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| **Roadside Safety Pooled Fund Program** **Research Problem Statement** | State:  MN-110 |
| Title:  MASH Tested Post-Installed Barrier System | |
| Problem Statement:  FHWA requires that for bridge repair projects where barrier replacement is required, the new barrier must meet current roadway safety standards. Also, bridge projects that are built using staged construction may require a barrier system to be post-installed. No crash-tested post-installed barrier system is currently available. In the past, agencies have provided post-installed options as modifications to cast-in-place barrier systems; however, these systems do not provide comparable barrier strength due to the reduced strength of post-installed anchorage systems.  The development of a MASH tested, post-installed, single slope barrier option would provide an acceptable option for bridge repairs that require removal of the existing barrier or for staged construction where post-installed barriers would be required | |
| Objectives of the Study:  Develop a MASH TL-4 compliant post-installed barrier system with shallow adhesive anchorages and similar features to the TxDOT Type SSTR barrier that could be used for bridge repair projects and staged construction projects. | |
| Expected Benefits:  A MASH TL-4 post-installed barrier option would provide a crash-worthy option that would reduce the need for rigorous design work for bridge rehabilitation and staged construction. | |
| Description of the Proposed Feature to be Tested: *(Be as detailed as possible. Include drawings and/or plans, if available.)*  Below is the basic concept of a post-installed barrier system attached with adhesive anchors. The section would require crash testing using a simulated deck overhang and material properties similar to those in most construction project.  C:\Users\blac1joe\Desktop\Single Slope Barrier Check.000 | |
| Estimated Cost *(of the feature per linear foot installed):* | Total Estimated Cost of Crash Test: |
| Contact Person: | Telephone: |