

INDOT Hydraulics Process Modernization and Policy Updates

Stephanie Wagner, PE Director of Bridge Engineering
Mark Bailey, PE Director of Hydraulics

I-90 (NY State Thruway) over Schoharie Creek

- Collapsed April 1987
 - 10 fatalities
 - 30-year-old bridge
 - 15,000 vehicles a day
- +/- 10' scour hole



Snowmelt + 5.9" of Rain = Est. 50 Yr. Flood

Schoharie Bridge Investigation and Research



- 1:50 Scale Model
- Colorado State University

Contributing Factors

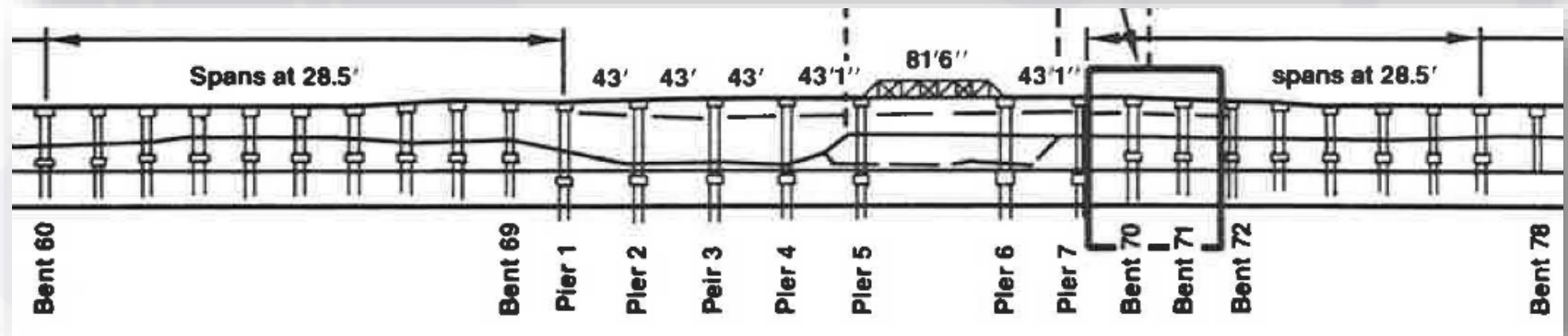
- Waterway Geometry
- Sheet Piling Removed
- Improperly Sized Riprap

US 51 over Hatchie River

- Collapsed April 1989
 - 8 fatalities
 - Built in 1936

Contributing Factors

- Stream Migration
- Foundations
 - Shallower in Floodplain
 - Independent Footings
- Adjacent Structure

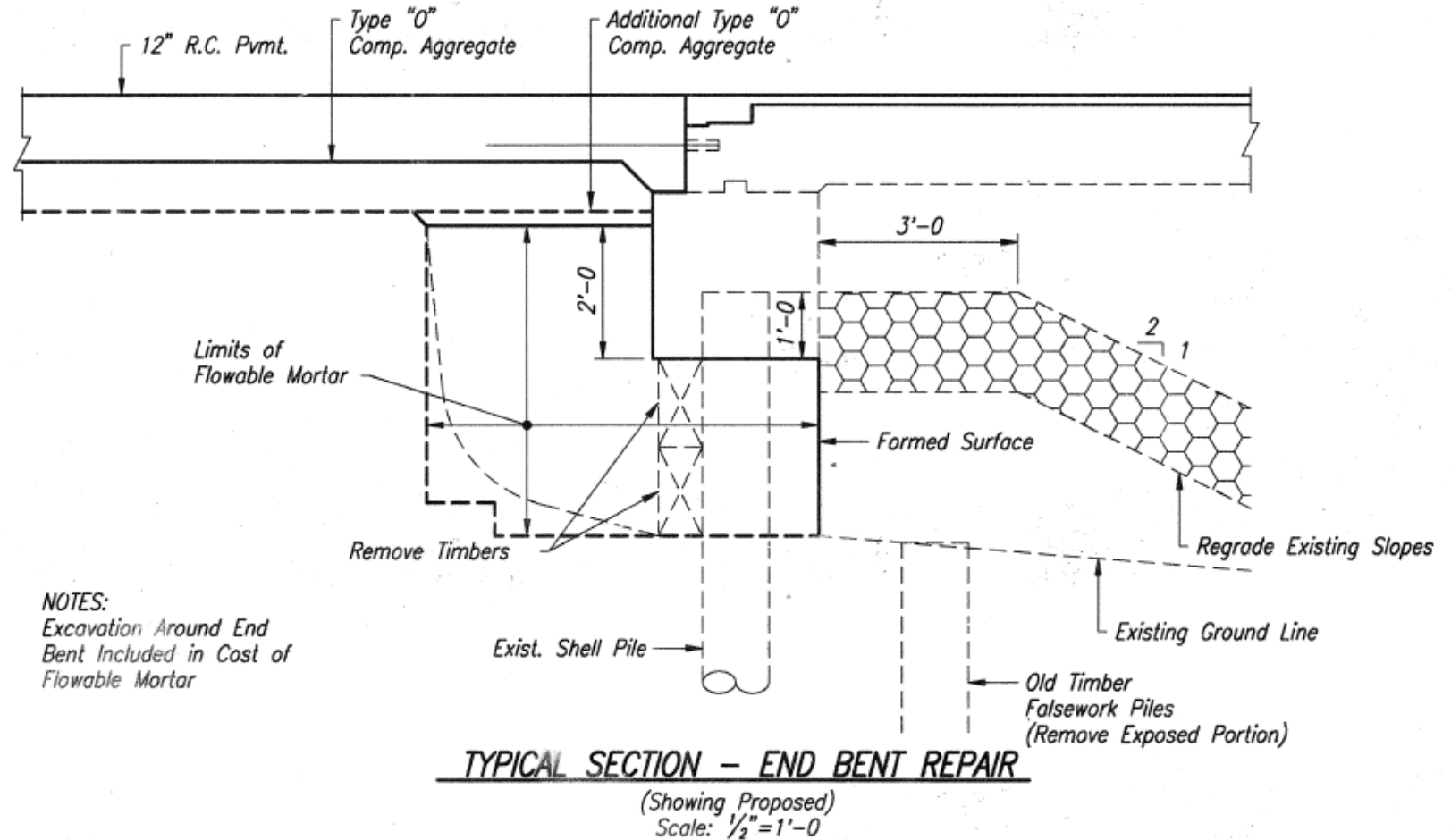


National Reactions

- 1988 National Bridge Scour Program initiated by FHWA
 - Policy applied to every bridge over a waterway (existing or under design)
 - Design for scour resistance
 - Evaluate existing bridges for scour vulnerability
 - Determine prudent measures to be taken
- 1989 Indiana Dept of Highways releases updated Hydraulics Manual
- Thru 1990's
 - Started process of evaluating every existing bridges
 - Prioritized by a risk-based approach and within rehab projects
 - Constant reminders to designers
 - Isolated issues throughout the state

I-74 over Branch of Black Creek (1996)

- Thursday of Race Weekend
- Water Overtopped I-74 Westbound
- Exposed Abutment Piles
- Closed Interstate



SR 446 over Little Salt Creek (April 1998)

- Significant Spill-Slope Loss
- Unsupported 10" RCBA



SR 446 over Little Salt Creek (Repaired)



