.6	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.6	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{1min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4
FINAL LEVEL 1 SCORE, S_{1F} ≥ S_{1min}		2.6		≥		0.3												

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{2F} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{2F} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry mfr LM = Light metal MH = Asymmetric Housing PD = Flexible diaphragm RD = Rigid diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up

Figure J.288 RVS form for Structure #162.1

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 1865 HIGHWAY 45 DYP **Zip:** 38104

Other Identifiers: TN016202

Building Name: ST MARYS SCHOOL

Use: Schools

Latitude: 35.651084 **Longitude:** -88.853756

Sr: 0.774 **Sr:** 0.38

Screeener(s): Abdelrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1980 1981

Total Floor Area (sq. ft.): 3440 **Code Year:** 1993

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (MRF)	S4 (RC SW)	S5 (MRF)	C1 (SW)	C2 (SW)	C3 (MRF)	PC1 (TU)	PC2	RM1 (RM)	RM2 (RM)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.6	0.9	0.5	0.9	0.9	0.6	0.6	0.7	0.9	0.7	0.6	0.8	0.6	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.6	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 3.3 ≥ 1.6

EXTENT OF REVIEW	OTHER HAZARDS	ACTION REQUIRED
Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____	Are There Hazards That Trigger A Detailed Structural Evaluation? <input type="checkbox"/> Pounding potential (unless S _{L1} > out-of, if known) <input type="checkbox"/> Falling hazards from taller adjacent building <input type="checkbox"/> Geologic hazards or Soil Type F <input type="checkbox"/> Significant damage/deterioration to the structural system	Detailed Structural Evaluation Required? <input type="checkbox"/> Yes, unknown FEMA building type or other building <input type="checkbox"/> Yes, score less than cut-off <input type="checkbox"/> Yes, other hazards present <input type="checkbox"/> No Detailed Nonstructural Evaluation Recommended? (check one) <input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated <input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary <input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK
LEVEL 2 SCREENING PERFORMED? <input type="checkbox"/> Yes, Final Level 2 Score, S _{L2} _____ <input type="checkbox"/> No Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No	Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know	


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Assembled Housing PD = Flexible diaphragm
 BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.289 RVS form for Structure #162.2

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 1865 HIGHWAY 45 DYP Zip: 38104

Other Identifiers: TN016205

Building Name: ST MARYS SCHOOL

Use: Schools

Latitude: 35.651404 **Longitude:** -88.853754

Sr: 0.774 **Sr:** 0.38

Screeener(s): Abdelrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1980 1981

Total Floor Area (sq. ft.): 34161 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (MRF)	S4 (RC SW)	S5 (MRF)	C1 (SW)	C2 (SW)	C3 (MRF IN)	PC1 (TU)	PC2 (TU)	RM1 (PD)	RM2 (PD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.6	0.9	0.5	0.9	0.9	0.6	0.6	0.7	0.9	0.7	0.6	0.8	0.6	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.6	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.0 ≤ **0.3**

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry mfr LM = Light metal PD = Flexible diaphragm BR = Braced frame SW = Shear wall TU = Tilt up MH = Amplified Housing RD = Rigid diaphragm

Figure J.290 RVS form for Structure #162.3

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 1865 HIGHWAY 45 DYP Zip: 38104

Other Identifiers: TN016206

Building Name: ST MARYS SCHOOL

Use: Schools

Latitude: 35.651339 **Longitude:** -88.854523

S: 0.774 **Sz:** 0.28

Screeener(s): Abdelrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1980 1981

Total Floor Area (sq. ft.): 17683 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity):
 Plan (type):

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (PREF)	S2 (HFI)	S3 (LH)	S4 (RC SW)	S5 (HRS RT)	C1 (SW)	C2 (SW)	C3 (LH/RT)	PC1 (TU)	PC2	RM1 (P)	RM2 (P)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.6	0.9	0.5	0.9	0.9	0.6	0.6	0.7	0.9	0.7	0.6	0.8	0.6	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 7.0 ≥ 0.5

EXTENT OF REVIEW	OTHER HAZARDS	ACTION REQUIRED
Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____	Are There Hazards That Trigger A Detailed Structural Evaluation? <input type="checkbox"/> Pounding potential (unless S _{L1} > out-of, if known) <input type="checkbox"/> Falling hazards from taller adjacent building <input type="checkbox"/> Geologic hazards or Soil Type F <input type="checkbox"/> Significant damage/deterioration to the structural system	Detailed Structural Evaluation Required? <input type="checkbox"/> Yes, unknown FEMA building type or other building <input type="checkbox"/> Yes, score less than out-of <input type="checkbox"/> Yes, other hazards present <input type="checkbox"/> No Detailed Nonstructural Evaluation Recommended? (check one) <input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated <input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary <input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK
LEVEL 2 SCREENING PERFORMED? <input type="checkbox"/> Yes, Final Level 2 Score, S _{L2} _____ <input type="checkbox"/> No Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No	Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know	


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Asymmetric housing PD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.291 RVS form for Structure #162.4

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 1865 HIGHWAY 45 DYP **Zip:** 38104

Other Identifiers: TN016205

Building Name: ST MARYS SCHOOL

Use: Schools

Latitude: 35.63029 **Longitude:** -88.85378

S: 0.773 **Sz:** 0.38

Screeener(s): Abdelrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 2011 EST

Total Floor Area (sq. ft.): 1700 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity):
 Plan (type):

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{1F}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF IN)	PC1 (TU)	PC2	RM1 (FD)	RM2 (FD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		0.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.5	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.6	0.9	0.5	0.9	0.9	0.6	0.6	0.7	0.9	0.7	0.6	0.8	0.6	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4
FINAL LEVEL 1 SCORE, S_{1F} ≥ S_{min}		3.8 ≥ 1.6																

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S₂ _____ No
Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S₂ > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry mfr LM = Light metal MH = Asymmetric Housing FD = Flexible diaphragm BR = Braced frame SW = Shear wall TU = Tilt up RD = Rigid diaphragm

Figure J.292 RVS form for Structure #162.5

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 1865 HIGHWAY 45 DYP **Zip:** 38104

Other Identifiers: TN016256

Building Name: ST MARYS SCHOOL

Use: Schools

Latitude: 35.651025 **Longitude:** -88.853139

Sr: 0.773 **Sr:** 0.38

Screeener(s): Abdelrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1980 1981

Total Floor Area (sq. ft.): 7731 **Code Year:** 1993

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF IN)	PC1 (TU)	PC2 (TU)	RM1 (PD)	RM2 (PD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-0.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.6	0.9	0.5	0.9	0.9	0.6	0.6	0.7	0.9	0.7	0.6	0.8	0.6	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4
FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min}		2.0 ≥ 1.6																

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Asymmetric Housing PD = Flexible diaphragm BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.293 RVS form for Structure #162.6

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 232 McClellan Rd Zip: 38104

Other Identifiers: TN016750

Building Name: UNIVERSITY SCHOOL OF JACKSON

Use: Schools

Latitude: 35.702948 **Longitude:** -88.850333

Sr: 0.821 **Sr:** 0.294

Screeners: Abdelrahman Abdelhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1906 EST

Total Floor Area (sq. ft.): 80857.14663 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{1F}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (URC IN)	PC1 (TU)	PC2	RM1 (FD)	RM2 (FD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.9	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.5	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.6	0.9	0.5	0.9	0.9	0.6	0.6	0.7	0.9	0.7	0.6	0.6	0.6	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.6	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{1min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{1F} ≥ S_{1min} 0.2 ≥ 0.2

<p>EXTENT OF REVIEW</p> <p>Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered</p> <p>Interior: <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Soil Type Source: _____</p> <p>Geologic Hazards Source: _____</p> <p>Contact Person: _____</p>	<p>OTHER HAZARDS</p> <p>Are There Hazards That Trigger A Detailed Structural Evaluation?</p> <p><input type="checkbox"/> Pounding potential (unless S_{1F} > out-of, if known)</p> <p><input type="checkbox"/> Falling hazards from taller adjacent building</p> <p><input type="checkbox"/> Geologic hazards or Soil Type F</p> <p><input type="checkbox"/> Significant damage/deterioration to the structural system</p>	<p>ACTION REQUIRED</p> <p>Detailed Structural Evaluation Required?</p> <p><input type="checkbox"/> Yes, unknown FEMA building type or other building</p> <p><input type="checkbox"/> Yes, score less than out-of</p> <p><input type="checkbox"/> Yes, other hazards present</p> <p><input type="checkbox"/> No</p> <p>Detailed Nonstructural Evaluation Recommended? (check one)</p> <p><input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated</p> <p><input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary</p> <p><input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK</p>
--	--	---

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Assembled Housing FD = Flexible diaphragm BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.294 RVS form for Structure #163.0

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 232 McClellan Rd Zip: 38104

Other Identifiers: TN016301

Building Name: UNIVERSITY SCHOOL OF JACKSON

Use: Schools

Latitude: 35.702345 **Longitude:** -88.850544

Sr: 0.83 **Sr:** 0.294

Screeners: Abdelrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 2002 est

Total Floor Area (sq. ft.): 8300 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (URC IN)	PC1 (TU)	PC2 (TU)	RM1 (FD)	RM2 (FD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	NA	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4
FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min}		2.0 ≥ 0.3																

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Asymmetric Housing FD = Flexible diaphragm BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.295 RVS form for Structure #163.1

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 232 McClellan Rd Zip: 38104

Other Identifiers: TN016302

Building Name: UNIVERSITY SCHOOL OF JACKSON

Use: Schools

Latitude: 35.702585 **Longitude:** -88.850168

S: 0.825 **Sr:** 0.295

Screeners: Abdelrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 2002 EST

Total Floor Area (sq. ft.): 5300 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (URC IN)	PC1 (TU)	PC2 (TU)	RM1 (FD)	RM2 (FD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.5	2.1	NA	2.1	2.4	2.1	NA	1.2	
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 2.0 ≥ 0.3

EXTENT OF REVIEW	OTHER HAZARDS	ACTION REQUIRED
Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____	Are There Hazards That Trigger A Detailed Structural Evaluation? <input type="checkbox"/> Pounding potential (unless S _{L1} > out-of, if known) <input type="checkbox"/> Falling hazards from taller adjacent building <input type="checkbox"/> Geologic hazards or Soil Type F <input type="checkbox"/> Significant damage/deterioration to the structural system	Detailed Structural Evaluation Required? <input type="checkbox"/> Yes, unknown FEMA building type or other building <input type="checkbox"/> Yes, score less than out-of <input type="checkbox"/> Yes, other hazards present <input type="checkbox"/> No Detailed Nonstructural Evaluation Recommended? (check one) <input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated <input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary <input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK
LEVEL 2 SCREENING PERFORMED? <input type="checkbox"/> Yes, Final Level 2 Score, S _{L2} _____ <input type="checkbox"/> No Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No	Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know	


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Asymmetric Housing FD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RM = Rigid diaphragm

Figure J.296 RVS form for Structure #163.2

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 232 McClellan Rd Zip: 38104

Other Identifiers: TN016305

Building Name: UNIVERSITY SCHOOL OF JACKSON

Use: Schools

Latitude: 35.703488 **Longitude:** -88.850796

S: 0.821 **Sr:** 0.294

Screeners: Abdelrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 2002 est

Total Floor Area (sq. ft.): 33960 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (URC IN)	PC1 (TU)	PC2 (TU)	RM1 (FD)	RM2 (FD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.5	2.1	NA	2.1	2.4	2.1	NA	1.2	
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 3.2 ≥ 0.3

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Asymmetric Housing FD = Flexible diaphragm BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.297 RVS form for Structure #163.3

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 232 MCCLELLAN RD Zip: 38104

Other Identifiers: TN016759

Building Name: UNIVERSITY SCHOOL OF JACKSON

Use: Schools

Latitude: 35.700919 **Longitude:** -88.890426

Sr: 0.821 **Sr:** 0.294

Screeners: Abdelrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 2002 EST

Total Floor Area (sq. ft.): 7807 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF IN)	PC1 (TU)	PC2	RM1 (FD)	RM2 (FD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.6	0.9	0.5	0.9	0.9	0.6	0.6	0.7	0.9	0.7	0.6	0.8	0.6	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 3.7 ≥ 0.5

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
 None Visible Entered

Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Asymmetric Housing FD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RM = Rigid diaphragm

Figure J.298 RVS form for Structure #163.4

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 232 MCLELLAN RD Zip: 38105

Other Identifiers: TN016305

Building Name: UNIVERSITY SCHOOL OF JACKSON

Use: Schools

Latitude: 35.705949 **Longitude:** -88.889219

S: 0.822 **Sz:** 0.295

Screeners: Abdelrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1906 EST

Total Floor Area (sq. ft.): 127,700 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (URC IN)	PC1 (TU)	PC2 (TU)	RM1 (FD)	RM2 (FD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	NA	1.2	
Soil Type A or B		0.3	0.6	0.9	0.6	0.9	0.5	0.9	0.9	0.6	0.6	0.7	0.9	0.7	0.6	0.8	0.6	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.6	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 2.0 ≥ 0.3

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
 None Visible Entered

Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Asymmetric Housing FD = Flexible diaphragm BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.299 RVS form for Structure #163.5

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 232 McClellan Rd Zip: 38104

Other Identifiers: 1NB15326

Building Name: UNIVERSITY SCHOOL OF JACKSON

Use: Schools

Latitude: 35.708141 **Longitude:** -88.850799

S: 0.825 **S:** 0.295

Screeners: Abdelrahman Abdelhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 2002 EST

Total Floor Area (sq. ft.): 10950 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF IN)	PC1 (TU)	PC2 (TU)	RM1 (PD)	RM2 (PD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.5	2.1	NA	2.1	2.4	2.1	NA	1.2	
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 3.8 ≥ 0.3

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
 None Visible Entered

Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary


No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM = Unreinforced masonry infill MH = Asymmetric Housing PD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.300 RVS form for Structure #163.6

PHOTOGRAPH



SKETCH

Address: 1171 OLD JUMBOKOBT RD Zip: 38105

Other Identifiers: 11N015401

Building Name: AUGUSTINE SCHOOL (BACK)

Use: Schools

Latitude: 35.72001 **Longitude:** -88.852679

Sr: 0.83 **Sr:** 0.294

Screeener(s): Abdelrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1906 est

Total Floor Area (sq. ft.): 7911 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF IN)	PC1 (TU)	PC2 (TU)	RM1 (PD)	RM2 (PD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.8	-0.8	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	NA	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 3.3 ≥ 0.3

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry mfr LM = Light metal PD = Flexible diaphragm BR = Braced frame SW = Shear wall TU = Tilt up MH = Amplified Momenting RD = Rigid diaphragm

Figure J.301 RVS form for Structure #164.1

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 1171 OLD JUMBOKOBT RD Zip: 38104

Other Identifiers: 11N015402

Building Name: AUGUSTINE SCHOOL (FRONT)

Use: Schools

Latitude: 35.720287 **Longitude:** -88.857158

Sr: 0.83 **Sr:** 0.294

Screeener(s): Abdelrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 2000 est

Total Floor Area (sq. ft.): 31270 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF IN)	PC1 (TU)	PC2 (TU)	RM1 (PD)	RM2 (PD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	NA	1.2	
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 3.8 ≥ 0.3

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry mfr LM = Light metal MH = Assembled Housing PD = Flexible diaphragm BR = Braced frame SW = Shear wall TU = Tilt up RD = Rigid diaphragm

Figure J.302 RVS form for Structure #164.2

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 278 CULPEPER ANDERSON ROAD
Zip: 38108

Other Identifiers: TN015420

Building Name: MONTSSOUTH CENTER OF JACKSON

Use: Schools

Latitude: 35.68105 **Longitude:** -88.879604

Sr: 0.779 **Sr:** 0.382

Screeners: Abdelrahman Abdelhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1991 EST

Total Floor Area (sq. ft.): 1385714033 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office **School** Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor
Rock Rock Soil Soil Soil Soil
#DNK, assume Type D

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{1F}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF IN)	PC1 (TU)	PC2 (TU)	RM1 (PD)	RM2 (PD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.6	0.9	0.5	0.9	0.9	0.6	0.6	0.7	0.9	0.7	0.6	0.6	0.6	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.6	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{1min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{1F} ≥ S_{1min} 0.7 ≥ 0.2

EXTENT OF REVIEW	OTHER HAZARDS	ACTION REQUIRED
Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____	Are There Hazards That Trigger A Detailed Structural Evaluation? <input type="checkbox"/> Pounding potential (unless S _{1F} > out-of, if known) <input type="checkbox"/> Falling hazards from taller adjacent building <input type="checkbox"/> Geologic hazards or Soil Type F <input type="checkbox"/> Significant damage/deterioration to the structural system	Detailed Structural Evaluation Required? <input type="checkbox"/> Yes, unknown FEMA building type or other building <input type="checkbox"/> Yes, score less than out-of <input type="checkbox"/> Yes, other hazards present <input type="checkbox"/> No Detailed Nonstructural Evaluation Recommended? (check one) <input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated <input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary <input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK
LEVEL 2 SCREENING PERFORMED? <input type="checkbox"/> Yes, Final Level 2 Score, S _{2F} _____ <input type="checkbox"/> No Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No	Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know	

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry mfr LM = Light metal
BR = Braced frame SW = Shear wall TU = Tilt up MH = Assembled Housing PD = Flexible diaphragm RD = Rigid diaphragm

Figure J.303 RVS form for Structure #165

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH

Address: 10 WINDY CITY RD
Zip: 38105

Other Identifiers: TN018603

Building Name: TRINITY CHRISTIAN ACADEMY

Use: Schools

Latitude: 35.689359 **Longitude:** -88.507814

Sr: 0.821 **Ss:** 0.294

Screeners(s): Abdouraman Abdurhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1996 EST

Total Floor Area (sq. ft.): 52071.42669 **Code Year:** 1991

Additions: None Yes, (years) Built

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A Hard Rock B Avg. Rock C Dense Soil D Soft Soil E Poor Soil F Poor Soil DNK / DNK, assume Type D.

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Soil. RipL: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S_{L1}

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (RC)	S3 (IM)	S4 (RC SW)	S5 (URM MF)	C1 (MRF)	C2 (RM)	C3 (URM MF)	PC1 (TU)	PC2	RM1 (FD)	RM2 (RC)	URM	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.5	-1.3	-1.1	-1.0	-1.2	-1.0	-0.8	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.5	NA
Moderate Vertical Irregularity, V ₂		-0.8	-0.5	-0.5	-0.7	-0.6	-0.8	-0.6	-0.6	-0.5	-0.5	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.6	-0.8	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.5	2.3	1.4	1.4	1.0	1.9	NA	1.9	2.1	NA	2.1	2.1	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.6	0.9	0.3	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.6	0.9
Soil Type E (< 3 stories)		0.0	-0.1	-0.3	-0.4	-0.5	0.0	-0.4	-0.6	-0.2	-0.2	-0.4	-0.5	-0.3	-0.4	-0.4	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.6	-0.6	-0.5	-0.4	NA	-0.5	-0.6	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.2 ≥ 0.2

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered
Drawings Reviewed: Yes No
Soil Type Source: _____
Geologic Hazards Source: _____
Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No
Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > out-of, if known)
 Falling hazards from taller adjacent building
 Geologic hazards or Soil Type F
 Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building
 Yes, score less than cut-off
 Yes, other hazards present
 No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated
 No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary
 No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF - Moment-resisting frame RC - Reinforced concrete URM - Unreinforced masonry IM - Light metal FD - Flexible diaphragm RR - Rigid frame SW - Shear wall TU - Tilt-up MH - Manufactured Housing RM - Rigid diaphragm

Figure J.304 RVS form for Structure #166.0

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 10 WINDY CITY RD Zip: 38105

Other Identifiers: TN015601

Building Name: TRINITY CHRISTIAN ACADEMY

Use: Schools

Latitude: 35.680295 **Longitude:** -88.927800

S₁: 0.83 **S₂:** 0.294

Screeners: Abdelrahman Abdelhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1906 EST

Total Floor Area (sq. ft.): 131674 **Code Year:** 1993

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF IN)	PC1 (TU)	PC2	RM1 (FD)	RM2 (FD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.9	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.5	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.6	0.9	0.5	0.9	0.9	0.6	0.6	0.7	0.9	0.7	0.6	0.6	0.6	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.6	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{1F} ≥ S_{min} 0.2 ≥ 0.2

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{1F} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry mfr MH = Assembled Housing FD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.305 RVS form for Structure #166.1

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 10 WINDY CITY RD **Zip:** 38104

Other Identifiers: TN015607

Building Name: TRINITY CHRISTIAN ACADEMY

Use: Schools

Latitude: 35.688251 **Longitude:** -88.926934

Sr: 0.83 **Sr:** 0.294

Screeners: Abdelrahman Abdelhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1906 EST

Total Floor Area (sq. ft.): 10410 **Code Year:** 1993

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial Emer. Services Historic Shelter
 Industrial Office School Government
 Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
 Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (IJK)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (URC IN)	PC1 (TU)	PC2 (TU)	RM1 (FD)	RM2 (FD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 1.2 ≥ 0.2

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
 Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Assembled Housing FD = Flexible diaphragm
 BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.306 RVS form for Structure #166.2

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 10 WINDY CITY RD Zip: 38105

Other Identifiers: TN015603

Building Name: TRINITY CHRISTIAN ACADEMY

Use: Schools

Latitude: 35.687001 **Longitude:** -88.927144

S₁: 0.819 **S₂:** 0.294

Screeener(s): Abdelrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 2013 EST

Total Floor Area (sq. ft.): 1610 **Code Year:** 1993

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (RRF)	S2 (RRF)	S3 (RRF)	S4 (RRF SW)	S5 (RRF BT)	C1 (RRF)	C2 (RRF)	C3 (RRF IN)	PC1 (TU)	PC2 (TU)	RM1 (FD)	RM2 (FD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.0	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.5	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 1.2 ≥ 0.2

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S₁₂ > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM M = Unreinforced masonry infill MH = Assembled Housing FD = Flexible diaphragm BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RM = Rigid diaphragm

Figure J.307 RVS form for Structure #166.3

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH

SKETCH

Additional sketches or comments on separate page

Address: 1502 CAMPBELL ST Zip: 38104

Other Identifiers: TN018700

Building Name: HINUS MEMORIAL ELEMENTARY SCHOOL

Use: Schools

Latitude: 35.666754 **Longitude:** -88.811884

S: 0.364 **Sz:** 0.377

Screeener(s): Abdelrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1979 EST

Total Floor Area (sq. ft.): 1071-428589 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (MRF)	S4 (RC SW)	S5 (MRF)	C1 (SW)	C2 (SW)	C3 (MRF)	PC1 (TU)	PC2	RM1 (FD)	RM2 (FD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	-0.5
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.3	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.1 < 0.2

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry mfr LM = Light metal
BR = Braced frame SW = Shear wall TU = Tilt up MH = Assembled Housing FD = Flexible diaphragm RD = Rigid diaphragm

Figure J.308 RVS form for Structure #167

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 185 GREEN FIELD DR Zip: 38104

