

PROJECT ADMINISTRATION DATA SHEET

ORIGINAL REVISION NO. _____

Project No. D-48-660

DATE 1/6/82

Project Director: Dr. Clifford R. Bragdon

School/Lab Architecture

Sponsor: U. S. Army Construction Engineering Research Laboratory; C hampaign, Ill.

Type Agreement: Fixed Price Purchase Order No. DACA88-82-M-0075

Award Period: From 12/8/81 To 3/15/82 (Performance) _____ (Reports) _____

Sponsor Amount: \$9,967 Contracted through: _____

Cost Sharing: N/A GTRI/~~GNX~~

Title: Pretest of Construction Site Noise Survey Methodology

ADMINISTRATIVE DATA

OCA Contact Leamon R. Scott

1) Sponsor Technical Contact:

Dr. Paul Schomer

U.S.Army Construction Engineering

Research Laboratory

Interstate Research Park

Newman Dr., P.O. Box 4005

Champaign, Ill. 61820

2) Sponsor Admin/Contractual Matters:

R. W. Worthington

U.S. Army Construction Engineering

Research Laboratory

Interstate Research Park

Newman Dr., P.O. Box 4005

Champaign, Ill. 61820

Defense Priority Rating: DOC-2

Security Classification: N/A

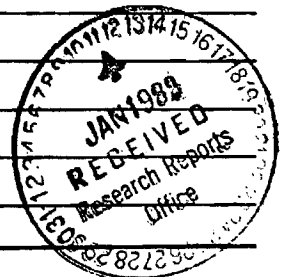
RESTRICTIONS

See Attached N/A Supplemental Information Sheet for Additional Requirements.

Travel: Foreign travel must have prior approval - Contact OCA in each case. Domestic travel requires sponsor approval where total will exceed greater of \$500 or 125% of approved proposal budget category.

Equipment: Title vests with N/A

COMMENTS:



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FORM OCA 4:781

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Computer Input
Project File
Other _____

SPONSORED PROJECT TERMINATION SHEET

Date 7/21/82

Project Title: Pretest of Construction Site Noise Survey Methodology

Project No: D-48-660

Project Director: Dr. Clifford R. Bragdon

Sponsor: U. S. Army Construction Engineering Research Laboratory; Champaign, Ill.

Effective Termination Date: 3/15/82

Clearance of Accounting Charges: 3/15/82

Grant/Contract Closeout Actions Remaining:

- Final Invoice and Closing Documents
- Final Fiscal Report
- Final Report of Inventions
- Govt. Property Inventory & Related Certificate
- Classified Material Certificate
- Other _____

Assigned to: Architecture (School/Laboratory)

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GEORGIA INSTITUTE OF TECHNOLOGY
ATLANTA, GEORGIA 30332

COLLEGE OF ARCHITECTURE
ASSISTANT DEAN FOR INSTRUCTION
(404) 894-4887

March 18, 1982

Dr. Steven D. Hottman
U.S. Army Construction Engineering
Research Laboratory
Interstate Research Park
Newman Dr., P.O. Box 4005
Champaign, IL 61820

Dear Steve:

The following is a letter report regarding the construction site noise pre-test, conducted by the College of Architecture in the Atlanta metropolitan area over a ten week period (January-March, 1982).

1. Measurement Procedures

The sites selected were generally good candidate sites, however, meeting the objectives of both physical measurement and social surveying varied in success. A more complete checklist for the observer to record intrusive events and their characteristics along with a sociographic profile of the monitoring sites would be useful. In discussion with the field team, it appears after initial training and on-site experience the first week the measurement protocol worked well.

2. Data Transmittal

There appeared to be several problems in the transmitting of field generated data. The first was training. Not all three members of the field team developed the necessary skill base. Initial problems occurred in finding an acceptable location for transmitting data, both office space and phone lines. This was resolved generally. Some problems developed in the quality of transmittal, and infrequently Georgia Tech and CERL couldn't get together by moden.

3. Equipment

There were some problems that developed with the instrumentations. One sound level meter system failed, but fortunately a backup did exist.

4. Critique


A more effective method for handling the physical data is important. Processing on site would be highly beneficial, rather than linking long distance by phone with all its inherent problems. Impulse noise could have been more vigorously handled and incorporated in the study. Due to the separation of the attitude survey from noise measurement survey it is unclear how statistically valid it was performed. Continuous integrated maintaining would correlate more accurately with human response data. One of the three field team members appeared less proficient, however, all three remained highly motivated throughout the project, despite adverse weather conditions.

It is difficult to find a perfect set of conditions for performing a study of this type and therefore when those conditions are less than ideal it is important to determine what influence that may have on the outcome.

One of the field team managers needs to be placed in charge of this phase of work, therefore providing field continuing and maximize administrative efficiency.

We have enjoyed the project, however, and would like to be involved at a later date with CERL. This association has been professionally enjoyable.

Sincerely,


Clifford R. Bragdon, Ph.D.
Assistant Dean

CRB/k1b