



# Work Zone Traffic Control Devices

Date Last Edited: MARCH 2024



## **Category 1**

Drums  
42-Inch Cones  
Flexible Tubular Markers  
Traffic Channelizing Curb System

## **Category 2**

Type I Barricades  
Type II Barricades  
Type III Barricades  
Sign Stands  
Verical Panels  
Pedestrian Barricade

## **Category 3**

Truck & Trailer Mounted Attenuator

## **Category 4**

Arrow Board  
Connected Arrow Board  
Portable Changeable Message Sign  
Speed Radar Trailers  
Digital Speed Limit Trailer

## **Other**

Type A Lights  
Type B Lights  
Type C Lights  
Pedestrian Surface  
Temporary Detectable Warning Field  
Automated Flagger Assistance Device  
Temporary Portable Rumble Strips  
Retro-fit Kits for Connected Arrow Boards  
Connected Work Zone Location Markers

**\*\*Please see the Temporary Traffic Control Device Application at the end of this**

**Category 1**

**Drums**

Manufacturer	Product	Approval Date	Bid Item #
<a href="#">Lakeside Plastics</a>	<a href="#">Director Drum</a>	OCTOBER 2017	643.0300
<a href="#">Traffix Devices</a>	<a href="#">18000 Series Drum</a>	OCTOBER 2017	
<a href="#">PSS Innovations</a>	<a href="#">LifeGuard II</a>	OCTOBER 2017	
<a href="#">Plasticade</a>	<a href="#">Commander Drum</a>	OCTOBER 2017	
	<a href="#">Econocade II Drum</a>	SEPTEMBER 2019	
	<a href="#">Lane Changer Traffic Drum - B500 LC</a>	OCTOBER 2017	
<a href="#">Bent Manufacturing Company</a>	<a href="#">Superdome Drum</a>	JULY 2018	
<a href="#">The Cortina Companies</a>	<a href="#">Cortina TrailBoss Drum</a>	APRIL 2021	

**42-Inch Cones**

Manufacturer	Product	Approval Date	Bid Item #
<a href="#">Lakeside Plastics</a>	<a href="#">Diverter Channelizer</a>	OCTOBER 2017	643.1070
<a href="#">PSS Innovations</a>	<a href="#">Navigator, 42" Slimline Channelizer</a>	OCTOBER 2017	
<a href="#">Plasticade</a>	<a href="#">42" Channelizer C-42</a>	DECEMBER 2017	
	<a href="#">Navigade Channelizer Cone</a>	JANUARY 2018	
<a href="#">Bent Manufacturing Company</a>	<a href="#">T-Top Channelizers</a>	JULY 2018	
	<a href="#">Tear Drop Channleizers</a>	JULY 2018	
<a href="#">Traffix Devices</a>	<a href="#">Looper Cone (42") 16 lb &amp; 30 lb Bases</a>	JULY 2018	
<a href="#">UAT</a>	<a href="#">NG Gorilla Grip 42" Channelizer</a>	JULY 2020	
<a href="#">The Cortina Companies</a>	<a href="#">Grip N Go 42" Channelizerizer Cone</a>	APRIL 2021	

**Flexible Tubular Marker**

Manufacturer	Product	Approval Date	Bid Item #
<a href="#">Pexco</a>	<a href="#">FG 300 Series Posts</a>	OCTOBER 2017	643.0500 643.0600
	<a href="#">CityPost Bolt Down</a>	OCTOBER 2017	
	<a href="#">CityPost SM Surface Mount</a>	OCTOBER 2017	
	<a href="#">CityPost GD Glue Down</a>	OCTOBER 2017	
	<a href="#">Davidson FG 300 UR Series</a>	OCTOBER 2017	
	<a href="#">Flexi-Guide FG 300 Model PE Series</a>	OCTOBER 2017	
	<a href="#">Flexi-Guide FG 300 Model EFX Series</a>	OCTOBER 2017	
	<a href="#">DP 200 Channelizer Post</a>	OCTOBER 2017	
<a href="#">FlexStake</a>	<a href="#">FlexStake TM750 Series</a>	OCTOBER 2017	
<a href="#">Valtir, LLC</a>	<a href="#">Dura-Post</a>	OCTOBER 2017	
	<a href="#">Safe-Hit</a>	OCTOBER 2017	
<a href="#">Bent Manufacturing Co.</a>	<a href="#">Masterflex Post-EX Series</a>	OCTOBER 2017	
<a href="#">New Direction Manufacturing</a>	<a href="#">350 Surface Mount</a>	OCTOBER 2017	
<a href="#">Shur-Tite</a>	<a href="#">Shur-Flex Surface Mount</a>	OCTOBER 2017	
<a href="#">Lakeside Plastics</a>	<a href="#">Divider - Surface Mount Post</a>	OCTOBER 2017	
<a href="#">Impact Recovery Systems</a>	<a href="#">MP2 Post</a>	MARCH 2018	
	<a href="#">OMEGA POST - OP2</a>	JULY 2020	
<a href="#">Safe-Hit</a>	<a href="#">Dura-Post</a>	OCTOBER 2017	
<a href="#">Impact Traffic</a>	<a href="#">Tuff Post (SPEC-TP3)</a>	OCTOBER 2017	

