

MARYLAND STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC AND SAFETY
7491 Connelley Drive
Hanover, MD 21076

PROCEDURES FOR THE QUALIFICATION OF ARROW PANELS

The Maryland Department of Transportation State Highway Administration (MDOT SHA) Office of Traffic and Safety (OOTS) maintains a Qualified Products List (QPL) that includes Arrow Panels. Arrow Panels shall conform to the following:

- Section 104.07 of [MDOT SHA's Standard Specifications for Construction and Materials](#)
- The applicable standards from the [Book of Standards for Highway and Incidental Structures](#)
- [AASHTO/FHWA Roadside Hardware Policy Memoranda and Guidelines](#)

If you are interested in having your Materials/Products/Devices qualified, please visit [Maryland's Product Evaluation Listing \(MPEL\)](#) and then select "Vendor Registration" to begin the process.

No crash testing will be required for Arrow Panels until there is a MASH 2016 crash testing matrix developed for this category. MDOT SHA reserves the right to perform field evaluations or testing as a part of the evaluation process. If requested, Manufacturers/Producers/Vendors must provide free samples for the evaluation process.

All Materials/Products/Devices approved are required to continue to meet the requirements mentioned above. **MDOT SHA's MPEL coordinator must be informed immediately of any changes in the composition of the Materials/Products/Devices.** After MDOT SHA has reviewed the changes, new sample(s) may be requested and submitted along with the aforementioned information.

Materials/Products/Devices representing revised formulation/specifications/standards of currently approved Qualified Products/Devices will not be accepted for testing within six (6) months of the most recent evaluation unless requested by MDOT SHA.

Materials/Products/Devices evaluated and not accepted are not eligible for resubmission within six (6) months of the most recent submittal date, unless requested and approved by MDOT SHA.

Manufacturers/Producers/Vendors of Arrow Panels are required to recertify their products every five (5) years to remain on the OOTS QPL. Recertification letters may be submitted within 6 months of the recertification date on the OOTS QPL category for Arrow Panels. If the recertification letter is not received by the applicable recertification date, the Materials/Products/Devices will be removed from the OOTS QPL.

The recertification letter shall be on the Manufacturers/Producers/Vendors company's letterhead and attest to the following:

- The Material/Product/Device is identical to the unit that has been approved by MDOT SHA
- The Material/Product/Device is still being produced and available for sale
- The Material/Product/Device properties have not changed or been altered
- Current MSDS if applicable

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**PROCEDURES FOR THE QUALIFICATION OF
AUTOMATED FLAGGER ASSISTANCE DEVICE**

The Maryland Department of Transportation State Highway Administration (MDOT SHA) Office of Traffic and Safety (OOTS) maintains a Qualified Products List (QPL) that includes Automated Flagger Assistance Device (AFAD). AFAD shall conform to the following:

- Section 104.22 of [MDOT SHA's Supplemental Special Provision Insert](#)
- The applicable standards from the [Book of Standards for Highway and Incidental Structures](#).
- [AASHTO/FHWA Roadside Hardware Policy Memoranda and Guidelines](#)

If you are interested in having your Materials/Products/Devices qualified, please visit [Maryland's Product Evaluation Listing \(MPEL\)](#) and then select "Vendor Registration" to begin the process.

No crash testing will be required for AFAD until there is a MASH 2016 crash testing matrix developed for this category. MDOT SHA reserves the right to perform field evaluations or testing as a part of the evaluation process. If requested, Manufacturers/Producers/Vendors must provide free units/samples for the evaluation process.

MDOT SHA MPEL coordinator must be informed immediately of any changes in the composition of the Materials/Products/Devices. After MDOT SHA has reviewed the changes, a new unit or sample(s) may be requested and submitted along with the aforementioned information.

Materials/Products/Devices representing revised formulation/specifications/standards of currently approved Qualified Products/Devices will not be accepted for testing within six (6) months of the most recent evaluation unless requested by MDOT SHA.

