Manual for Assessing Safety Hardware

Temporary Traffic Control Considerations

Transportation Engineering and Safety Conference 2018
State College, PA
Approx. how many PennDOT-approved Temporary Traffic Control Products?

150

250

450

950
Chapter 2

2.2.3 Trailer-Mounted Attenuators and Portable Work Zone Traffic Control Trailers

2.2.4 Support Structures, Work Zone Traffic Control Devices, Breakaway Utility Poles, and Longitudinal Channelizers
“Temporary work zone devices, including portable barriers, manufactured after December 31, 2019, must have been successfully tested to the 2016 edition of MASH. Such devices manufactured on or before this date, and successfully tested to NCHRP Report 350 or the 2009 edition of MASH, may continue to be used throughout their normal service lives.”

---AASHTO/FHWA Joint Implementation Agreement
Examples: Lightweight devices such as cones, barrels and delineators

MASH 2016: 2.2.4: Work Zone Traffic Control Devices
May 9, 2018 Clarifications by AASHTO and FHWA:

Manufacturer-certification for MASH 2016 compliance is acceptable*

*With attachments, like warning lights, additional testing or engineering analyses may be warranted
CATEGORY 2 DEVICES

Examples: Barricades, vertical panels, portable sign stands

MASH 2016: 2.2.4: Work Zone Traffic Control Devices
May 9, 2018 Clarifications by AASHTO and FHWA:

- Two tests in one run
- Rear window damage
- Floor board penetration
- Mounting in paved surfaces
CATEGORY 2 DEVICES

PA Type 3 Barricade

H Base Sign Support

X Base Sign Support

Pennsylvania Department of Transportation
CATEGORY 3 DEVICES

Examples: Concrete, steel and water-filled temporary barriers, temporary attenuators,

MASH 2016: 2.2.4: Work Zone Traffic Control Devices
CATEGORY 3 DEVICES

Examples: Concrete, steel and water-filled temporary barriers, temporary attenuators,

Currently under consideration: 3-Year Phase Out; 12/31/2021
CATEGORY 4 DEVICES

Portable WZ Traffic Control Trailers: e.g. TMA, Portable DMS, Temporary Signals, Camera Trailers

Reference: MASH 2016: 2.2.3
TEMPORARY TRAFFIC CONTROL DEVICES

Portable WZ Traffic Control Trailers: e.g. TMA, portable DMS, temporary signals, camera trailers

May be necessary in some instances to shield or otherwise make crashworthy
MASH Temporary Traffic Control

Questions?

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