

**NEW ENGLAND TRANSPORTATION CONSORTIUM
QUARTERLY PROJECT PROGRESS REPORT**

A. PROJECT NUMBER AND TITLE:

State W.I.N. #: 023430.18 – Curved Integral Abutment Bridge Design Study

B. PRINCIPAL INVESTIGATOR(S) & UNIVERSITY(S):

WSP USA Inc. & University of New Hampshire

C. WEB SITE ADDRESS (If one exists):

NA

D. START DATE (Per NETC Agreement):

2/12/2020

E. END DATE (Per NETC Agreement):

1/31/2023

F. ANTICIPATED COMPLETION DATE:

1/31/2023

*If different from the END DATE in paragraph E., the reason must be given. It is the responsibility of the Principal Investigator to ensure that the project, including review of the draft report by the Project Technical Committee and the printing of the Final Report, is completed prior to the Agreement End Date. Costs incurred after the Agreement End Date cannot be reimbursed. **Requests for extensions of the Agreement End Date must contain the reasons for the request and be submitted so as to arrive in the Coordinator's office at least 90 days prior to the Agreement End Date.***

G. PROJECT OBJECTIVES:

This project's objective is to develop guidelines for the designing of Curved Integral Abutment Bridges. These guidelines should provide recommendations for span length, total bridge length, and degree of curvature and skew, with modeling recommendations for designs that are consistent with current AASHTO LRFD Bridge Design Specifications.

H. REPORT PERIOD:

Quarter 3, 2022

I. ACCOMPLISHMENTS THIS PERIOD:

Task 2:

Additional Finite Element Models were run to further define design guideline parameters

Task 3:

Minimal work completed on this task during this period. Awaiting data analysis and approval of direction from the NETC committee.

Task 4:

No work on this task during this period.

Task 5:

No work on this task during this period.

J. PROBLEMS ENCOUNTERED (If any):

None

K. TECHNOLOGY TRANSFER ACTIVITIES: *List any reports, papers, presentations published/presented during the report period or anticipated for the next quarter.*

MaineDOT has approved an amendment for extra work
WSP submitted a design memo on 10/11 which states progress to date on the additional work and future work direction of the team. Committee review comments expected by 10/19

L. STATUS BY TASK: *Show Work Task Number, description and % complete for each task including those completed, those underway, and those not started. (% completes adjusted to reflect % complete of amendment)*

0	Project Management	90%
1	Review of Existing Structures	100%
2	Finite Element Studies	85%
3	Design Guidelines	60%
4	Draft Final Report/Presentation	80%
5	Final Report / Technology Toolbox	80%

M. PERCENT COMPLETION OF TOTAL PROJECT (amendment only): 88%

N. ACTIVITIES PLANNED FOR NEXT QUARTER:

Complete data analysis to further refine design parameters
Refinement to the Design Guidelines
Submit design guidelines and draft report for review.

O. FINANCIAL STATUS:

As of: 10/12/2022

Total Project Budget: \$151,315.47 initial fee, plus an amendment of \$73,939.27, equal to \$225,255.14 total

Total Expenditures: approx. \$196,000

Note: This report should not require more than 2-3 pages & should be e-mailed to the NETC Coordinator so as to arrive no later than ten (10) working days after the end of each calendar quarter.