- Status: Completed
- Research Need
 - Sign support system meeting MASH TL-3
 - Consider range of system configurations
- Objectives
 - Evaluate sign support system according to MASH TL-3
- Workplan
 - Literature review and engineering analysis
 - Crash testing
 - Report and recommendations







3 lb/ft U-Channel, 7-ft mounting height,
24"x30" aluminum sign panel









- MASH Test 3-62 (90°) passed
- MASH Test 3-62 (0°) failed

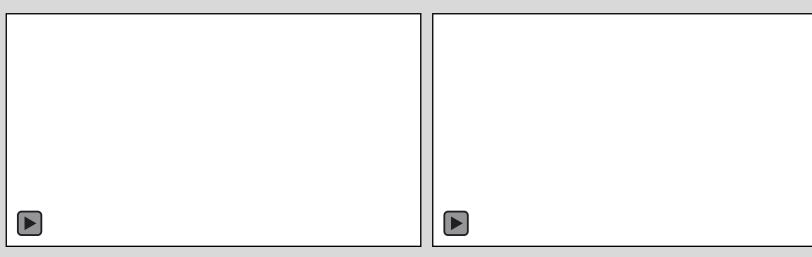


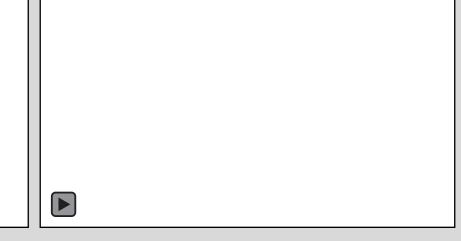


Windshield deformation = 3.75 inches Roof deformation = 4.875 inches









8-ft mounting height

Pass

Added U-Channel post

Fail – roof deformation

44 mi/h impact speed (TL-2)

Fail – windshield penetration





Report posted on website





- Status: Ongoing
- Research Need
 - MASH TL-3 compliant transition for median guide rail to median f-shape concrete barrier
- Objectives
 - Develop guidelines for MASH TL-3 transition for median guide rail to median f-shape concrete barrier
 - Evaluate range of barrier heights and other barrier shapes
- Workplan
 - Literature review
 - Computer simulations
 - MASH Test 3-21
 - Report



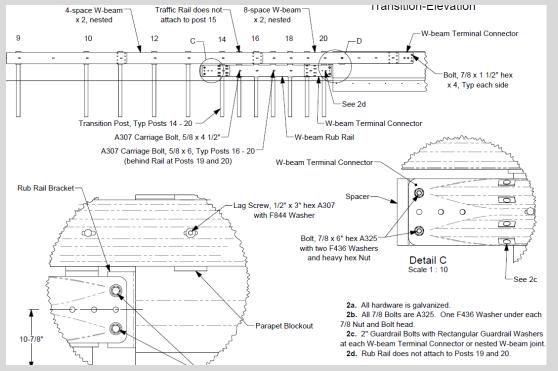






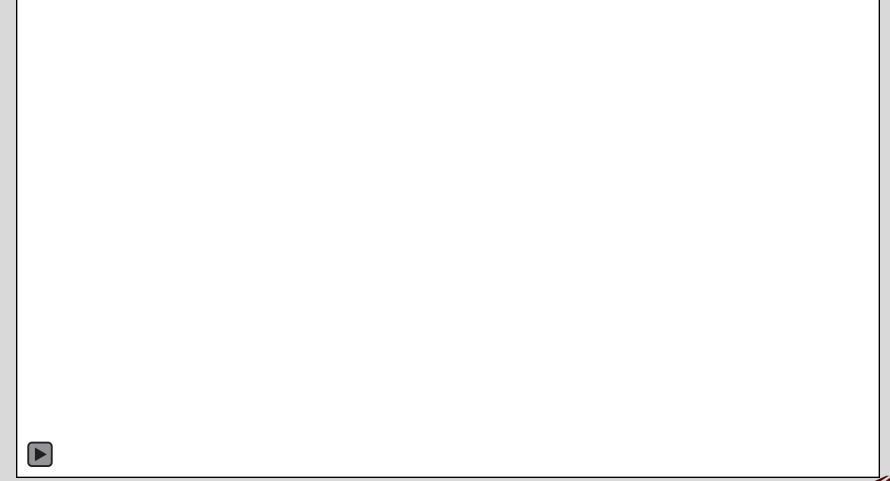
- Transition developed using simulation
 - Identified critical height (32") and barrier (F-Shape)
- Test installation constructed













MASH Test 3-21 performed

Occupant risk values acceptable

Pending occupant compartment measurements

Final Report Pending





Evaluation of Open Joints in Concrete Bridge Rail Systems (T4541-FG)

- Status: Ongoing
- Research Need
 - Determine when a joint can be left open
 - Determine when a cover plate is needed
 - Develop details of cover plate
- Objectives
 - Develop guidance for concrete bridge rail systems with open joints larger than 2 inches
- Workplan
 - Literature review and survey
 - Computer simulation
 - Engineering analysis
 - Report
- Work Completed
 - Survey is in progress









MASH TL-3 Evaluation of Sign Posts with Flashing Beacon Equipment (T1969-AF)

- Status: Ongoing
- Research Need
 - Flashing equipment is regularly installed to standard roadside sign installations
 - Equipment ranges in type, weight, attachment, and location
- Objectives
 - Evaluate crashworthiness of standard sign support system with flashing equipment
- Workplan
 - Literature review and survey
 - Engineering analysis
 - Crash testing
 - Report
- Work Completed
 - Literature review conducted and survey is in progress





