

**MANUAL FOR ASSESSING SAFETY HARDWARE (MASH)
Provisionally Approved Products**

ANY MODIFICATION OF MATERIAL OR CONFIGURATION OF ANY VDOT APPROVED PRODUCT OR CHANGE IN THE MANUFACTURER'S NAME AND ADDRESS MUST BE CONVEYED TO VDOT IMMEDIATELY. FAILURE TO DO SO CAN RESULT IN REMOVAL FROM THE APPROVED LIST. VDOT RESERVES THE RIGHT TO AND AT ANY TIME REMOVE A PRODUCT FROM THE APPROVED LIST AFTER ANY DISCLOSED CHANGES ARE REVIEWED.

Changes are shaded.

TERMINALS

ROAD SYSTEMS, INC.	TL-3 MASH SEQUENTIAL KINKING TERMINAL (MSKT) 50'-0", No Flare, 8" or 12" Blockouts as provided by Manufacturer.	VDOT ST'D. GR-MGS2
ROAD SYSTEMS, INC.	TL-2 < 40 MPH, MASH SEQUENTIAL KINKING TERMINAL (MSKT) 25'-0", No Flare, 8" or 12" Blockouts as provided by Manufacturer.	WHEN SPECIFIED IN THE PLANS OR BY THE ENGINEER ON ROADWAYS WITH DESIGN/POSTED SPEEDS OF LESS THAN 40 MPH. INSTALLED IN ACCORDANCE WITH VDOT ST'D. GR-MGS2

BLOCKOUTS

MONDO POLYMER TECHNOLOGIES	12" DEEP COMPOSITE	FOR USE WITH VDOT ST'D. GR-MGS1
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**IMPACT ATTENUATOR
(MASH 2016)**

<u>TYPE 1 (RE-DIRECTIVE LOW-MAINTENANCE)</u>	
WORK AREA PROTECTION CORP.	TL-3 SCI - 100 GM
TRINITY HIGHWAY PRODUCTS, LLC	TL-3 QUADGUARD ELITE M10 (24" WIDE)
<u>TYPE 1 (RE-DIRECTIVE)</u>	
WORK AREA PROTECTION CORP.	TL-3 SCI - 100 GM
	TL-2 SCI - 70 GM
TRINITY HIGHWAY PRODUCTS, LLC	TL-3 QUADGUARD M10 (24" WIDE)
	TL-2 QUADGUARD M10 (24" WIDE)
LINDSAY TRANSPORTATION SOLUTIONS	TL-3/TL-2 TAU-M

CRASHWORTHY LONGITUDINAL CONCRETE BARRIERS

ONLY ONE TYPE OF TEMPORARY BARRIER SYSTEM IS PERMITTED IN A RUN. MIXING TEMPORARY BARRIERS WITH DIFFERENT CRASH TEST APPROVALS, LENGTHS, OR CONNECTION TYPES SHALL NOT BE USED IN THE SAME RUN OF BARRIER. CONNECTION TYPES SHALL REMAIN UNIFORM THROUGHOUT THE INSTALLATION. TRANSITION SECTIONS TO CONNECT DIFFERENT BARRIER CONNECTIONS ARE PROHIBITED.

<p align="center">SMITH-MIDLAND</p>	<p>TL-3 MASH TEMPORARY CONCRETE MEDIAN BARRIER F-SHAPE WITH 18" TALL J-J HOOK CONNECTION</p> <p>12'-0" & 12'-6" LONG FOR USE AS MB-11A</p> <p>BRIDGE DECK (BOLT-DOWN) APPLICATION SHALL BE USED WITH APPROVAL BY THE DISTRICT STRUCTURE AND BRIDGE ENGINEER.</p> <p>WHEN USED AS AN ALTERNATIVE TO ST'D. 502.14 (BRIDGE DECK APPLICATIONS) 2 BOLTS (1" DIAMETER X 10" LONG) SHALL BE INSTALLED IN SLEEVES WITH HILTI ADHESIVE ON THE TRAFFIC SIDE PER THE MANUFACTURER'S RECOMMENDATIONS</p> <p>WHEN USED AS AN ALTERNATIVE TO ST'D. 502.15 (ROADWAY APPLICATIONS) 3 PINS (1-1/2" DIAMETER X 48" LONG) ON THE TRAFFIC SIDE PER THE MANUFACTURER'S RECOMMENDATIONS.</p>
<p align="center">SMITH-MIDLAND</p>	<p>TL-3 MASH TEMPORARY CONCRETE MEDIAN BARRIER F-SHAPE WITH 18" TALL J-J HOOK CONNECTION</p> <p>Free Standing 12'-0" Long</p> <p>Free Standing 20'-0" Long</p>