**\*Flexible Tubular Markers Devices may be used for Work Zone or Permanent Application**

**Traffic Channelizing Curb System**

Manufacturer	Product	Approval Date	Bid Item #
<a href="#">Shur-Tite</a>	<a href="#">Shur-Curb Traffic Separator</a>	OCTOBER 2017	----
<a href="#">Qwick Kurb, Inc.</a>	<a href="#">Qwick Kurb</a>	OCTOBER 2017	
<a href="#">Pexco</a>	<a href="#">FG 300 Turnpike Grade Curb System</a>	OCTOBER 2017	
	<a href="#">FG 300 Interstate Grade Curb System</a>	OCTOBER 2017	
<a href="#">Impact Recovery Systems</a>	<a href="#">Tuff Curb</a>	MARCH 2018	
	<a href="#">Tuff Curb XLP</a>	MARCH 2018	

**Category 2**

**Type I Barricades**

Manufacturer	Product	Approval Date	Expiration Date	Bid Item #
Rent-A-Flash	T1 Wood Barricade (WZ-54)	OCTOBER 2017	1/1/2025	643.0405
<a href="#">Plasticade</a>	<a href="#">Combocade Type I</a>	OCTOBER 2017		
<a href="#">Warning Lites of Mn</a>	Aluminum Barricades	OCTOBER 2017		
<a href="#">Traffic Control &amp; Protection Inc</a>	<a href="#">Type 1 Barricade</a>	MAY 2018		

**Type II Barricades**

Manufacturer	Product	Approval Date	Expiration Date	Bid Item #
<a href="#">Bent Manufacturing Company</a>	<a href="#">WZ-54</a>	OCTOBER 2017	1/1/2025	643.0410
	<a href="#">Universal Plastic Barricade</a>	JULY 2018		
<a href="#">Traffix Devices</a>	<a href="#">35000 Series</a>	OCTOBER 2017		
Rent-A-Flash	T2 Wood Barricade (WZ-54)	OCTOBER 2017		
<a href="#">Plasticade</a>	<a href="#">Combocade Type II</a>	OCTOBER 2017		
<a href="#">Warning Lites of Mn</a>	Aluminum Barricades	OCTOBER 2017		
<a href="#">Traffic Control &amp; Protection Inc</a>	<a href="#">Type 2 Barricade</a>	MAY 2018		
United Rentals Highway Technology	Type II Barricade with Wooden Panes & Steel Angle Uprights	JULY 2018		
	Lo-Pro 350 Sign Stand	JULY 2018		

**Type III Barricades**

Manufacturer	Product	Approval Date	Expiration Date	Bid Item #
<a href="#">Pexco</a>	<a href="#">WZ-380</a>	SEPTEMBER 2019	1/1/2025	643.0420
	<a href="#">WZ-381</a>	SEPTEMBER 2019		
<a href="#">Warning Lites of Mn</a>	Aluminum Barricades	OCTOBER 2017		
Q3	Aluminum Type III Barricade	OCTOBER 2017		
Rent-A-Flash	T3 Wood/Plastic (WZ-40)	OCTOBER 2017		
<a href="#">PSS Innovations</a>	<a href="#">Anchor Mast Barricade System</a>	OCTOBER 2017		
	<a href="#">LaneGuard 3, Callapsible Barricade System</a>	OCTOBER 2017		
<a href="#">Plasticade</a>	Plasticade Telespar Type III Barricade	OCTOBER 2017		
	<a href="#">PowerPost Type III with Volcano Base</a>	DECEMBER 2017		
	<a href="#">Angle Iron Type III Barricade - 3900 Series</a>	MARCH 2018		
<a href="#">Bent Manufacturing Company</a>	<a href="#">Type III Barricade</a>	OCTOBER 2019		

**Sign Stands**

Manufacturer	Product	Approval Date	Expiration Date	Bid Item #
<a href="#">Traffix Devices</a>	<a href="#">Little Buster 24000 Series (WZ-108)</a>	OCTOBER 2017	1/1/2025	----
	<a href="#">Big Buster Part #60060 - BRU (with Roll-Up)</a>	MARCH 2018		
	<a href="#">Big Buster Part #60060 - RSB (with Rigid Sign Bracket)</a>	MARCH 2018		
<a href="#">Dickie Tool</a>	<a href="#">TwinFlex (TF-18)</a>	OCTOBER 2017		
	<a href="#">TF60-RUB or RGB</a>	FEBRURARY 2017		
	<a href="#">UF2000W</a>	MARCH 2021		
<a href="#">MDI</a>	<a href="#">5018K</a>	OCTOBER 2017		
	<a href="#">4860K</a>	JANUARY 2018		
	<a href="#">4818K</a>	JANUARY 2018		
<a href="#">Bone Safety Signs</a>	<a href="#">SZ-484-2S</a>	OCTOBER 2017		
Quality Restoration Services Inc.	QRS Vertical Sign Stand	OCTOBER 2017		
<a href="#">Mathy Constrution Company</a>	Mathy Work Zone A-Frame Sign Stand	MAY 2018		
United Rental Highway Technologies	Lo-Pro 350 Sign Stand	JULY 2018		
	Hi-Pro 350 Stand	AUGUST 2019		
<a href="#">Telespar</a>	<a href="#">Temporary Sign Skid</a>	OCTOBER 2019		
<a href="#">Plasticade</a>	<a href="#">SSRB800 Sign Stand</a>	JULY 2020		
	SS520A Sign Stand	JULY 2020		
	<a href="#">SS410A Sign Stand</a>	JULY 2020		
	<a href="#">SS420A Sign Stand</a>	JULY 2020		
	<a href="#">SS340A Sign Stand</a>	JULY 2020		
	<a href="#">SS310A Sign Stand</a>	JULY 2020		
	<a href="#">SS310 Sign Stand</a>	JULY 2020		
	<a href="#">SS300A Sign Stand</a>	JULY 2020		
	<a href="#">SS300 Sign Stand</a>	JULY 2020		
	<a href="#">SS105 Sign Stand</a>	JULY 2020		
<a href="#">The Cortina Companies</a>	<a href="#">Quadraflex VI Single Spring Sign Stand (#07-816-1)</a>	MARCH 2023		