INDOT's Plan in Action

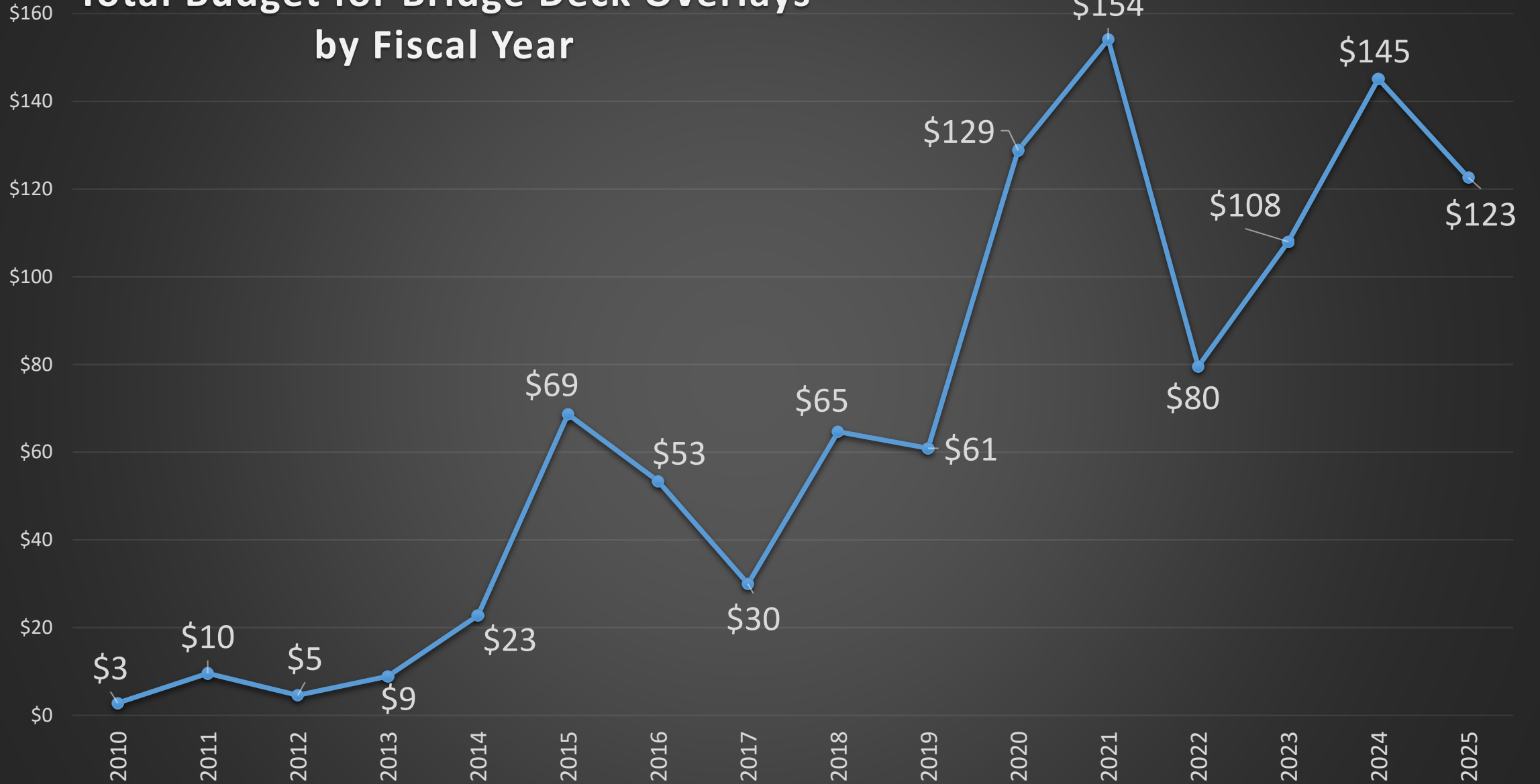
- New Bridges – Design for Scour
- 18,000 Existing Bridges in Indiana??
 - Scour Analysis for every bridge project
 - Hundreds of design projects and targeted scour analysis contracts

**ALMOST
THERE!**

- Meanwhile... Bridge Preventive Maintenance Program
 - Started in 2010's
 - Many new work types (joint replacements, polymeric overlays) w/ shorter design life's
 - Included existing work type: Rigid Overlays

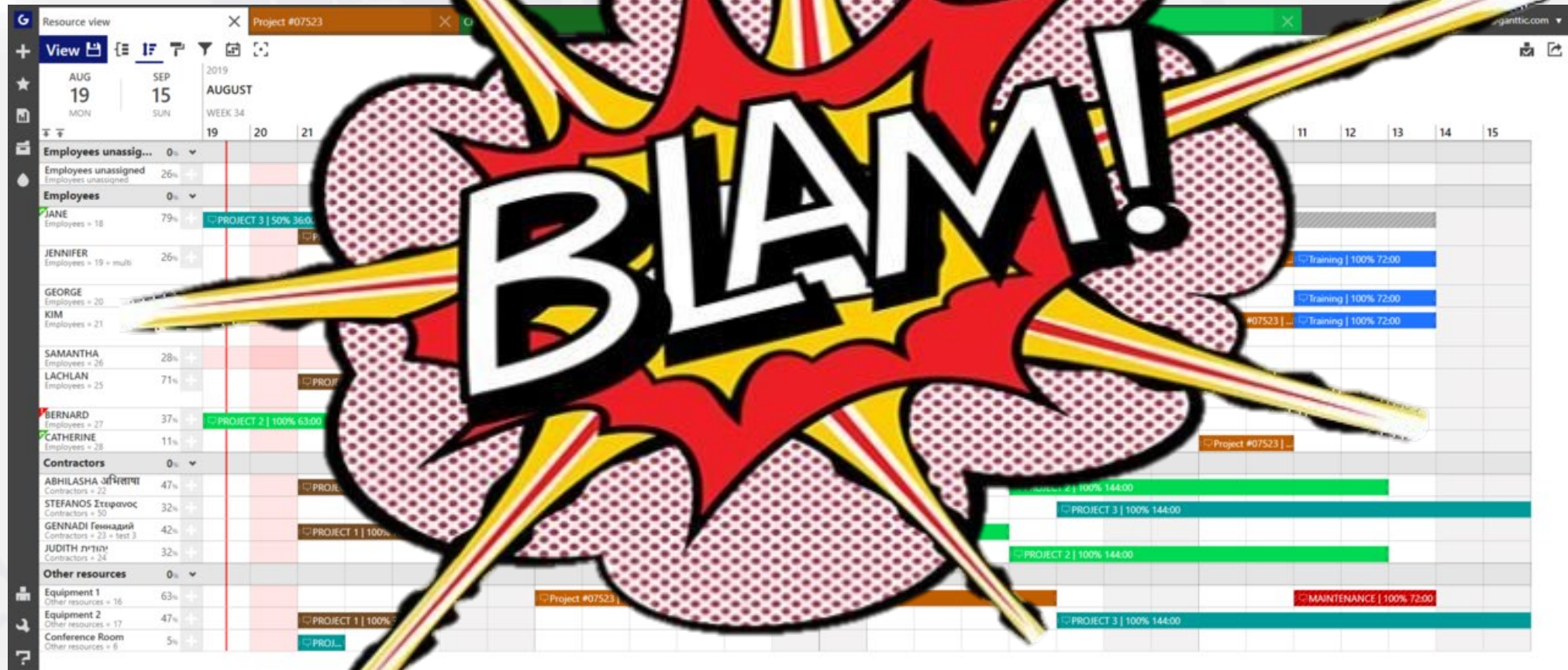
Total Budget for Bridge Deck Overlays by Fiscal Year

MILLIONS



Today

- Schedule surprises
 - Waterway Permits
 - R/W Acquisition



Design Memorandum No. 21-18

- Eliminates the scour analysis requirements for all PM projects
- Why?
 - Shorter design life (lower risk)
 - Newer structures designed for scour (TYP.)
 - Existing scour analysis for most bridges
- Exceptions
 - Bridges with Scour Analysis Status = 7 in BIAS*
 - Field observed scour must be addressed
 - Scour specific projects still require analysis

* Revision forthcoming

EFFECTIVE:

Stage 1 Submittals on or after October 1, 2021



INDIANA DEPARTMENT OF TRANSPORTATION
Driving Indiana's Economic Growth

Design Memorandum No. 21-18

TO:

September 9, 2021

FROM:

Director, Bridge Engineering Division
Scour Requirements for Bridge Preventive Maintenance Projects
Indiana Design Manual (IDM) Chapter 14-2.05
Indiana Design Manual (IDM) Chapter 412-2.0 and Figure 412-2C

EFFECTIVE:

Stage 1 Submittals on or after October 1, 2021

Scour analyses are no longer required for all Bridge Preventive Maintenance projects on INDOT-maintained bridges except for those projects specially addressing scour mitigation or on bridges with observed scour.