Other Identifiers: TN018200

Building Name: SACRED HEART OF JESUS HIGH SCHOOL

Use: Schools

Latitude: 35.651355 **Longitude:** -88.857907

Sr: 0.375 **Sr:** 0.381

Screeener(s): Abdelrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1980 EST

Total Floor Area (sq. ft.): 4857.143665 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (IJK)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (URJ IN)	PC1 (TU)	PC2	RM1 (FD)	RM2 (FD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.3	NA
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4
FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min}		1.1 ≥ 0.2																

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Assembled Housing FD = Flexible diaphragm BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RM = Rigid diaphragm

Figure J.309 RVS form for Structure #168

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH

SKETCH

Additional sketches or comments on separate page

Address: US6 HIGHWAY 45 BYPASS
Zip: 38104

Other Identifiers: TN015920

Building Name: WEST TENNESSEE BUSINESS COLLEGE

Use: Schools

Latitude: 35.674021 **Longitude:** -88.848157

Sr: 0.362 **Sr:** 0.377

Screeener(s): Abdelrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: _____ Below Grade: _____ **Year Built:** 1964 EST

Total Floor Area (sq. ft.): 17750 **Code Year:** 1993

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (IAC)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF IN)	PC1 (TU)	PC2 (TU)	RM1 (FD)	RM2 (FD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.3	NA
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.6	0.9	0.5	0.9	0.9	0.6	0.6	0.7	0.9	0.7	0.6	0.6	0.6	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.6	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.0 ≥ 0.2

EXTENT OF REVIEW	OTHER HAZARDS	ACTION REQUIRED
Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____	Are There Hazards That Trigger A Detailed Structural Evaluation? <input type="checkbox"/> Pounding potential (unless S _{L1} > out-of, if known) <input type="checkbox"/> Falling hazards from taller adjacent building <input type="checkbox"/> Geologic hazards or Soil Type F <input type="checkbox"/> Significant damage/deterioration to the structural system	Detailed Structural Evaluation Required? <input type="checkbox"/> Yes, unknown FEMA building type or other building <input type="checkbox"/> Yes, score less than out-of <input type="checkbox"/> Yes, other hazards present <input type="checkbox"/> No Detailed Nonstructural Evaluation Recommended? (check one) <input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated <input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary <input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK
LEVEL 2 SCREENING PERFORMED? <input type="checkbox"/> Yes, Final Level 2 Score, S _{L2} _____ <input type="checkbox"/> No Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No		

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Assembled Housing FD = Flexible diaphragm
 BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.310 RVS form for Structure #169

PHOTOGRAPH

SKETCH

Additional sketches or comments on separate page

Address: 1433 HOLLYWOOD DR Zip: 38101

Other Identifiers: TN017020

Building Name: EMERALD BEAUTY SCHOOL - JACKSON

Use: Schools

Latitude: 35.676934 **Longitude:** -88.847673

S: 0.363 **Sz:** 0.377

Screeener(s): Abdelrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1964 EST

Total Floor Area (sq. ft.): 5583 315495 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF IN)	PC1 (TU)	PC2	RM1 (FD)	RM2 (FD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.3	NA
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.1 < 0.2

EXTENT OF REVIEW	OTHER HAZARDS	ACTION REQUIRED
Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____	Are There Hazards That Trigger A Detailed Structural Evaluation? <input type="checkbox"/> Pounding potential (unless S _{L1} > out-of, if known) <input type="checkbox"/> Falling hazards from taller adjacent building <input type="checkbox"/> Geologic hazards or Soil Type F <input type="checkbox"/> Significant damage/deterioration to the structural system	Detailed Structural Evaluation Required? <input type="checkbox"/> Yes, unknown FEMA building type or other building <input type="checkbox"/> Yes, score less than out-of <input type="checkbox"/> Yes, other hazards present <input type="checkbox"/> No Detailed Nonstructural Evaluation Recommended? (check one) <input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated <input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary <input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK
LEVEL 2 SCREENING PERFORMED? <input type="checkbox"/> Yes, Final Level 2 Score, S _{L2} _____ <input type="checkbox"/> No Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No	Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know	

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry mfr LM = Light metal
BR = Braced frame SW = Shear wall TU = Tilt up MH = Assembled Housing FD = Flexible diaphragm RD = Rigid diaphragm

Figure J.311 RVS form for Structure #170

PHOTOGRAPH

SKETCH

Additional sketches or comments on separate page

Address: 3668 TECHNOLOGY CENTER DRIVE
Zip: 38101

Other Identifiers: TN017301

Building Name: TENNESSEE COLLEGE OF APPLIED TECHNOLOGY

Use: Schools

Latitude: 35.607118 **Longitude:** -88.019994

Sr: 0.774 **Sr:** 0.38

Screeener(s): Abdelrahman Abdelhadi **Date/Time:**

No. Stories: Above Grade: _____ Below Grade: _____ **Year Built:** 1975 EST

Total Floor Area (sq. ft.): 10810 **Code Year:** 1993

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MR)	S2 (MR)	S3 (MR)	S4 (RC SW)	S5 (RC BT)	C1 (SW)	C2 (SW)	C3 (UR/IN)	PC1 (U)	PC2 (U)	RM1 (PD)	RM2 (PD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.8	-0.8	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.9	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 1.1 ≥ 0.2

EXTENT OF REVIEW	OTHER HAZARDS	ACTION REQUIRED
Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____	Are There Hazards That Trigger A Detailed Structural Evaluation? <input type="checkbox"/> Pounding potential (unless S _{L1} > out-of, if known) <input type="checkbox"/> Falling hazards from taller adjacent building <input type="checkbox"/> Geologic hazards or Soil Type F <input type="checkbox"/> Significant damage/deterioration to the structural system	Detailed Structural Evaluation Required? <input type="checkbox"/> Yes, unknown FEMA building type or other building <input type="checkbox"/> Yes, score less than out-of <input type="checkbox"/> Yes, other hazards present <input type="checkbox"/> No Detailed Nonstructural Evaluation Recommended? (check one) <input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated <input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary <input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK
LEVEL 2 SCREENING PERFORMED? <input type="checkbox"/> Yes, Final Level 2 Score, S _{L2} _____ <input type="checkbox"/> No Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No	Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know	


Legend: MR = Moment-resisting frame RC = Reinforced concrete URM = Unreinforced masonry infill MH = Asymmetrical Housing PD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.312 RVS form for Structure #172.1

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 3608 TECHNOLOGY CENTER DRIVE **Zip:** 38104

Other Identifiers: TN017007

Building Name: TENNESSEE COLLEGE OF APPLIED TECHNOLOGY

Use: Schools

Latitude: 35.607051 **Longitude:** -88.019432

Sr: 0.373 **Sr:** 0.38

Screeener(s): Abdelrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: _____ Below Grade: _____ **Year Built:** 1975 EST

Total Floor Area (sq. ft.): 3706 **Code Year:** 1993

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF IN)	PC1 (TU)	PC2 (TU)	RM1 (FD)	RM2 (FD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.3	NA
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.6	0.9	0.5	0.9	0.9	0.6	0.6	0.7	0.9	0.7	0.6	0.6	0.6	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.6	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.0 ≥ 0.2

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry mfr LM = Light metal
BR = Braced frame SW = Shear wall TU = Tilt up MH = Assembled Housing FD = Flexible diaphragm RD = Rigid diaphragm

Figure J.313 RVS form for Structure #172.2

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form


Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 1650 UNION UNIVERSITY DR
Zip: 38104

Other Identifiers: 17NB17301

Building Name: UNION UNIVERSITY

Use: Schools

Latitude: 35.675394 **Longitude:** -88.85278

S₁: 0.791 **S₂:** 0.385

Screeners: Abdurahman Abdelhadi **Date/Time:**

No. Stories: Above Grade: _____ Below Grade: _____ **Year Built:** 1991 EST

Total Floor Area (sq. ft.): 23970 **Code Year:** 1991

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor
Rock Rock Soil Soil Soil Soil
#DNK, assume Type D

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity): _____
 Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{1F}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF IN)	PC1 (TU)	PC2 (TU)	RM1 (PD)	RM2 (PD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.5	2.1	NA	2.1	2.4	2.1	NA	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.6	0.7	0.9	0.7	0.6	0.8	0.6	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{1min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4
FINAL LEVEL 1 SCORE, S_{1F} ≥ S_{1min}		3.2 > 0.3																

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S₂ _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S₂ > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Asymmetric Housing PD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RM = Rigid diaphragm

Figure J.317 RVS form for Structure #173.1

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH

SKETCH

Additional sketches or comments on separate page

Address: 1650 UNION UNIVERSITY DR
Zip: 38104

Other Identifiers: 11N017302

Building Name: UNION UNIVERSITY

Use: Schools

Latitude: 35.676567 **Longitude:** -88.853179

S: 0.792 **Sz:** 0.286

Screeener(s): Abdelrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1991 EST

Total Floor Area (sq. ft.): 16727 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor
Rock Rock Soil Soil Soil Soil
#DNK, assume Type D

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity):
 Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (MRF)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF IN)	PC1 (TU)	PC2 (TU)	RM1 (PD)	RM2 (PD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.5	2.1	NA	2.1	2.4	2.1	NA	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4


FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 3.2 > 0.3

EXTENT OF REVIEW	OTHER HAZARDS	ACTION REQUIRED
Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____	Are There Hazards That Trigger A Detailed Structural Evaluation? <input type="checkbox"/> Pounding potential (unless S _{L1} > out-of, if known) <input type="checkbox"/> Falling hazards from taller adjacent building <input type="checkbox"/> Geologic hazards or Soil Type F <input type="checkbox"/> Significant damage/deterioration to the structural system	Detailed Structural Evaluation Required? <input type="checkbox"/> Yes, unknown FEMA building type or other building <input type="checkbox"/> Yes, score less than out-of <input type="checkbox"/> Yes, other hazards present <input type="checkbox"/> No Detailed Nonstructural Evaluation Recommended? (check one) <input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated <input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary <input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK
LEVEL 2 SCREENING PERFORMED? <input type="checkbox"/> Yes, Final Level 2 Score, S _{L2} _____ <input type="checkbox"/> No Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No	Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know	

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Assembled Housing PD = Flexible diaphragm
 BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.318 RVS form for Structure #173.2

PHOTOGRAPH



SKETCH

Address: 1650 UNION UNIVERSITY DR Zip: 38104

Other Identifiers: 17NB17303

Building Name: UNION UNIVERSITY

Use: Schools

Latitude: 35.676824 **Longitude:** -88.857009

S: 0.792 **Sz:** 0.286

Screeener(s): Abdelrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1991 EST

Total Floor Area (sq. ft.): 19254 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (IWF)	S4 (RC SW)	S5 (MRF)	C1 (SW)	C2 (SW)	C3 (MRF)	PC1 (TU)	PC2 (TU)	RM1 (FD)	RM2 (FD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.5	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.6	0.9	0.5	0.9	0.9	0.6	0.6	0.7	0.9	0.7	0.6	0.8	0.6	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.6	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.4 < 0.5

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Assembled Housing FD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.319 RVS form for Structure #173.3

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 1650 UNION UNIVERSITY DR Zip: 38104

Other Identifiers: TN017324

Building Name: UNION UNIVERSITY

Use: Schools

Latitude: 35.677033 **Longitude:** -88.850954

Sr: 0.791 **Sr:** 0.385

Screeener(s): Abdelrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1991 EST

Total Floor Area (sq. ft.): 66368 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{1F}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (MRF)	S4 (RC SW)	S5 (MRF)	C1 (SW)	C2 (SW)	C3 (URC IN)	PC1 (TU)	PC2 (TU)	RM1 (PD)	RM2 (PD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	NA	1.2	
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{1min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4
FINAL LEVEL 1 SCORE, S_{1F} ≥ S_{1min}		2.6																0.3

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{2F} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{2F} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Asm. column housing PD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RM = Rigid diaphragm

Figure J.320 RVS form for Structure #173.4

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH

SKETCH

Additional sketches or comments on separate page

Address: 1050 UNION UNIVERSITY DR Zip: 38104

Other Identifiers: TN017425

Building Name: UNION UNIVERSITY

Use: Schools

Latitude: 35.67673 **Longitude:** -88.85919

Sr: 0.79 **Sr:** 0.385

Screeener(s): Abdelrahman Abdelhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1991 EST

Total Floor Area (sq. ft.): 194500 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF IN)	PC1 (TU)	PC2	RM1 (FD)	RM2 (FD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.5	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S_{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} U.F. < 0.6

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/degradation to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Asm. column housing FD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.321 RVS form for Structure #173.5

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH

SKETCH

Additional sketches or comments on separate page

Address: 1650 UNION UNIVERSITY DR
Zip: 38104

Other Identifiers: TN017426

Building Name: UNION UNIVERSITY

Use: Schools

Latitude: 35.678135 **Longitude:** -88.857947

Sr: 0.79 **Sr:** 0.385

Screeener(s): Abdelrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1991 est

Total Floor Area (sq. ft.): 79173 **Code Year:** 1991

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor
Rock Rock Soil Soil Soil Soil
#DNK, assume Type D

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF IN)	PC1 (TU)	PC2	RM1 (FD)	RM2 (FD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.6	0.9	0.5	0.9	0.9	0.6	0.6	0.7	0.9	0.7	0.6	0.6	0.6	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.6	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.7 > 0.2

EXTENT OF REVIEW	OTHER HAZARDS	ACTION REQUIRED
Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____	Are There Hazards That Trigger A Detailed Structural Evaluation? <input type="checkbox"/> Pounding potential (unless S _{L1} > out-of, if known) <input type="checkbox"/> Falling hazards from taller adjacent building <input type="checkbox"/> Geologic hazards or Soil Type F <input type="checkbox"/> Significant damage/deterioration to the structural system	Detailed Structural Evaluation Required? <input type="checkbox"/> Yes, unknown FEMA building type or other building <input type="checkbox"/> Yes, score less than out-of <input type="checkbox"/> Yes, other hazards present <input type="checkbox"/> No Detailed Nonstructural Evaluation Recommended? (check one) <input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated <input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary <input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK
LEVEL 2 SCREENING PERFORMED? <input type="checkbox"/> Yes, Final Level 2 Score, S _{L2} _____ <input type="checkbox"/> No Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No		

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Asm. column housing FD = Flexible diaphragm
 BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.322 RVS form for Structure #173.6

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH

SKETCH

Address: 1650 UNION UNIVERSITY DR Zip: 38104

Other Identifiers: TN017927

Building Name: UNION UNIVERSITY

Use: Schools

Latitude: 35.679487 **Longitude:** -88.8561

Sr: 0.791 **Sr:** 0.385

Screeners: Abdelrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1991 EST

Total Floor Area (sq. ft.): 13874 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor
Rock Rock Soil Soil Soil Soil
#DNK, assume Type D

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity):
 Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (URD IN)	PC1 (U)	PC2	RM1 (FD)	RM2 (FD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.6	0.9	0.5	0.9	0.9	0.6	0.6	0.7	0.9	0.7	0.6	0.8	0.6	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 3.2 > 0.3

EXTENT OF REVIEW	OTHER HAZARDS	ACTION REQUIRED
Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____	Are There Hazards That Trigger A Detailed Structural Evaluation? <input type="checkbox"/> Pounding potential (unless S _{L1} > out-of, if known) <input type="checkbox"/> Falling hazards from taller adjacent building <input type="checkbox"/> Geologic hazards or Soil Type F <input type="checkbox"/> Significant damage/deterioration to the structural system	Detailed Structural Evaluation Required? <input type="checkbox"/> Yes, unknown FEMA building type or other building <input type="checkbox"/> Yes, score less than out-of <input type="checkbox"/> Yes, other hazards present <input type="checkbox"/> No Detailed Nonstructural Evaluation Recommended? (check one) <input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated <input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary <input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK
LEVEL 2 SCREENING PERFORMED? <input type="checkbox"/> Yes, Final Level 2 Score, S _{L2} _____ <input type="checkbox"/> No Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No	Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know	


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Asymmetrical Housing FD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.323 RVS form for Structure #173.7

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 545 LANE AVE Zip: 38104

Other Identifiers: TN017420

Building Name: LANE COLLEGE

Use: Schools

Latitude: 35.628121 **Longitude:** -88.826764

Sr: 0.241 **Sr:** 0.271

Screeener(s): Abdelrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1971 EST

Total Floor Area (sq. ft.): 145750 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF IN)	PC1 (TU)	PC2 (TU)	RM1 (FD)	RM2 (FD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.9	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.3	NA
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.6	0.9	0.5	0.9	0.9	0.6	0.6	0.7	0.9	0.7	0.6	0.6	0.6	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.6	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.1 < 0.2

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Asm. column housing FD = Flexible diaphragm BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.324 RVS form for Structure #174.0

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 545 LANE AVE Zip: 38104

Other Identifiers: TN017431

Building Name: LANE COLLEGE

Use: Schools

Latitude: 35.627194 **Longitude:** -88.827156

Sr: 0.741 **St:** 0.271

Screeener(s): Abdelrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1971 EST

Total Floor Area (sq. ft.): 73670 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Stiff Soft Poor
Rock Rock Soil Soil Soil Soil
#DNK, assume Type D

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF IN)	PC1 (TU)	PC2	RM1 (FD)	RM2 (FD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.7	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.8	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.2 < 0.3

EXTENT OF REVIEW	OTHER HAZARDS	ACTION REQUIRED
Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____	Are There Hazards That Trigger A Detailed Structural Evaluation? <input type="checkbox"/> Pounding potential (unless S _{L1} > out-of, if known) <input type="checkbox"/> Falling hazards from taller adjacent building <input type="checkbox"/> Geologic hazards or Soil Type F <input type="checkbox"/> Significant damage/deterioration to the structural system	Detailed Structural Evaluation Required? <input type="checkbox"/> Yes, unknown FEMA building type or other building <input type="checkbox"/> Yes, score less than cut-off <input type="checkbox"/> Yes, other hazards present <input type="checkbox"/> No Detailed Nonstructural Evaluation Recommended? (check one) <input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated <input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary <input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK
LEVEL 2 SCREENING PERFORMED? <input type="checkbox"/> Yes, Final Level 2 Score, S _{L2} _____ <input type="checkbox"/> No Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No	Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know	


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Assembled Housing FD = Flexible diaphragm
 BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.325 RVS form for Structure #174.1

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 545 LANE AVE Zip: 38104

Other Identifiers: TN017427

Building Name: LANE COLLEGE

Use: Schools

Latitude: 35.627419 **Longitude:** -88.826564

Sr: 0.241 **Sr:** 0.271

Screeners: Abdelrahman Abdelhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1971 EST

Total Floor Area (sq. ft.): 10710 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF IN)	PC1 (TU)	PC2	RM1 (FD)	RM2 (FD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.8	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.5	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 1.3 > 0.3

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry mfr LM = Light metal MH = Assembled Housing FD = Flexible diaphragm BR = Braced frame SW = Shear wall TU = Tilt up RD = Rigid diaphragm

Figure J.326 RVS form for Structure #174.2

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 545 LANE AVE Zip: 38104

Other Identifiers: 21801400

Building Name: LANE COLLEGE

Use: Schools

Latitude: 35.6268 **Longitude:** -88.82997

Sr: 0.24 **Sr:** 0.271

Screeners: Abdelrahman Abdelhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 2009 EST

Total Floor Area (sq. ft.): 15205 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity):
 Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S ₁₁																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF IN)	PC1 (TU)	PC2	RM1 (FD)	RM2 (FD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.5	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.4

FINAL LEVEL 1 SCORE, S₁₁ ≥ S_{min} 1.3 > 0.5

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S₁₂ _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S₁₂ > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM = Unreinforced masonry infill MH = Assembled Housing FD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RM = Rigid diaphragm

Figure J.327 RVS form for Structure #174.3

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 545 LANE AVE Zip: 38104

Other Identifiers: 218017400

Building Name: LANE COLLEGE

Use: Schools

Latitude: 35.627489 **Longitude:** -88.825154

S: 0.24 **Sz:** 0.271

Screeener(s): Abdelrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1904 EST

Total Floor Area (sq. ft.): 1725 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Stiff Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF IN)	PC1 (TU)	PC2	RM1 (FD)	RM2 (FD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		0.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 3.0 > 1.6

<p>EXTENT OF REVIEW</p> <p>Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered</p> <p>Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Soil Type Source: _____</p> <p>Geologic Hazards Source: _____</p> <p>Contact Person: _____</p>	<p>OTHER HAZARDS</p> <p>Are There Hazards That Trigger A Detailed Structural Evaluation?</p> <p><input type="checkbox"/> Pounding potential (unless S_{L1} > out-of, if known)</p> <p><input type="checkbox"/> Falling hazards from taller adjacent building</p> <p><input type="checkbox"/> Geologic hazards or Soil Type F</p> <p><input type="checkbox"/> Significant damage/deterioration to the structural system</p>	<p>ACTION REQUIRED</p> <p>Detailed Structural Evaluation Required?</p> <p><input type="checkbox"/> Yes, unknown FEMA building type or other building</p> <p><input type="checkbox"/> Yes, score less than cut-off</p> <p><input type="checkbox"/> Yes, other hazards present</p> <p><input type="checkbox"/> No</p> <p>Detailed Nonstructural Evaluation Recommended? (check one)</p> <p><input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated</p> <p><input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary</p> <p><input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK</p>
--	--	--

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM = Unreinforced masonry infill MH = Assembled Housing FD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.328 RVS form for Structure #174.4

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 545 LANE AVE Zip: 38104

Other Identifiers: 218014025

Building Name: LANE COLLEGE

Use: Schools

Latitude: 35.620429 **Longitude:** -88.82993

Sr: 0.24 **Sr:** 0.271

Screeener(s): Abdelrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1904 EST

Total Floor Area (sq. ft.): 1148 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF IN)	PC1 (TU)	PC2 (TU)	RM1 (FD)	RM2 (FD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.0	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.5 > 0.8

EXTENT OF REVIEW	OTHER HAZARDS	ACTION REQUIRED
Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____	Are There Hazards That Trigger A Detailed Structural Evaluation? <input type="checkbox"/> Pounding potential (unless S _{L1} > out-of, if known) <input type="checkbox"/> Falling hazards from taller adjacent building <input type="checkbox"/> Geologic hazards or Soil Type F <input type="checkbox"/> Significant damage/deterioration to the structural system	Detailed Structural Evaluation Required? <input type="checkbox"/> Yes, unknown FEMA building type or other building <input type="checkbox"/> Yes, score less than out-of <input type="checkbox"/> Yes, other hazards present <input type="checkbox"/> No Detailed Nonstructural Evaluation Recommended? (check one) <input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated <input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary <input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK
LEVEL 2 SCREENING PERFORMED? <input type="checkbox"/> Yes, Final Level 2 Score, S _{L2} _____ <input type="checkbox"/> No Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No	Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know	


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Assembled Housing FD = Flexible diaphragm
 BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.329 RVS form for Structure #174.5

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 545 LANE AVE Zip: 38104

Other Identifiers: 218019026

Building Name: LANE COLLEGE

Use: Schools

Latitude: 35.62827 **Longitude:** -88.82533

S: 0.24 **Sz:** 0.271

Screeener(s): Abdelrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 2009 EST

