	PROGRAM of Projects						
	Project Title	Task Order	Detailed Description of Work	Project Budget	DOT Rep.	Planned Finish (Date)	
	Administrative Support	T4541-DA	Continuation of "Implementation Agreement" above, which ends 4/30/2018. Secure monetary provision for the support of the Roadside Safety Research Program Pooled Fund Study activities. Activities include preparation of meeting minutes, development of pooled fund marketing material, website upgrade and maintenance, support for FHWA eligibility letters requests, Pooled Fund Newsletter, yearly group meeting travel for TTI representatives, and other small tasks in support of the pooled fund program. Proposal approved by WSDOT; awaiting executed task order.	\$20,638	L. Saechao (WA)	4/30/2019	
Prior Work	MASH TL3 T-Intersection (Short Radius) System Design Variations	T4541-CD	Extend the TxDOT innovative design to incorporate conditions commonly found in the pooled fund state sites. Some of these conditions would include a modification of private driveway section to incorporate a secondary roadway section with a terminal. Another example will be the modification of the design to implement skewed intersection profiles. Others will be studied once the project scope is initiated with the pooled fund states' DOTs. PI requested and tech rep approved 3 month NCTE.	\$76,000	J. Petterson (WA)	8/31/2018	
in Florida)	MASH Implementation Support	T4541-CO	Funding for coordination with members, compiling and updating of "Scorecard 3". Work includes providing links to system drawings and identifying and removing "redundant" systems. Alll columns of the scorecard must be filled out and ready to use prior to the next annual meeting.	\$81,718	J. Petterson (WA)	8/31/2018	
2017 Starts (voted on at Fall 2016 meeting in	MASH Full-Scale Crash Testing of a 31" Buried-in- Backslope Terminal Compatible with an MGS Guardrail System	T4541-CQ	Perform full-scale crash test and evaluate the performance of a 31" Buried-In-Backslope (BIB) terminal design compatible with an MGS guardrail system. If the results of the full-scale crash test will be deemed succesfull per MASH 2016 standards, this study is supposed to culminate with a request for FHWA eligibility letter. PI requested and tech rep approved 3 month NCTE.	\$110,411	J. Jeffers (AK)	9/30/2018	
	Placement of Guardrail on Slopes Phase IV: MASH TL-3 Testing of Guardrail	T4541-CR	Develop a MASH TL-3 compliant guardrail system meeting tests (3-11 and 3-10) for installing standard strong-post W-beam guardrail [Modified G4(1S)] with the face of the rail aligned with the break point of a 1H:1V slope.	\$111,087	D. Hardy/J. Hall (WV)	10/14/2018	
	31" W-Beam Guardrail with Steel and Wood Posts in Concrete Mow Strip	T4541-CS	Test the 31-inch tall W-beam guardrail system in concrete mow strip. Both steel and wood post options need to be tested. The tests are to be performed using the MASH Test Level 3 criteria. PI requested and tech rep approved 3 month NCTE and additional crash test.	\$198,087	M. Elle (MN)	9/30/2018	

	Project Title	Task Order	Detailed Description of Work	Project Budget	DOT Rep.	Planned Finish (Date)
	2018 MASH Coordination Effort	T4541-CU	Assist the DOTs with coordination of information and testing activities related to MASH implementation program, and produce tools to allow prioritization of hardware testing based on DOTs preferences.	\$80,392	J. Petterson (WA)	12/31/2018
	Testing and Evaluation of the MGS System with Maximum Flare at MASH Test	T4541-CV	Investigate the critical flare for an MGS system under MASH 2016 TL-3 testing and evaluation criteria. Engineering analysis and computer simulation will aid in the selection of the critical flare to be considered for testing. The structural capacity and the occupant risk factors of such proposed guardrail system will be evaluated with respect to MASH TL-3 criteria through full-scale crash testing.	\$154,945	J. Jeffers (AK)	2/28/2019
	Testing of Midwest Guardrail Systems with Reduced Post Spacing for MASH Compliance	T4541-CW	Test MGS systems with reduced post spacing for MASH compliance.	\$180,113	J. Hall (WV)	4/30/2019
g in Texas)	MASH Testing of Keyed-In Single Slope Barrier (2018)	T4541-CX	Use an existing installation of the 42-inch tall, keyed-in single slope barrier and determine the crashworthiness performance of the barrier with a shorter segment length. The desired segment length is 40 ft or less. The performance of the barrier is to be evaluated by performing MASH Test 4-12 with a single unit truck.	\$41,709	K. Brauner (LA)	10/31/2018