**Vertical Panels**

Manufacturer	Product	Approval Date	Expiration Date	Bid Item #
<a href="#">Impact Recovery Systems</a>	<a href="#">8" x 24" Vertical Panels</a>	OCTOBER 2017	1/1/2025	----
	<a href="#">12" x 24" Vertical Panes</a>	OCTOBER 2017		

Pedestrian Barricade				
Manufacturer	Product	Approval Date	Expiration Date	Bid Item #
<a href="#">Pexco</a>	<a href="#">Temporary Pedestrian Access Rout (TPAR)</a>	OCTOBER 2016	1/1/2025	644.1810.S
<a href="#">Plasticade</a>	<a href="#">ADA Pathcade Barricade System</a>	DECEMBER 2021		
<a href="#">PSS Innovations</a>	<a href="#">Safety Rail</a>	OCTOBER 2017		
	<a href="#">SafetyWall</a>	OCTOBER 2017		
<a href="#">Traffix Devices</a>	<a href="#">Traffix ADA Wall - Series 57000-A</a>	MAY 2018		

Category 3				
Truck & Trailer Mounted Attenuators				
Manufacturer	Product	Approval Date		Bid Item #
<a href="#">Lindsey</a>	<a href="#">U-MAD</a>	OCTOBER 2017		----
<a href="#">Traffix Devices</a>	<a href="#">Scorpion Towable Attenuator</a>	OCTOBER 2017		
	<a href="#">Scorpion Truck Mounted Attenuator</a>	OCTOBER 2017		
	<a href="#">Scorpion II TL-3 Truck Mounted Attenuator</a>	DECEMBER 2021		
	<a href="#">Scorpion II TL-3 Towable Attenuator</a>	DECEMBER 2021		
	<a href="#">Gregory Industries</a>	<a href="#">TTMA - 200</a>		
	<a href="#">TTMA - 100</a>	OCTOBER 2017		
<a href="#">Valtir, LLC.</a>	<a href="#">Vorteq M</a>	OCTOBER 2023		
	<a href="#">SST</a>	JANUARY 2018		
	<a href="#">SS180*</a>	JANUARY 2018		
	<a href="#">SS90 HD</a>	JANUARY 2018		
	<a href="#">SS90</a>	JANUARY 2018		
	<a href="#">SS180 M</a>	OCTOBER 2020		
	<a href="#">SMT</a>	OCTOBER 2020		
<a href="#">Verdegro USA, LLC</a>	<a href="#">BLADE TMA, MASH TL-3 100K</a>	MARCH 2018		

\*Indicate MASH-16 TL-3 Approved Products

Category 4						
Arrow Board						
Manufacturer	Product	Approval Date		Bid Item #		
<a href="#">Work Area Protection (A Hill &amp; Smith Brand)</a>	<a href="#">Arrow Master Proline</a>	OCTOBER 2017		643.0800		
	<a href="#">ArrowMasterV</a>	OCTOBER 2017				
<a href="#">Wanco</a>	<a href="#">WTSP W ECO Folding Arrow-Board Trailer</a>	OCTOBER 2017				
	<a href="#">WFB8-LSA</a>	JANUARY 2022				
<a href="#">Ver-Mac</a>	<a href="#">ST-4815 Trailer Mounted Arrowboard</a>	OCTOBER 2017				
	<a href="#">VM - 4815 TRUCK MOUNTED ARROW BOARD</a>	JANUARY 2022				
<a href="#">Trafcon Industries, Inc.</a>	<a href="#">TC1</a>	OCTOBER 2017				
<a href="#">Allmand</a>	<a href="#">Eclipse AB2400</a>	OCTOBER 2017				
<a href="#">Solar Technoloy, Inc.</a>	<a href="#">Silent Sentinel/ AB-0515</a>	JANUARY 2018				
<a href="#">ADDCO</a>	<a href="#">15-Lamp Arrow Board (AB-15)</a>	OCTOBER 2019				
Connected Arrow Board***						
Manufacturer	Product	Approval Date				Bid Item #
<a href="#">Ver-Mac</a>	<a href="#">ST-4815 CAB</a>	FEBRUARY 2024		--		
Portable Changeable Message Sign						
Manufacturer	Product	Approval Date		Bid Item #		
<a href="#">Work Area Protection (A Hill &amp; Smith Brand)</a>	<a href="#">SMC-1000 ST</a>	OCTOBER 2017		643.1050 643.1051		
	<a href="#">SMC 2000 ST</a>	OCTOBER 2017				
	<a href="#">SMC 4000</a>	OCTOBER 2017				
	<a href="#">SMC 5000</a>	OCTOBER 2017				
<a href="#">Ver-Mac</a>	<a href="#">PCMS-1500 LP</a>	DECEMBER 2017				
	<a href="#">PCMS-1210 Full-Size, 3-Line Portable Changeable Message Sign</a>	OCTOBER 2017				
<a href="#">ADDCO</a>	<a href="#">2017 DH1000</a>	OCTOBER 2017				
	<a href="#">DH1000-ALS</a>	OCTOBER 2017				
<a href="#">Wanco</a>	<a href="#">WTMMB (A) FULL MATRIX MESSAGE BOARD</a>	DECEMBER 2017				
	<a href="#">WTLMB (A) THREE LINE MESSAGE BOARD</a>	DECEMBER 2017				
<a href="#">Solar Technology, Inc</a>	<a href="#">Silent Messenger/MB-1548</a>	JANUARY 2018				
	<a href="#">Silent Messenger 2/MB-1548 (fold-n-go)</a>	JANUARY 2018				
	<a href="#">Silent Messenger 2 L&amp;R / MB2-1548 (Lift and Rotate)</a>	JANUARY 2018				
Speed Radar Trailers						
Manufacturer	Product	Approval Date		Bid Item #		
<a href="#">Wanco</a>	<a href="#">Compact Radar-speed Trailer Model WSDT3</a>	OCTOBER 2017		----		
	<a href="#">Folding Frame Speed Trailer DT3 F60</a>	JULY 2020				
<a href="#">Ver-Mac</a>	<a href="#">SP-710V Trailer Mounted Speed Feedback Sign</a>	OCTOBER 2017				
<a href="#">Solar Technology</a>	<a href="#">Silent Advisor/RST-1000 (Low Speed Applications)</a>	MARCH 2018				
	<a href="#">Silent Advisor/RST-2000 (High Speed Applications)</a>	MARCH 2018				
<a href="#">JTI</a>	<a href="#">Speed Safe 20/20 Trailer</a>	JULY 2021				
Digital Speed Limit Trailer						
Manufacturer	Product	Approval Date				Bid Item #
<a href="#">Ver-Mac</a>	<a href="#">710-DSL Trailer Mounted Work Zone Digital Speed Limit Sign</a>	AUGUST 2023		----		
<a href="#">Wanco</a>	<a href="#">WVSL-48-12</a>	JANUARY 2024		----		