Total Floor Area (sq. ft.): 16914 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF IN)	PC1 (TU)	PC2	RM1 (FD)	RM2 (FD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.7	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.5	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.9 > 0.3

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM = Unreinforced masonry infill MH = Assembled Housing FD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RM = Rigid diaphragm

Figure J.330 RVS form for Structure #174.6

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 545 LANE AVE Zip: 38104

Other Identifiers: 21N017407

Building Name: LANE COLLEGE

Use: Schools

Latitude: 35.628476 **Longitude:** -88.825467

Sr: 0.741 **Sr:** 0.271

Screeener(s): Abdelrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 2010 EST

Total Floor Area (sq. ft.): 4820 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF IN)	PC1 (TU)	PC2 (TU)	RM1 (FD)	RM2 (FD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		0.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.6	0.9	0.5	0.9	0.9	0.6	0.6	0.7	0.9	0.7	0.6	0.8	0.6	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.6	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 3.0 > 1.6

EXTENT OF REVIEW	OTHER HAZARDS	ACTION REQUIRED
Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____	Are There Hazards That Trigger A Detailed Structural Evaluation? <input type="checkbox"/> Pounding potential (unless S _{L1} > out-of, if known) <input type="checkbox"/> Falling hazards from taller adjacent building <input type="checkbox"/> Geologic hazards or Soil Type F <input type="checkbox"/> Significant damage/deterioration to the structural system	Detailed Structural Evaluation Required? <input type="checkbox"/> Yes, unknown FEMA building type or other building <input type="checkbox"/> Yes, score less than cut-off <input type="checkbox"/> Yes, other hazards present <input type="checkbox"/> No Detailed Nonstructural Evaluation Recommended? (check one) <input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated <input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary <input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK
LEVEL 2 SCREENING PERFORMED? <input type="checkbox"/> Yes, Final Level 2 Score, S _{L2} _____ <input type="checkbox"/> No Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No	Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR = Do Not Know	


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Assembled Housing FD = Flexible diaphragm
 BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.331 RVS form for Structure #174.7

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 545 LANE AVE Zip: 38104

Other Identifiers: 218017408

Building Name: LANE COLLEGE

Use: Schools

Latitude: 35.628765 **Longitude:** -88.825523

Sr: 0.741 **Sr:** 0.271

Screeener(s): Abdelrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 2010 EST

Total Floor Area (sq. ft.): 4005 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity):
 Plan (type):

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{1F}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (PSP)	S2 (RFR)	S3 (LH)	S4 (RC SW)	S5 (RFR BT)	C1 (RFR)	C2 (RFR)	C3 (LFR IN)	PC1 (TU)	PC2	RM1 (RFR)	RM2 (RFR)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.5	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.6	0.9	0.5	0.9	0.9	0.6	0.6	0.7	0.9	0.7	0.6	0.8	0.6	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{1min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{1F} ≥ S_{1min} 3.7 > 0.5

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{1F} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM RFR = Unreinforced masonry infill MH = Asymmetric Housing PD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.332 RVS form for Structure #174.8

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 545 LANE AVE Zip: 38104

Other Identifiers: 218017429

Building Name: LANE COLLEGE

Use: Schools

Latitude: 35.628515 **Longitude:** -88.826996

Sr: 0.741 **Sr:** 0.271

Screeener(s): Abdelrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1971 EST

Total Floor Area (sq. ft.): 11416 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF IN)	PC1 (TU)	PC2 (TU)	RM1 (FD)	RM2 (FD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.3	NA
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.6 > 0.2

EXTENT OF REVIEW	OTHER HAZARDS	ACTION REQUIRED
Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____	Are There Hazards That Trigger A Detailed Structural Evaluation? <input type="checkbox"/> Pounding potential (unless S _{L1} > out-of, if known) <input type="checkbox"/> Falling hazards from taller adjacent building <input type="checkbox"/> Geologic hazards or Soil Type F <input type="checkbox"/> Significant damage/deterioration to the structural system	Detailed Structural Evaluation Required? <input type="checkbox"/> Yes, unknown FEMA building type or other building <input type="checkbox"/> Yes, score less than cut-off <input type="checkbox"/> Yes, other hazards present <input type="checkbox"/> No Detailed Nonstructural Evaluation Recommended? (check one) <input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated <input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary <input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK
LEVEL 2 SCREENING PERFORMED? <input type="checkbox"/> Yes, Final Level 2 Score, S _{L2} _____ <input type="checkbox"/> No Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No		

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM = Unreinforced masonry infill MH = Asymmetric Housing FD = Flexible diaphragm BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.333 RVS form for Structure #174.9

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 545 LANE AVE Zip: 38104

Other Identifiers: 21801410

Building Name: LANE COLLEGE

Use: Schools

Latitude: 35.628127 **Longitude:** -88.826693

Sr: 0.741 **Sr:** 0.271

Screeener(s): Abdelrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1971 EST

Total Floor Area (sq. ft.): 5610 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (IAC)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF IN)	PC1 (TU)	PC2	RM1 (FD)	RM2 (FD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.7	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.5	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.5	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} -0.1 < 0.3

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry mfr LM = Light metal MH = Asymmetric Housing FD = Flexible diaphragm BR = Braced frame SW = Shear wall TU = Tilt up RD = Rigid diaphragm

Figure J.334 RVS form for Structure #174.10

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 545 LANE AVE Zip: 38101

Other Identifiers: 21801941

Building Name: LANE COLLEGE

Use: Schools

Latitude: 35.628169 **Longitude:** -88.827154

Sr: 0.241 **St:** 0.271

Screeener(s): Abdelrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1971 EST

Total Floor Area (sq. ft.): 7931 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (IAC)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF IN)	PC1 (TU)	PC2	RM1 (FD)	RM2 (FD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.7	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.8	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.5	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.7 > 0.3

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Assembled Housing FD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.335 RVS form for Structure #174.11

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 545 LANE AVE Zip: 38101

Other Identifiers: 21801912

Building Name: LANE COLLEGE

Use: Schools

Latitude: 35.627074 **Longitude:** -88.826949

Sr: 0.741 **Sr:** 0.271

Screeener(s): Abdelrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1971 EST

Total Floor Area (sq. ft.): 4271 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{1F}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF IN)	PC1 (TU)	PC2 (TU)	RM1 (PD)	RM2 (PD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.3	NA
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.5	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	NA	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{1min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{1F} ≥ S_{1min} 1.1 > 0.2

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{2F} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{2F} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry mfr LM = Light metal PD = Flexible diaphragm BR = Braced frame SW = Shear wall TU = Tilt up MH = Amplified Housing RD = Rigid diaphragm

Figure J.336 RVS form for Structure #174.12

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 545 LANE AVE Zip: 38104

Other Identifiers: 218019423

Building Name: LANE COLLEGE

Use: Schools

Latitude: 35.628414 **Longitude:** -88.827799

Sr: 0.742 **Sr:** 0.271

Screeener(s): Abdelrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1971 EST

Total Floor Area (sq. ft.): 975 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF IN)	PC1 (TU)	PC2 (TU)	RM1 (FD)	RM2 (FD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.3	NA
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	NA	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 3.1 > 0.2

EXTENT OF REVIEW	OTHER HAZARDS	ACTION REQUIRED
Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____	Are There Hazards That Trigger A Detailed Structural Evaluation? <input type="checkbox"/> Pounding potential (unless S _{L1} > out-of, if known) <input type="checkbox"/> Falling hazards from taller adjacent building <input type="checkbox"/> Geologic hazards or Soil Type F <input type="checkbox"/> Significant damage/deterioration to the structural system	Detailed Structural Evaluation Required? <input type="checkbox"/> Yes, unknown FEMA building type or other building <input type="checkbox"/> Yes, score less than cut-off <input type="checkbox"/> Yes, other hazards present <input type="checkbox"/> No Detailed Nonstructural Evaluation Recommended? (check one) <input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated <input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary <input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK
LEVEL 2 SCREENING PERFORMED? <input type="checkbox"/> Yes, Final Level 2 Score, S _{L2} _____ <input type="checkbox"/> No Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No	Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know	


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry mfr LM = Light metal MH = Assembled Housing FD = Flexible diaphragm BR = Braced frame SW = Shear wall TU = Tilt up RM = Rigid diaphragm

Figure J.337 RVS form for Structure #174.13

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 545 LANE AVE Zip: 38104

Other Identifiers: 21801442

Building Name: LANE COLLEGE

Use: Schools

Latitude: 35.670932 **Longitude:** -88.856912

Sr: 0.742 **Sr:** 0.271

Screeener(s): Abdelrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1971 EST

Total Floor Area (sq. ft.): 35170 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF IN)	PC1 (TU)	PC2 (TU)	RM1 (FD)	RM2 (FD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.5	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	NA	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 7.1 > 0.5

EXTENT OF REVIEW	OTHER HAZARDS	ACTION REQUIRED
Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____	Are There Hazards That Trigger A Detailed Structural Evaluation? <input type="checkbox"/> Pounding potential (unless S _{L1} > out-of, if known) <input type="checkbox"/> Falling hazards from taller adjacent building <input type="checkbox"/> Geologic hazards or Soil Type F <input type="checkbox"/> Significant damage/deterioration to the structural system	Detailed Structural Evaluation Required? <input type="checkbox"/> Yes, unknown FEMA building type or other building <input type="checkbox"/> Yes, score less than out-of <input type="checkbox"/> Yes, other hazards present <input type="checkbox"/> No Detailed Nonstructural Evaluation Recommended? (check one) <input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated <input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary <input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK
LEVEL 2 SCREENING PERFORMED? <input type="checkbox"/> Yes, Final Level 2 Score, S _{L2} _____ <input type="checkbox"/> No Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No	Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know	


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry mfr IM = Insulated masonry IM = Light metal FD = Flexible diaphragm BR = Braced frame SW = Shear wall TU = Tilt up RD = Rigid diaphragm

Figure J.338 RVS form for Structure #174.14

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 545 LANE AVE Zip: 38104

Other Identifiers: 218019415

Building Name: LANE COLLEGE

Use: Schools

Latitude: 35.670349 **Longitude:** -88.826787

Sr: 0.742 **Sr:** 0.372

Screeener(s): Abdelrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1906 551

Total Floor Area (sq. ft.): 7446 **Code Year:** 1993

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (PREF)	S2 (HRT)	S3 (LH)	S4 (RC (BRK SW))	S5 (HRT (BT))	C1 (SW)	C2 (SW)	C3 (LITE (N))	PC1 (TU)	PC2	RM1 (P)	RM2 (P)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.5	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.6	0.9	0.5	0.9	0.9	0.6	0.6	0.7	0.9	0.7	0.6	0.8	0.6	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	NA	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 3.7 > 0.5

<p>EXTENT OF REVIEW</p> <p>Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered</p> <p>Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Soil Type Source: _____</p> <p>Geologic Hazards Source: _____</p> <p>Contact Person: _____</p> <p>LEVEL 2 SCREENING PERFORMED?</p> <p><input type="checkbox"/> Yes, Final Level 2 Score, S_{L2} _____ <input type="checkbox"/> No</p> <p>Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>OTHER HAZARDS</p> <p>Are There Hazards That Trigger A Detailed Structural Evaluation?</p> <p><input type="checkbox"/> Pounding potential (unless S_{L2} > out-of, if known)</p> <p><input type="checkbox"/> Falling hazards from taller adjacent building</p> <p><input type="checkbox"/> Geologic hazards or Soil Type F</p> <p><input type="checkbox"/> Significant damage/deterioration to the structural system</p>	<p>ACTION REQUIRED</p> <p>Detailed Structural Evaluation Required?</p> <p><input type="checkbox"/> Yes, unknown FEMA building type or other building</p> <p><input type="checkbox"/> Yes, score less than cut-off</p> <p><input type="checkbox"/> Yes, other hazards present</p> <p><input type="checkbox"/> No</p> <p>Detailed Nonstructural Evaluation Recommended? (check one)</p> <p><input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated</p> <p><input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary</p> <p><input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK</p>
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Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Assembled Housing PD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.339 RVS form for Structure #174.15

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 545 LANE AVE Zip: 38104

Other Identifiers: 218017416

Building Name: LANE COLLEGE

Use: Schools

Latitude: 35.670537 **Longitude:** -88.856193

Sr: 0.742 **Sr:** 0.372

Screeener(s): Abdelrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1971 EST

Total Floor Area (sq. ft.): 4704 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (RR)	S2 (RR)	S3 (I)	S4 (RC SW)	S5 (RR BT)	C1 (SW)	C2 (SW)	C3 (RR IN)	PC1 (TU)	PC2	RM1 (PD)	RM2 (PD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.5	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	NA	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 2.2 > 0.9

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM = Unreinforced masonry infill MH = Asymmetric Housing PD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.340 RVS form for Structure #174.16

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 545 LANE AVE Zip: 38104

Other Identifiers: 21801917

Building Name: LANE COLLEGE

Use: Schools

Latitude: 35.631219 **Longitude:** -88.825877

Sr: 0.742 **Sr:** 0.372

Screeener(s): Abdelrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1906 EST

Total Floor Area (sq. ft.): 1454 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{1F}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF)	C1 (SW)	C2 (SW)	C3 (MRF)	PC1 (TU)	PC2 (TU)	RM1 (FD)	RM2 (FD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	NA	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{1min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.4

FINAL LEVEL 1 SCORE, S_{1F} ≥ S_{1min} 0.7 > 0.2

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{1F} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM = Unreinforced masonry infill MH = Assembled Housing FD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.341 RVS form for Structure #174.17

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 705 LAMBUTH BLVD Zip: 38104

Other Identifiers: 21N017501

Building Name: UNIVERSITY OF MEMPHIS - LAMBUTH

Use: Schools

Latitude: 35.621558 **Longitude:** -89.877767

S: 0.747 **Sr:** 0.273

Screeener(s): Abdourahmou Abdelhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1949 EST

Total Floor Area (sq. ft.): 13540 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MR)	S2 (MR)	S3 (L)	S4 (RC SW)	S5 (RM BT)	C1 (SW)	C2 (SW)	C3 (LRC IN)	PC1 (L)	PC2	RM1 (PD)	RM2 (PD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.8	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 9.3 > 9.3

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
 None Visible Entered

Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MR = Moment-resisting frame RC = Reinforced concrete URM = Unreinforced masonry infill MH = Assembled Housing PD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.342 RVS form for Structure #175.1

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 705 LAMBUTH BLVD Zip: 38104

Other Identifiers: 21N017502

Building Name: UNIVERSITY OF MEMPHIS - LAMBUTH

Use: Schools

Latitude: 35.624181 **Longitude:** -89.878134

S: 0.747 **Sr:** 0.273

Screeener(s): Abdelrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1949 EST

Total Floor Area (sq. ft.): 8888 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																			
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (RRF)	S2 (RRF)	S3 (RRF)	S4 (RRF SW)	S5 (RRF RT)	C1 (RRF)	C2 (RRF)	C3 (RRF IN)	PC1 (TU)	PC2 (TU)	RM1 (FD)	RM2 (FD)	URW	MH	
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2	
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA	
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.9	-0.3	
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2	
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9	
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5	
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA	
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.4	

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.1 < 0.2

EXTENT OF REVIEW	OTHER HAZARDS	ACTION REQUIRED
Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____	Are There Hazards That Trigger A Detailed Structural Evaluation? <input type="checkbox"/> Pounding potential (unless S _{L1} > out-of, if known) <input type="checkbox"/> Falling hazards from taller adjacent building <input type="checkbox"/> Geologic hazards or Soil Type F <input type="checkbox"/> Significant damage/deterioration to the structural system	Detailed Structural Evaluation Required? <input type="checkbox"/> Yes, unknown FEMA building type or other building <input type="checkbox"/> Yes, score less than out-of <input type="checkbox"/> Yes, other hazards present <input type="checkbox"/> No Detailed Nonstructural Evaluation Recommended? (check one) <input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated <input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary <input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK
LEVEL 2 SCREENING PERFORMED? <input type="checkbox"/> Yes, Final Level 2 Score, S _{L2} _____ <input type="checkbox"/> No Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No	Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know	


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM = Unreinforced masonry infill MH = Assembled Housing FD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RM = Rigid diaphragm

Figure J.343 RVS form for Structure #175.2

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 705 LAMBUTH BLVD Zip: 38104

Other Identifiers: J1N0L7503

Building Name: UNIVERSITY OF MEMPHIS - LAMBUTH

Use: Schools

Latitude: 35.634199 **Longitude:** -89.879903

S: 0.748 **Sr:** 0.273

Screeener(s): Abdelrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1949 EST

Total Floor Area (sq. ft.): 7800 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{1F}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MR)	S2 (MR)	S3 (MR)	S4 (RC SW)	S5 (RC BT)	C1 (SW)	C2 (SW)	C3 (URC IN)	PC1 (TU)	PC2 (TU)	RM1 (PD)	RM2 (PD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.5	NA
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.6	0.9	0.5	0.9	0.9	0.6	0.6	0.7	0.9	0.7	0.6	0.6	0.6	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.6	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{1min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{1F} ≥ S_{1min} 0.9 > 0.2

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
 None Visible Entered

Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{1F} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MR = Moment-resisting frame RC = Reinforced concrete URM = Unreinforced masonry infill MH = Assembled Housing PD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.344 RVS form for Structure #175.3

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 705 LAMBUTH BLVD Zip: 38104

Other Identifiers: J1N0L7500

Building Name: UNIVERSITY OF MEMPHIS - LAMBUTH

Use: Schools

Latitude: 35.634229 **Longitude:** -89.879666

S: 0.748 **Sr:** 0.273

Screeener(s): Abdelrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1949 EST

Total Floor Area (sq. ft.): 7221 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{1F}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF IN)	PC1 (TU)	PC2 (TU)	RM1 (FD)	RM2 (FD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.8	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{1min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{1F} ≥ S_{1min} 1.1 > 0.2

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S₂ _____ No
Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S₂ > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry mfr LM = Light metal MH = Assembled Housing FD = Flexible diaphragm BR = Braced frame SW = Shear wall TU = Tilt up RM = Rigid diaphragm

Figure J.345 RVS form for Structure #175.4

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 705 LAMBUTH BLVD Zip: 38104

Other Identifiers: JN017505

Building Name: UNIVERSITY OF MEMPHIS - LAMBUTH

Use: Schools

Latitude: 35.623571 **Longitude:** -89.879907

Sr: 0.748 **Sr:** 0.273

Screeener(s): Abdelrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1949 EST

Total Floor Area (sq. ft.): 7601 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (URC IN)	PC1 (TU)	PC2 (TU)	RM1 (FD)	RM2 (FD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.9 > 0.3

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
 None Visible Entered

Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Assembled Housing FD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.346 RVS form for Structure #175.5

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 705 LAMBUTH BLVD Zip: 38104

Other Identifiers: J1N0L7506

Building Name: UNIVERSITY OF MEMPHIS - LAMBUTH

Use: Schools

Latitude: 35.623771 **Longitude:** -89.811577

Sr: 0.749 **Sr:** 0.273

Screeener(s): Abdelrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1949 EST

Total Floor Area (sq. ft.): 48800 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (RRF)	S2 (RRF)	S3 (I _h)	S4 (RC SW)	S5 (RRF BT)	C1 (SW)	C2 (SW)	C3 (L ₁ IN)	PC1 (TU)	PC2	RM1 (FD)	RM2 (FD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.2 < 0.0

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
 None Visible Entered

Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM = Unreinforced masonry infill MH = Assembled Housing FD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.347 RVS form for Structure #175.6

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 705 LAMBUTH BLVD Zip: 38104

Other Identifiers: JN017507

Building Name: UNIVERSITY OF MEMPHIS - LAMBUTH

Use: Schools

Latitude: 35.623148 **Longitude:** -89.810764

S: 0.748 **Sr:** 0.273

Screeener(s): Abdelrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1949 EST

Total Floor Area (sq. ft.): 13450 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MR)	S2 (MR)	S3 (L)	S4 (RC SW)	S5 (RM BT)	C1 (SW)	C2 (SW)	C3 (LRC IN)	PC1 (L)	PC2	RM1 (R)	RM2 (R)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.3	NA
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.0 > 0.2

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
 None Visible Entered

Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MR = Moment-resisting frame RC = Reinforced concrete URM = Unreinforced masonry masonry wall MH = Assembled Housing PD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RM = Rigid diaphragm

Figure J.348 RVS form for Structure #175.7

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 705 LAMBUTH BLVD Zip: 38104

Other Identifiers: JN017508

Building Name: UNIVERSITY OF MEMPHIS - LAMBUTH

Use: Schools

Latitude: 35.62021 **Longitude:** -89.879864

S: 0.747 **Sr:** 0.273

Screeener(s): Abdelrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1949 EST

Total Floor Area (sq. ft.): 75840 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																			
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MR)	S2 (MR)	S3 (L)	S4 (RC SW)	S5 (RM BT)	C1 (SW)	C2 (SW)	C3 (LRC IN)	PC1 (L)	PC2	RM1 (R)	RM2 (R)	URW	MH	
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2	
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA	
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA	
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA	
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.3	NA	
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2	
Soil Type A or B		0.3	0.6	0.9	0.6	0.9	0.5	0.9	0.9	0.6	0.6	0.7	0.9	0.7	0.6	0.6	0.6	0.9	
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5	
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.6	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA	
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4	
FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min}		0.0 > 0.2																	

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
 None Visible Entered

Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know

Legend: MR = Moment-resisting frame RC = Reinforced concrete URM = Unreinforced masonry infill MH = Assembled Housing PD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RM = Rigid diaphragm

Figure J.349 RVS form for Structure #175.8

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH

SKETCH

Additional sketches or comments on separate page

Address: 705 LAMBUTH BLVD Zip: 38104

Other Identifiers: J1N0L7509

Building Name: UNIVERSITY OF MEMPHIS - LAMBUTH

Use: Schools

Latitude: 35.620009 **Longitude:** -89.876993

Sr: 0.747 **Sr:** 0.273

Screeener(s): Abdelrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1949 EST

Total Floor Area (sq. ft.): 7117 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (URC IN)	PC1 (TU)	PC2 (TU)	RM1 (FD)	RM2 (FD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.3	NA
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.0 > 0.2

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No
Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry mfr IM = Insulated masonry IM = Light metal FD = Flexible diaphragm RD = Rigid diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up

Figure J.350 RVS form for Structure #175.9

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 705 LAMBUTH BLVD Zip: 38104

Other Identifiers: 21807510

Building Name: UNIVERSITY OF MEMPHIS - LAMBUTH

Use: Schools

Latitude: 35.623 **Longitude:** -89.876155

Sr: 0.802 **Sr:** 0.289

Screeener(s): Abdelrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1949 EST

Total Floor Area (sq. ft.): 16000 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF IN)	PC1 (TU)	PC2 (TU)	RM1 (FD)	RM2 (FD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.7	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.6	0.9	0.5	0.9	0.9	0.6	0.6	0.7	0.9	0.7	0.6	0.8	0.6	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	NA	NA	-0.7	-0.6	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.2 < 0.3

