

RP 270 – Development of an Inventory and Inspection Database Framework for Asset Management of MSE Walls

- Project Description:

ITD is focused on establishing sound practices for asset management. The department has tools in place for pavement and bridge management, and has a maintenance management system that is used for tracking and maintaining of a variety of assets. One class of assets which has not been addressed in a systematic and statewide way to date is mechanically stabilized earth (MSE) walls. This project will review best practices for asset management of MSE walls in other states and will provide recommendations for developing an automated inventory of MSE walls and an inspection protocol for these assets.
- Project Objective:

The main objectives of the proposed research are to:

 - Provide recommendations to guide the department in establishing an automated inventory of MSE walls. This will include identifying the data fields for the MSE wall inventory and inspection information to be collected and the most appropriate system for tracking the data.
 - Recommend an inspection protocol based on state DOT best practices for assessing the condition of MSE walls managed by ITO. This would include specifying the inspection methods, rating criteria, inspection frequency, and the ITO personnel responsible for performing the inspections.
 - Conduct a field assessment of the recommended inventory and inspection protocols by collecting required data and conducting visual inspection of a few selected MSE walls, and use the results to refine inventory and inspection recommendations.
- Estimated Completion Date: February 1, 2019
- Budget: \$60,000
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