**Other**

Type A Lights				
Manufacturer	Product	Approval Date		Bid Item #
<a href="#">Empco-Lite</a>	<a href="#">Model 2006</a>	OCTOBER 2017		643.0705
	Toughlite 2000	OCTOBER 2017		
	Empco Y2K Barricade Light	MARCH 2018		
	Empco 6V 400 LED	SEPTEMBER 2019		
<a href="#">Dicke Tool</a>	<a href="#">AC4D-NL</a>	OCTOBER 2017		
Pi-Variables, Inc	BR3.AC.D3/D4	OCTOBER 2017		
	BR6.AC.D3/D4	OCTOBER 2017		
	BC3.AC.D3/D4	OCTOBER 2017		
	BC6.AC.D3/D4	OCTOBER 2017		
	BS.AC.D1/D2	OCTOBER 2017		
	Type A Lights	JULY 2018		
Type B Lights				
Manufacturer	Product	Approval Date		Bid Item #
Checkers Industrial Safety Products	BR3.B.D3/D4	OCTOBER 2017		643.0710
	BS.B.D1/D2	OCTOBER 2017		
<a href="#">Empco-Lite</a>	Toughlite 2000	OCTOBER 2017		
	Empco Y2K Barricade Light	MARCH 2018		
	Empco 6V 400 LED	SEPTEMBER 2019		
Type C Lights				
Manufacturer	Product	Approval Date		Bid Item #
<a href="#">Empco-Lite</a>	<a href="#">Model 2006</a>	OCTOBER 2017		643.0715
	Toughlite 2000	AUGUST 2019		
	Empco Y2K Barricade Light	MARCH 2018		
	Empco 6V 400 LED	SEPTEMBER 2019		
<a href="#">Dicke Tool</a>	AC4D-NL	OCTOBER 2017		
Checkers Industrial Safety Products	BR3.AC.D3/D4	OCTOBER 2017		
	BR6.AC.D3/D4	OCTOBER 2017		
	BC3.AC.D3/D4	OCTOBER 2017		
	BC6.AC.D3/D4	OCTOBER 2017		
	BS.AC.D1/D2	OCTOBER 2017		
C & C Lights (now owned by Checkers Industrial Safety Products)	Type C Lights	JULY 2018		
Pedestrian Surface (Pedestrian Walkway Systems)				
Manufacturer	Product	Approval Date	Expiration Date	Bid Item #
<a href="#">PSS Innovations</a>	<a href="#">BoardWalk Temporary Pedestrian Modular Ramp</a>	OCTOBER 2017	1/1/2025	----
	<a href="#">Boardwalk Platform 2</a>	OCTOBER 2017		
	<a href="#">RapidRamp</a>	MARCH 2023		
<a href="#">Diamond Discs Inter</a>	<a href="#">Ped Utility Trench Cover</a>	JULY 2020		
Central State Construction	CSC Ramp 1	JANUARY 2021		
Checkers Safety Industrial Products	Versamat Ground Protection Mat	JUNE 2021		
<a href="#">Greatmats</a>	<a href="#">Greatmats Ground Protection Mat 1/2 Inch x 4x8</a>	MAY 2022		
<a href="#">Chippewa Concrete Services</a>	CCS-JF-WI	MAY 2022		
<a href="#">Blue Gator</a>	<a href="#">Blue Gator Ground Protection Mats</a>	JULY 2022		
<a href="#">FODS</a>	<a href="#">GPM Ground Protectoin Mat, Model #1200 AM</a>	JULY 2022		
<a href="#">Spartan Composites</a>	<a href="#">Scout Mat</a>	MARCH 2023		
<a href="#">James Peterson Sons, Inc</a>	JPS Curb Ramp	AUGUST 2023		
Temporary Detectable Warning Field				
Manufacturer	Product	Approval Date	Expiration Date	Bid Item #
<a href="#">ADA Solutions</a>	<a href="#">ADA - SA2448-1</a>	MAY 2022	----	644.1605
<a href="#">Detectable Warning Systems</a>	<a href="#">AlertTile Truncated Domes</a>	AUGUST 2023	----	
Automated Flagger Assistance Device				
Manufacturer	Product	Approval Date		Bid Item #
<a href="#">North America Traffic Inc.</a>	<a href="#">PTL2.4LD Portable Flagger Light</a>	JUNE 2019		--
	<a href="#">PTL2.4LD Portable Flagger Signal</a>	JUNE 2019		
	<a href="#">RCF2.4 Automated Flagger Assistance Device</a>	JUNE 2019		
<a href="#">JTI</a>	<a href="#">Sentinel AFAD</a>	JULY 2021		
<a href="#">Wanco</a>	<a href="#">WAFAD</a>	JULY 2022		
<a href="#">Synergy Technology</a>	<a href="#">Automated Flagger AF-100</a>	APRIL 2022		
<a href="#">Ver-Mac</a>	<a href="#">Flagger-Mac Automated Flagger Assistance Device</a>	FEBRUARY 2023		
Temporary Portable Rumble Strip				
Manufacturer	Product	Approval Date		Bid Item #
<a href="#">PSS Innovations</a>	<a href="#">RoadQuake 2</a>	JANUARY 2020		--
	<a href="#">RoadQuake 2F</a>	JANUARY 2020		
<a href="#">Traffix Devices</a>	<a href="#">Alert High Speed Rumble Strip</a>	JANUARY 2020		
Temporary Traffic Signals				
Manufacturer	Product	Approval Date		Bid Item #
<a href="#">Horizon Signal Technologies</a>	<a href="#">SQ2</a>	JANUARY 2022		--
<a href="#">Ver-Mac</a>	<a href="#">TLD-2312 Trailer Mounted Traffic Signals with Advanced Technology</a>	AUGUST 2022		