Prior to this update, rigid overlay was the only Preventive Maintenance work type which required scour analysis. This was a remnant from a time when rigid overlays were considered a Bridge Rehabilitation treatment.

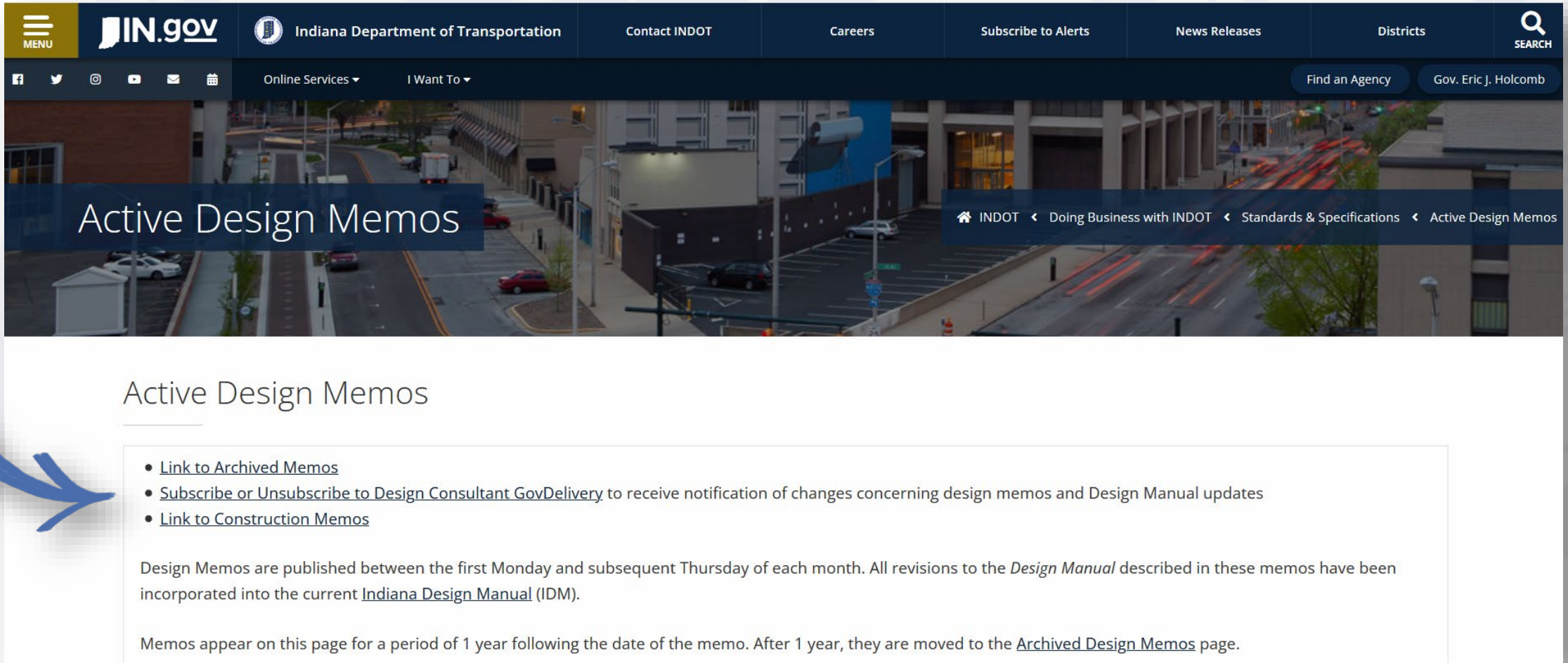
INDOT recognizes the inherently lower risk associated with these projects given the shorter design life associated with preventive maintenance treatments. Additionally, many of the structures receiving preventive maintenance work are newer structures which were designed for scour. Older structures receiving these treatments are likely planned for more significant work in the near future and scour mitigation measures can be more cost effectively placed at that time.

For questions related to this design memo, please contact the Bridge Engineering Division at BridgeDesignOffice@indot.in.gov.

Design Memo 21-18

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The screenshot shows the INDOT website header with navigation links: MENU, IN.gov, Indiana Department of Transportation, Contact INDOT, Careers, Subscribe to Alerts, News Releases, Districts, and SEARCH. Below the header is a banner for 'Active Design Memos' with a breadcrumb trail: HOME > INDOT > Doing Business with INDOT > Standards & Specifications > Active Design Memos. The main content area is titled 'Active Design Memos' and contains a list of links:

- [Link to Archived Memos](#)
- [Subscribe or Unsubscribe to Design Consultant GovDelivery](#) to receive notification of changes concerning design memos and Design Manual updates
- [Link to Construction Memos](#)

Design Memos are published between the first Monday and subsequent Thursday of each month. All revisions to the *Design Manual* described in these memos have been incorporated into the current [Indiana Design Manual](#) (IDM).

Memos appear on this page for a period of 1 year following the date of the memo. After 1 year, they are moved to the [Archived Design Memos](#) page.

Queue Seamless Transition...

Hydraulics Process Modernization and Policy Updates

- Policy Updates

1. Design Memo 21-18
2. Design Memo ~~21-XX~~ 22-XX
3. Indiana Design Manual re-write
4. Prequalifications
5. In-kind replacements

- Process Modernization

1. Hydraulics Request Application (HRA)
2. BIAS update


Policy Updates – Design Memo 21-18

- Memo was revised 2/9/2022

Scour analyses are no longer required for all Bridge Preventive Maintenance projects on INDOT-maintained bridges except in the following circumstances:

1. Projects specifically addressing scour mitigation
2. Bridges with observed scour in the field.
3. Bridge with a Scour Analysis Status equal to 7 in BIAS

Policy Updates – Design Memo 21-18

 AssetWise
CONNECT Edition

MainCollectorManagerAdministrationHelp

469

Report Filter

(263)63-86-04697 B [022828] (04.76 S SR 28) @ (REDWOOD CREEK)

006-17-04695 B [001850] (01.81 W SR 427) @ (I-69 NB/SB)

018-09-01971 A [004690] (01.90 E SR 29) @ (GRASS RUN CREEK)

041-42-05083 BSBL [014690] (00.58 S US 50) @ (KELSO CREEK)

056-39-02469 [020340] (00.18 W SR 7) @ (ABANDONED RR)

057-26-01469 A [020520] (01.39 S SR 168) @ (SMITH FORK)

066-88-07469 A [023685] (01.00 W US 150) @ (HONEY CREEK)


067-18-05469 B [024190] (03.64 S SR 3) @ (NO NAME CREEK)

071-04-05833 B [024690] (00.26 S SR 18) @ (SALMON CREEK)


09-00509 [006469] (00.53 S OF US 24) @ (GOOSE CREEK)



No rows found

Policy Updates – Design Memo 21-18

 **AssetWise**
CONNECT Edition


[Main](#) [Collector](#) [Manager](#) [Administration](#) [Help](#)

Type Asset Name Here... 

