Research Project Quarterly Progress Report

Date: 1/31/2017 **Project Number:** TPF-5(193) Suppl #115

Project Title: Minnesota DOT Evaluation of MnDOT's Noise Wall System Under MASH TL-3

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Project Start Date: 4/6/2017 **Project Completion Date:** 3/31/2018

Report Period: **Due Date:**

- ☐ Quarter 1 (July 1 – September 30) ---------- October 31
- ☒ Quarter 2 (October 1 – December 31)---------- January 31
- ☐ Quarter 3 (January 1 – March 31) ---------- April 30
- ☐ Quarter 4 (April 1 – June 30)---------- July 31

Project Schedule Status:

- ☒ **On Schedule**
- ☐ **On Approved Revised Schedule**
- ☐ **Ahead of Schedule**
- ☐ **Behind Schedule**

Progress:

Task	Total Budget	% work Completed This Quarter	Expenses This Quarter	Total % of Task Completed	Remaining Budget
1. Project Planning and Correspondence	$14,635.00	54%	$8,000.00	94%	$935.00
2. Phase I Full-Scale Testing	$185,692.00	14%	$25,756.00	17%	$159,877.00
3. Phase II Full-Scale Testing	$79,788.00	2%	$1,000.00	2%	$78,788.00
4. Reporting and FHWA letter	$25,000.00	20%	$5,000.00	22%	$19,269.00
5.					
6.					
7.					
8.					
9.					

Progress and Accomplishments this Quarter:

(Provide an informative summary of tasks/activities that occurred this quarter includes meetings, work plan status, significant progress, etc.)

Materials for the three crash tests were obtained, and construction began on the first system. The sponsor provided details on several variations of the noisewall system that may occur during field installations including using longer rail elements, utilizing hex-head bolts with counterboring in leiu of dome-head bolts, and installation of the noisewall planks on the front side of the posts. Draft test plans were created for the third full-scale crash tests which utilizes noisewall planks on the front side of the posts and hex head bolts. Writing continued on the draft report.

Circumstances Affecting Project, Scope, or Budget:

(Please describe any challenges encountered or anticipated that might affect the completion of the project within the time, scope and fiscal constraints, along with recommended solution to those problems.)

The projected timeline included in the proposal including the project starting in January 2017 and extending through March 2018 (5 quarters total). The contract was not approved until April 6, 2017. Thus, the project started over a quarter behind. The full-scale crash tests are targeted to be completed in February 2018. While the research team strived to get the project status closer to the original projected timeline, the research team will ask for a short project extension to allow for the completion of the report and adequate time for sponsor review. *Note, the expenses from 1st quarter (July 1- September 30, 2017) were incorrect and were accounted for in this progress report.

Anticipated Work Next Quarter:

Test construction and testing will be completed for all full-scale crash tests. Writing will continue on the report

Total Percentage of Project Completion:

15%