Connected Arrow Board Retro-Fit Kit***			
Manufacturer	Product	Approval Date	Bid Item #
<a href="#">iCone</a>	<a href="#">ConnectedTech Arrow Board Kit (CTD-AB)</a>	FEBRUARY 2024	--
<a href="#">Ver-Mac</a>	<a href="#">Connected Arrow Board Retro-Fit Kit</a>	FEBRUARY 2024	--
Connected Work Zone Location Markers***			
Manufacturer	Product	Approval Date	Bid Item #
<a href="#">iCone</a>	<a href="#">iPin (CTD-IP)</a>	FEBRUARY 2024	--
<a href="#">Ver-Mac</a>	<a href="#">Work Zone Location Marker</a>	MARCH 2024	--

\*\*\*Items are provisionally approved for 2024 Construction Season.

# Temporary Traffic Control Device Approval Process

## 1. INTRODUCTION

The temporary traffic control devices are covered by this approval process.

## QUALIFICATION METHODS

The Wisconsin Department of Transportation provides manufacturers, vendors, traffic control contractors and county forces two options to apply for addition to the approved products list in Wisconsin. To be considered, the manufacturers, vendors, traffic control contractors and county forces must initiate the evaluation of their temporary traffic control device.

### Qualification Option A – Immediate Approval

The Wisconsin Department of Transportation provides manufacturers, vendors, traffic control contractors and county forces with the process to apply for addition to the approved products list in Wisconsin. To be considered, the traffic control contractor and county forces must initiate the evaluation of their temporary traffic control device.

1. The subject device will require a letter of self-certification or FHWA eligibility letter. Refer to Appendices for requirements. Devices that do not meet MASH requirements but meet NCHRP 350 may be considered for addition to the list.
2. Submit the required Application Form, Self-Certification Letter or FHWA Eligibility Letter, Installation Specifications, Product Specifications and Report as follows:
  - **Application Form**
  - **Self-Certification Letter or FHWA Eligibility Letter:**
    - Self-Certification Letter should contain at a minimum:
      - *A title, e.g., "Certificate of Crashworthiness";*
      - *Name and address of vendor making the certification.*
      - *Unique identification of the certificate (such as serial number) and of each page and the total number of pages;*
      - *(iv) Description and unambiguous identification of the item tested;*
      - *Identification of the basis for the self-certification process used and to what Test Level of NCHRP Report 350. This basis as listed in the July 25, 1997-memo as crash test experience with similar devices or years of demonstrably safe operational performance. (Simplified crash testing showing that a device poses no risk to vehicle occupants may be used to support the manufacturer's certification. This simplified testing must, as a minimum, be documented by a written report, observed by an independent, impartial observer, recorded on videotape, and include a means, other than the test vehicle's speedometer, for determining the vehicle speed at time of impact.)*



- *A signature and title, or an equivalent identification of the person(s) accepting responsibility for the content of the certificate (however produced), and date of issue;*
  - *A statement that the certificate shall not be reproduced except in full.*
- **Installation Specifications:** Submit proper product installation instructions along with a website address where the installation specifications can be located.
- **Report:** Submit a written report containing all the following information and a statement agreeing to the provisions of the application and review process.
  - Technical Assistance: The name(s), telephone number(s) and email addresses for the vendor or manufacturer representatives.
  - Manufacturer Quality Control Program: A written submission of a quality control program that monitors the manufacturer's production for WisDOT approval.