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM = Unreinforced masonry infill MH = Asymmetric Housing FD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RM = Rigid diaphragm

Figure J.351 RVS form for Structure #175.10

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH

SKETCH

Additional sketches or comments on separate page

Address: 2031 HWY 45 BYPASS
Zip: 38104

Other Identifiers: 218017600

Building Name: THE UNIVERSITY OF TENNESSEE-MARTIN
Use: Schools

Latitude: 35.699347 **Longitude:** -88.856743
Sr: 0.774 **Sr:** 0.38

Screeener(s): Abdelrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1906 EST

Total Floor Area (sq. ft.): 6478 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity):
 Plan (type):

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MR)	S2 (MR)	S3 (L)	S4 (RC SW)	S5 (RM RT)	C1 (SW)	C2 (SW)	C3 (LRT IN)	PC1 (L)	PC2 (L)	RM1 (RM)	RM2 (RM)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.5	2.1	NA	2.1	2.4	2.1	NA	1.2	
Soil Type A or B		0.3	0.6	0.9	0.6	0.9	0.5	0.9	0.9	0.6	0.6	0.7	0.9	0.7	0.6	0.8	0.6	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.6	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 3.8 > 0.3

<p>EXTENT OF REVIEW</p> <p>Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered</p> <p>Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Soil Type Source: _____</p> <p>Geologic Hazards Source: _____</p> <p>Contact Person: _____</p> <p>LEVEL 2 SCREENING PERFORMED?</p> <p><input type="checkbox"/> Yes, Final Level 2 Score, S_{L2} _____ <input type="checkbox"/> No</p> <p>Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>OTHER HAZARDS</p> <p>Are There Hazards That Trigger A Detailed Structural Evaluation?</p> <p><input type="checkbox"/> Pounding potential (unless S_{L2} > out-of, if known)</p> <p><input type="checkbox"/> Falling hazards from taller adjacent building</p> <p><input type="checkbox"/> Geologic hazards or Soil Type F</p> <p><input type="checkbox"/> Significant damage/deterioration to the structural system</p>	<p>ACTION REQUIRED</p> <p>Detailed Structural Evaluation Required?</p> <p><input type="checkbox"/> Yes, unknown FEMA building type or other building</p> <p><input type="checkbox"/> Yes, score less than out-of</p> <p><input type="checkbox"/> Yes, other hazards present</p> <p><input type="checkbox"/> No</p> <p>Detailed Nonstructural Evaluation Recommended? (check one)</p> <p><input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated</p> <p><input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary</p> <p><input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK</p>
---	--	---

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know


Legend: MR = Moment-resisting frame RC = Reinforced concrete URM = Unreinforced masonry infill MH = Asymmetric housing PD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RM = Rigid diaphragm

Figure J.352 RVS form for Structure #176

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 77 CARRIAGE HOUSE DR Zip: 38104

Other Identifiers: 21801700

Building Name: MEMPHIS INSTITUTE OF BARBERING - JACKSON

Use: Schools

Latitude: 35.668125 **Longitude:** -89.813107

Sr: 0.774 **Sr:** 0.38

Screeener(s): Abdelrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1980 551

Total Floor Area (sq. ft.): 50000 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{1F}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF IN)	PC1 (TU)	PC2 (TU)	RM1 (PD)	RM2 (PD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.3	NA
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.6	0.9	0.5	0.9	0.9	0.6	0.6	0.7	0.9	0.7	0.6	0.6	0.6	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.6	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{1min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{1F} ≥ S_{1min} 1.1 > 0.2

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S₂ _____ No
Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S₂ > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/degradation to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Assembled Housing PD = Flexible diaphragm BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.353 RVS form for Structure #177

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH

SKETCH

Additional sketches or comments on separate page

Address: 2045 NORTH PARKWAY
Zip: 38101

Other Identifiers: 21801901

Building Name: TENNESSEE COLLEGE OF APPLIED TECHNOLOGY

Use: Schools

Latitude: 35.645502 **Longitude:** -88.779944

Sr: 0.74 **Sr:** 0.271

Screeners: Abdelrahman Abdelhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1971 EST

Total Floor Area (sq. ft.): 18555 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF IN)	PC1 (TU)	PC2 (TU)	RM1 (FD)	RM2 (FD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.6	0.9	0.5	0.9	0.9	0.6	0.6	0.7	0.9	0.7	0.6	0.8	0.6	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.6	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.0 < **0.3**

<p>EXTENT OF REVIEW</p> <p>Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered</p> <p>Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Soil Type Source: _____</p> <p>Geologic Hazards Source: _____</p> <p>Contact Person: _____</p>	<p>OTHER HAZARDS</p> <p>Are There Hazards That Trigger A Detailed Structural Evaluation?</p> <p><input type="checkbox"/> Pounding potential (unless S_{L1} > out-of, if known)</p> <p><input type="checkbox"/> Falling hazards from taller adjacent building</p> <p><input type="checkbox"/> Geologic hazards or Soil Type F</p> <p><input type="checkbox"/> Significant damage/degradation to the structural system</p>	<p>ACTION REQUIRED</p> <p>Detailed Structural Evaluation Required?</p> <p><input type="checkbox"/> Yes, unknown FEMA building type or other building</p> <p><input type="checkbox"/> Yes, score less than out-of</p> <p><input type="checkbox"/> Yes, other hazards present</p> <p><input type="checkbox"/> No</p> <p>Detailed Nonstructural Evaluation Recommended? (check one)</p> <p><input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated</p> <p><input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary</p> <p><input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK</p>
--	--	---

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Assembled Housing FD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.354 RVS form for Structure #178.1

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH

SKETCH

Additional sketches or comments on separate page

Address: 2045 NORTH PARKWAY
Zip: 38104

Other Identifiers: 21N01952

Building Name: TENNESSEE COLLEGE OF APPLIED TECHNOLOGY

Use: Schools

Latitude: 35.645565 **Longitude:** -88.769957

Sr: 0.74 **Sr:** 0.271

Screeener(s): Abdelrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1971 EST

Total Floor Area (sq. ft.): 17850 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF IN)	PC1 (TU)	PC2 (TU)	RM1 (PD)	RM2 (PD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-0.9	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.6	0.9	0.5	0.9	0.9	0.6	0.6	0.7	0.9	0.7	0.6	0.8	0.6	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.6	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.3 < 0.3

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No
Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/degradation to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Assembled Housing PD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.355 RVS form for Structure #178.2

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH

SKETCH

Additional sketches or comments on separate page

Address: 2045 NORTH PARKWAY
Zip: 38104

Other Identifiers: 21N01950

Building Name: TENNESSEE COLLEGE OF APPLIED TECHNOLOGY

Use: Schools

Latitude: 35.645505 **Longitude:** -88.782117

Sr: 0.741 **Sr:** 0.271

Screeener(s): Abdelrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1971 EST

Total Floor Area (sq. ft.): 35200 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity):
 Plan (type):

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (IAC)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (SRC IN)	PC1 (TU)	PC2 (TU)	RM1 (FD)	RM2 (FD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.6	0.9	0.5	0.9	0.9	0.6	0.6	0.7	0.9	0.7	0.6	0.6	0.6	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 1.0 > 0.5

EXTENT OF REVIEW	OTHER HAZARDS	ACTION REQUIRED
Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____	Are There Hazards That Trigger A Detailed Structural Evaluation? <input type="checkbox"/> Pounding potential (unless S _{L1} > out-of, if known) <input type="checkbox"/> Falling hazards from taller adjacent building <input type="checkbox"/> Geologic hazards or Soil Type F <input type="checkbox"/> Significant damage/deterioration to the structural system	Detailed Structural Evaluation Required? <input type="checkbox"/> Yes, unknown FEMA building type or other building <input type="checkbox"/> Yes, score less than out-of <input type="checkbox"/> Yes, other hazards present <input type="checkbox"/> No Detailed Nonstructural Evaluation Recommended? (check one) <input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated <input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary <input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK
LEVEL 2 SCREENING PERFORMED? <input type="checkbox"/> Yes, Final Level 2 Score, S _{L2} _____ <input type="checkbox"/> No Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No	Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know	

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry mfr LM = Light metal
BR = Braced frame SW = Shear wall TU = Tilt up MH = Assembled Housing FD = Flexible diaphragm RD = Rigid diaphragm

Figure J.356 RVS form for Structure #178.3

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH

SKETCH

Additional sketches or comments on separate page

Address: 2045 NORTH PARKWAY
Zip: 38104

Other Identifiers: 21801800

Building Name: TENNESSEE COLLEGE OF APPLIED TECHNOLOGY

Use: Schools

Latitude: 35.645961 **Longitude:** -88.782604

Sr: 0.241 **Sr:** 0.271

Screeener(s): Abdelrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1971 2011

Total Floor Area (sq. ft.): 5714 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity):
 Plan (type):

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (URC IN)	PC1 (TU)	PC2 (TU)	RM1 (PD)	RM2 (PD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.3	NA
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.6	0.9	0.5	0.9	0.9	0.6	0.6	0.7	0.9	0.7	0.6	0.6	0.6	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 1.1 > 0.2

EXTENT OF REVIEW	OTHER HAZARDS	ACTION REQUIRED
Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____	Are There Hazards That Trigger A Detailed Structural Evaluation? <input type="checkbox"/> Pounding potential (unless S _{L1} > out-of, if known) <input type="checkbox"/> Falling hazards from taller adjacent building <input type="checkbox"/> Geologic hazards or Soil Type F <input type="checkbox"/> Significant damage/deterioration to the structural system	Detailed Structural Evaluation Required? <input type="checkbox"/> Yes, unknown FEMA building type or other building <input type="checkbox"/> Yes, score less than out-of <input type="checkbox"/> Yes, other hazards present <input type="checkbox"/> No Detailed Nonstructural Evaluation Recommended? (check one) <input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated <input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary <input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK
LEVEL 2 SCREENING PERFORMED? <input type="checkbox"/> Yes, Final Level 2 Score, S _{L2} _____ <input type="checkbox"/> No Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No	Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know	

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry mfr LM = Light metal
BR = Braced frame SW = Shear wall TU = Tilt up MH = Assembled Housing PD = Flexible diaphragm RD = Rigid diaphragm

Figure J.357 RVS form for Structure #178.4

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH

SKETCH

Additional sketches or comments on separate page

Address: 2045 NORTH PARKWAY
Zip: 38104

Other Identifiers: 21N019005

Building Name: TENNESSEE COLLEGE OF APPLIED TECHNOLOGY

Use: Schools

Latitude: 35.645129 **Longitude:** -88.78325

Sr: 0.241 **Sr:** 0.271

Screeener(s): Abdelrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1971 EST

Total Floor Area (sq. ft.): 13400 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (RM)	S4 (RC SW)	S5 (RM BT)	C1 (SW)	C2 (SW)	C3 (RM IN)	PC1 (TU)	PC2 (TU)	RM1 (RM)	RM2 (RM)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.7	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.5	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.7 > 0.3

EXTENT OF REVIEW	OTHER HAZARDS	ACTION REQUIRED
Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____	Are There Hazards That Trigger A Detailed Structural Evaluation? <input type="checkbox"/> Pounding potential (unless S _{L1} > out-of, if known) <input type="checkbox"/> Falling hazards from taller adjacent building <input type="checkbox"/> Geologic hazards or Soil Type F <input type="checkbox"/> Significant damage/deterioration to the structural system	Detailed Structural Evaluation Required? <input type="checkbox"/> Yes, unknown FEMA building type or other building <input type="checkbox"/> Yes, score less than out-of <input type="checkbox"/> Yes, other hazards present <input type="checkbox"/> No Detailed Nonstructural Evaluation Recommended? (check one) <input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated <input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary <input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK
LEVEL 2 SCREENING PERFORMED? <input type="checkbox"/> Yes, Final Level 2 Score, S _{L2} _____ <input type="checkbox"/> No Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No	Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know	

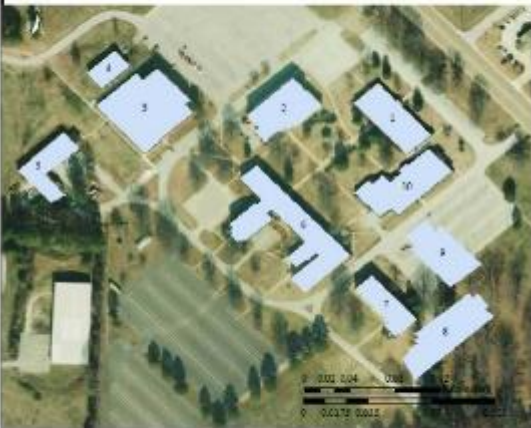
Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM = Unreinforced masonry infill MH = Asm. column housing PD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RM = Rigid diaphragm

Figure J.358 RVS form for Structure #178.5

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 2045 NORTH PARKWAY
Zip: 38104

Other Identifiers: 21801806

Building Name: TENNESSEE COLLEGE OF APPLIED TECHNOLOGY

Use: Schools

Latitude: 35.644721 **Longitude:** -88.769973

S: 0.24 **Sr:** 0.271

Screeener(s): Abdelrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1971 531

Total Floor Area (sq. ft.): 30050 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity):
 Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (URC IN)	PC1 (TU)	PC2 (TU)	RM1 (PD)	RM2 (PD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.6	0.9	0.5	0.9	0.9	0.6	0.6	0.7	0.9	0.7	0.6	0.8	0.6	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.6	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.0 > 0.3

EXTENT OF REVIEW	OTHER HAZARDS	ACTION REQUIRED
Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____	Are There Hazards That Trigger A Detailed Structural Evaluation? <input type="checkbox"/> Pounding potential (unless S _{L1} > out-of, if known) <input type="checkbox"/> Falling hazards from taller adjacent building <input type="checkbox"/> Geologic hazards or Soil Type F <input type="checkbox"/> Significant damage/deterioration to the structural system	Detailed Structural Evaluation Required? <input type="checkbox"/> Yes, unknown FEMA building type or other building <input type="checkbox"/> Yes, score less than out-of <input type="checkbox"/> Yes, other hazards present <input type="checkbox"/> No Detailed Nonstructural Evaluation Recommended? (check one) <input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated <input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary <input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK
LEVEL 2 SCREENING PERFORMED? <input type="checkbox"/> Yes, Final Level 2 Score, S _{L2} _____ <input type="checkbox"/> No Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No	Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know	

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry mfr LM = Light metal
 BR = Braced frame SW = Shear wall TU = Tilt up MH = Assembled Housing PD = Flexible diaphragm RD = Rigid diaphragm

Figure J.359 RVS form for Structure #178.6

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH

SKETCH

Additional sketches or comments on separate page

Address: 2045 NORTH PARKWAY
Zip: 38104

Other Identifiers: 21N017807

Building Name: TENNESSEE COLLEGE OF APPLIED TECHNOLOGY

Use: Schools

Latitude: 35.644004 **Longitude:** -88.760101

Sr: 0.229 **Sr:** 0.271

Screeener(s): Abdelrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1971 EST

Total Floor Area (sq. ft.): 11676 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (RM)	S4 (RC SW)	S5 (RM BT)	C1 (SW)	C2 (SW)	C3 (RM IN)	PC1 (TU)	PC2 (TU)	RM1 (RM)	RM2 (RM)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.6	0.9	0.5	0.9	0.9	0.6	0.6	0.7	0.9	0.7	0.6	0.8	0.6	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 1.3 > 0.3

EXTENT OF REVIEW	OTHER HAZARDS	ACTION REQUIRED
Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____	Are There Hazards That Trigger A Detailed Structural Evaluation? <input type="checkbox"/> Pounding potential (unless S _{L1} > out-of, if known) <input type="checkbox"/> Falling hazards from taller adjacent building <input type="checkbox"/> Geologic hazards or Soil Type F <input type="checkbox"/> Significant damage/deterioration to the structural system	Detailed Structural Evaluation Required? <input type="checkbox"/> Yes, unknown FEMA building type or other building <input type="checkbox"/> Yes, score less than out-of <input type="checkbox"/> Yes, other hazards present <input type="checkbox"/> No Detailed Nonstructural Evaluation Recommended? (check one) <input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated <input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary <input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK
LEVEL 2 SCREENING PERFORMED? <input type="checkbox"/> Yes, Final Level 2 Score, S _{L2} _____ <input type="checkbox"/> No Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No	Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know	

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry mfr LM = Light metal
BR = Braced frame SW = Shear wall TU = Tilt up MH = Assembled Housing PD = Flexible diaphragm RD = Rigid diaphragm

Figure J.360 RVS form for Structure #178.7

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH

SKETCH

Additional sketches or comments on separate page

Address: 2045 NORTH PARKWAY
Zip: 38104

Other Identifiers: 21801908

Building Name: TENNESSEE COLLEGE OF APPLIED TECHNOLOGY

Use: Schools

Latitude: 35.643764 **Longitude:** -88.779496

Sr: 0.229 **Sr:** 0.271

Screeener(s): Abdelrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1971 EST

Total Floor Area (sq. ft.): 75260 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (RM)	S4 (RC SW)	S5 (RM BT)	C1 (SW)	C2 (SW)	C3 (RM IN)	PC1 (TU)	PC2 (TU)	RM1 (RM)	RM2 (RM)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.8	-0.8	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.7 > 0.3

EXTENT OF REVIEW	OTHER HAZARDS	ACTION REQUIRED
Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____	Are There Hazards That Trigger A Detailed Structural Evaluation? <input type="checkbox"/> Pounding potential (unless S _{L1} > out-of, if known) <input type="checkbox"/> Falling hazards from taller adjacent building <input type="checkbox"/> Geologic hazards or Soil Type F <input type="checkbox"/> Significant damage/deterioration to the structural system	Detailed Structural Evaluation Required? <input type="checkbox"/> Yes, unknown FEMA building type or other building <input type="checkbox"/> Yes, score less than out-of <input type="checkbox"/> Yes, other hazards present <input type="checkbox"/> No Detailed Nonstructural Evaluation Recommended? (check one) <input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated <input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary <input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK
LEVEL 2 SCREENING PERFORMED? <input type="checkbox"/> Yes, Final Level 2 Score, S _{L2} _____ <input type="checkbox"/> No Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No		

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM = Unreinforced masonry infill MH = Asm. (solid) Masonry PD = Flexible diaphragm
 BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RM = Rigid diaphragm

Figure J.361 RVS form for Structure #178.8

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH

SKETCH

Additional sketches or comments on separate page

Address: 2045 NORTH PARKWAY
Zip: 38104

Other Identifiers: 21801929

Building Name: TENNESSEE COLLEGE OF APPLIED TECHNOLOGY

Use: Schools

Latitude: 35.644464 **Longitude:** -88.779463

Sr: 0.229 **Sr:** 0.271

Screeners: Abdelrahman Abdelhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1971 EST

Total Floor Area (sq. ft.): 70953 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity):
 Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (RM)	S4 (RC SW)	S5 (RM BR)	C1 (SW)	C2 (SW)	C3 (RM IN)	PC1 (TU)	PC2 (TU)	RM1 (RM)	RM2 (RM)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 1.2 > 0.5

EXTENT OF REVIEW	OTHER HAZARDS	ACTION REQUIRED
Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____	Are There Hazards That Trigger A Detailed Structural Evaluation? <input type="checkbox"/> Pounding potential (unless S _{L1} > out-of, if known) <input type="checkbox"/> Falling hazards from taller adjacent building <input type="checkbox"/> Geologic hazards or Soil Type F <input type="checkbox"/> Significant damage/deterioration to the structural system	Detailed Structural Evaluation Required? <input type="checkbox"/> Yes, unknown FEMA building type or other building <input type="checkbox"/> Yes, score less than out-of <input type="checkbox"/> Yes, other hazards present <input type="checkbox"/> No Detailed Nonstructural Evaluation Recommended? (check one) <input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated <input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary <input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK
LEVEL 2 SCREENING PERFORMED? <input type="checkbox"/> Yes, Final Level 2 Score, S _{L2} _____ <input type="checkbox"/> No Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No	Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know	

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM = Unreinforced masonry infill MH = Assembled Housing PD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RM = Rigid diaphragm

Figure J.362 RVS form for Structure #178.9

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH

SKETCH

Additional sketches or comments on separate page

Address: 2045 NORTH PARKWAY
Zip: 38104

Other Identifiers: 21801880

Building Name: TENNESSEE COLLEGE OF APPLIED TECHNOLOGY

Use: Schools

Latitude: 35.6451 **Longitude:** -88.779704

Sr: 0.74 **Sr:** 0.271

Screeener(s): Abdelrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1971 551

Total Floor Area (sq. ft.): 74227 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (MRF)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (MRF IN)	PC1 (TU)	PC2 (TU)	RM1 (FD)	RM2 (FD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.7	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.8	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.6	0.9	0.5	0.9	0.9	0.6	0.6	0.7	0.9	0.7	0.6	0.8	0.6	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.2 < 0.3

<p>EXTENT OF REVIEW</p> <p>Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered</p> <p>Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Soil Type Source: _____</p> <p>Geologic Hazards Source: _____</p> <p>Contact Person: _____</p> <p>LEVEL 2 SCREENING PERFORMED?</p> <p><input type="checkbox"/> Yes, Final Level 2 Score, S_{L2} _____ <input type="checkbox"/> No</p> <p>Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>OTHER HAZARDS</p> <p>Are There Hazards That Trigger A Detailed Structural Evaluation?</p> <p><input type="checkbox"/> Pounding potential (unless S_{L2} > out-of, if known)</p> <p><input type="checkbox"/> Falling hazards from taller adjacent building</p> <p><input type="checkbox"/> Geologic hazards or Soil Type F</p> <p><input type="checkbox"/> Significant damage/deterioration to the structural system</p>	<p>ACTION REQUIRED</p> <p>Detailed Structural Evaluation Required?</p> <p><input type="checkbox"/> Yes, unknown FEMA building type or other building</p> <p><input type="checkbox"/> Yes, score less than out-of</p> <p><input type="checkbox"/> Yes, other hazards present</p> <p><input type="checkbox"/> No</p> <p>Detailed Nonstructural Evaluation Recommended? (check one)</p> <p><input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated</p> <p><input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary</p> <p><input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK</p>
---	--	---

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Assembled Housing FD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.363 RVS form for Structure #178.10

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 540 SUNDY RD Zip: 18104

Other Identifiers: 21801950

Building Name: SOUTHELEMENTARY

Use: Schools

Latitude: 41.50056 **Longitude:** -88.71769

S: 0.66 **S:** 0.251

Screeener(s): Abdelrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1991 EST

Total Floor Area (sq. ft.): 82538 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor
Rock Rock Soil Soil Soil Soil
#DNK, assume Type D

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																			
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (M)	S4 (RC SW)	S5 (MRF)	C1 (SW)	C2 (SW)	C3 (MRF)	PC1 (TU)	PC2 (TU)	RM1 (TU)	RM2 (TU)	URW	MH	
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2	
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA	
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA	
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.5	NA	
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3	
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	NA	1.2		
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9	
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5	
Soil Type E (> 3 stories)		-0.5	-0.9	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA	
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4	
FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min}		2.0 > 0.3																	