Asset Details: (263)63-86-04697 B  [Sent Emails](#) [+Show More Details](#) ☒ [Edit Asset Values](#)  [Show on Map](#) [+Create Report](#)

[Quick View](#) [Asset Info](#) [Files](#) [Scheduling](#) [Administration](#)

Parent Asset: Crawfordsville

Asset Name: (263)63-86-04697 B 

Asset Code: 022828

Asset Type: Bridge

Structure Status: Active Structure

NBI 098A: Border Bridge: Neighboring State Code:

NBI 099: Border Bridge Structure Number:

NBI 098B: Border Bridge: Percent Responsibility:

Border Bridge: No

Lead State: N/A

Add'l Structure Details:

NBI 007: Facility Carried by Structure: SR 263

NBI 006: Feature Intersected: REDWOOD CREEK

NBI 009: Location: 04.76 S SR 28

NBI 011: Milepoint: 0005.410

NBI 016: Latitude: 40.21189

NBI 017: Longitude: -87.39365

NBI 058: Deck: 6 - Satisfactory Condition (minor deterioration)

NBI 059: Superstructure: 6 - Satisfactory Condition (minor deterioration)

NBI 060: Substructure: 6 - Satisfactory Condition (minor deterioration)


NBI 061: Channel and Channel Protection: 7 - Bank protection needs minor repairs

NBI 062: Culverts: N - Not Applicable

NBI 041: Structure Open, Posted, or Closed to Traffic: A - Open

MAD-RP: 5

MAD-Offset: 0.432



Policy Updates – Design Memo 21-18

Group: All

The report sections below are included in the selected group.

Save Order Changes

Add Sections/PDF Attachments

View PDF

Remove Section	Order	Section Name	Print	Include in Table of Contents	Ins Cov Pa Bef Sect
	1	Report Cover	View	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	2	Table of Contents	View	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	3	Location Map	View	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	4	Executive Summary	View	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	5	National Bridge Inventory	View	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	6	Elements	View	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	7	Pictures	View	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	8	Sketches	View	<input type="checkbox"/>	<input type="checkbox"/>
	12	Maintenance Needs	View	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Save Order Changes

Add Sections/PDF Attachments

View PDF

Email PDF

(263)63-86-04697 B

Forms

Report Info

Report Sections

Pictures/Files

Location Map

Asset Files

NBI Error Check

Field Notes

National Bridge Inventory

Under Records

NBI Calculations

Element Inspection

Executive Summary

Scour Plan of Action-W

Delinquent Inspection Reporting

Misc Asset Data

Miscellaneous Asset Data

MAD2

Scour Channel Profile

Bridge POA Monitoring Log

Scour Analysis

Scour Analysis

Maintenance

Maintenance - Bridge

Critical Finding

Critical Finding Maintenance

Load Rating - Bradin

Load Rating - Bradin

History

Add History

Policy Updates – Design Memo 21-18

National Bridge Inventory Scour Critical Bridge Appraisal

NBI 113: Scour Critical Bridges NBI 113a Scour Critical Bridges Comments

Scour Determination by Analysis (To Be Completed by Hydraulics)

Scour Analysis Status Scour Analysis Date Scour Analysis Determination

Hydraulics Comments

Scour Critical Follow-up Action by Bridge Inspection

Scour Critical Safety Status Date of Counter Measure Placed or Field Verified

Bridge Inspection Comments

Scour Delineators installed

Forms

- Report Info
 - Report Sections
 - Pictures/Files
 - Location Map
 - Asset Files
 - NBI Error Check
- Field Notes
 - National Bridge Inventory
 - Under Records
 - NBI Calculations
 - Element Inspection
 - Executive Summary
 - Scour Plan of Action-W
 - Delinquent Inspection Reporting
- Misc Asset Data
 - Miscellaneous Asset Data
 - MAD2
 - Scour Channel Profile
 - Bridge POA Monitoring Log
- Scour Analysis
 - Scour Analysis**
- Maintenance
 - Maintenance - Bridge
- Critical Finding
 - Critical Finding Maintenance
- Load Rating - Bradin

Policy Updates – Design Memo 21-18

IS 5-Scou Scour Analysis Date

1-Scour Analysis on file

2-Scour POA on file

3-Scour Analysis is NOT on file, bridge should have been designed for scour

4-Scour Analysis is not on file, scour analysis being performed in house

W **5-Scour Analysis not on file, scour analysis needed**

y

6-Scour Analysis not needed. Structure type is not susceptible to scour

7-Bridge programmed to be rehabbed or replaced

Policy Updates – Design Memo 21-18

National Bridge Inventory Scour Critical Bridge Appraisal

NBI 113: Scour Critical Bridges NBI 113a Scour Critical Bridges Comments

Scour Determination by Analysis (To Be Completed by Hydraulics)

Scour Analysis Status Scour Analysis Date Scour Analysis Determination

Hydraulics Comments

Scour Critical Follow-up Action by Bridge Inspection

Scour Critical Safety Status Date of Counter Measure Placed or Field Verified

Bridge Inspection Comments

Scour Delineators installed

Policy Updates - Design Memo 22-XX

- Design Memo 22-XX (Requiring all hydraulic submittals to use the HRA starting on XX/22)

Policy Updates – Design Manual re-write

- Updates to 202
- Re-write of 203
 - Incorporating the developing design guidance from the hydraulics website
 - Clarifying some grey areas, plugging some holes
 - Taking a corridor wide design approach instead of individual design elements
 - Bridge
 - Small Structure
 - Storm Drains
 - Ditches
 - Detention

Policy Updates - Prequalifications

- Prequalifications
 - Quantity Trigger – 15 or more in a rolling 12-month period
 - % Trigger - $\geq 60\%$

