Manual for Assessing Safety Hardware

# Temporary Traffic Control Considerations



Transportation Engineering and Safety Conference 2018 State College, PA

#### Question

Approx. how many PennDOT-approved Temporary Traffic Control Products?

150

250

450

950





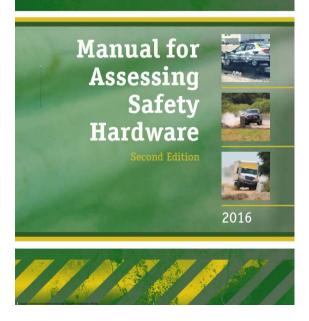
#### MASH Overview

AASHO

### 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





### MASH 2016

"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



#### CATEGORY 1 DEVICES

#### 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\*

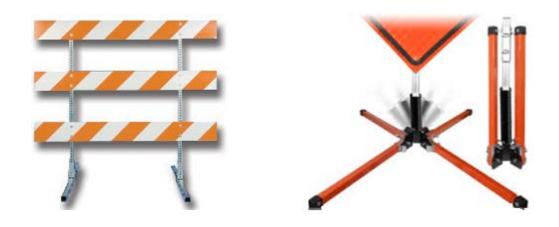


\*With attachments, like warning lights, additional testing or engineering analyses may be warranted



#### CATEGORY 2 DEVICES

Examples: Barricades, vertical panels, portable sign stands



#### MASH 2016: 2.2.4: Work Zone Traffic Control Devices



#### CATEGORY 2 DEVICES

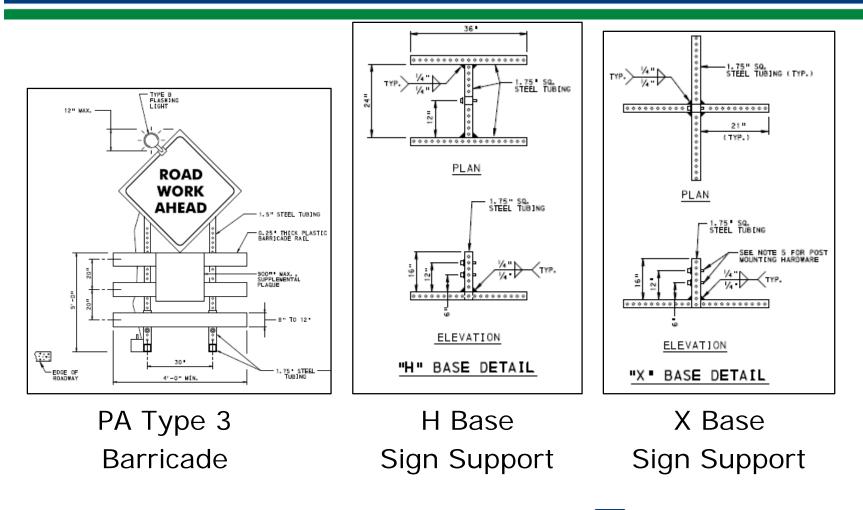
May 9, 2018 Clarifications by AASHTO and FHWA:

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





#### CATEGORY 2 DEVICES





#### 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?**



Jason C. Bewley, P.E. jbewley@pa.gov