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than out-of

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry mfr LM = Light metal
BR = Braced frame SW = Shear wall TU = Tilt up MH = Assembled Housing PD = Flexible diaphragm
RD = Rigid diaphragm

Figure J.364 RVS form for Structure #179

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
MODERATELY HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 2611 YOUTH TOWN RD Zip: 18104

Other Identifiers: 2180450

Building Name: GEORGE THOMAS JR ACADEMY

Use: Schools

Latitude: 41.498738 **Longitude:** -88.74866

Sr: 0.663 **Sr:** 0.152

Screener(s): Abdelrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1977 EST

Total Floor Area (sq. ft.): 3571-428467 **Code Year:** 1993

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (RRF)	S2 (RRF)	S3 (RRF)	S4 (RRF SW)	S5 (RRF RT)	C1 (RRF)	C2 (RRF)	C3 (RRF IN)	PC1 (TU)	PC2	RM1 (RR)	RM2 (RR)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	NA
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.3	NA
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.8	0.9	0.5	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.8	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.8	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 1.1 > 0.2


EXTENT OF REVIEW	OTHER HAZARDS	ACTION REQUIRED
Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____	Are There Hazards That Trigger A Detailed Structural Evaluation? <input type="checkbox"/> Pounding potential (unless S _{L1} > out-of, if known) <input type="checkbox"/> Falling hazards from taller adjacent building <input type="checkbox"/> Geologic hazards or Soil Type F <input type="checkbox"/> Significant damage/deterioration to the structural system	Detailed Structural Evaluation Required? <input type="checkbox"/> Yes, unknown FEMA building type or other building <input type="checkbox"/> Yes, score less than out-of <input type="checkbox"/> Yes, other hazards present <input type="checkbox"/> No Detailed Nonstructural Evaluation Recommended? (check one) <input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated <input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary <input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK
LEVEL 2 SCREENING PERFORMED? <input type="checkbox"/> Yes, Final Level 2 Score, S _{L2} _____ <input type="checkbox"/> No Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No	Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know	

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM M = Unreinforced masonry mlf = Light metal MH = Assembled Housing PD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.365 RVS form for Structure #180

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
HIGH Seismicity

<p>PHOTOGRAPH</p>  <p style="text-align: center;">SKETCH</p>	<p>Address: 800 ROSEMARE RD Zip: 38054</p> <p>Other Identifiers: F000151</p> <p>Building Name: ATOKA ELEMENTARY SCHOOL</p> <p>Use: Schools</p> <p>Latitude: 35.422167 Longitude: 89.767439</p> <p>Sr: J.121 Sr: 0.184</p> <p>Screeners(s): Abdulmutau Abdulhadi Date/Time:</p>
	<p>No. Stories: Above Grade: _____ Below Grade: _____ Year Built: 2007 <input type="checkbox"/> est</p> <p>Total Floor Area (sq. ft.): 89404 Code Year: 1991</p> <p>Additions: <input type="checkbox"/> None <input type="checkbox"/> Yes, Year(s) Built: _____</p> <p>Occupancy: Assembly <input type="checkbox"/> Commercial <input type="checkbox"/> Enter, Specify <input type="checkbox"/> Historic <input type="checkbox"/> Shelter Industrial <input type="checkbox"/> Office <input checked="" type="checkbox"/> School <input type="checkbox"/> Government Utility <input type="checkbox"/> Warehouse <input type="checkbox"/> Residential, # Units: _____</p> <p>Soil Type: <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input checked="" type="checkbox"/> D <input type="checkbox"/> E <input type="checkbox"/> F <input type="checkbox"/> DNK <small>Hard Avg Dense Stiff Soft Poor #DNK, assume Type D Rock Rock Soil Soil Soil Soil</small></p> <p>Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK</p> <p>Adjacency: <input type="checkbox"/> Pounding <input type="checkbox"/> Falling Hazards from Taller Adjacent Building</p> <p>Irregularities: <input checked="" type="checkbox"/> Vertical (type/severity) _____ <input checked="" type="checkbox"/> Plan (type) _____</p> <p>Exterior Falling Hazards: <input type="checkbox"/> Unbraced Chimneys <input type="checkbox"/> Heavy Cladding or Heavy Veneer <input type="checkbox"/> Parapets <input type="checkbox"/> Appendages <input type="checkbox"/> Other: _____</p> <p>COMMENTS:</p> <p style="text-align: right;"><input type="checkbox"/> Additional sketches or comments on separate page</p>

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (L)	S4 (RC (MRF))	S5 (RC (RF))	C1 (MRF)	C2 (BR)	C3 (RF)	PC1 (TU)	PC2	RM1 (F)	RM2 (F)	UR1	MH
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V ₁		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, V ₂		-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.5	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, P ₁		-1.1	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.6	-0.6	-0.5	-0.7	-0.6	-0.7	-0.7	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmarks		1.5	1.9	2.2	1.4	1.4	1.1	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.3	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.6	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S _{min}		1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 2.4 ≥ 0.3

<p>EXTENT OF REVIEW</p> <p>Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial</p> <p>Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered</p> <p>Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Soil Type Source: _____</p> <p>Geologic Hazards Source: _____</p> <p>Contact Person: _____</p> <p>LEVEL 2 SCREENING PERFORMED?</p> <p><input type="checkbox"/> Yes, Final Level 2 Score, S_{L2} _____ <input type="checkbox"/> No</p> <p>Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>OTHER HAZARDS</p> <p>Are There Hazards That Trigger A Detailed Structural Evaluation?</p> <p><input type="checkbox"/> Pounding potential (unless S_{L1} > out-off, if known)</p> <p><input type="checkbox"/> Falling hazards from taller adjacent building</p> <p><input type="checkbox"/> Geologic hazards or Soil Type F</p> <p><input type="checkbox"/> Significant damage/deterioration to the structural system</p>	<p>ACTION REQUIRED</p> <p>Detailed Structural Evaluation Required?</p> <p><input type="checkbox"/> Yes, unknown FEMA building type or other building</p> <p><input type="checkbox"/> Yes, score less than cut-off</p> <p><input type="checkbox"/> Yes, other hazards present</p> <p><input type="checkbox"/> No</p> <p>Detailed Nonstructural Evaluation Recommended? (check one)</p> <p><input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated</p> <p><input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary</p> <p><input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK</p>
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Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (RF) = Unreinforced masonry infill MH = Manufactured Housing FD = Flexible diaphragm
 BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.366 RVS form for Structure #181.1

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
HIGH Seismicity

PHOTOGRAPH

Address: 300 ROSEMARE RD **Zip:** 38054

Other Identifiers: F000152

Building Name: ADDIKA ELEMENTARY SCHOOL (ADD SAFE R)

Use: Schools

Latitude: 35.42384 **Longitude:** -89.768804

Sr: 1.121 **Sr:** 0.184

Screeners(s): Abdulmutalib Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 2014 est

Total Floor Area (sq. ft.): 8400 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Elementary School Historic Shelter
Industrial Office School Government
Library Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Stiff Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity):
 Plan (type):

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S_{L1}

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (L)	S4 (RC BR)	S5 (MRF)	C1 (MRF)	C2 (BR)	C3 (L)	PC1 (TU)	PC2	RM1 (FX)	RM2 (FE)	UR1	MH
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V ₁		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, V ₂		-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.5	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, P ₁		-1.1	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.6	-0.6	-0.5	-0.7	-0.6	-0.7	-0.7	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmarks		1.5	1.9	2.2	1.4	1.4	1.1	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.3	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.6	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S _{min}		1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} **3.8** ≥ 2.0

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered
Drawings Reviewed: Yes No
Soil Type Source: _____
Geologic Hazards Source: _____
Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No
Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > out-off, if known)
 Falling hazards from taller adjacent building
 Geologic hazards or Soil Type F
 Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building
 Yes, score less than cut-off
 Yes, other hazards present
 No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated
 No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary
 No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM/MF = Unreinforced masonry/mill BR = Braced frame SW = Shear wall TU = Tilt up MH = Manufactured Housing LM = Light metal FD = Flexible diaphragm RD = Rigid diaphragm

Figure J.367 RVS form for Structure #181.2

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 7785 JEWRY ST, SOUTH ZIP: 38011

Other Identifiers: 1N00250

Building Name: BRIGHTON MIDDLE SCHOOL

Use: Schools

Latitude: 35.482402 **Longitude:** 89.743007

Sr: 1.189 **Sr:** 0.403

Screener(s): Abdulmutab Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1999 est

Total Floor Area (sq. ft.): 130,300 **Code Year:** 1991

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial Elementary Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity): _____
 Plan (type): _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LC)	S4 (RC BR)	S5 (MRF BR)	C1 (MRF)	C2 (BR)	C3 (LRB NF)	PC1 (TU)	PC2	RM1 (FX)	RM2 (FE)	UR1	MH
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V ₁		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, V ₂		-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.5	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, P ₁		-1.1	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.6	-0.8	-0.5	-0.7	-0.6	-0.7	-0.7	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmarks		1.5	1.9	2.2	1.4	1.4	1.1	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.3	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.6	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S _{min}		1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0
FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min}		2.4		2		0.3												

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial

Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > out-off, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know

Legend: MRF = Moment-resisting frame BR = Braced frame RC = Reinforced concrete SW = Shear wall

LRM (NF) = Unreinforced masonry infill TU = Tilt up

MH = Manufactured Housing LM = Light metal

FD = Flexible diaphragm RD = Rigid diaphragm

Figure J.368 RVS form for Structure #182

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
HIGH Seismicity

PHOTOGRAPH

Address: 8945 HWY. 21 SOUTH **Zip:** 38011

Other Identifiers: F000351

Building Name: BRIGHTON HIGH SCHOOL

Use: Schools

Latitude: 35.473392 **Longitude:** 89.748632

Sr: 1.187 **Sr:** 0.403

Screeners: Abdulmutab Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1995 est

Total Floor Area (sq. ft.): 178,27 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial ~~Other, Specify~~ Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Stiff Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity):
 Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S_{L1}

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (L)	S4 (RC SW)	S5 (MRF BR)	C1 (MRF)	C2 (BR)	C3 (LRS NF)	PC1 (TU)	PC2	RM1 (FX)	RM2 (FE)	UR1	MH
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V ₁		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, V ₂		-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.5	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, P ₁		-1.1	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.6	-0.6	-0.5	-0.7	-0.6	-0.7	-0.7	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmarks		1.5	1.9	2.2	1.4	1.4	1.1	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.3	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.6	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S _{min}		1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 2.4 ≥ 2.0

<p>EXTENT OF REVIEW</p> <p>Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial</p> <p>Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered</p> <p>Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Soil Type Source: _____</p> <p>Geologic Hazards Source: _____</p> <p>Contact Person: _____</p> <p>LEVEL 2 SCREENING PERFORMED?</p> <p><input type="checkbox"/> Yes, Final Level 2 Score, S_{L2} _____ <input type="checkbox"/> No</p> <p>Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>OTHER HAZARDS</p> <p>Are There Hazards That Trigger A Detailed Structural Evaluation?</p> <p><input type="checkbox"/> Pounding potential (unless S_{L1} > out-off, if known)</p> <p><input type="checkbox"/> Falling hazards from taller adjacent building</p> <p><input type="checkbox"/> Geologic hazards or Soil Type F</p> <p><input type="checkbox"/> Significant damage/deterioration to the structural system</p>	<p>ACTION REQUIRED</p> <p>Detailed Structural Evaluation Required?</p> <p><input type="checkbox"/> Yes, unknown FEMA building type or other building</p> <p><input type="checkbox"/> Yes, score less than cut-off</p> <p><input type="checkbox"/> Yes, other hazards present</p> <p><input type="checkbox"/> No</p> <p>Detailed Nonstructural Evaluation Recommended? (check one)</p> <p><input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated</p> <p><input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary</p> <p><input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK</p>
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Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM/MF = Unreinforced masonry/mill BR = Braced frame SW = Shear wall TU = Tie up MH = Manufactured Housing LM = Light metal FD = Flexible diaphragm RD = Rigid diaphragm

Figure J.369 RVS form for Structure #183.1

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
HIGH Seismicity

PHOTOGRAPH

Address: 8945 HWY 26 SOUTH **Zip:** 38011

Other Identifiers: FNR06352

Building Name: BRIGHTON HIGH SCHOOL (S.G. OFFICE)

Use: Schools

Latitude: 35.475742 **Longitude:** 89.747864

S: 1.189 **Sz:** 0.403

Screeener(s): Abdulmutalib Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 2012 est

Total Floor Area (sq. ft.): 890 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Elementary Schools Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S_{L1}

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (RRF)	S2 (BR)	S3 (LC)	S4 (RC (BR) (R))	S5 (RRF (R))	C1 (RRF)	C2 (BR)	C3 (RRF (R))	PC1 (TU)	PC2	RM1 (FX)	RM2 (FE)	UR1	MH
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V ₁		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, V ₂		-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.5	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, P ₁		-1.1	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.6	-0.6	-0.5	-0.7	-0.6	-0.7	-0.7	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmarks		1.5	1.9	2.2	1.4	1.4	1.1	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.3	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.6	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S _{min}		1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} **3.3** ≥ 2.0

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered
Drawings Reviewed: Yes No
Soil Type Source: _____
Geologic Hazards Source: _____
Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No
Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > out-off, if known)
 Falling hazards from taller adjacent building
 Geologic hazards or Soil Type F
 Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building
 Yes, score less than cut-off
 Yes, other hazards present
 No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated
 No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary
 No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know

Legend: MF = Moment-resisting frame RC = Reinforced concrete URM = Unreinforced masonry wall MH = Manufactured Housing FD = Flexible diaphragm
ER = Eccentric frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.370 RVS form for Structure #183.2

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
HIGH Seismicity

PHOTOGRAPH

Address: 8945 HWY. 21 SOUTH **Zip:** 38011

Other Identifiers: F000335

Building Name: BRIGHTON HIGH SCHOOL (CONCESSION)

Use: Schools

Latitude: 35.480772 **Longitude:** 89.745164

S: 1.189 **Sz:** 0.403

Screeners: Abdulmutalib Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1995 est

Total Floor Area (sq. ft.): 1796 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Enter Specifics Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity):
 Plan (type):

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S_{L1}

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (L)	S4 (RC BR)	S5 (MRF BR)	C1 (MRF)	C2 (BR)	C3 (LRS (F))	PC1 (TU)	PC2	RM1 (FX)	RM2 (FE)	UR1	MH
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V ₁		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, V ₂		-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.5	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, P ₁		-1.1	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.6	-0.6	-0.5	-0.7	-0.6	-0.7	-0.7	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmarks		1.5	1.9	2.2	1.4	1.4	1.1	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.3	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.6	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S _{min}		1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} **3.8** ≥ 2.0

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered
Drawings Reviewed: Yes No
Soil Type Source: _____
Geologic Hazards Source: _____
Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No
Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > out-off, if known)
 Falling hazards from taller adjacent building
 Geologic hazards or Soil Type F
 Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building
 Yes, score less than cut-off
 Yes, other hazards present
 No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated
 No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary
 No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM/MF = Unreinforced masonry/mill MH = Manufactured Housing FD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.371 RVS form for Structure #183.3

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
HIGH Seismicity

PHOTOGRAPH

Address: 8945 HWY 21 SOUTH **Zip:** 38011

Other Identifiers: F000354

Building Name: BRIGITON HIGH SCHOOL (FIELD HOUSE)

Use: Schools

Latitude: 35.479958 **Longitude:** 89.745689

Sr: 1.189 **Sr:** 0.403

Screeener(s): Abdulmutab Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1995 est

Total Floor Area (sq. ft.): 5040 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Enter Specifics Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Stiff Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity):
 Plan (type):

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S_{L1}

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (L)	S4 (RC (MRF))	S5 (RC (RF))	C1 (MRF)	C2 (BR)	C3 (LR)	PC1 (TU)	PC2	RM1 (F)	RM2 (F)	UR1	MH
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V ₁		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, V ₂		-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.6	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, P ₁		-1.1	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.6	-0.6	-0.5	-0.7	-0.6	-0.7	-0.7	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmarks		1.5	1.9	2.2	1.4	1.4	1.1	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.3	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.6	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S _{min}		1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} **3.8** ≥ 2.0

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered
Drawings Reviewed: Yes No
Soil Type Source: _____
Geologic Hazards Source: _____
Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No
Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > out-off, if known)
 Falling hazards from taller adjacent building
 Geologic hazards or Soil Type F
 Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building
 Yes, score less than cut-off
 Yes, other hazards present
 No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated
 No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary
 No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM = Unreinforced masonry wall MH = Manufactured Housing FD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.372 RVS form for Structure #183.4

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 1201 OLD HIGHWAY 51 SOUTH Zip: 38011

Other Identifiers: F000450

Building Name: BRIGHTON ELEMENTARY

Use: Schools

Latitude: 35.480472 **Longitude:** 89.737332

Sr: 1.179 **Sr:** 0.001

Screener(s): Abdulmutau Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1984 est

Total Floor Area (sq. ft.): 83436 **Code Year:** 1991

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial Elementary Schools Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg Dense Stiff Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity): _____
 Plan (type): _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S_{L1}

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LC)	S4 (RC (MRF) SW)	S5 (RM (MRF))	C1 (MRF)	C2 (BR)	C3 (LRB (F))	PC1 (TU)	PC2	RM1 (F)	RM2 (F)	UR1	MH
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V ₁		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, V ₂		-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.6	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, P ₁		-1.1	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.6	-0.6	-0.5	-0.7	-0.6	-0.7	-0.7	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmarks		1.5	1.9	2.2	1.4	1.4	1.1	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.5	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.6	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S _{min}		1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.0 ≤ **0.3**

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial

Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > out-off, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM/MF = Unreinforced masonry/infill MH = Manufactured Housing FD = Flexible diaphragm
ER = Fixed frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.373 RVS form for Structure #184

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
HIGH Seismicity

PHOTOGRAPH

Address: 800 BURL KILMISTON AV Zip: 38079

Other Identifiers: F0006350

Building Name: TIPTON COUNTY ALTERNATIVE LEARNING CE...

Use: Schools

Latitude: 35.557832 **Longitude:** 89.662512

Sr: 1.226 **Sr:** 0.421

Screeners(s): Abdulmutab Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1992 est

Total Floor Area (sq. ft.): 39407 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Elementary Schools Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity):
 Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S_{L1}

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (L)	S4 (RC (MRF))	S5 (RC (RF))	C1 (MRF)	C2 (BR)	C3 (LRF (F))	PC1 (TU)	PC2	RH1 (F)	RH2 (F)	UR1	MH
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V ₁		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, V ₂		-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.6	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, P ₁		-1.1	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.6	-0.6	-0.5	-0.7	-0.6	-0.7	-0.7	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmarks		1.5	1.9	2.2	1.4	1.4	1.1	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.5	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.6	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S _{min}		1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} **1.1** ≥ 0.5

<p>EXTENT OF REVIEW</p> <p>Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial</p> <p>Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered</p> <p>Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Soil Type Source: _____</p> <p>Geologic Hazards Source: _____</p> <p>Contact Person: _____</p> <p>LEVEL 2 SCREENING PERFORMED?</p> <p><input type="checkbox"/> Yes, Final Level 2 Score, S_{L2} _____ <input type="checkbox"/> No</p> <p>Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>OTHER HAZARDS</p> <p>Are There Hazards That Trigger A Detailed Structural Evaluation?</p> <p><input type="checkbox"/> Pounding potential (unless S_{L1} > out-off, if known)</p> <p><input type="checkbox"/> Falling hazards from taller adjacent building</p> <p><input type="checkbox"/> Geologic hazards or Soil Type F</p> <p><input type="checkbox"/> Significant damage/deterioration to the structural system</p>	<p>ACTION REQUIRED</p> <p>Detailed Structural Evaluation Required?</p> <p><input type="checkbox"/> Yes, unknown FEMA building type or other building</p> <p><input type="checkbox"/> Yes, score less than cut-off</p> <p><input type="checkbox"/> Yes, other hazards present</p> <p><input type="checkbox"/> No</p> <p>Detailed Nonstructural Evaluation Recommended? (check one)</p> <p><input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated</p> <p><input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary</p> <p><input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK</p>
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Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (M) = Unreinforced masonry masonry wall MH = Manufactured Housing ER = Fixed frame SW = Shear wall TU = Tilt up LM = Light metal FD = Flexible diaphragm RD = Rigid diaphragm

Figure J.374 RVS form for Structure #185

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 201 MARK A. WALKER BL. **Zip:** 38079

Other Identifiers: F0006650

Building Name: CRESTVIEW MIDDLE SCHOOL

Use: Schools

Latitude: 35.542259 **Longitude:** 89.642292

S: 1.175 **Sz:** 0.004

Screeners: Abdulmutab Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1992 est

Total Floor Area (sq. ft.): 11997 **Code Year:** 1991

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial Elementary Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LC)	S4 (RC (RFR) SW)	S5 (RFR) (RF)	C1 (MRF)	C2 (BR)	C3 (RFR) (F)	PC1 (TU)	PC2	RM1 (FX)	RM2 (FE)	UR1	MH
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V ₁		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, V ₂		-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.5	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, P ₁		-1.1	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.6	-0.8	-0.5	-0.7	-0.6	-0.7	-0.7	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmarks		1.5	1.9	2.2	1.4	1.4	1.1	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.3	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.6	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S _{min}		1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0
FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min}		2.8																

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial

Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > out-off, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (M) = Unreinforced masonry masonry TU = Tilt up MH = Manufactured Housing PD = Flexible diaphragm
ER = Fixed frame SW = Shear wall LM = Light metal RD = Rigid diaphragm

Figure J.375 RVS form for Structure #186

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 660 BUREL KILINSON AV Zip: 38079

Other Identifiers: FNR06751

Building Name: COVINGTON INTEGRATED ARTS ACADEMY

Use: Schools

Latitude: 35.557635 **Longitude:** 89.660704

Sr: 1.222 **Sr:** 0.414

Screener(s): Abdulmutau Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1975 est

Total Floor Area (sq. ft.): 85669 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Enter, Specify Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity):
 Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (L)	S4 (RC (MRF) SW)	S5 (RM (MRF))	C1 (MRF)	C2 (BR)	C3 (LRS (F))	PC1 (TU)	PC2	RM1 (F)	RM2 (F)	UR1	MH
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V ₁		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, V ₂		-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.5	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, P ₁		-1.1	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.6	-0.8	-0.5	-0.7	-0.6	-0.7	-0.7	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmarks		1.5	1.9	2.2	1.4	1.4	1.1	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.5	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.5	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S _{min}		1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0
FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min}		0.0 ≤ 0.3																

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No
Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > cut-off, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM/MF = Unreinforced masonry infill MH = Manufactured Housing BR = Fixed frame SW = Shear wall TU = Tilt up LM = Light metal FD = Flexible diaphragm RD = Rigid diaphragm

Figure J.376 RVS form for Structure #187.1

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 660 BUREL KILINSÓN AV Zip: 38079

Other Identifiers: FN006752

Building Name: COVINGTON INTEGRATED ARTS ACADEMY ADD

Use: Schools

Latitude: 33.556838 **Longitude:** -89.666629

S: 1.221 **Sz:** 0.414

Screeners: Abdalrhman Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 2003 est