Policy Updates – In-kind replacements

- Operations Memorandum 11-06

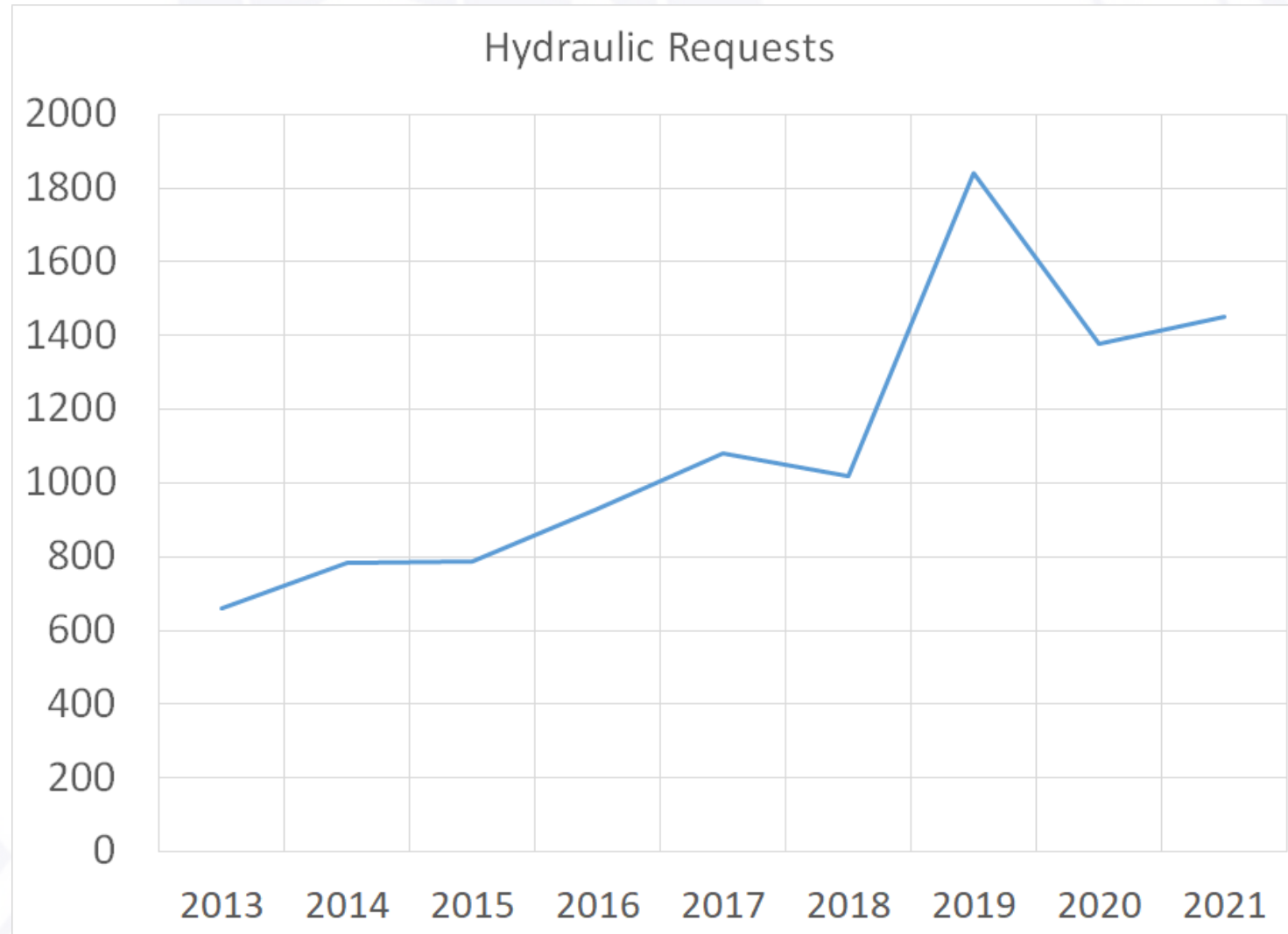
d. Capital Project Development. Culvert work that is programmed as a capital project should go through the capital project development process.

Designers 

INDOT Maintenance 

Hydraulics Request Application (HRA)

- Process Modernization
 - Why?

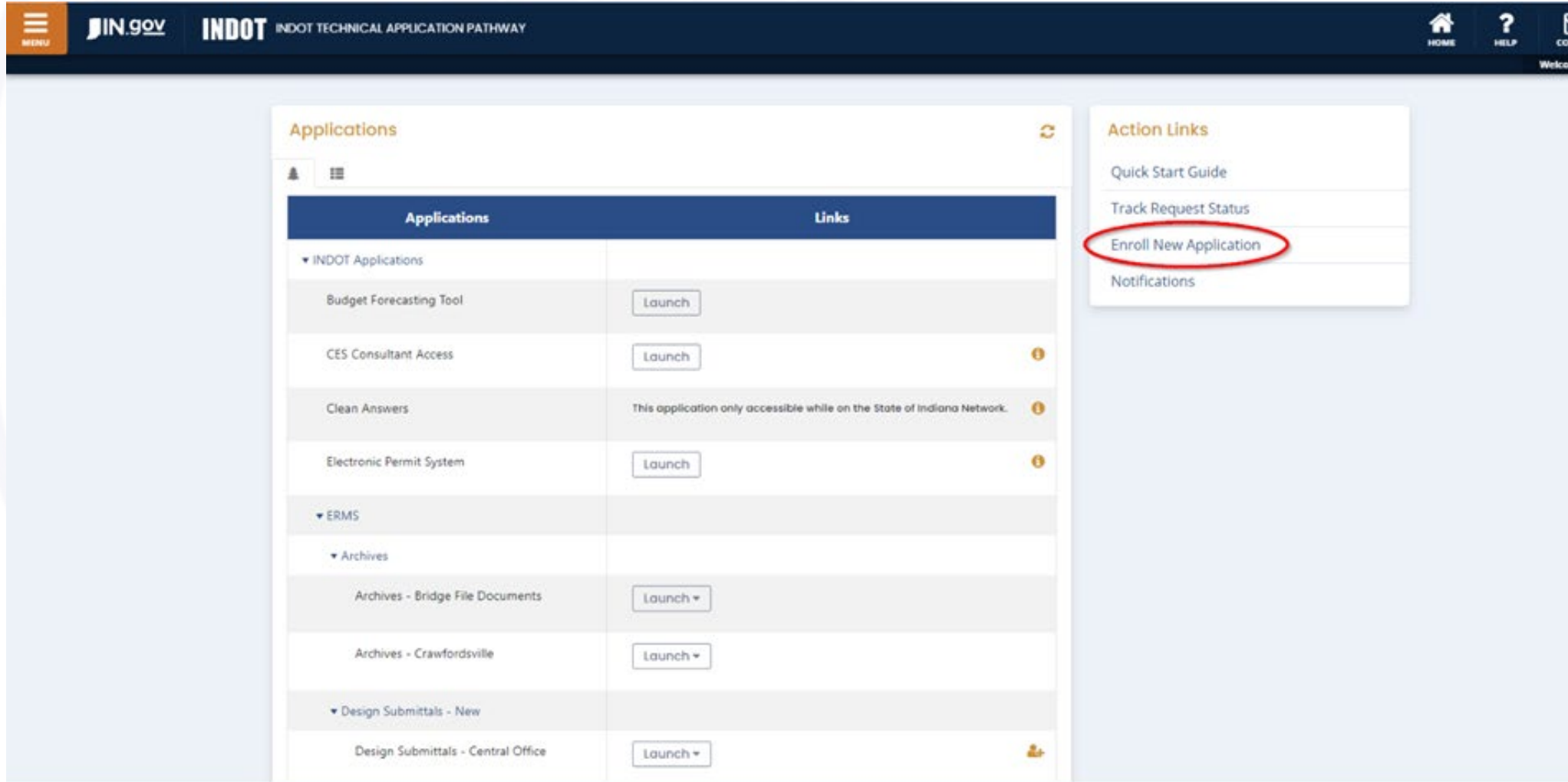


Hydraulics Request Application (HRA)

- History
 - One year of development time
 - Went live 3/26/2021 with a soft internal rollout
 - 6/29/2021 opened up for everyone
- As of 3/7/2022 (roughly 8 months)
 - 306 users
 - 44 firms
 - 2,281 requests processed
 - 13,500 emails eliminated
 - At an average of 10 min. per request of time savings, 380 hours (so far)

HRA Demonstration

- <https://itap.indot.in.gov/>.
- Click **Enroll New Application**











The screenshot displays the INDOT Technical Application Pathway (ITAP) web application. The header includes the IN.gov logo, the INDOT logo, and the text "INDOT TECHNICAL APPLICATION PATHWAY". The main content area is titled "Applications" and contains a table with two columns: "Applications" and "Links". The table lists various applications, including "Budget Forecasting Tool", "CES Consultant Access", "Clean Answers", "Electronic Permit System", "Archives - Bridge File Documents", "Archives - Crawfordsville", and "Design Submittals - Central Office". The "Links" column contains "Launch" buttons for most applications. The "Clean Answers" application has a message: "This application only accessible while on the State of Indiana Network." The sidebar on the right is titled "Action Links" and contains links for "Quick Start Guide", "Track Request Status", "Enroll New Application" (which is circled in red), and "Notifications".

