MwRSF, *Caltrans*, & **TxDOT** Project List

Project	Test Plans
Bridge Rail – Concrete Only	
Portable Concrete Barrier – Steel Cover Plate for Large Open Joints – Phase II	(3-11 C)
Evaluation of Anchored Temporary Concrete Barrier to MASH 2016 TL-3	(3-11 C)
Modification and MASH 2016 TL-3 Evaluation of the Asphalt Pin Tie-Down for F-Shape PCB	(3-11 P)
Evaluation of New Jersey TCB Performance under MASH TL-3 (Free-Standing, Anchored, and Stiffened)	(3-11 with 9 (C))
MASH TL-3 Evaluation of the Ohio Single-Slope Concrete Barrier (Unreinforced) Evaluation of Permanent Concrete Barriers to MASH 2016	(3-11 C)
Type 60 Median Barrier	*(3-10)*
Type 836 Single Slope Bridge Rail & *Type 842 Single Slope Bridge Rail*	*(No testing planned for either, evaluated on other testing/load analysis, TL-4)*
Low Profile Concrete Barrier (20in, Portable)	**TL-2**

Concrete Beam and Post Bridge Rail

Concrete Barrier Type 85 (36") (Resting in Progress) *Full TL-4 Testing Matrix*

C66 Bridge Rail **TL-3**

Metal Only Bridge Rail – Side Mounted

ST-70SM TL-4 Side Mount Barrier *(4-10 4-11 4-12)*

Concrete & Metal Bridge Rail – Traffic Only with Curb

Evaluation of MGS with Curb and Omitted Post – Continuation (3-11 P)

Evaluation of the MGS with Curb (3-10 3-11 C)

ST-75 Bridge Rail Mash *(TL-4 (Expected 2019))*

Concrete & Metal Bridge Rail – Traffic Only with Parapet

Standardized Concrete Parapet for Attachment of Thrie Beam AGTs (Continuation/Retest, 3-21 C)

Development of an Optimized MASH TL-4 Bridge Rail (Solid Parapet) (4-12 C)

Concrete & Metal Bridge Rail – Traffic and Pedestrian With Sidewalk

Combination Bridge Separation w/Bicycle Railing (2-11 P)

Concrete & Metal Bridge Rail – Traffic and Pedestrian Without Sidewalk

TL-2 Bridge Rail for Low-Volume Roads (2-11 C)

C1W Bridge Rail (Four Tubular Steel Rails on Concrete Curb) **TL-4**

Additional Bridge Rail Projects of Interest

Development of a Barrier Design to Accommodate Vehicles, Pedestrians, and Cyclists (NCHRP prioritized but not funded, FY2019)

Determination of Zone of Intrusion Envelopes under MASH Impact Conditions for Rigid Barrier (NCHRP 22-34)

Iowa DOT Combination Bridge Separation Barrier with Bicycle Railing (2-11 P)

Transitions

34-in Tall Thrie-Beam Approach Guardrail Transition (3-20 3-21 C)
(Downstream Stiffness Transition)

MASH TL-4 Steel Tube Bridge Rail and Guardrail Transition (4-10 4-11 4-12, 3-20 3-21 P)
(also in reverse direction)

NYDOT Box-Beam to W-Beam Guide Rail Transition (3-21 C)

Development of a Standardized Concrete Buttress for MGS Thrie Beam Transitions (31", 34") (3-20, 3-21, Pass)

F-Shape to Low Profile Barrier Transition **TL-2**

TL-3 Thrie Beam Transition Downstream end Without End Shoe Block **TL-3**

Breakaway, Signs, Work Zones

Crash Testing MoDOT Devices (X-foot signs) (3-70, 3-71, 3-72 P)
Crash Testing MoDOT Two-post signs (3-60, 3-61, 3-62 P)

MASH Testing of Single-Post, U-Channel Sign Supports (3-60 3-61 3-62 P)

Testing of Non-Proprietary WZ Devices to MASH 2016 Criteria (3-71 C)

NCHRP 03-119 (not yet approved form panel, simulations, possibly testing:)

(1) 7' wood post signs (single, dual, and triple posts with various post dimensions)
(2) 7' PSST post signs (single and dual posts with various post dimensions)
(3) 7' U-channel post signs (single and duals posts with varying weights, yield strengths, and splices)
(4) Luminaire poles with TB1-17 transformer base (varying pole sizes)
(5) Generic Type III barricade
(6) Potentially some work zone signs – TBD

Single Post Wood Skid (soil embedded perforated square steel tube support for temporary small signs) **TL-3**

Single Embedded Perforated Square Metal Tube **TL-3**

Burn Ban Sign Attached to Sign Support Below Primary Sign (Slip Base & Wedge Anchor)	**TL-3**
Mailbox Type 6 Foundation (single) Construction Barrel	**TL-3**
Mailbox Type 7 Foundation (double)-Thin Walled White Post	**TL-3**
Mailbox Type 7 Foundation (multi)-50" Hanger	**TL-3**

Other Categories (Bullnose, Noise Wall, Terminals etc.)

MASH Testing of the Thrie Beam Bullnose System (Phase II)	(3-32 3-34 3-35 C; 3-30 3-31 3-33 3-37b under revised design)
Test Level 3 Dynamic Testing and Evaluation of MnDOT's Noise Wall System Under AASHTO MASH 2016	(3-10 3-11 3-11 C)
MASH 2016 Safety Hardware Evaluation – Phase I System C3 – Cable Guide Rail Terminal	(3-30 3-31 3-32 3-33 3-34 3-35 3-37b P)
Redesign of the High tension Cable Median Barrier (Continuation)	(3-11 narrow spacing 3-17 wide spacing (P))
Steel Post Version of Downstream Anchorage System Phase II	(Modified 3-37a (C) Modified 3-37b (P))
NYSDOT – MASH 2016 Safety Hardware Evaluation – Phase I System B2a – Type I Flared Box Beam Terminal	(3-30 3-31 3-33 (Modified) P 3-32 3-34 3-35 P)

Guardrails

Development of MASH TL-3 Deflection Reduction Guidance for 31-inch Guardrail (Prioritized but not funded, FY2019)	
Guardrail Performance at Various Offsets from Curb for MASH TL-3 Applications (Prioritized but not funded, FY2019)	
Evaluation of MGS with Curb and Omitted Post Continuation	(3-10 (Nested Rail) (C) 3-11 (P))
Evaluation of a Culvert Mounted, Strong MGS to MASH 2016 TL-3	(3-10 3-11 C)
Development of Top-Mounted Socket for Weak-Post Guardrail on Culverts	(Dynamic Component Tests (C))
NYSDOT – MASH 2016 Hardware Evaluation – Phase I System B2a – Type I Flared Box Beam Terminal	Three Tests TBD based on System B2a (See Previous Section)