Materials/Products/Devices evaluated and not accepted are not eligible for resubmission within six (6) months of the most recent submittal date, unless requested and approved by MDOT SHA.

Manufacturers/Producers/Vendors of AFAD are required to recertify their products every five (5) years to remain on the OOTS QPL. Recertification letters may be submitted within 6 months of the recertification date on the OOTS QPL category for AFAD. If the recertification letter is not received by the applicable recertification date, the Materials/Products/Devices will be removed from the OOTS QPL.

The recertification letter shall be on the Manufacturers/Producers/Vendors company's letterhead and attest to the following:

- The Material/Product/Device is identical to the unit that has been approved by MDOT SHA
- The Material/Product/Device is still being produced and available for sale
- The Material/Product/Device properties have not changed or been altered
- Current MSDS if applicable

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PROCEDURES FOR THE QUALIFICATION OF BARRICADES

The Maryland Department of Transportation State Highway Administration (MDOT SHA) Office of Traffic and Safety (OOTS) maintains a Qualified Products List (QPL) that includes Barricades. Barricades shall conform to the following:

- Section 104.13 of [MDOT SHA's Standard Specifications for Construction and Materials](#)
- The applicable standards from the [Book of Standards for Highway and Incidental Structures](#)
- [AASHTO/FHWA Roadside Hardware Policy Memoranda and Guidelines](#)

If you are interested in having your Materials/Products/Devices qualified, please visit [Maryland's Product Evaluation Listing \(MPEL\)](#) and then select "Vendor Registration" to begin the process.

Barricade evaluations require Manual for Assessing Safety Hardware (MASH) 2016 Federal Highway Administration (FHWA) Eligibility Letter before acceptance. In addition, OOTS reserves the right to perform field evaluations or testing as a part of the evaluation process. If requested, Manufacturers/Producers/Vendors must provide free samples for the evaluation process.

All Materials/Products/Devices approved are required to continue to meet the requirements mentioned above and in accordance with the FHWA Eligibility Letter. **The MDOT SHA MPEL coordinator must be informed immediately of any changes in the design, hardware, or composition of the Materials/Products/Devices.** Any modifications made to the Materials/Products/Devices after receiving the FHWA Eligibility Letter will require one of the following options below for approval consideration:

- Resubmit the Materials/Products/Devices with the modification(s) to FHWA for MASH 2016 testing in accordance with the Lane Separator System criteria. Please provide the FHWA Eligibility Letter after the testing is completed and passed.
- Hire an independent Licensed Engineer with no financial affiliation to the Manufacturer/Producer/Vendor to validate that the modification(s) continue to meet the MASH 2016 requirements for Lane Separator System. The Licensed Engineer will certify and sign that the Materials/Products/Devices meet the MASH 2016 criteria.
- Submit the Materials/Products/Devices to an independent certified testing facility with no financial affiliation to the Manufacturer/Producer/Vendor to certify the Materials/Products/Devices continue to meet the MASH 2016 requirements for Lane Separator Systems. The facility will certify the Materials/Products/Devices meet the MASH 2016 testing criteria.

Materials/Products/Devices representing revised formulation/specifications/standards of currently approved Qualified Products/Devices will not be accepted for testing within six (6) months of the most recent evaluation unless requested by MDOT SHA.

Materials/Products/Devices evaluated and not accepted are not eligible for resubmission within six (6) months of the most recent submittal date, unless requested and approved by MDOT SHA.

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PROCEDURES FOR THE QUALIFICATION OF BARRICADES

Manufacturers/Producers/Vendors of Barricades are required to recertify their products every five (5) years to remain on the OOTS QPL. Recertification letters may be submitted within 6 months of the recertification date on the OOTS QPL category for Barricades. If the recertification letter is not received by the applicable recertification date, the Materials/Products/Devices will be removed from the OOTS QPL.