Applications	Links
▼ INDOT Applications	
Budget Forecasting Tool	Launch
CES Consultant Access	Launch
Clean Answers	This application only accessible while on the State of Indiana Network.
Electronic Permit System	Launch
▼ ERMS	
▼ Archives	
Archives - Bridge File Documents	Launch
Archives - Crawfordsville	Launch
▼ Design Submittals - New	
Design Submittals - Central Office	Launch

Action Links

- [Quick Start Guide](#)
- [Track Request Status](#)
- [Enroll New Application](#)
- [Notifications](#)

HRA Demonstration

▼ Human Resources	
Bonus Automation System	Launch 
Employee Development Training Admin	Launch 
Employee Development Training Request	Launch 
HR Organizational Charts	Launch 
Hydraulics Request Application	Launch 
PathWeb	Launch 
PayWise	Launch  
Professional Services Contracting System	

HRA Demonstration

- What role to you need to request?

Home » Applications » Hydraulics Request Application

Application Application Users **Application Roles**

Roles Active Application Roles

[+ Add New](#) [Excel Export](#)

	Role	Description	Auto Assign	Mai... Exte...	Allow Registration	Status Date
	HRA Bridge QA	HRA Bridge QA Role	Not Auto-Assigned	No	Internal, External (excl. An...	Active 3/25/2021
	HRA QA	HRA QA Activity Role	Not Auto-Assigned	No	Internal, External (excl. An...	Active 3/25/2021
	HRA Reviewer	HRA Read-only Reviewer	Not Auto-Assigned	No	Internal, External (excl. An...	Active 3/25/2021
	HRA Requester	HRA Requester	Not Auto-Assigned	No	Internal, External (excl. An...	Active 3/25/2021
	HRA Engineer	HRA Enigneer	Not Auto-Assigned	No	Internal, External (excl. An...	Active 3/25/2021
	Administrator	Administrator	Not Auto-Assigned	No	Internal, External (excl. An...	Active 3/25/2021

Page 1 of 1 10 items per page 1 - 6 of 6 items

HRA Demonstration



HRA Demonstration

Summary

Total:48

21
Past Due

0
Due Soon

8
Submitted

6
In Progress

1
Ready for QA

3
QA In Progress

0
Ready for Bridge QA

















0
Bridge QA In Progress

30
Complete

My Tools

+ New Request

☒ Include Completed Requests

	Request ID	Created By	Created User Organization	Route Name	Asset #	New Undocume... Asset #	Des #	INDOT Project Manager	Is Survey Needed?	Re
   	3	Bracamontes, David	INDOT - Technical Services 3		CV 032-048-095.98, CV I465-049-44.50	CLV 002-064-43.62			Yes	Sma
   	264	System, HRA	System Users	Route 53		TAB114234			No	Pen
   	44	Boehm, James	INDOT - Hydraulics Engineer			I-65 CLV 28190			No	Sma
   	90	Bracamontes, David	INDOT - Technical Services 3		033-20-02765				No	Brid

HRA Demonstration

Create Hydraulics Request

Request Type

* Fields with this color background

CLV 014-066-49.461800

Bridge

Drainage Complaint

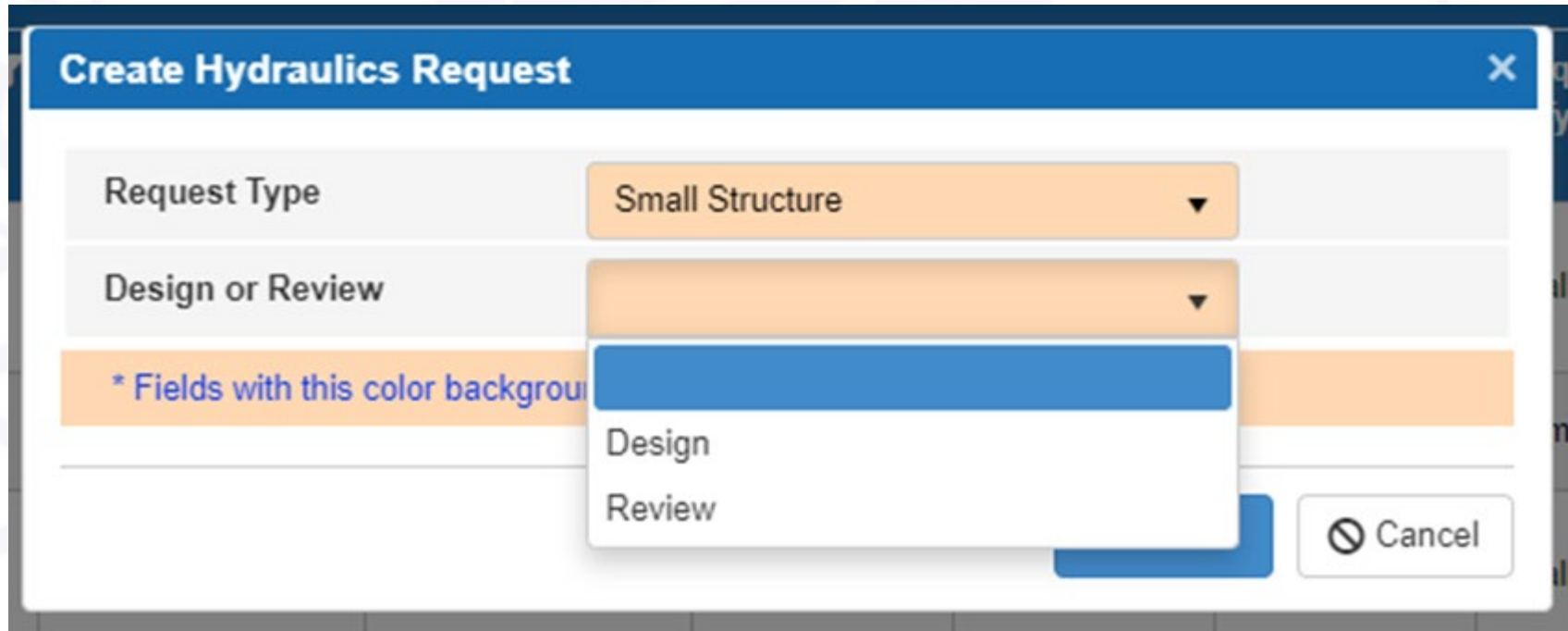
LPA

Road: Storm Sewer or Detention

Small Structure

Cancel

HRA Demonstration



Create Hydraulics Request [X]