Total Floor Area (sq. ft.): 8400 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Elementary Schools Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity):
 Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (L)	S4 (RC (MRF))	S5 (RC (RF))	C1 (MRF)	C2 (BR)	C3 (LRF (F))	PC1 (TU)	PC2	RM1 (F)	RM2 (F)	UR1	MH
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V ₁		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, V ₂		-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.5	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, P ₁		-1.1	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.6	-0.8	-0.5	-0.7	-0.6	-0.7	-0.7	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmarks		1.5	1.9	2.2	1.4	1.4	1.1	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.3	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.6	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S _{min}		1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 3.6 ≥ 0.0

EXTENT OF REVIEW	OTHER HAZARDS	ACTION REQUIRED
Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____	Are There Hazards That Trigger A Detailed Structural Evaluation? <input type="checkbox"/> Pounding potential (unless S _{L1} > out-off, if known) <input type="checkbox"/> Falling hazards from taller adjacent building <input type="checkbox"/> Geologic hazards or Soil Type F <input type="checkbox"/> Significant damage/deterioration to the structural system	Detailed Structural Evaluation Required? <input type="checkbox"/> Yes, unknown FEMA building type or other building <input type="checkbox"/> Yes, score less than cut-off <input type="checkbox"/> Yes, other hazards present <input type="checkbox"/> No Detailed Nonstructural Evaluation Recommended? (check one) <input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated <input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary <input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data DR = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (M) = Unreinforced masonry masonry wall MH = Manufactured Housing FD = Flexible diaphragm
 BR = Fixed frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.377 RVS form for Structure #187.2

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
HIGH Seismicity

PHOTOGRAPH



Address: 414 ACADEMIC DR **Zip:** 38019

Other Identifiers: F0008501

Building Name: AUSTIN PEAY ELEMENTARY SCHOOL

Use: Schools

Latitude: 35.457607 **Longitude:** 89.645022

Sr: 1.049 **Sr:** 0.161

Screener(s): Abdulmutalib Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 2002 est

Total Floor Area (sq. ft.): 83403 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial ~~Enter Specifics~~ Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity):
 Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S_{L1}

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (L)	S4 (RC (MRF))	S5 (RC (RF))	C1 (MRF)	C2 (BR)	C3 (LRF (F))	PC1 (TU)	PC2	RM1 (F)	RM2 (F)	UR1	MH
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V ₁		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, V ₂		-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.5	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, P ₁		-1.1	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.6	-0.8	-0.5	-0.7	-0.6	-0.7	-0.7	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmarks		1.5	1.9	2.2	1.4	1.4	1.1	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.3	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.6	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S _{min}		1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 2.6 ≥ 0.3

<p>EXTENT OF REVIEW</p> <p>Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial</p> <p>Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered</p> <p>Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Soil Type Source: _____</p> <p>Geologic Hazards Source: _____</p> <p>Contact Person: _____</p>	<p>OTHER HAZARDS</p> <p>Are There Hazards That Trigger A Detailed Structural Evaluation?</p> <p><input type="checkbox"/> Pounding potential (unless S_{L1} > out-off, if known)</p> <p><input type="checkbox"/> Falling hazards from taller adjacent building</p> <p><input type="checkbox"/> Geologic hazards or Soil Type F</p> <p><input type="checkbox"/> Significant damage/deterioration to the structural system</p>	<p>ACTION REQUIRED</p> <p>Detailed Structural Evaluation Required?</p> <p><input type="checkbox"/> Yes, unknown FEMA building type or other building</p> <p><input type="checkbox"/> Yes, score less than cut-off</p> <p><input type="checkbox"/> Yes, other hazards present</p> <p><input type="checkbox"/> No</p> <p>Detailed Nonstructural Evaluation Recommended? (check one)</p> <p><input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated</p> <p><input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary</p> <p><input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK</p>
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Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (M) = Unreinforced masonry masonry MH = Manufactured Housing FD = Flexible diaphragm
ER = Fixed frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.378 RVS form for Structure #188.1

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
HIGH Seismicity

PHOTOGRAPH

SKETCH

Address: 414 ACADEMIC DR Zip: 78079
 Other Identifiers: F0008502
 Building Name: JUSTIN PEAY ELEMENTARY SCHOOL (CAFE)
 Use: Schools
 Latitude: 35.457131 Longitude: -89.645381
 S: 1.049 S: 0.161
 Screener(s): Abdulmutau Abdulhadi Date/Time:
 No. Stories: Above Grade: Below Grade: Year Built: 2002 est
 Total Floor Area (sq. ft.): 4056 Code Year: 1991
 Additions: None Yes, Year(s) Built:
 Occupancy: Assembly Commercial Error: Scabbies Historic Shelter
 Industrial Office School Government
 Utility Warehouse Residential, # Units:
 Soil Type: A B C D E F DNK
 Hard Avg Dense Silt Soft Poor #DNK, assume Type D
 Rock Rock Soil Soil Soil
 Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK
 Adjacency: Pounding Falling Hazards from Taller Adjacent Building
 Irregularities: Vertical (type/severity) Plan (type)
 Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:
 COMMENTS:
 Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S_{L1}

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (L)	S4 (RC SW)	S5 (MRF BR)	C1 (MRF)	C2 (BR)	C3 (LRS F)	PC1 (TU)	PC2	RH1 (FX)	RH2 (FE)	UR1	MH
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V ₁		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, V ₂		-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.6	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, P ₁		-1.1	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.6	-0.6	-0.5	-0.7	-0.6	-0.7	-0.7	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmarks		1.5	1.9	2.2	1.4	1.4	1.1	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.3	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.6	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S _{min}		1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} **1.7** ≥ 0.5

EXTENT OF REVIEW Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____	OTHER HAZARDS Are There Hazards That Trigger A Detailed Structural Evaluation? <input type="checkbox"/> Pounding potential (unless S _{L1} > out-off, if known) <input type="checkbox"/> Falling hazards from taller adjacent building <input type="checkbox"/> Geologic hazards or Soil Type F <input type="checkbox"/> Significant damage/deterioration to the structural system	ACTION REQUIRED Detailed Structural Evaluation Required? <input type="checkbox"/> Yes, unknown FEMA building type or other building <input type="checkbox"/> Yes, score less than cut-off <input type="checkbox"/> Yes, other hazards present <input type="checkbox"/> No Detailed Nonstructural Evaluation Recommended? (check one) <input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated <input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary <input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK
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Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM/MF = Unreinforced masonry/mill MH = Manufactured Housing FD = Flexible diaphragm
 BR = Braced frame SW = Shear wall TU = Tie up LM = Light metal RD = Rigid diaphragm

Figure J.379 RVS form for Structure #188.2

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
HIGH Seismicity

<p>PHOTOGRAPH</p>  <p style="text-align: center;">SKETCH</p>	<p>Address: 414 ACADEMIC DR Zip: 38019</p> <p>Other Identifiers: F0008255</p> <p>Building Name: AUSTIN PEAY ELEMENTARY SCHOOL (GYM)</p> <p>Use: Schools</p> <p>Latitude: 35.457762 Longitude: 89.644427</p> <p>Sr: 1.048 St: 0.161</p> <p>Screeners(s): Abdulmutalib Abdulhadi Date/Time: _____</p> <p>No. Stories: Above Grade: _____ Below Grade: _____ Year Built: 2002 <input type="checkbox"/> est</p> <p>Total Floor Area (sq. ft.): 4056 Code Year: 1991</p> <p>Additions: <input type="checkbox"/> None <input type="checkbox"/> Yes, Year(s) Built: _____</p> <p>Occupancy: Assembly <input type="checkbox"/> Commercial <input type="checkbox"/> <u>Elementary School</u> <input type="checkbox"/> Historic <input type="checkbox"/> Shelter Industrial <input type="checkbox"/> Office <input type="checkbox"/> <u>School</u> <input type="checkbox"/> Government Utility <input type="checkbox"/> Warehouse <input type="checkbox"/> Residential, # Units: _____</p> <p>Soil Type: <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D <input type="checkbox"/> E <input type="checkbox"/> F <input type="checkbox"/> DNK Hard Avg Dense Silt Soft Poor #DNK, assume Type D Rock Rock Soil Soil Soil Soil</p> <p>Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK</p> <p>Adjacency: <input type="checkbox"/> Pounding <input type="checkbox"/> Falling Hazards from Taller Adjacent Building</p> <p>Irregularities: <input type="checkbox"/> Vertical (type/severity) _____ <input type="checkbox"/> Plan (type) _____</p> <p>Exterior Falling Hazards: <input type="checkbox"/> Unbraced Chimneys <input type="checkbox"/> Heavy Cladding or Heavy Veneer <input type="checkbox"/> Parapets <input type="checkbox"/> Appendages <input type="checkbox"/> Other: _____</p> <p>COMMENTS:</p>
	<p><input type="checkbox"/> Additional sketches or comments on separate page</p>

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S_{L1}

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (L)	S4 (RC (MRF))	S5 (RC (RF))	C1 (MRF)	C2 (BR)	C3 (RF)	PC1 (TU)	PC2	RH1 (FX)	RH2 (FE)	UR1	MH
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V ₁		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, V ₂		-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.5	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, P ₁		-1.1	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.6	-0.6	-0.5	-0.7	-0.6	-0.7	-0.7	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmarks		1.5	1.9	2.2	1.4	1.4	1.1	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.5	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.6	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S _{min}		1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 1.7 ≥ 0.5

<p>EXTENT OF REVIEW</p> <p>Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial</p> <p>Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered</p> <p>Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Soil Type Source: _____</p> <p>Geologic Hazards Source: _____</p> <p>Contact Person: _____</p> <p>LEVEL 2 SCREENING PERFORMED?</p> <p><input type="checkbox"/> Yes, Final Level 2 Score, S_{L2} _____ <input type="checkbox"/> No</p> <p>Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>OTHER HAZARDS</p> <p>Are There Hazards That Trigger A Detailed Structural Evaluation?</p> <p><input type="checkbox"/> Pounding potential (unless S_{L1} > out-off, if known)</p> <p><input type="checkbox"/> Falling hazards from taller adjacent building</p> <p><input type="checkbox"/> Geologic hazards or Soil Type F</p> <p><input type="checkbox"/> Significant damage/deterioration to the structural system</p>	<p>ACTION REQUIRED</p> <p>Detailed Structural Evaluation Required?</p> <p><input type="checkbox"/> Yes, unknown FEMA building type or other building</p> <p><input type="checkbox"/> Yes, score less than cut-off</p> <p><input type="checkbox"/> Yes, other hazards present</p> <p><input type="checkbox"/> No</p> <p>Detailed Nonstructural Evaluation Recommended? (check one)</p> <p><input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated</p> <p><input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary</p> <p><input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK</p>
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Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (RF) = Unreinforced masonry infill MH = Manufactured Housing FD = Flexible diaphragm
 BR = Braced frame SW = Shear wall TU = Tie up LM = Light metal RD = Rigid diaphragm

Figure J.380 RVS form for Structure #188.3

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 151 MARK A. WALKER BL. **Zip:** 38079

Other Identifiers: F000050

Building Name: CRESTVIEW ELEMENTARY

Use: Schools

Latitude: 35.542324 **Longitude:** 89.640763

Sr: 1.172 **Sr:** 0.403

Screener(s): Abdulmutab Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1983 est

Total Floor Area (sq. ft.): 90058 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Elem. Schools Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LC)	S4 (RC (MRF) SW)	S5 (RM (RF))	C1 (MRF)	C2 (BR)	C3 (LR (NF))	PC1 (TU)	PC2	RM1 (FX)	RM2 (FE)	UR1	MH
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V ₁		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, V ₂		-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.5	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, P ₁		-1.1	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.6	-0.6	-0.5	-0.7	-0.6	-0.7	-0.7	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmarks		1.5	1.9	2.2	1.4	1.4	1.1	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.3	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.6	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S _{min}		1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0
FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min}		RT ≥ 0.3																

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial

Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > out-off, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (M) = Unreinforced masonry masonry wall MH = Manufactured Housing BR = Fixed frame SW = Shear wall TU = Tie up LM = Light metal FD = Flexible diaphragm RD = Rigid diaphragm

Figure J.381 RVS form for Structure #189

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 805 SOUTH COLLEGE **Zip:** 38019

Other Identifiers: FNR0051

Building Name: COVINGTON HIGH SCHOOL

Use: Schools

Latitude: 35.557103 **Longitude:** 89.649709

Sr: 1.208 **Sr:** 0.115

Screeners(s): Abdurrahman Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1982 est

Total Floor Area (sq. ft.): 67650 **Code Year:** 1991

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial Elementary Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (L)	S4 (RC BR)	S5 (MRF)	C1 (MRF)	C2 (BR)	C3 (LRS (F))	PC1 (TU)	PC2	RM1 (FX)	RM2 (FE)	UR1	MH
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V ₁		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, V ₂		-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.6	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, P ₁		-1.1	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.6	-0.6	-0.5	-0.7	-0.6	-0.7	-0.7	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmarks		1.5	1.9	2.2	1.4	1.4	1.1	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.5	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.6	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S _{min}		1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0
FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min}		1.2 ≥ 0.3																

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > out-off, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM/MF = Unreinforced masonry/mill MH = Manufactured Housing FD = Flexible diaphragm
ER = Fixed frame SW = Shear wall TU = Tie up LM = Light metal RD = Rigid diaphragm

Figure J.382 RVS form for Structure #190.1

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 805 SOUTH COLLEGE **Zip:** 38019

Other Identifiers: FNB0052

Building Name: COVINGTON HIGH SCHOOL GYM AND CAFE

Use: Schools

Latitude: 35.556721 **Longitude:** 89.649491

Sr: 1.207 **Sr:** 0.115

Screeners: Abdulmutab Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1963 est

Total Floor Area (sq. ft.): 32450 **Code Year:** 1991

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial Elementary School Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LC)	S4 (RC (MRF) SW)	S5 (RM (MRF))	C1 (MRF)	C2 (BR)	C3 (LR (MRF))	PC1 (TU)	PC2	RM1 (FX)	RM2 (FE)	UR1	MH
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V ₁		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, V ₂		-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.5	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, P ₁		-1.1	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.6	-0.6	-0.5	-0.7	-0.6	-0.7	-0.7	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmarks		1.5	1.9	2.2	1.4	1.4	1.1	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.5	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.6	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S _{min}		1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0
FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min}		RT ≥ 0.3																

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **DR** = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM = Unreinforced masonry wall MH = Manufactured Housing FD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.383 RVS form for Structure #190.2

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
HIGH Seismicity

PHOTOGRAPH

SKETCH

Additional sketches or comments on separate page

Address: 805 SOUTH COLLEGE
Zip: 38019

Other Identifiers: FNB0905

Building Name: COVINGTON HIGH SCHOOL (FRESHMAN HALL)

Use: Schools

Latitude: 35.556728 **Longitude:** 89.600998

Sr: 1.209 **Sr:** 0.415

Screener(s): Abdulmutalib Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 2004 est

Total Floor Area (sq. ft.): 11700 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Elementary Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity):
 Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (L)	S4 (RC (MRF))	S5 (RC (RF))	C1 (MRF)	C2 (BR)	C3 (RF)	PC1 (TU)	PC2	RM1 (FX)	RM2 (FE)	UR1	MH
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V ₁		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, V ₂		-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.5	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, P ₁		-1.1	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.6	-0.8	-0.5	-0.7	-0.6	-0.7	-0.7	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmarks		1.5	1.9	2.2	1.4	1.4	1.1	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.3	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.6	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S _{min}		1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0
FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min}		3.6 ≥ 0.3																

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No
Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (M) = Unreinforced masonry masonry TU = Tilt up MH = Manufactured Housing FD = Flexible diaphragm ER = Fixed frame SW = Shear wall LM = Light metal RD = Rigid diaphragm

Figure J.384 RVS form for Structure #190.3

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
HIGH Seismicity

PHOTOGRAPH

SKETCH

Additional sketches or comments on separate page

Address: 805 SOUTH COLLEGE
Zip: 38079

Other Identifiers: FNB0904

Building Name: CONINGTON HIGH SCHOOL (VOCATIONAL)

Use: Schools

Latitude: 35.556316 **Longitude:** 89.600444

Sr: 1.207 **Sr:** 0.415

Screeners(s): Abdulmutab Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1990 est

Total Floor Area (sq. ft.): 17417 **Code Year:** 1991

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial Elementary Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity): _____
 Plan (type): _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (L)	S4 (RC BR)	S5 (MRF BR)	C1 (MRF)	C2 (BR)	C3 (LRS (F))	PC1 (TU)	PC2	RM1 (FX)	RM2 (FE)	UR1	MH
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V ₁		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, V ₂		-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.5	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, P ₁		-1.1	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.6	-0.6	-0.5	-0.7	-0.6	-0.7	-0.7	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmarks		1.5	1.9	2.2	1.4	1.4	1.1	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.3	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.6	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S _{min}		1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0
FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min}		1.2		≥ 0.3														

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial

Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM = Unreinforced masonry wall MH = Manufactured Housing FD = Flexible diaphragm
 BR = Fixed frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.385 RVS form for Structure #190.4

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
HIGH Seismicity

PHOTOGRAPH



SKETCH

Additional sketches or comments on separate page

Address: 805 SOUTH COLLEGE **Zip:** 38019

Other Identifiers: FNB0055

Building Name: COVINGTON HIGH SCHOOL (MUSIC/WEIGHT R)

Use: Schools

Latitude: 35.556366 **Longitude:** 89.649298

Sr: 1.207 **Sr:** 0.114

Screeners: Abdulmutau Abdulhadi **Date/Time:**

No. Stories: Above Grade: _____ Below Grade: _____ **Year Built:** 1970 est

Total Floor Area (sq. ft.): 10775 **Code Year:** 1991

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial Elementary Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (L)	S4 (RC (MRF))	S5 (RM (MRF))	C1 (MRF)	C2 (BR)	C3 (RM (MRF))	PC1 (TU)	PC2	RM1 (FD)	RM2 (FD)	UR1	MH
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V ₁		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, V ₂		-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.5	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, P ₁		-1.1	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.6	-0.8	-0.5	-0.7	-0.6	-0.7	-0.7	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmarks		1.5	1.9	2.2	1.4	1.4	1.1	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.3	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.6	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S _{min}		1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0
FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min}		1.2		≥ 0.3														

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial

Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > out-of, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (M) = Unreinforced masonry infill MH = Manufactured Housing FD = Flexible diaphragm
 BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.386 RVS form for Structure #190.5

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 805 SOUTH COLLEGE
Zip: 38019

Other Identifiers: 1901906

Building Name: COVINGTON HIGH SCHOOL (AUX. GYM)

Use: Schools

Latitude: 35.556193 **Longitude:** 89.64367

Sr: 1.205 **Sr:** 0.114

Screener(s): Abdulmutab Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1963 est

Total Floor Area (sq. ft.): 9006 **Code Year:** 1991

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial Enter, Specify Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (L)	S4 (RC (MRF))	S5 (RM (MRF))	C1 (MRF)	C2 (BR)	C3 (RM (MRF))	PC1 (TU)	PC2	RM1 (FD)	RM2 (FE)	UR1	MH
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V ₁		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, V ₂		-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.5	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, P ₁		-1.1	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.6	-0.6	-0.5	-0.7	-0.6	-0.7	-0.7	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmarks		1.5	1.9	2.2	1.4	1.4	1.1	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.3	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.6	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S _{min}		1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} RT ≥ 0.3

EXTENT OF REVIEW	OTHER HAZARDS	ACTION REQUIRED
Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____	Are There Hazards That Trigger A Detailed Structural Evaluation? <input type="checkbox"/> Pounding potential (unless S _{L1} > out-off, if known) <input type="checkbox"/> Falling hazards from taller adjacent building <input type="checkbox"/> Geologic hazards or Soil Type F <input type="checkbox"/> Significant damage/deterioration to the structural system	Detailed Structural Evaluation Required? <input type="checkbox"/> Yes, unknown FEMA building type or other building <input type="checkbox"/> Yes, score less than cut-off <input type="checkbox"/> Yes, other hazards present <input type="checkbox"/> No Detailed Nonstructural Evaluation Recommended? (check one) <input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated <input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary <input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (M) = Unreinforced masonry masonry TU = Tilt up MH = Manufactured Housing FD = Flexible diaphragm
 BR = Braced frame SW = Shear wall LM = Light metal RD = Rigid diaphragm

Figure J.387 RVS form for Structure #190.6

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
HIGH Seismicity

PHOTOGRAPH

Address: 2105 HIGHWAY 79 S **Zip:** 38079

Other Identifiers: FNR0150

Building Name: TIPTON CHRISTIAN ACADEMY

Use: Schools

Latitude: 35.554056 **Longitude:** 89.635211

Sr: 1.151 **Sr:** 0.396

Screeners(s): Abdulmutab Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1983 est

Total Floor Area (sq. ft.): 10571.43871 **Code Year:** 1991

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial Elementary School Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity): _____
 Plan (type): _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S_{L1}

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LC)	S4 (RC (RM) (R))	S5 (RM (R))	C1 (MRF)	C2 (BR)	C3 (RM (R))	PC1 (TU)	PC2	RM1 (F)	RM2 (F)	UR1	MH
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V ₁		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, V ₂		-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.6	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, P ₁		-1.1	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.6	-0.6	-0.5	-0.7	-0.6	-0.7	-0.7	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmarks		1.5	1.9	2.2	1.4	1.4	1.1	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.3	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.6	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S _{min}		1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.3

<p>EXTENT OF REVIEW</p> <p>Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial</p> <p>Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered</p> <p>Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Soil Type Source: _____</p> <p>Geologic Hazards Source: _____</p> <p>Contact Person: _____</p>	<p>OTHER HAZARDS</p> <p>Are There Hazards That Trigger A Detailed Structural Evaluation?</p> <p><input type="checkbox"/> Pounding potential (unless S_{L1} > out-off, if known)</p> <p><input type="checkbox"/> Falling hazards from taller adjacent building</p> <p><input type="checkbox"/> Geologic hazards or Soil Type F</p> <p><input type="checkbox"/> Significant damage/deterioration to the structural system</p>	<p>ACTION REQUIRED</p> <p>Detailed Structural Evaluation Required?</p> <p><input type="checkbox"/> Yes, unknown FEMA building type or other building</p> <p><input type="checkbox"/> Yes, score less than cut-off</p> <p><input type="checkbox"/> Yes, other hazards present</p> <p><input type="checkbox"/> No</p> <p>Detailed Nonstructural Evaluation Recommended? (check one)</p> <p><input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated</p> <p><input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary</p> <p><input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK</p>
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Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (RM) = Unreinforced masonry infill MH = Manufactured Housing FD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.388 RVS form for Structure #191.0

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
HIGH Seismicity

PHOTOGRAPH

Address: 2105 HIGHLWAY 79 S **Zip:** 38079

Other Identifiers: FNR0191

Building Name: TIPTON CHRISTIAN ACADEMY

Use: Schools

Latitude: 35.534119 **Longitude:** 89.635183

Sr: 1.151 **Sr:** 0.396

Screener(s): Abdulmutau Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 2003 est