The recertification letter shall be on the Manufacturers/Producers/Vendors company's letterhead and attest to the following:

- The Material/Product/Device is identical to the unit that has been approved by MDOT SHA
- The Material/Product/Device is still being produced and available for sale
- The Material/Product/Device properties have not changed or been altered
- Current MSDS if applicable

MDOT SHA will only allow MASH 2016 compliant Barricades in contract bids and on new projects effective January 1, 2024.

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PROCEDURES FOR THE QUALIFICATION OF CONES

The Maryland Department of Transportation State Highway Administration (MDOT SHA) Office of Traffic and Safety (OOTS) maintains a Qualified Products List (QPL) that includes Cones. Cones shall conform to the following:

- Section 104.14 of [MDOT SHA's Standard Specifications for Construction and Materials](#)
- The applicable standards from the [Book of Standards for Highway and Incidental Structures](#)
- [AASHTO/FHWA Roadside Hardware Policy Memoranda and Guidelines](#)

If you are interested in having your Materials/Products/Devices qualified, please visit [Maryland's Product Evaluation Listing \(MPEL\)](#) and then select "Vendor Registration" to begin the process.

With their MPEL application submittal, manufacturers must provide a Self-Certification Letter on their company letterhead stating their Materials/Products/Devices is compliant with MASH 2016 requirements. In addition, MDOT SHA reserves the right to perform field evaluations or testing as a part of the evaluation process. If requested, Manufacturers/Producers/Vendors must provide free samples for the evaluation process.

All Materials/Products/Devices approved are required to continue to meet the specification(s) mentioned above. In addition, [MdMUTCD](#) Section 6F.64 (14a) indicates that warning lights are not allowed on drums and cones. **MDOT SHA MPEL coordinator must be informed immediately of any changes in the composition of the Materials/Products/Devices.** After MDOT SHA has reviewed the changes, new sample(s) may be requested and submitted along with the aforementioned information.

Materials/Products/Devices representing revised formulation/specifications/standards of currently approved Qualified Materials/Products/Devices will not be accepted for testing within six (6) months of the most recent evaluation unless requested by MDOT SHA.

Materials/Products/Devices evaluated and not accepted are not eligible for resubmission within six (6) months of the most recent submittal date, unless requested and approved by MDOT SHA.

Manufacturers/Producers/Vendors of Cones are required to recertify their products every five (5) years to remain on the OOTS QPL. Recertification letters may be submitted within 6 months of the recertification date on the OOTS QPL category for Cones. If the recertification letter is not received by the applicable recertification date, the Materials/Products/Devices will be removed from the OOTS QPL.

The recertification letter shall be on the Manufacturers/Producers/Vendors company's letterhead and attest to the following:

- The Material/Product/Device is identical to the unit that has been approved by MDOT SHA
- The Material/Product/Device is still being produced and available for sale
- The Material/Product/Device properties have not changed or been altered
- Current MSDS if applicable

MDOT SHA will only allow MASH 2016 compliant Cones in contract bids and on new projects effective July 1, 2023.

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PROCEDURES FOR THE QUALIFICATION OF DRUMS

The Maryland Department of Transportation State Highway Administration (MDOT SHA) Office of Traffic and Safety (OOTS) maintains a Qualified Products List (QPL) that includes Drums. Drums shall conform to the following:

- Section 104.12 of [MDOT SHA's Standard Specifications for Construction and Materials](#)
- The applicable standards from the [Book of Standards for Highway and Incidental Structures](#).
- [AASHTO/FHWA Roadside Hardware Policy Memoranda and Guidelines](#)

If you are interested in having your Materials/Products/Devices qualified, please visit [Maryland's Product Evaluation Listing \(MPEL\)](#) and then select "Vendor Registration" to begin the process.

With their MPEL application submittal, manufacturers must provide a Self-Certification Letter on their company letterhead stating their Materials/Products/Devices is compliant with MASH 2016 requirements. In addition, MDOT SHA reserves the right to perform field evaluations or testing as a part of the evaluation process. If requested, Manufacturers/Producers/Vendors must provide free samples for the evaluation process.