Request Type: Small Structure ▼

Design or Review: ▼

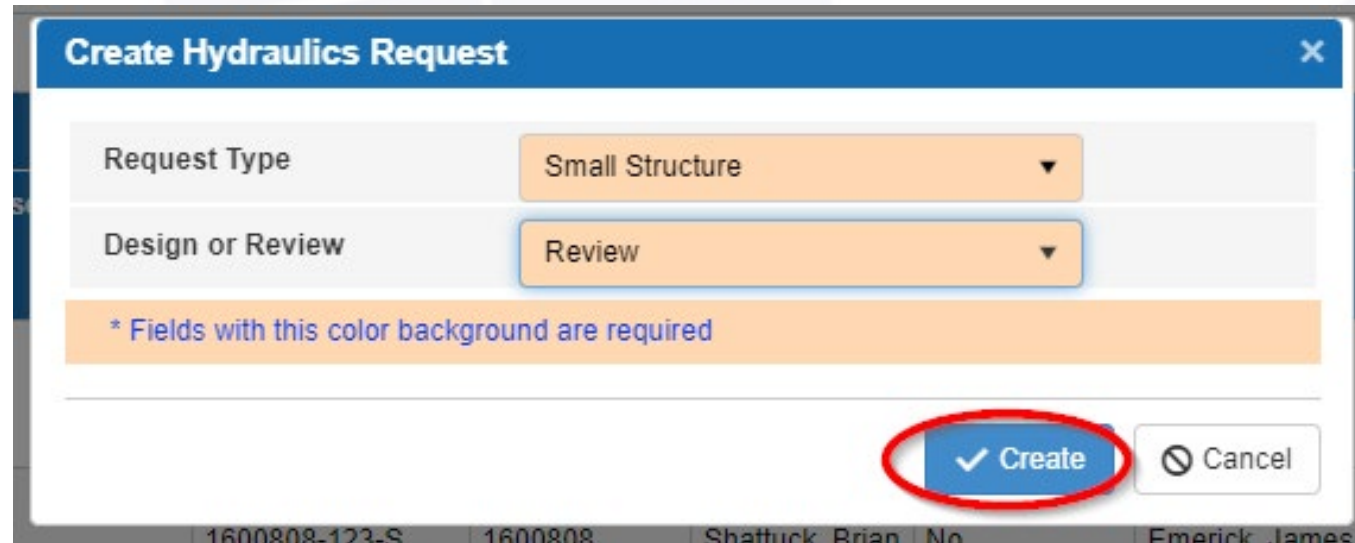
* Fields with this color background

Design

Review

Cancel

HRA Demonstration



Create Hydraulics Request [X]

Request Type: Small Structure ▼

Design or Review: Review ▼

* Fields with this color background are required

[✓] Create [⊘] Cancel

1600808-123-S | 1600808 | Shattuck, Brian | No | Emerick, James

HRA Demonstration

hradev.indot.in.gov/Hydraulics/Home/RatingRequest/1069

Saved Submitted In Progress Ready for QA QA In Progress Completed

Request Information

Request Type	Small Structure
Design Review	Review
Sub Type	<div>Rehab and replacement options</div> <div>Replacement only</div> <div>Other</div>
Standard Priority Due Date	
Due Date Shorter Or Longer Than 45 Days?	
Is Resubmittal?	

Request Determination

+ New Small Structure

HRA Demonstration

hradev.indot.in.gov/Hydraulics/Home/RatingRequest/1069

Progress: **Saved** > Submitted > In Progress > Ready for QA > QA In Progress > Completed ⓘ

Request Information

Request Type	Small Structure	CI
Design Review	Review	CI
Sub Type	Rehab and replacement options ▼	CI
Standard Priority Due Date	12/30/2021	SI
Due Date Shorter Or Longer Than 45 Days?	<input type="checkbox"/>	
Is Resubmittal?	No ▼	

Request Determination

[+ New Small Structure](#)

Small Structure List

HRA Demonstration

hradev.indot.in.gov/Hydraulics/Home/RatingRequest/1069

Saved Submitted In Progress Ready for QA QA In Progress Completed

Request Information

Request Type	Small Structure	Cre
Design Review	Review	Cre
Sub Type	Rehab and replacement options	Cre
Standard Priority Due Date	12/30/2021	Sul
Due Date Shorter Or Longer Than 45 Days?	<input checked="" type="checkbox"/>	
Alternative Due Date	12/30/2021	
Reason	My projects schedule was just moved up to this fiscal year!	
Is Resubmittal?	No	

HRA Demonstration

[hradev.indot.in.gov/Hydraulics/Home/RatingRequest/1069](#)

Saved Submitted In Progress Ready for QA QA In Progress Completed

Request Information

Request Type

Small Structure

Created By

Design Review

Review

Created User Organization

Sub Type

Rehab and replacement options

Created Date

Standard Priority Due Date

12/30/2021

Submitted Date

Due Date Shorter Or Longer Than 45 Days?

☒

Alternative Due Date

12/30/2021

Reason

My projects schedule was just moved up to this fiscal year!

Is Resubmittal?

No

Request Determination

+ New Small Structure

Small Structure List



	Asset #	New Undocume... Asset #	Des #	INDOT Proj... Man...	Route Name	District	County
--	---------	-------------------------	-------	----------------------	------------	----------	--------

Page 0 of 0 10 Items per page

Save For Later

Submit Request

Cancel Request

HRA Demonstration

Create Small Structure

Asset # or Des #

* Fields with this color background

Asset #

Des #

Create

Cancel

HRA Demonstration

Create Small Structure [X]

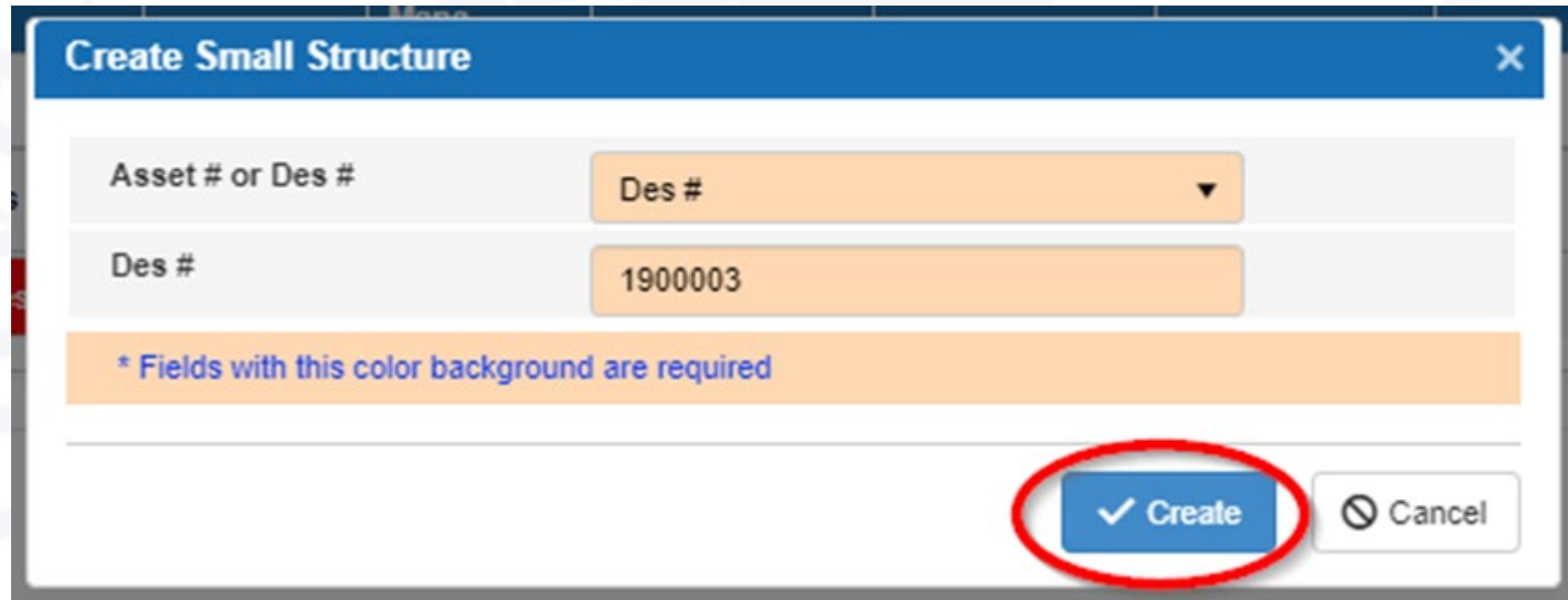
Asset # or Des #	Des #
Des #	1900

* Fields with this color background

- 1900003
- 1900004
- 1900005
- 1900006
- 1900007
- 1900008
- 1900009
- 1900010
- 1900011