Total Floor Area (sq. ft.): 10040 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial ~~Enter, Specific~~ Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Stiff Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity):
 Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

SKETCH

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S_{L1}

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LC)	S4 (RC BR)	S5 (MRF BR)	C1 (MRF)	C2 (BR)	C3 (LRB NF)	PC1 (TU)	PC2	RM1 (FX)	RM2 (FE)	UR1	MH
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V ₁		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, V ₂		-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.6	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, P ₁		-1.1	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.6	-0.6	-0.5	-0.7	-0.6	-0.7	-0.7	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmarks		1.5	1.9	2.2	1.4	1.4	1.1	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.3	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.6	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S _{min}		1.1	0.9	0.7	0.5	0.6	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 2.4 ≥ 0.3

<p>EXTENT OF REVIEW</p> <p>Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial</p> <p>Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered</p> <p>Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Soil Type Source: _____</p> <p>Geologic Hazards Source: _____</p> <p>Contact Person: _____</p> <p>LEVEL 2 SCREENING PERFORMED?</p> <p><input type="checkbox"/> Yes, Final Level 2 Score, S_{L2} _____ <input type="checkbox"/> No</p> <p>Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>OTHER HAZARDS</p> <p>Are There Hazards That Trigger A Detailed Structural Evaluation?</p> <p><input type="checkbox"/> Pounding potential (unless S_{L1} > out-off, if known)</p> <p><input type="checkbox"/> Falling hazards from taller adjacent building</p> <p><input type="checkbox"/> Geologic hazards or Soil Type F</p> <p><input type="checkbox"/> Significant damage/deterioration to the structural system</p>	<p>ACTION REQUIRED</p> <p>Detailed Structural Evaluation Required?</p> <p><input type="checkbox"/> Yes, unknown FEMA building type or other building</p> <p><input type="checkbox"/> Yes, score less than cut-off</p> <p><input type="checkbox"/> Yes, other hazards present</p> <p><input type="checkbox"/> No</p> <p>Detailed Nonstructural Evaluation Recommended? (check one)</p> <p><input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated</p> <p><input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary</p> <p><input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK</p>
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Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM = Unreinforced masonry wall MH = Manufactured Housing FD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.389 RVS form for Structure #191.1

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
HIGH Seismicity

PHOTOGRAPH

Address: 2105 HIGHWAY 79 S **Zip:** 38079

Other Identifiers: FNR0152

Building Name: TIPTON CHRISTIAN ACADEMY

Use: Schools

Latitude: 35.554663 **Longitude:** 89.635183

Sr: 1.152 **St:** 0.396

Screener(s): Abdulmutab Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 2012 est

Total Floor Area (sq. ft.): 14039 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Elementary School Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity):
 Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

SKETCH

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S_{L1}

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (L)	S4 (RC (MRF))	S5 (RC (RF))	C1 (MRF)	C2 (BR)	C3 (RF)	PC1 (TU)	PC2	RM1 (FX)	RM2 (FE)	UR1	MH
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V ₁		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, V ₂		-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.6	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, P ₁		-1.1	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.6	-0.6	-0.5	-0.7	-0.6	-0.7	-0.7	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmarks		1.5	1.9	2.2	1.4	1.4	1.1	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.3	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.6	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S _{min}		1.1	0.9	0.7	0.5	0.6	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 3.8 ≥ 0.3

<p>EXTENT OF REVIEW</p> <p>Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial</p> <p>Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered</p> <p>Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Soil Type Source: _____</p> <p>Geologic Hazards Source: _____</p> <p>Contact Person: _____</p> <p>LEVEL 2 SCREENING PERFORMED?</p> <p><input type="checkbox"/> Yes, Final Level 2 Score, S_{L2} _____ <input type="checkbox"/> No</p> <p>Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>OTHER HAZARDS</p> <p>Are There Hazards That Trigger A Detailed Structural Evaluation?</p> <p><input type="checkbox"/> Pounding potential (unless S_{L1} > out-off, if known)</p> <p><input type="checkbox"/> Falling hazards from taller adjacent building</p> <p><input type="checkbox"/> Geologic hazards or Soil Type F</p> <p><input type="checkbox"/> Significant damage/deterioration to the structural system</p>	<p>ACTION REQUIRED</p> <p>Detailed Structural Evaluation Required?</p> <p><input type="checkbox"/> Yes, unknown FEMA building type or other building</p> <p><input type="checkbox"/> Yes, score less than cut-off</p> <p><input type="checkbox"/> Yes, other hazards present</p> <p><input type="checkbox"/> No</p> <p>Detailed Nonstructural Evaluation Recommended? (check one)</p> <p><input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated</p> <p><input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary</p> <p><input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK</p>
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Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM = Unreinforced masonry wall MH = Manufactured Housing FD = Flexible diaphragm
ER = Fixed frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.390 RVS form for Structure #191.2

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
HIGH Seismicity

<p>PHOTOGRAPH</p> 	<p>Address: 1600 EDWY SL SOUTH Zip: 38079</p> <p>Other Identifiers: TN019250</p> <p>Building Name: TENNESSEE COLLEGE OF APPLIED TECHNOLOGY</p> <p>Use: Schools</p> <p>Latitude: 35.545225 Longitude: 89.659976</p> <p>Sr: 1.2 Sr: 0.412</p> <p>Screeners(s): Abdulrahman Abdulhadi Date/Time: _____</p>
	<p>No. Stories: Above Grade: _____ Below Grade: _____ Year Built: 1963 <input type="checkbox"/> est</p> <p>Total Floor Area (sq. ft.): 28416.66602 Code Year: 1991</p> <p>Additions: <input type="checkbox"/> None <input type="checkbox"/> Yes, Year(s) Built: _____</p> <p>Occupancy: Assembly <input type="checkbox"/> Commercial <input type="checkbox"/> Enter Specifics <input type="checkbox"/> Historic <input type="checkbox"/> Shelter Industrial <input type="checkbox"/> Office <input checked="" type="checkbox"/> School <input type="checkbox"/> Government Utility <input type="checkbox"/> Warehouse <input type="checkbox"/> Residential, # Units: _____</p> <p>Soil Type: <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input checked="" type="checkbox"/> D <input type="checkbox"/> E <input type="checkbox"/> F <input type="checkbox"/> DNK Hard Avg Dense Stiff Soft Poor #DNK, assume Type D Rock Rock Soil Soil Soil Soil</p> <p>Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK</p> <p>Adjacency: <input type="checkbox"/> Pounding <input type="checkbox"/> Falling Hazards from Taller Adjacent Building</p> <p>Irregularities: <input type="checkbox"/> Vertical (type/severity) _____ <input checked="" type="checkbox"/> Plan (type) _____</p> <p>Exterior Falling Hazards: <input type="checkbox"/> Unbraced Chimneys <input type="checkbox"/> Heavy Cladding or Heavy Veneer <input type="checkbox"/> Parapets <input type="checkbox"/> Appendages <input type="checkbox"/> Other: _____</p> <p>COMMENTS:</p> <p><input type="checkbox"/> Additional sketches or comments on separate page</p>
<p>SKETCH</p>	

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (L)	S4 (RC (MRF))	S5 (RC (RF))	C1 (MRF)	C2 (BR)	C3 (LRF (F))	PC1 (TU)	PC2	RH1 (F)	RH2 (F)	URM	MH
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V ₁		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, V ₂		-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.5	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, P ₁		-1.1	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.6	-0.8	-0.5	-0.7	-0.6	-0.7	-0.7	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmarks		1.5	1.9	2.2	1.4	1.4	1.1	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.3	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.6	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S _{min}		1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} **0.4** ≥ 0.2

<p>EXTENT OF REVIEW</p> <p>Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial</p> <p>Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered</p> <p>Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Soil Type Source: _____</p> <p>Geologic Hazards Source: _____</p> <p>Contact Person: _____</p>	<p>OTHER HAZARDS</p> <p>Are There Hazards That Trigger A Detailed Structural Evaluation?</p> <p><input type="checkbox"/> Pounding potential (unless S₁ > out-off, if known)</p> <p><input type="checkbox"/> Falling hazards from taller adjacent building</p> <p><input type="checkbox"/> Geologic hazards or Soil Type F</p> <p><input type="checkbox"/> Significant damage/deterioration to the structural system</p>	<p>ACTION REQUIRED</p> <p>Detailed Structural Evaluation Required?</p> <p><input type="checkbox"/> Yes, unknown FEMA building type or other building</p> <p><input type="checkbox"/> Yes, score less than cut-off</p> <p><input type="checkbox"/> Yes, other hazards present</p> <p><input type="checkbox"/> No</p> <p>Detailed Nonstructural Evaluation Recommended? (check one)</p> <p><input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated</p> <p><input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary</p> <p><input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK</p>
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Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **DR** = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (M) = Unreinforced masonry infill MH = Manufactured Housing FD = Flexible diaphragm
ER = Fixed frame SW = Shear wall TU = Tilt up UM = Light metal RD = Rigid diaphragm

Figure J.391 RVS form for Structure #192.0

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
HIGH Seismicity

<p>PHOTOGRAPH</p>  <p style="text-align: center;">SKETCH</p>	<p>Address: 1600 EDWY SL SOUTH Zip: 38079</p> <p>Other Identifiers: FNR0251</p> <p>Building Name: TENNESSEE COLLEGE OF APPLIED TECHNOLOGY</p> <p>Use: Schools</p> <p>Latitude: 35.545339 Longitude: 89.609754</p> <p>Sr: 1.2 Sr: 0.412</p> <p>Screener(s): Abdulmutab Abdulhadi Date/Time:</p> <p>No. Stories: Above Grade: Below Grade: Year Built: 1963 <input type="checkbox"/> est</p> <p>Total Floor Area (sq. ft.): 46050 Code Year: 1991</p> <p>Additions: <input type="checkbox"/> None <input type="checkbox"/> Yes, Year(s) Built: _____</p> <p>Occupancy: Assembly <input type="checkbox"/> Commercial <input type="checkbox"/> <u>Elementary</u> <input type="checkbox"/> Historic <input type="checkbox"/> Shelter Industrial <input type="checkbox"/> Office <input checked="" type="checkbox"/> <u>School</u> <input type="checkbox"/> Government Utility <input type="checkbox"/> Warehouse <input type="checkbox"/> Residential, # Units: _____</p> <p>Soil Type: <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input checked="" type="checkbox"/> D <input type="checkbox"/> E <input type="checkbox"/> F <input type="checkbox"/> DNK Hard Avg Dense Stiff Soft Poor #DNK, assume Type D Rock Rock Soil Soil Soil Soil</p> <p>Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK</p> <p>Adjacency: <input type="checkbox"/> Pounding <input type="checkbox"/> Falling Hazards from Taller Adjacent Building</p> <p>Irregularities: <input type="checkbox"/> Vertical (type/severity): _____ <input checked="" type="checkbox"/> Plan (type)</p> <p>Exterior Falling Hazards: <input type="checkbox"/> Unbraced Chimneys <input type="checkbox"/> Heavy Cladding or Heavy Veneer <input type="checkbox"/> Parapets <input type="checkbox"/> Appendages <input type="checkbox"/> Other: _____</p> <p>COMMENTS:</p> <p><input type="checkbox"/> Additional sketches or comments on separate page</p>
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BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S_{L1}

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (L)	S4 (RC BR)	S5 (MRF BR)	C1 (MRF)	C2 (BR)	C3 (LRS (F))	PC1 (TU)	PC2	RM1 (F)	RM2 (F)	UR1	MH
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V ₁		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, V ₂		-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.5	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, P ₁		-1.1	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.6	-0.8	-0.5	-0.7	-0.6	-0.7	-0.7	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmarks		1.5	1.9	2.2	1.4	1.4	1.1	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.3	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.6	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S _{min}		1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} **0.5** ≥ 0.3

<p>EXTENT OF REVIEW</p> <p>Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered</p> <p>Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Soil Type Source: _____</p> <p>Geologic Hazards Source: _____</p> <p>Contact Person: _____</p> <p>LEVEL 2 SCREENING PERFORMED?</p> <p><input type="checkbox"/> Yes, Final Level 2 Score, S_{L2} _____ <input type="checkbox"/> No</p> <p>Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>OTHER HAZARDS</p> <p>Are There Hazards That Trigger A Detailed Structural Evaluation?</p> <p><input type="checkbox"/> Pounding potential (unless S_{L1} > cut-off, if known)</p> <p><input type="checkbox"/> Falling hazards from taller adjacent building</p> <p><input type="checkbox"/> Geologic hazards or Soil Type F</p> <p><input type="checkbox"/> Significant damage/deterioration to the structural system</p>	<p>ACTION REQUIRED</p> <p>Detailed Structural Evaluation Required?</p> <p><input type="checkbox"/> Yes, unknown FEMA building type or other building</p> <p><input type="checkbox"/> Yes, score less than cut-off</p> <p><input type="checkbox"/> Yes, other hazards present</p> <p><input type="checkbox"/> No</p> <p>Detailed Nonstructural Evaluation Recommended? (check one)</p> <p><input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated</p> <p><input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary</p> <p><input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK</p>
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Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **DR** = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM = Unreinforced masonry wall MH = Manufactured Housing FD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.392 RVS form for Structure #192.1

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
HIGH Seismicity

PHOTOGRAPH	Address: 1650 EDWY SL SOUTH Zip: 38079
	Other Identifiers: TN019252
SKETCH	Building Name: TENNESSEE COLLEGE OF APPLIED TECHNOLOGY
	Use: Schools
PHOTOGRAPH	Latitude: 35.544606 Longitude: 89.66044
	Sr: J.189 Sr: 0-11
SKETCH	Screener(s): Abdurrahman Abdulhadi Date/Time:
	No. Stories: Above Grade: Below Grade: Year Built: 2017 <input type="checkbox"/> est
PHOTOGRAPH	Total Floor Area (sq. ft.): 14370 Code Year: 1991
	Additions: <input type="checkbox"/> None <input type="checkbox"/> Yes, Year(s) Built:
SKETCH	Occupancy: Assembly <input type="checkbox"/> Commercial <input type="checkbox"/> <u>Elementary School</u> <input type="checkbox"/> Historic <input type="checkbox"/> Shelter Industrial <input type="checkbox"/> Office <input type="checkbox"/> <u>School</u> <input type="checkbox"/> Government Utility <input type="checkbox"/> Warehouse <input type="checkbox"/> Residential, # Units:
	Soil Type: <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input checked="" type="checkbox"/> D <input type="checkbox"/> E <input type="checkbox"/> F <input type="checkbox"/> DNK Hard Avg Dense Stiff Soft Poor #DNK, assume Type D Rock Rock Soil Soil Soil Soil
PHOTOGRAPH	Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK
	Adjacency: <input type="checkbox"/> Pounding <input type="checkbox"/> Falling Hazards from Taller Adjacent Building
SKETCH	Irregularities: <input type="checkbox"/> Vertical (type/severity) _____ <input checked="" type="checkbox"/> Plan (type) _____
	Exterior Falling Hazards: <input type="checkbox"/> Unbraced Chimneys <input type="checkbox"/> Heavy Cladding or Heavy Veneer <input type="checkbox"/> Parapets <input type="checkbox"/> Appendages <input type="checkbox"/> Other: _____
COMMENTS:	
<input type="checkbox"/> Additional sketches or comments on separate page	

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S_{L1}

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LC)	S4 (RC (MRF))	S5 (RC (RF))	C1 (MRF)	C2 (BR)	C3 (LR (RF))	PC1 (TU)	PC2	RM1 (FX)	RM2 (FE)	UR1	MH
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V ₁		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, V ₂		-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.6	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, P ₁		-1.1	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.6	-0.8	-0.5	-0.7	-0.6	-0.7	-0.7	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmarks		1.5	1.9	2.2	1.4	1.4	1.1	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.3	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.6	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S _{min}		1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 1.1 ≥ 0.3

<p>EXTENT OF REVIEW</p> <p>Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____</p> <p>LEVEL 2 SCREENING PERFORMED?</p> <p><input type="checkbox"/> Yes, Final Level 2 Score, S_{L2} _____ <input type="checkbox"/> No Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>OTHER HAZARDS</p> <p>Are There Hazards That Trigger A Detailed Structural Evaluation?</p> <p><input type="checkbox"/> Pounding potential (unless S_{L1} > out-off, if known) <input type="checkbox"/> Falling hazards from taller adjacent building <input type="checkbox"/> Geologic hazards or Soil Type F <input type="checkbox"/> Significant damage/deterioration to the structural system</p>	<p>ACTION REQUIRED</p> <p>Detailed Structural Evaluation Required?</p> <p><input type="checkbox"/> Yes, unknown FEMA building type or other building <input type="checkbox"/> Yes, score less than cut-off <input type="checkbox"/> Yes, other hazards present <input type="checkbox"/> No</p> <p>Detailed Nonstructural Evaluation Recommended? (check one)</p> <p><input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated <input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary <input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK</p>
<p>Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know</p>		

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM (RF) = Unreinforced masonry infill MH = Manufactured Housing FD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.393 RVS form for Structure #192.2

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
HIGH Seismicity

PHOTOGRAPH

SKETCH

Address: 3149 HIGHLWAY 21 S
Zip: 38079

Other Identifiers: FNR0330

Building Name: DYERSBURG STATE COMMUNITY COLLEGE - J

Use: Schools

Latitude: 35.590853 **Longitude:** 89.685402

Sr: 1.203 **Sr:** 0.413

Screeener(s): Abdulmutau Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 2000 est

Total Floor Area (sq. ft.): 39663 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial ~~Other, Specify~~ Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Stiff Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LC)	S4 (RC (MRF))	S5 (RM (MRF))	C1 (MRF)	C2 (BR)	C3 (LR (MRF))	PC1 (TU)	PC2	RH1 (FD)	RH2 (FE)	UH1	MH
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V ₁		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, V ₂		-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.5	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, P ₁		-1.1	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.6	-0.8	-0.5	-0.7	-0.6	-0.7	-0.7	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmarks		1.5	1.9	2.2	1.4	1.4	1.1	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.5	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.6	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S _{min}		1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.4 ≥ 0.3

EXTENT OF REVIEW	OTHER HAZARDS	ACTION REQUIRED
Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____	Are There Hazards That Trigger A Detailed Structural Evaluation? <input type="checkbox"/> Pounding potential (unless S _{L1} > cut-off, if known) <input type="checkbox"/> Falling hazards from taller adjacent building <input type="checkbox"/> Geologic hazards or Soil Type F <input type="checkbox"/> Significant damage/deterioration to the structural system	Detailed Structural Evaluation Required? <input type="checkbox"/> Yes, unknown FEMA building type or other building <input type="checkbox"/> Yes, score less than cut-off <input type="checkbox"/> Yes, other hazards present <input type="checkbox"/> No Detailed Nonstructural Evaluation Recommended? (check one) <input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated <input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary <input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK

Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **DR** = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM = Unreinforced masonry wall MH = Manufactured Housing FD = Flexible diaphragm
 BR = Fixed frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.394 RVS form for Structure #193

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 2068 DRUMMONDS BL
Zip: 38023

Other Identifiers: FNR0450

Building Name: DRUMMONDS ELEMENTARY

Use: Schools

Latitude: 35.46443 **Longitude:** 89.896694

Sr: 1.25 **St:** 0.461

Screener(s): Abdulmutab Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1984 EST

Total Floor Area (sq. ft.): 81628 **Code Year:** 1991

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial Educ. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg. Dense Stiff Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity): _____
 Plan (type): _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S_{L1}

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LC)	S4 (RC BR)	S5 (MRF BR)	C1 (MRF)	C2 (BR)	C3 (LRB NF)	PC1 (TU)	PC2	RM1 (FX)	RM2 (FE)	UR1	MH
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V ₁		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, V ₂		-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.5	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, P ₁		-1.1	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.6	-0.8	-0.5	-0.7	-0.6	-0.7	-0.7	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmarks		1.5	1.9	2.2	1.4	1.4	1.1	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.3	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.6	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S _{min}		1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.0 ≤ **0.3**

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial

Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > cut-off, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM = Unreinforced masonry wall MH = Manufactured Housing BR = Braced frame SW = Shear wall TU = Tie up LM = Light metal FD = Flexible diaphragm RD = Rigid diaphragm

Figure J.395 RVS form for Structure #194

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 1200 McLAUGHLIN DR Zip: 38058

Other Identifiers: FNB0650

Building Name: MUNFORD ELEMENTARY

Use: Schools

Latitude: 35.453012 **Longitude:** 89.802831

Sr: 1.212 **Sr:** 0.415

Screeners(s): Abdulmutab Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1985 est

Total Floor Area (sq. ft.): 84633 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Elementary Schools Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity)
 Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (RRF)	S2 (BR)	S3 (LC)	S4 (RC (RM) (R))	S5 (RM) (R)	C1 (RRF)	C2 (BR)	C3 (RR) (F)	PC1 (TU)	PC2	RM1 (FX)	RM2 (FE)	UR1	MH
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V ₁		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, V ₂		-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.5	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, P ₁		-1.1	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.6	-0.6	-0.5	-0.7	-0.6	-0.7	-0.7	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmarks		1.5	1.9	2.2	1.4	1.4	1.1	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.3	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.6	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S _{min}		1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.0 ≤ **0.3**

EXTENT OF REVIEW	OTHER HAZARDS	ACTION REQUIRED
Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____	Are There Hazards That Trigger A Detailed Structural Evaluation? <input type="checkbox"/> Pounding potential (unless S ₁ > out-off, if known) <input type="checkbox"/> Falling hazards from taller adjacent building <input type="checkbox"/> Geologic hazards or Soil Type F <input type="checkbox"/> Significant damage/deterioration to the structural system	Detailed Structural Evaluation Required? <input type="checkbox"/> Yes, unknown FEMA building type or other building <input type="checkbox"/> Yes, score less than cut-off <input type="checkbox"/> Yes, other hazards present <input type="checkbox"/> No Detailed Nonstructural Evaluation Recommended? (check one) <input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated <input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary <input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK


Where information cannot be verified, screener shall note the following: **EST** = Estimated or unreliable data **OR** **DNK** = Do Not Know

Legend: MF = Moment-resisting frame RC = Reinforced concrete URM = Unreinforced masonry wall MH = Manufactured Housing FD = Flexible diaphragm
 BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.396 RVS form for Structure #195