***Bureau of Traffic Operations: Work Zone Program***  
***Department of Transportation***  
***3609 Pierstorff St.***  
***Madison, WI 53704***  
***Email: [DOTSignMarkWZMaterials@dot.wi.gov](mailto:DOTSignMarkWZMaterials@dot.wi.gov)***

3. After all required applicable documents have been received, the Work Zone Products Evaluation Team will meet and review all submitted items. The team meets every 30 days. After the evaluation process is completed, WisDOT will notify the manufacturer or vendor of the results of the evaluation via letter. If the product is accepted, it will be included on the Temporary Traffic Control Device Approved Products List, which is updated quarterly.
4. It is the responsibility of the traffic control contractor or county force to submit all changes to WisDOT BTO to remain in good standing on the approved products list once the product has been added to the approved products list. If the product begins to show signs of failure before the end of its lifecycle, the traffic control contractor or county force will be notified and will have 1 month to correct the problem or provide a resolution plan. If the problem is corrected, the product will remain on the approved products list. If the problem is not corrected, the product will be removed from the approved products list.



## Qualification Option B – Provisional Approval

In the instance of Connected Devices, WisDOT Bureau of Traffic Operations (BTO) will evaluate the submitted product for one construction season to determine if the product performs and meets the needs required by BTO.

1. Submit the required Application Form and Self-Certification Letter or FHWA Eligibility Letter (as applicable), Installation Specifications, Product Specifications and Report as follows:
  - a. **Application Form**
  - b. **Self-Certification Letter or FHWA Eligibility Letter (if applicable):**
    - i. Self-Certification Letter should contain at a minimum:
      1. *A title, e.g., "Certificate of Crashworthiness";*
      2. *Name and address of vendor making the certification.*
      3. *Unique identification of the certificate (such as serial number) and of each page and the total number of pages;*
      4. *Description and unambiguous identification of the item tested;*
      5. *Identification of the basis for the self-certification process used and to what Test Level of NCHRP Report 350. This basis as listed in the July 25, 1997-memo as crash test experience with similar devices or years of demonstrably safe operational performance. (Simplified crash testing showing that a device poses no risk to vehicle occupants may be used to support the manufacturer's certification. This simplified testing must, as a minimum, be documented by a written report, observed by an independent, impartial observer, recorded on videotape, and include a means, other than the test vehicle's speedometer, for determining the vehicle speed at time of impact.)*
      6. *A signature and title, or an equivalent identification of the person(s) accepting responsibility for the content of the certificate (however produced), and date of issue;*
      7. *A statement that the certificate shall not be reproduced except in full.*
    - ii. **Installation Specifications:** Submit proper product installation instructions along with a website address where the installation specifications can be located.
    - iii. **Report:** Submit a written report containing all the following information and a statement agreeing to the provisions of the application and review process.
      - i. **Technical Assistance:** The name(s), telephone number(s) and email addresses for the vendor or manufacturer representatives.
      - ii. **Manufacturer Quality Control Program:** A written submission of a quality control program that monitors the manufacturer's production for WisDOT approval.
      - iii. **Performance Report:** Written report providing all data relating directly to the capabilities, performance and other applicable characteristics of the

device being submitted to the Department and how the device will meet the needs of the Department.

2. After all required applicable documents have been received, the Work Zone Products Evaluation Team will meet and review all submitted items and notify the submitter of provisional approval or if the product has been denied. If the product is denied for provisional approval, then the qualification process is concluded. WisDOT will notify the submitter the results of the evaluation via letter. If the product is accepted, it will be included on the Temporary Traffic Control Device Approved Products List listed as “Provisionally Approved”.
3. Upon completion of the product provisional status evaluation, WisDOT will notify the submitter of the results in writing. If the product is accepted for permanent placement on the APL, the submitter will be notified in writing. If the product is rejected, then the qualification process is concluded. Once the product is on the Approved Products List, it is the responsibility of the manufacturers, vendors, traffic control contractors and county forces to submit any and all changes to WisDOT BTO in order to remain in good standing on the approved products list.

### **ON-GOING APPROVAL**

To recertify products to be included on the approved products list, the traffic control contractor or county force is required to resubmit all the documents listed above in the instances of name change, device change or any other applicable change. Failure to recertify products will result in removal from the Approved Products List.

**Wisconsin Department of Transportation  
Temporary Traffic Control Device: Approved Products Application**

**Traffic Control Contractor or County Information**

Company or County Name: \_\_\_\_\_ Phone Number: \_\_\_\_\_  
Physical Address: \_\_\_\_\_  
Email Address: \_\_\_\_\_

**Vendor Information**

Vendor Name: \_\_\_\_\_ Phone Number: \_\_\_\_\_  
Address: \_\_\_\_\_  
Website: \_\_\_\_\_

**Product Information**

**Category 1**

Drums  
42" Cones  
Flexible Tubular Markers  
Traffic Channelizing Curb System

**Category 2**

Type I Barricades  
Type II Barricades  
Type III Barricades  
Sign Stands  
Vertical Panels  
Pedestrian Barricade

**Category 3**

Truck & Trailer Mounter Attenuator

**Category 4**

Arrow Board  
Connected Arrow Board (provisional approval only)  
Portable Changeable Message Sign  
Speed Radar Trailers  
Digital Speed Limit Trailer

**Other**

Type A Lights  
Type B Lights  
Type C Lights  
Pedestrian Surface  
Temporary Detectable Warning Field  
Automated Flagger Assistance Device  
Temporary Portable Rumble Strips  
Connected Arrow Board Retro-fit Kits (provisional approval only)  
Connected Work Zone Location Marker (provisional approval only)

Product Name and Model: \_\_\_\_\_

Has this product, or similar products been used previously by WisDOT?  Yes  No

If yes, please explain: \_\_\_\_\_

**Documents to Submit:**

Self-Certification Letter or FHWA Eligibility Letter  
Installation Specifications  
Product Specifications  
Report  
MASH Compliance Letter