[Cancel]

HRA Demonstration



Create Small Structure [X]

Asset # or Des # Des #

Des # 1900003

* Fields with this color background are required

✓ Create Cancel

HRA Demonstration

Date :06/21/2021

INDOT FULL PROJECT LISTING

DES #: 1900003

CONTRACT #: R 43595

LEAD: 1900003

ORIGIN #: 1900003

LETTING DATE: 01/19/2023

CONTRACT AWARD DATE:

FCR COMPLETE DATE:

FEDERAL PLACE CODE:

PROGRAM CLASS: Normal Project

SPECIAL FUND CATEGORY:

URBANIZED AREA: Not Applicable

ADD'L ELEMENTS:

ROUTE #: US - 52

SPONSORED BY: Indiana Department of Transportation

LOCATION: Intersection of US 52 and Holland Rd, 3.1 miles E of SR 252

MANAGED BY: Seymour District

WORK TYPE: Intersect. Improv. W/ Added Turn Lanes

FHWA OVERSIGHT/PODI: Assumed/State Administered

WORK CATEGORY: District Intersection Improvement Project

WORK ZONE IMPACT:

LPA DESIGNED CERTIFIED:

DS DESIGNER: Consultant State - On Call

ALTERNATE BID:

ROUTE TRANSFER:

BRIDGE/CULVERT INFORMATION

FROM RP: 158 + 5

TO RP: 158 + 31

TRANSFER CODE:

LON: -84 58 50.0408

LAT: 39 23 9.9753

TRANSFER TYPE:

ASSET GROUP: District Discretionary

PROGRAM YEAR: 2023



SCORE:




HRA Demonstration

Request Determination

+ New Small Structure

Small Structure List



	Asset #	New Undocume... Asset #	Des #	INDOT Proj... Man...	Sub Type	Route Name	District
  			1900003	Metcalf, Karlei		US 52	340

Page 1 of 1 10 items per page


Save For Later

Submit Request

Cancel Request

HRA Demonstration

Edit - Small Structure

Asset #	CV 031-	
	CV 031-052-196.60	required
New Undocumented Asset #	CV 031-052-193.20 L	
	CV 031-010-15.50	
NBI #	CV 031-034-160.71 L	
Des #	CV 031-071-245.55	
	CV 031-010-11.60	
Sub Type	CV 031-036-44.75	
	CV 031-071-242.40	
Route Name	CV 031-052-197.40	
District		

HRA Demonstration

Edit - Small Structure

Asset #

Note: Asset # or New Undocumented Asset# is required for document attachments.

New Undocumented Asset #

NBI #

Des #

1900003

[SPMS DES Full Project Listing](#)

Route Name

District

County

Location

Latitude

Longitude

Source Text

Reference Post

Reference Post Offset

Stream Name

INDOT Project Manager

Metcalf, Karlei

Is There Known Overtopping Or Erosion?

* Fields with this color background are required

HRA Demonstration



HRA Demonstration

hradev.indot.in.gov/Hydraulics/Home/RatingRequest/1069






Request Information

Request Type	Small Structure	Created By	Bailey, Mark
Design Review	Review	Created User Organization	INDOT - Hydraulics E
Sub Type	Rehab and replacement options	Created Date	11/15/2021 01:49:29
Standard Priority Due Date	12/30/2021	Submitted Date	
Due Date Shorter Or Longer Than 45 Days?	<input checked="" type="checkbox"/>		
Alternative Due Date	12/01/2021		
Reason	My project was moved into this fiscal year		
Is Resubmittal?	No		




Request Determination

+ New Small Structure

Small Structure List

											
	Asset #	New Undocume... Asset #	Des #	INDOT Proj... Man...	Route Name	District	County	Refe... Post	Refe... Post Offset		
											
		1900003-D-1	900003	Metcalf, Karlei	US 52	340	Franklin				

Page 1 of 1 10 items per page

 Save For Later  Submit Request  Cancel Request

HRA Demonstration








HRA Demonstration

Request Determination

[+ New Small Structure](#)

Small Structure List



	Asset #	New Undocume... Asset #	Des #	INDOT Proj... Man...	Sub Type	Route Name	Distri
  	CLV-10094						

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HRA Demonstration

Documents

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Document Name	Document Type	Description
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Page 1 of 0 10 items per page

HRA Demonstration

Upload Documents

Select Files...

Clear Files

	File Name	Document Type	Description	Upload Status
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Page 0 of 0

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items per page

No items to display

Upload Status

0%

Upload Files

Close

HRA Demonstration

Upload Documents

Select Files...

Clear Files

	File Name	Document Type	Description	Upload Status
<div>✕</div>	HydroMemo Prelim CLV-10094.pdf		HydroMemo Prelim CLV-10094	Pending
<div>✕</div>	CLV-10094.hy8		CLV-10094	Pending
<div>✕</div>	CLV-10094 report.pdf		CLV-10094 report	Pending

Page 1 of 1

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1 - 3 of 3 items

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0%

Upload Files

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HRA Demonstration

The screenshot shows the 'Document Type' dropdown menu in the 'New Project' dialog. The menu is open, displaying a list of options: 'Design Computations', 'Final Design Computations', 'Other', 'Plans', 'Preliminary Memo', 'Model', and 'Reports'. The 'Other' option is currently selected and highlighted with a blue background. The dropdown menu has a blue header bar and a white body with a light gray border.

HRA Demonstration

All design requests have no required file types.						
		Design Computations	Plans	Preliminary Memo	Model	Reports
Bridge	Scour	One of these	X	X	X	One of these
	Replacement Only	One of these	X	X	X	One of these
	Other	One of these		X		One of these
Drainage Complaint		One of these		X		One of these
LPA		One of these	X	X	X	One of these
Road: Storm Sewer or Detention	Storm Sewer	One of these	X			One of these
	Detention	One of these	X			One of these
	Other	One of these	X			One of these
Small Structure	Rehab and replacement options	One of these		X	X	One of these
	Replacement only	One of these		X	X	One of these

HRA Demonstration

Upload Documents

Select Files...

Clear Files

	File Name	Document Type	Description	Upload Status
	HydroMemo Prelim CLV-10094.pdf	Preliminary Memo	HydroMemo Prelim CLV-10094	Pending
	CLV-10094.hy8	Model	CLV-10094	Pending
	CLV-10094 report.pdf	Reports	CLV-10094 report	Pending

Page 1 of 1

10 items per page

1 - 3 of 3 items

Upload Status

0%

Upload Files

Close

HRA Demonstration

Rating Request [ID:828] | HRA - Google Chrome

hraqa.indot.in.gov/Hydraulics/Home/RatingRequest/828

Saved Submitted In Progress Ready for QA QA In Progress Completed

Request Information



Request Type	Small Structure	Created By
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HRA Demonstration



Request Determination

[+ New Small Structure](#)



Small Structure List



	Asset #	New Undocume... Asset #	Des #	INDOT Proj... Man...	Sub Type	Route Name	District	County	Refe... Post	Refe... Post Offset	Created Date
  	CV 031-010-11.60						Seymour	Clark	11	60	05/17/202





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1 - 1 of 1 items

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 **Submit Request**

 Cancel Request

Q&A / The End



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