<p align="center">SMITH-MIDLAND</p>	<p>TL-3 MASH TEMPORARY CONCRETE MEDIAN BARRIER F-SHAPE WITH 18" TALL J-J HOOK CONNECTION</p> <p>20'-0" LONG FOR USE AS MB-11A</p> <p>WHEN USED AS AN ALTERNATIVE TO ST'D. 502.15 (ROADWAY APPLICATIONS) 4 PINS (1-1/2" DIAMETER X 48" LONG) ON THE TRAFFIC SIDE PER THE MANUFACTURER'S RECOMMENDATIONS.</p> <p>NOT FOR USE ON BRIDGE DECKS.</p>
<p align="center">ROCKINGHAM PRECAST</p>	<p>TL-3 MASH T-LOK™ F-Shape Portable Concrete Barrier</p> <p>Free Standing 12'-0" Long</p>
<p align="center">ROCKINGHAM PRECAST</p>	<p>TL-3 MASH T-LOK™ 11A Temporary Concrete Barrier</p> <p>12'-0" LONG FOR USE AS MB-11A</p> <p>FOR ROADWAY SECTIONS ONLY</p> <p>WHEN USED AS AN ALTERNATIVE TO ST'D. 502.15 (ROADWAY APPLICATIONS) 8 PINS (1" DIAMETER X 24" LONG) 4 PINS ON EACH SIDE OF THE BARRIER DRIVEN INTO FULL DEPTH PAVEMENT PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.</p>

TRUCK MOUNTED ATTENUATORS

<p align="center">VERDEGRO BLADE</p>	<p align="center">TL-3 MASH TMA</p>
<p align="center">TRAFFIX DEVICES, INC</p>	<p align="center">TL-3 MASH SCORPION II TMA</p>
<p align="center">TRINITY HIGHWAYS</p>	<p align="center">TL-3 SS180 M TMA (MASH TL-3)</p>

TRAILER MOUNTED ATTENUATORS

TRAFFIX DEVICES, INC.	TL-3 MASH SCORPION II TMA
TRINITY HIGHWAYS	SMT TMA trailer (MASH TL-3)
GREGORY INDUSTRIES	TTMA-200 (MASH TL-3)

TYPE 3 BARRICADES

PEXCO, INC.	TYPE III BARRICADE WITH X-TUBE UPRIGHT AND FOOTING
PEXCO, INC.	TYPE III BARRICADE WITH PSST UPRIGHT AND FOOTING
PLASTICADE PRODUCTS	SENTINEL TYPE III BARRICADE
PLASTICADE PRODUCTS	BREAK-AWAY™ TYPE III BARRICADE WITH LIGHTWEIGHT WARNING LIGHTS
PLASTICADE PRODUCTS	TYPE III BARRICADE USING POWER POST™ PLASTIC UPRIGHTS
PLASTICADE PRODUCTS	3200 TYPE III BARRICADE WITH VOLCANO BASE
PSS	LANE GARD3 FOLDING TYPE III BARRICADE

CHANNELIZING DEVICES

PEXCO, LLC	TURNPIKE GRADE CURB WITH DELINEATORS
PEXCO, LLC	INTERSTATE GRADE CURB WITH DELINEATORS
TRAFFIC SAFETY SERVICE, LLC	TSS 590 WATER-FILLED BARRIER CHANNELIZER
TRAFFIX DEVICES	WATER WALL LCD