

NJDOT Bureau of Research
QUARTERLY PROGRESS REPORT

Project Title:	Steel Erection Out of Plumb		
RFP NUMBER: 7830815	NJDOT RESEARCH PROJECT MANAGER: Giri Venkiteela		
TASK ORDER NUMBER: 23	PRINCIPAL INVESTIGATOR: Hugh Louch		
Project Starting Date: 7/26/2013 Project Ending Date: 3/31/2014	Period Starting Date: 1/01/2014 Period Ending Date: 3/31/2014		

Task	% of Total Project Budget	Total Budget	% of Task This Quarter	Cost This Quarter	% of Task to Date	Total Cost to Date
1. Kick-off meeting	5.6%	\$4,220	0%	\$0	100%	\$4,220
2. Literature Review & Subject Matter Expert (SME) Input	37.0%	\$27,780	5%	\$1,389	100%	\$27,780
3. Evaluation Findings and Recommendations	47.8%	\$35,860	23%	\$8,275	98%	\$35,143
4. Final Report	9.5%	\$7,150	50%	\$3,575	50%	\$3,575
TOTAL	100%	\$ 75,010	18%	\$13,239	94%	\$70,718

Project Objectives:

The purpose of this task will be to develop recommendations for construction engineering guidance based on a focused review of relevant DOT/University research papers, reports, presentations, available DOT Design and Construction guidelines, AASHTO LRFD Specifications, National Guidelines for Steel Girder Bridge Analysis and Design for Constructability, and NCHRP/TRB reports, input from subject matter experts related to constructability and steel erection which would include GPI senior construction engineers, fabricators, erectors and contractors, and review of recent GPI bridge project design plans and submitted shop and erection drawings which involved the design and construction of heavily skewed and/or curved girder bridges.

The final deliverable will be a report which will summarize the literature review, subject matter expert input, methods used and guidance provided on similar bridge construction projects, and recommendations for specific guidelines for NJDOT review and implementation.

Project Abstract:

There is currently no specific or consistent guidance on how designers and contractors are to address out-of-plumb girders associated with curved and skewed steel girder bridges as part of design and during construction.

1. Progress this Quarter by Task

Task 2: Literature Review & Subject Matter Expert (SME) Input

- Finalized literature review

Task 3: Evaluation, Findings and Recommendations

- Reviewed recommendations with NJDOT staff
- Refined recommendations

Task 4: Final Report

- Developed draft final report

2. Proposed activities for next quarter by task

Task 1: Kick Off Meeting

- Work completed. No further work expected.

Task 2: Literature Review & Subject Matter Expert (SME) Input

- Work completed. No further work expected.

Task 3: Evaluation, Findings and Recommendations

- Finalize recommendations pending any final input from NJDOT staff

Task 4: Final Report

- Update final report
- Draft technical brief
- Respond to NJDOT comments and finalize

3. List of deliverables provided in this quarter by task (product date):

- Revised findings and recommendations

4. Progress on Implementation and Training Activities:

- No work on implementation or training in this period.

5. Problems/Proposed Solutions:

- No problems to report during this period.

Total Project Budget	\$75,010.00
Contract Amount:	\$75,010.00
Total Project Expenditure to date	\$70,718.00
% of Total Project Budget Expended	94%