**Signature**

Signed: \_\_\_\_\_ Title: \_\_\_\_\_

Printed Name: \_\_\_\_\_ Date: \_\_\_\_\_

Submit this application and supporting documents to:  
Bureau of Traffic Operations: Work Zone Program  
Department of Transportation  
[DOTSignMarkWZMaterials@dot.wi.gov](mailto:DOTSignMarkWZMaterials@dot.wi.gov)

**Wisconsin Department of Transportation**  
**Temporary Traffic Control Device: Approved Products Application**

**APPENDIX A**

**CATEGORY 1**

- *Category 1 devices are “self-certified” by each Manufacturer and no testing of these devices is required to meet MASH-16 requirements. These devices may be allowed for use based on the developer’s self-certification subject to approval by the individual highway agencies.*
  
- DRUMS
  - Weighted Rubber Base
    - Tire or molded base
    - Weight of base should follow manufacturer recommendations
  - Orange
  - Dimensions and Sheeting requirements meet SDD 15C11-b
  - MASH Compliant
  
- 42” TRAFFIC CONTROL CONES
  - Weighted Rubber Base
    - Molded
    - Weight of base should follow manufacturer recommendations
  - Orange
  - Dimensions and Sheeting requirements meet SDD 15C11-b
  - Written submission of certification from manufacturer or distributor for compliance to MASH
  
- FLEXIBLE TUBULAR MARKERS
  - Plastic bases that hold tube with locking pin
  - Locking pin mechanism for securing device
  - Orange (work zone application)
  - White (permanent application)
  - Yellow (permanent application)
  - Work Zone Application
    - Dimensions and sheeting requirements meet SDD 15C11-a
  - Permanent Application
    - Dimensions and sheeting requirements meet SDD 15A04-a
  - MASH Compliant
  
- TRAFFIC CHANNELIZING CURB SYSTEM
  - Submit FHWA federal-aid reimbursement eligibility letters
  - Requirements meet MUTCD Section 3H.01 and 6F.72

## APPENDIX B

### CATEGORY 2

- *Category 2 Temporary traffic control devices manufactured on or after January 1, 2020 must meet MASH-16 crash standards.*
- *Category 2 devices manufactured before January 1, 2020 may be used through January 1, 2025 provided they meet the requirements of the Standard Specifications and are approved and accepted for use by the Engineer.*
  
- BARRICADES (TYPE I, II & III)
  - Corrugated Plastic Panels
  - Perforated Channel Supports or Angle Iron
  - Submitted FHWA federal-aid reimbursement eligibility letter
  - Dimensions and sheeting requirements meet SDD 15C11-b and MUTCD Section 6F.68
  
- PORTABLE SIGN SUPPORTS
  - The sign face must be perpendicular to the ground
  - One Foot Mounting Height (collapsible & rigid)
  - Five Foot Mounting Height (collapsible & rigid)
  - Seven Foot Mounting Height (collapsible & rigid)
  - Submit FHWA federal-aid reimbursement eligibility letter
  
- VERTICAL PANELS
  - Submitted FHWA federal-aid reimbursement eligibility letter
  - Dimensions and sheeting requirements meet SDD 15C11-b and MUTCD Section 6F.66
  
- PEDESTRIAN SAFETY BARRICADE
  - Submit FHWA federal-aid reimbursement eligibility letter
  - Dimensions and sheeting requirements meet SDD 15D30-c and conform to the recommendations of MUTCD Section 6F.63.04, 6F.63.05 and 6F.74

## **APPENDIX C**

### **CATEGORY 3**

- *See WisDOT MASH Implementation Plan*

## APPENDIX D

### CATEGORY 4

- *See WisDOT MASH Implementation Plan*
- *FHWA previously exempted these devices from crash-testing under NCHRP Report 350 as the benefit of the use of these devices outweighs the risk exposure; however, the FHWA required that they should be shielded, when possible, should be removed when not needed, and must be delineated when deployed.*
  
- ARROW BOARD
  - Conform to the Wisconsin MUTCD requirement for type C arrow panel
    - 96 x 48 inches
    - 15 elements
    - Visible from minimum of 1 mile
  - Capable of operating towed or stationary
  - SAE PAR 46 lamps
  - Hood surrounds not less than 180 degrees of each individual lamps
  - Capable of these mode selections: left or right flashing shaft with arrow point, flashing shaft with double arrow points, or caution. The engineer will not allow sequential operation of arrow or chevrons.
  - Control System
    - Capable of at least 50 percent dimming from rated voltage
    - Flashing rate 25 to 40 flashes per minute
    - 50 percent lamp “on” time
    - Automatic dimming of lamps by reducing the voltage to 50 percent minimum for nighttime use and for the fail mode default setting.
    - Manual override backup switch
    - Is controlled by an onboard computer programmable via an onboard input device and, if the special provisions require, programmable remotely.
    - Has a secure cabinet and requires a username and password to access the computer interface.
    - Battery or Solar Powered
  
- CONNECTED ARROW BOARD (provisional only)
  - Meet requirements listed above for ‘Arrow Board’
  - The connected arrow board shall be connected to the cloud and provide a data feed compliant with latest the U.S Department of Transportation Work Zone Data Exchange (WZDx) Device Feed specification 4.2.
  - The property ‘id’ shall stay the same for the duration of the project. See picture below from WZDx Device Feed specification.



## Properties [↗](#)

Name	Type	Description	Conformance	Notes
<code>id</code>	String	A unique identifier issued by the data feed provider to identify the field device. It is recommended that this identifier is a Universally Unique Identifier (UUID) as defined in <a href="#">RFC 4122</a> to guarantee uniqueness between feeds and over time.	Required	This is a GeoJSON property.