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
HIGH Seismicity

PHOTOGRAPH	Address: 100 EDUCATION AV Zip: 38058
	Other Identifiers: FNR0651
SKETCH	Building Name: MUNFORD ELEMENTARY
	Use: Schools
	Latitude: 35.459614 Longitude: 89.802624
	Sr: 1.222 St: 0.118
Screener(s): Abdulmutau Abdulhadi Date/Time: _____	
No. Stories: Above Grade: _____ Below Grade: _____ Year Built: 1992 <input type="checkbox"/> est	
Total Floor Area (sq. ft.): 112000 Code Year: 1991	
Additions: <input type="checkbox"/> None <input type="checkbox"/> Yes, Year(s) Built: _____	
Occupancy: Assembly <input type="checkbox"/> Commercial <input type="checkbox"/> <u>Elementary School</u> <input type="checkbox"/> Historic <input type="checkbox"/> Shelter Industrial <input type="checkbox"/> Office <input type="checkbox"/> <u>School</u> <input type="checkbox"/> Government Utility <input type="checkbox"/> Warehouse <input type="checkbox"/> Residential, # Units: _____	
Soil Type: <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input checked="" type="checkbox"/> D <input type="checkbox"/> E <input type="checkbox"/> F <input type="checkbox"/> DNK Hard Avg Dense Stiff Soft Poor #DNK, assume Type D Rock Rock Soil Soil Soil Soil	
Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK	
Adjacency: <input type="checkbox"/> Pounding <input type="checkbox"/> Falling Hazards from Taller Adjacent Building	
Irregularities: <input checked="" type="checkbox"/> Vertical (type/severity) _____ <input checked="" type="checkbox"/> Plan (type) _____	
Exterior Falling Hazards: <input type="checkbox"/> Unbraced Chimneys <input type="checkbox"/> Heavy Cladding or Heavy Veneer <input type="checkbox"/> Parapets <input type="checkbox"/> Appendages <input type="checkbox"/> Other: _____	
COMMENTS: _____	
<input type="checkbox"/> Additional sketches or comments on separate page	

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S_{L1}

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (RRF)	S2 (BR)	S3 (LC)	S4 (RC (RM) (RF))	S5 (RM) (RF)	C1 (RRF)	C2 (BR)	C3 (RR) (RF)	PC1 (TU)	PC2	RM1 (FX)	RM2 (FE)	UR1	MH
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V ₁		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, V ₂		-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.5	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, P ₁		-1.1	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.6	-0.6	-0.5	-0.7	-0.6	-0.7	-0.7	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmarks		1.5	1.9	2.2	1.4	1.4	1.1	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.3	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.6	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S _{min}		1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 2.4 ≥ 0.0

<p>EXTENT OF REVIEW</p> <p>Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____</p> <p>LEVEL 2 SCREENING PERFORMED?</p> <p><input type="checkbox"/> Yes, Final Level 2 Score, S_{L2} _____ <input type="checkbox"/> No Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>OTHER HAZARDS</p> <p>Are There Hazards That Trigger A Detailed Structural Evaluation?</p> <p><input type="checkbox"/> Pounding potential (unless S_{L1} > out-off, if known) <input type="checkbox"/> Falling hazards from taller adjacent building <input type="checkbox"/> Geologic hazards or Soil Type F <input type="checkbox"/> Significant damage/deterioration to the structural system</p>	<p>ACTION REQUIRED</p> <p>Detailed Structural Evaluation Required?</p> <p><input type="checkbox"/> Yes, unknown FEMA building type or other building <input type="checkbox"/> Yes, score less than cut-off <input type="checkbox"/> Yes, other hazards present <input type="checkbox"/> No</p> <p>Detailed Nonstructural Evaluation Recommended? (check one)</p> <p><input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated <input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary <input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK</p>
--	--	---


Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know

Legend: MF = Moment-resisting frame RC = Reinforced concrete URM/IM = Unreinforced masonry/infill MH = Manufactured Housing FD = Flexible diaphragm
ER = Fixed frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.397 RVS form for Structure #196.1

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
HIGH Seismicity

PHOTOGRAPH	Address: 100 EDUCATION AV Zip: 38058
	Other Identifiers: FNU0652
SKETCH	Building Name: MUNFORD MIDDLE SCHOOL (BRAND)
	Use: Schools
	Latitude: 35.459614 Longitude: 89.802624
	Sr: 1.222 Sr: 0.118
	Screener(s): Abdulmutau Abdulhadi Date/Time:
	No. Stories: Above Grade: Below Grade: Year Built: 1992 <input type="checkbox"/> est
	Total Floor Area (sq. ft.): 5000 Code Year: 1991
	Additions: <input type="checkbox"/> None <input type="checkbox"/> Yes, Year(s) Built:
	Occupancy: Assembly <input type="checkbox"/> Commercial <input type="checkbox"/> <u>Elementary School</u> <input type="checkbox"/> Historic <input type="checkbox"/> Shelter Industrial <input type="checkbox"/> Office <input type="checkbox"/> <u>School</u> <input type="checkbox"/> Government Utility <input type="checkbox"/> Warehouse <input type="checkbox"/> Residential, # Units:
	Soil Type: <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input checked="" type="checkbox"/> D <input type="checkbox"/> E <input type="checkbox"/> F <input type="checkbox"/> DNK Hard Avg Dense Stiff Soft Poor #DNK, assume Type D Rock Rock Soil Soil Soil Soil
	Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK
	Adjacency: <input type="checkbox"/> Pounding <input type="checkbox"/> Falling Hazards from Taller Adjacent Building
	Irregularities: <input type="checkbox"/> Vertical (type/severity): <input type="checkbox"/> Plan (type)
	Exterior Falling Hazards: <input type="checkbox"/> Unbraced Chimneys <input type="checkbox"/> Heavy Cladding or Heavy Veneer <input type="checkbox"/> Parapets <input type="checkbox"/> Appendages <input type="checkbox"/> Other:
	COMMENTS:
	<input type="checkbox"/> Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S_{L1}

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (RRF)	S2 (BR)	S3 (LC)	S4 (RC (RM) (RF))	S5 (RM) (RF)	C1 (RRF)	C2 (BR)	C3 (RR) (RF)	PC1 (TU)	PC2	RH1 (FX)	RH2 (FE)	UR1	MH
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V ₁		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, V ₂		-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.5	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, P ₁		-1.1	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.6	-0.6	-0.5	-0.7	-0.6	-0.7	-0.7	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmarks		1.5	1.9	2.2	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.3	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.6	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S _{min}		1.1	0.9	0.7	0.5	0.6	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 3.7 ≥ 2.5

<p>EXTENT OF REVIEW</p> <p>Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____</p> <p>LEVEL 2 SCREENING PERFORMED?</p> <p><input type="checkbox"/> Yes, Final Level 2 Score, S_{L2} _____ <input type="checkbox"/> No Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>OTHER HAZARDS</p> <p>Are There Hazards That Trigger A Detailed Structural Evaluation?</p> <p><input type="checkbox"/> Pounding potential (unless S_{L1} > out-off, if known) <input type="checkbox"/> Falling hazards from taller adjacent building <input type="checkbox"/> Geologic hazards or Soil Type F <input type="checkbox"/> Significant damage/deterioration to the structural system</p>	<p>ACTION REQUIRED</p> <p>Detailed Structural Evaluation Required?</p> <p><input type="checkbox"/> Yes, unknown FEMA building type or other building <input type="checkbox"/> Yes, score less than cut-off <input type="checkbox"/> Yes, other hazards present <input type="checkbox"/> No</p> <p>Detailed Nonstructural Evaluation Recommended? (check one)</p> <p><input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated <input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary <input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK</p>
<p>Where information cannot be verified, screener shall note the following: <u>EST</u> = Estimated or unreliable data <u>OR</u> <u>DNK</u> = Do Not Know</p>		


Legend: MF = Moment-resisting frame RC = Reinforced concrete URM = Unreinforced masonry wall MH = Manufactured Housing FD = Flexible diaphragm
ER = Fixed frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.398 RVS form for Structure #196.2

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 1080 McLAUGHLIN DR Zip: 38058

Other Identifiers: FNR0751

Building Name: MUNFORD HIGH SCHOOL

Use: Schools

Latitude: 35.453873 **Longitude:** 89.800737

Sr: 1.212 **Sr:** 0.415

Screener(s): Abdulmutab Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 1982 est

Total Floor Area (sq. ft.): 13571 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Elementary Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Stiff Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (L)	S4 (RC BR)	S5 (MRF BR)	C1 (MRF)	C2 (BR)	C3 (LRS (F))	PC1 (TU)	PC2	RM1 (FX)	RM2 (FE)	UR1	MH
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V ₁		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, V ₂		-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.5	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, P ₁		-1.1	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.6	-0.6	-0.5	-0.7	-0.6	-0.7	-0.7	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmarks		1.5	1.9	2.2	1.4	1.4	1.1	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.3	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.6	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S _{min}		1.1	0.9	0.7	0.5	0.5	0.6	0.6	0.5	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0
FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min}		0.0 ≤ 0.3																

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial

Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > out-off, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data DR = Do Not Know


Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM = Unreinforced masonry wall MH = Manufactured Housing BR = Braced frame SW = Shear wall TU = Tie up LM = Light metal FD = Flexible diaphragm RD = Rigid diaphragm

Figure J.399 RVS form for Structure #197.1

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 1080 McLAUGHLIN DR Zip: 38058

Other Identifiers: FNR09752

Building Name: MUNFORD HIGH SCHOOL (VOCATIONAL)

Use: Schools

Latitude: 35.454674 **Longitude:** 89.800319

Sr: 1.212 **Sr:** 0.415

Screeners: Abdulmutab Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 2003 est

Total Floor Area (sq. ft.): 95,9 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Enter Specifics Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Stiff Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity):
 Plan (type):

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S_{L1}

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (L)	S4 (RC BR)	S5 (MRF BR)	C1 (MRF)	C2 (BR)	C3 (LRS (F))	PC1 (TU)	PC2	RH1 (FX)	RH2 (FE)	UR1	MH
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V ₁		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, V ₂		-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.5	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, P ₁		-1.1	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.6	-0.6	-0.5	-0.7	-0.6	-0.7	-0.7	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmarks		1.5	1.9	2.2	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.3	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.6	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S _{min}		1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 3.7 ≥ 0.6

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial

Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > out-off, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know

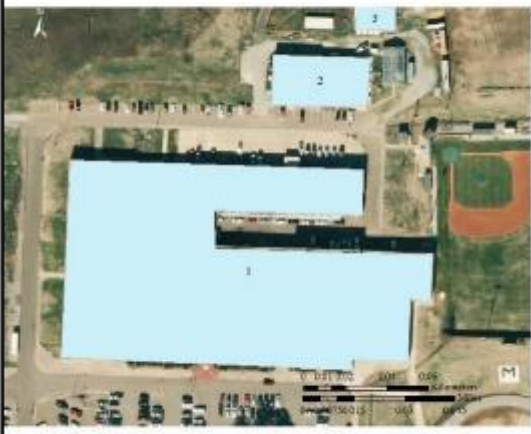
Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM/MF = Unreinforced masonry infill MH = Manufactured Housing BR = Braced frame SW = Shear wall TU = Tie up LM = Light metal FD = Flexible diaphragm RD = Rigid diaphragm

Figure J.400 RVS form for Structure #197.2

Rapid Visual Screening of Buildings for Potential Seismic Hazards
FEMA P-154 Data Collection Form

Level 1
HIGH Seismicity

PHOTOGRAPH



SKETCH

Address: 1080 MCCLAIN CIRCLE
Zip: 38058

Other Identifiers: FNR0752

Building Name: MCFORD HEGE SCHOOL (AG. SHOP)

Use: Schools

Latitude: 35.454948 **Longitude:** 89.890059

Sr: 1.212 **St:** 0.415

Screeners: Abdulmutab Abdulhadi **Date/Time:**

No. Stories: Above Grade: Below Grade: **Year Built:** 2003 est

Total Floor Area (sq. ft.): 57,6 **Code Year:** 1991

Additions: None Yes, Year(s) Built:

Occupancy: Assembly Commercial Elementary Schools Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units:

Soil Type: A B C D E F DNK
Hard Avg Dense Stiff Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity):
 Plan (type)

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other:

COMMENTS:

Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S_{L1}

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (L)	S4 (RC BR)	S5 (MRF BR)	C1 (MRF)	C2 (BR)	C3 (LRF)	PC1 (TU)	PC2	RH1 (FX)	RH2 (FE)	UR1	MH
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V ₁		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, V ₂		-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.6	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, P ₁		-1.1	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.6	-0.6	-0.5	-0.7	-0.6	-0.7	-0.7	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmarks		1.5	1.9	2.2	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.3	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.6	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S _{min}		1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.6	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 3.7 ≥ 0.6

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial

Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: _____

Geologic Hazards Source: _____

Contact Person: _____

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} _____ No

Nonstructural hazards? Yes No

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L1} > out-off, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/defect location to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM = Unreinforced masonry wall MH = Manufactured Housing BR = Braced frame SW = Steel wall TU = Tie up LM = Light metal FD = Flexible diaphragm RD = Rigid diaphragm

Figure J.401 RVS form for Structure #197.3

PHOTOGRAPH

SKETCH

Additional sketches or comments on separate page

Address: 215 ALLEN AVE **Zip:** 38101

Other Identifiers: J18015950

Building Name: JACKSON CENTRAL MERRY LARRY COLLEGE

Use: Schools

Latitude: 35.627368 **Longitude:** -88.811215

Sr: 0.742 **Sr:** 0.372

Screeener(s): Abdelrahman Abdelhadi **Data/Time:**

No. Stories: Above Grade: _____ Below Grade: _____ **Year Built:** 1951 EST

Total Floor Area (sq. ft.): 42571.42569 **Code Year:** 1993

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, # Units: _____

Soil Type: A B C D E F DNK
Hard Avg. Dense Silt Soft Poor #DNK, assume Type D
Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) _____
 Plan (type) _____

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: _____

COMMENTS:

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S _{L1}																		
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (MRF)	S3 (IAC)	S4 (RC SW)	S5 (MRF BT)	C1 (SW)	C2 (SW)	C3 (URC IN)	PC1 (TU)	PC2 (TU)	RM1 (FD)	RM2 (FD)	URW	MH
Basic Score		4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, V ₁		-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.8	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, V ₂		-0.5	-0.8	-0.5	-0.7	-0.8	-0.8	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5
Plan Irregularity, P ₁		-1.3	-1.2	-1.1	-0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	-0.5
Pre-Code		-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.3	-0.3
Post-Benchmark		1.5	1.9	2.3	1.4	1.4	1.3	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.3	0.6	0.9	0.6	0.9	0.5	0.9	0.9	0.6	0.6	0.7	0.9	0.7	0.6	0.6	0.6	0.9
Soil Type E (1-3 stories)		0.0	-0.1	-0.3	-0.1	-0.5	0.0	-0.1	-0.5	-0.2	-0.2	-0.1	-0.5	-0.3	-0.1	-0.1	-0.3	-0.5
Soil Type E (> 3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.6	-0.8	-0.8	-0.4	NA	-0.5	-0.8	-0.7	-0.3	NA
Minimum Score, S _{min}		1.6	1.2	0.9	0.5	0.5	0.9	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.4

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{min} 0.1 < 0.2

EXTENT OF REVIEW	OTHER HAZARDS	ACTION REQUIRED
Exterior: <input type="checkbox"/> Partial <input type="checkbox"/> All Sides <input type="checkbox"/> Aerial Interior: <input type="checkbox"/> None <input type="checkbox"/> Visible <input type="checkbox"/> Entered Drawings Reviewed: <input type="checkbox"/> Yes <input type="checkbox"/> No Soil Type Source: _____ Geologic Hazards Source: _____ Contact Person: _____	Are There Hazards That Trigger A Detailed Structural Evaluation? <input type="checkbox"/> Pounding potential (unless S _{L1} > out-of, if known) <input type="checkbox"/> Falling hazards from taller adjacent building <input type="checkbox"/> Geologic hazards or Soil Type F <input type="checkbox"/> Significant damage/deterioration to the structural system	Detailed Structural Evaluation Required? <input type="checkbox"/> Yes, unknown FEMA building type or other building <input type="checkbox"/> Yes, score less than out-of <input type="checkbox"/> Yes, other hazards present <input type="checkbox"/> No Detailed Nonstructural Evaluation Recommended? (check one) <input type="checkbox"/> Yes, nonstructural hazards identified that should be evaluated <input type="checkbox"/> No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary <input type="checkbox"/> No, no nonstructural hazards identified <input type="checkbox"/> DNK
LEVEL 2 SCREENING PERFORMED? <input type="checkbox"/> Yes, Final Level 2 Score, S _{L2} _____ <input type="checkbox"/> No Nonstructural hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No	Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know	

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM MRF = Unreinforced masonry infill MH = Assembled Housing FD = Flexible diaphragm
 BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure J.402 RVS form for Structure #198

Appendix K. Damage Comparisons with MAEC Report

For Dyer and Lake counties, it was found that the USGS hazard maps produce more bridges with a probability of complete damage of 50% or greater, whereas Lauderdale, Madison, and Tipton counties all had more bridges with a probability of complete damage of 50% or greater. Tipton county was the only county to have MAEC result in more bridges with a probability of complete damage of 50% or greater, but both USGS and CERI hazards resulted in more bridges having a probability of 50% or greater of at least moderate damage as seen in Table K.1. Moderate damage for bridges is when significant cracking and spalling in concrete, moderate settlement of the approach slab, and less than 2-inch movement in the abutment. For further explanation of bridge damage states, refer to Hazus Earthquake Model Technical Manual. Since there was a large increase of bridges assessed in this study compared to MAEC, there was a higher number of structures with a 50% or greater probability of being functional on the first day after an earthquake were to occur.

Table K.1 MAEC Comparison Bridges Damage and 1 Day Functionality

Bridges Damage & Functionality											
County	Total No. of Structures		At Least Moderate Damage (Damage >50%)			Complete Damage (Damage >50%)			Functionality >50% at Day 1		
	MAEC	This Study	(1)	(2)	(3)	(1)	(2)	(3)	(1)	(2)	(3)
Dyer	121	242	6	183	221	6	35	53	0	61	28
Lake	14	30	2	29	29	1	6	29	12	3	1
Lauderdale	94	269	7	63	84	7	22	19	0	214	190
Madison	145	422	22	62	60	0	2	0	117	360	362
Tipton	54	206	10	16	18	10	4	2	11	190	188
All 5 Counties	428	1169	47	353	412	24	69	103	140	828	769

Table K.1 MAEC Comparison Bridges Damage and 1 Day Functionality

Bridges Damage & Functionality											
County	Total No. of Structures		At Least Moderate Damage (Damage >50%)			Complete Damage (Damage >50%)			Functionality >50% at Day 1		
	MAEC	This Study	(1)	(2)	(3)	(1)	(2)	(3)	(1)	(2)	(3)
% Difference to USGS			-14%			-33%			8%		

(1) MAEC

(2) CERI

(3) USGS

In this study, each county experience an increase in the number of hospital structures assessed, and 2 out of 5 counties have a higher number of hospital facilities that have a 50% or greater probability of complete damage. The 2 out of 5 counties that had a higher number of structures with a 50% or greater probability of complete damage were Dyer and Lauderdale. This only occurred in the CERI hazard, and the USGS hazard did not have any hospital structures with a 50% or greater probability of complete damage. However, for all counties, there was an increase or equivalent result in structures with a 50% or greater probability of moderate damage, as seen in Table K.2

Table K.2 MAEC Comparison Hospital Damage

Hospital Damage								
County	Total No. of Facilities/Structures		At Least Moderate Damage			Complete Damage		
	MAEC	CERI	MAEC	CERI	USGS	MAEC	CERI	USGS
Dyer	1	4 (6)	1	1 (6)	1 (6)	1	1 (3)	0 (0)
Lake	-	-	-	-	-	-	-	-

Table K.2 MAEC Comparison Hospital Damage

Hospital Damage								
County	Total No. of Facilities/Structures		At Least Moderate Damage			Complete Damage		
	MAEC	CERI	MAEC	CERI	USGS	MAEC	CERI	USGS
Lauderdale	1	1 (3)	1	1 (3)	1 (3)	1	1 (3)	0 (0)
Madison	3	3 (3)	3	3 (3)	3 (3)	0	0 (0)	0 (0)
Tipton	1	1 (5)	1	1 (3)	1 (5)	1	0 (0)	0 (0)

For Lake County, it was found that the USGS hazard maps produced more schools with a probability of complete damage of 50% or greater, whereas Lauderdale, Madison, and Tipton counties all had more schools with a probability of complete damage of 50 % or greater, due to the CERI hazard. Tipton and Lauderdale counties were the only counties to have MAEC result in more schools with a probability of complete damage of 50% or greater, but both USGS and CERI hazards resulted in more schools having a probability of 50% or greater of at least moderate damage in all counties except Tipton as seen in Table K.3

Table K.3 MAEC Comparison School Damage

School Damage								
County	Total No. of Facilities (Structures)		At Least Moderate Damage			Complete Damage		
	MAEC	CERI	MAEC	CERI	USGS	MAEC	CERI	USGS
Dyer	17	14 (27)	17	14 (27)	14 (27)	17	11 (21)	11 (21)
Lake	3	3 (12)	3	3 (12)	3 (12)	1	3 (11)	3 (12)
Lauderdale	10	8 (16)	10	8 (16)	8 (16)	10	3 (4)	1 (2)
Madison	44	48 (203)	44	45 (167)	40 (154)	0	17 (38)	0 (0)
Tipton	14	17 (36)	14	7 (13)	17 (36)	14	5 (10)	1 (1)

MAEC resulted in more police stations with a 50% or greater probability of complete damage

than both CERI and USGS hazards in all counties except Lake County. Dyer and Tipton counties were the only counties to have MAEC result in more police with a probability of moderate damage of 50% or greater, but both USGS and CERI hazards resulted in more police stations having a probability of 50% or greater of at least moderate damage in Lake and Lauderdale County as seen in Table K.4.

Table K.4 MAEC Comparison Police Stations Damage

Police Station Damage								
County	Total No. of Facilities (Structures)		At Least Moderate Damage			Complete Damage		
	MAEC	This Study	MAEC	CERI	USGS	MAEC	CERI	USGS
Dyer	7	4 (4)	7	4 (4)	4 (4)	7	0 (0)	0 (0)
Lake	3	3 (5)	3	3 (5)	3 (5)	1	3 (5)	3 (5)
Lauderdale	5	5 (7)	5	4 (6)	5 (7)	5	2 (2)	0 (0)
Madison	3	4 (8)	3	3 (3)	1 (1)	0	0 (0)	0 (0)
Tipton	6	6 (6)	6	3 (3)	5 (5)	6	2 (2)	0 (0)

MAEC resulted in more fire stations with a 50% or greater probability of complete damage than both CERI and USGS hazards in Lauderdale and Tipton County. Dyer and Lake counties both resulted in more fire stations with a 50% or greater probability of complete damage in both CERI and USGS hazards. Tipton county was the only county to have MAEC result in more fire stations with a probability of moderate damage of 50% or greater compared to the CERI hazard, as seen in Table K.5

Table K.5 MAEC Comparison Fire Station Damage

Fire Station Damage								
County	Total No. of Facilities (Structures)		At Least Moderate Damage			Complete Damage		
	MAEC	This Study	MAEC	CERI	USGS	MAEC	CERI	USGS
Dyer	6	14 (17)	6	11 (13)	14 (17)	6	7 (9)	7 (8)
Lake	2	2 (3)	2	2 (3)	2 (3)	1	2 (3)	2 (3)
Lauderdale	7	7 (8)	7	7 (7)	7 (7)	7	5 (5)	0 (0)
Madison	22	25 (29)	22	23 (25)	24 (27)	0	4 (5)	0 (0)
Tipton	10	13 (13)	10	4 (4)	12 (12)	10	2 (2)	0 (0)