8 Starts 2017 meeting	MASH Testing of Pinned Temporary Concrete Barrier on Concrete Pavement	T4541-CY	Use engineering analysis and determine a suitable offset of the pinned barrier system from the edge of an unreinforced concrete pavement that would lead to successful MASH test level 3 performance. The barrier is then to be tested using MASH Test 3-11 criteria with a pickup truck vehicle.	\$50,754	K. Brauner (LA)	10/31/2018
201 at Fall	Thrie/W-Beam/Tubular Barrier Gap Rail for MASH TL-3	T4541-CZ	Design a tubular barrier gap rail system for use on a 36-in. high single slope barrier. Thrie-beam, w-beam and tubular rail elements will be considered for the barrier rail design. The maximum open gap used for the design will be 8-ft. The new design will be tested to MASH TL-3.	\$120,821	M. Elle (MN)	4/30/2019
(voted on	Engineering Support Services and Recommendations for Roadside Safety Issues/Problems for Member States	T4541-DB	Provide engineering support services and recommendations for those roadside safety barrier hardware and barrier systems that are prioritized and requested by pooled fund member states. The TTI researchers will assess the performance of the hardware and barrier systems selected and provide professional evaluation and recommendations, as necessary to meet the MASH performance criteria. The TTI researchers will gather information pertaining to the roadside safety barriers from the pooled fund member states, research facilities, and other sources. The TTI researchers will evaluate each roadside feature/safety barrier based on current details of the barrier and/or similar barriers, previous data and information gathered from past research studies of the barrier, and assessment methodologies.	\$61,036	J. Danila (MA)	8/31/2019
	Accommodating Inlets with Transitions (TL-3)	TBD	Just prioritized after re-balloting when above project was canceled. Proposal being developed.		D. Sheppard (FL)	

	Project Title	Task Order	Detailed Description of Work	Project Budget	DOT Rep.	Planned Finish (Date)
	Impact Performance Evaluation of Modified Minnesota		Test and evaluate a modified swing-away mailbox support in accordance with MASH			
For Awareness Only STATE - SPONSORED THROUGH POOLED FUND	Swing-Away Mailbox Support to MASH	T4541-CT	criteria.			9/30/2018
	Analysis and Testing of Florida Department of Transportation Barrier Systems for MASH Compliance	TBD	Aid FDOT in bringing their standard barrier details to MASH compliance by testing their Special Baseplate Posts, Combination Traffic-Pedestrian-Bicycle Bridge Railing, and Guardrail Rub Rail. Proposal submitted to WSDOT; awaiting task order.		D. Sheppard (FL)	8/31/2019
	MASH Full-Scale Crash Testing of the Massachusetts S3- MTL4 Curb Mounted Railing	TBD	Perform the following full scale crash tests and to evaluate the performance of the Massachusetts S3-MTL4 Bridge Railing: 4-10, 4-11, 4-12. Proposal revised per tech rep request. Awaiting tech rep approval.		A. Bardow (MS)	
	MASH Full-Scale Crash Testing of the Massachusetts S3- MTL4 Back of Sidewalk Mounted Railing	TBD	Perform the following full scale crash tests and to evaluate the performance of the Massachusetts S3-MTL4 Bridge Railing: 4-10, 4-11, 4-12. Proposal revised per tech rep request. Awaiting tech rep approval.		A. Bardow (MS)	
	MASH Implementation Technical Support for WSDOT	T4541-DC	Provide engineering support services and recommendations regarding MASH compliance for WSDOT. The TTI researchers will assess the performance of the hardware and barrier systems selected and provide professional evaluation and recommendations, as necessary to meet the MASH performance criteria.		J. Petterson (WA)	6/30/2019
	Evaluation of W-Beam Guardrail Terminal Post in Sleeve (Alaska)	T4541-DD	Evaluate the behavior of W-beam guardrail steel post installed in the buried steel sleeve and compare it to the steel post installed directly in the soil. The TTI research team will perform this evaluation and comparison using surrogate impact bogic testing and limited MASH full-scale vehicle impact testing. On hold per WsDOT.		J. Jeffers (AK)	4/30/2019
	MASH Full-Scale Crash Testing of the Transition from the MGS Weak Post System to the Strong Post MGS System	TBD			D. Kilpatrick (CT)	
	MASH Full-Scale Crash Testing and Evaluation of the Merritt Parkway Guiderail	TBD			D. Kilpatrick (CT)	