- The connected arrow board shall distinguish whether it is active, displaying a pattern or blank/transport mode, symbolizing it is not active.
- Submit Work Zone Data Exchange Device feed link to [DOTBTOWorkzone@dot.wi.gov](mailto:DOTBTOWorkzone@dot.wi.gov).
- PORTABLE CHANGEABLE MESSAGE SIGN
  - Conform to the Wisconsin MUTCD requirements
  - Trailer mounted
  - 4 leveling jacks
  - Battery power supply, solar powered charging system
  - Control System
    - Has a screen for reviewing messages before being displayed on sign.
    - Is controlled by an onboard computer programmable via an onboard input device and, if the special provisions require, programmable remotely.
    - Ensure that the computer can store and recalling at least 150 programmed messages.
    - Has a secure cabinet and requires a username and password to access the computer interface.
    - Automatically adjusts the sign's intensity to maintain legibility under varying light conditions.
  - Provide a line matrix, character matrix, or full matrix sign message display no greater than 11-1/2 feet wide and capable of displaying 3 lines sequentially with 8 or more 18-inch high by 11-inch wide characters per line
  - LED Display Only.
    - Must display amber or yellow message.
    - NO hybrid or flip disc
- SPEED RADAR TRAILERS
  - The legend shall read “YOUR SPEED” as a static message centered on the sign.
  - Legend and background colors of this static sign shall match the regulatory or advisory speed sign it is paired with.
  - The changeable portion of the sign shall have a black background with an amber (yellow) illuminated legend.
  - Display shall be two digits displayed in miles per hour.

- Legibility, must be able to determine numbers from 1/4 mile.
  - Visibility, must be able to determine if the sign is on from 1/2 mile.
  - Display shall have the ability to:
    - Continuously show the speed of an approaching vehicle and not flash regardless of speed limit or preset thresholds.
  - System shall use an LCD display, keyboard, Rotary switches or other means to set and view operating modes, matrix displayed speed, error codes and other system information.
  - LED indicators (or similar) signify power is on, the solar charging system is active, activated alarms need for checking, battery charge is low, and power failure.
  - System shall include a regulatory speed limit sign
- DIGITAL SPEED LIMIT TRAILER
    - Trailer Mounted
    - R2-1 Regulatory Speed Limit Sign
      - Conform to Wisconsin MUTCD Requirements and standard spec 643
      - 48 x 60 inches
      - Mounting Height: 7 feet
      - Speed Display Panel
        - The changeable portion of the sign shall have a black background with a white LED illuminated legend
        - Display shall be two digits displayed in miles per hour in multiples of 5 mph
        - Automatically adjusts the sign's intensity to maintain legibility under varying light conditions
        - Shall be programmable remotely
    - Flashing Beacons shall conform to the Wisconsin MUTCD Section 4L and standard spec 658.2(2).
      - A minimum of one flashing beacon shall be used. If only one flashing beacon is used, flashing beacon should be mounted above the sign, and centered horizontally.
      - The flashing yellow circular yellow signal indication shall have a nominal diameter of 12-inches.

## APPENDIX E

### OTHER

- WARNING LIGHTS
  - Type A, B & C
  - Conform to MUTCD Section 6F.83 and Standard Specification
  - ITE “Purchase Specification for Flashing and Steady-Burn Warning Lights”
  
- PEDESTRIAN SURFACE
  - Requirements meet SDD 15D30-b & 15D30-c and conform to the recommendations of MUTCD Section 6F.74
  
- TEMPORARY DETECTABLE WARNING FIELD
  - Requirements meet SDD 15D30-b & 15D30-c and conform to the recommendations of MUTCD Section 6F.74
  
- AUTOMATED FLAGGER DEVICES
  - Requirements meet MUTCD Section 6E.06.04
  
- CONNECTED ARROW BOARD RETRO-FIT KITS (provisional only)
  - The connected arrow board shall be connected to the cloud and provide a data feed compliant with latest the U.S Department of Transportation Work Zone Data Exchange (WZDx) Device Feed specification 4.2.
  - The property ‘id’ shall stay the same for the duration of the project. See picture below from WZDx Device Feed specification.

#### Properties

Name	Type	Description	Conformance	Notes
id	String	A unique identifier issued by the data feed provider to identify the field device. It is recommended that this identifier is a Universally Unique Identifier (UUID) as defined in <a href="#">RFC 4122</a> to guarantee uniqueness between feeds and over time.	Required	This is a GeoJSON property.

- Device should distinguish whether it is active, displaying a pattern or off, in transport mode or blank.
- Submit Work Zone Data Exchange Device feed link to [DOTBTOWorkzone@dot.wi.gov](mailto:DOTBTOWorkzone@dot.wi.gov).
  
- LOCATION MARKER (provisional only)
  - The location marker shall be connected to the cloud and provide a data feed compliant with latest the U.S Department of Transportation Work Zone Data Exchange (WZDx) Device Feed specification 4.2.
  - Battery should hold single charge for duration of project
    - Accomplished through battery swapping or charging in the field to keep the ‘id’ the same for each location marker.

- Clear distinguishability of the start location marker and set as 'work zone start'
- Clear distinguishability of the end location marker and set as 'work zone end'
- Ease of association in the WZDx Feed for 'work zone start' and 'work zone end'
- Submit Work Zone Data Exchange Device feed link to [DOTBTOWorkzone@dot.wi.gov](mailto:DOTBTOWorkzone@dot.wi.gov).