All Materials/Products/Devices approved are required to continue to meet the specification(s) mentioned above. In addition, [MdMUTCD](#) Section 6F.64 (14a) indicates that warning lights are not allowed on drums and cones. **MDOT SHA MPEL coordinator must be informed immediately of any changes in the composition of the Materials/Products/Devices.** After MDOT SHA has reviewed the changes, new sample(s) may be requested and submitted along with the aforementioned information.

Materials/Products/Devices representing revised formulation/specifications/standards of currently approved Qualified Materials/Products/Devices will not be accepted for testing within six (6) months of the most recent evaluation unless requested by MDOT SHA.

Materials/Products/Devices evaluated and not accepted are not eligible for resubmission within six (6) months of the most recent submittal date, unless requested and approved by MDOT SHA.

Manufacturers/Producers/Vendors of Drums are required to recertify their products every five (5) years to remain on the OOTS QPL. Recertification letters may be submitted within 6 months of the recertification date on the OOTS QPL category for Drums. If the recertification letter is not received by the applicable recertification date, the Materials/Products/Devices will be removed from the OOTS QPL.

The recertification letter shall be on the Manufacturers/Producers/Vendors company's letterhead and attest to the following:

- The Material/Product/Device is identical to the unit that has been approved by MDOT SHA
- The Material/Product/Device is still being produced and available for sale
- The Material/Product/Device properties have not changed or been altered
- Current MSDS if applicable

MDOT SHA will only allow MASH 2016 compliant Drums in contract bids and on new projects effective July 1, 2023.

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**PROCEDURES FOR THE QUALIFICATION OF TEMPORARY
PORTABLE RUMBLE STRIPS**

The Maryland Department of Transportation State Highway Administration's (MDOT SHA) Office of Traffic and Safety (OOTS) maintains a Qualified Products List (QPL) that includes Temporary Portable Rumble Strips (TPRS). TPRS shall conform to the following:

- Special Provisions Insert 104.27 of [MDOT SHA's Standard Specifications for Construction and Materials](#)
- The applicable standards from the [Book of Standards for Highway and Incidental Structures](#)
- [AASHTO/FHWA Roadside Hardware Policy Memoranda and Guidelines](#)

If you are interested in having your Materials/Products/Devices qualified, please visit [Maryland's Product Evaluation Listing \(MPEL\)](#) and then select "Vendor Registration" to begin the process.

MDOT SHA reserves the right to perform field evaluations or testing as part of the evaluation process. If requested, Manufacturers/Producers/Vendors must provide free samples for the evaluation process.

All approved Materials/Products/Devices are required to continue to meet the requirements mentioned above. **MDOT SHA's MPEL coordinator must be informed immediately of any changes in the composition of the Materials/Products/Devices.** After OOTS has reviewed the changes, new sample(s) may be requested and submitted along with the aforementioned information.

Materials/Products/Devices representing revised formulation/specifications/standards of currently approved Qualified Materials/Products/Devices will not be accepted for testing within six (6) months of the most recent evaluation unless requested by MDOT SHA.

Materials/Products/Devices evaluated and not accepted are not eligible for resubmission within six (6) months of the most recent submittal date, unless requested and approved by MDOT SHA.

Manufacturers/Producers/Vendors of TPRS are required to recertify their products every five (5) years to remain on the OOTS QPL. Recertification letters may be submitted within 6 months of the recertification date on the OOTS QPL category for TPRS. If the recertification letter is not received by the applicable recertification date, the Materials/Products/Devices will be removed from the OOTS QPL.

The recertification letter shall be on the Manufacturers/Producers/Vendors company's letterhead and attest to the following:

- The Material/Product/Device is identical to the unit that has been approved by MDOT SHA
- The Material/Product/Device is still being produced and available for sale
- The Material/Product/Device properties have not changed or been altered
- Current MSDS if applicable

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**PROCEDURES FOR THE QUALIFICATION OF
PORTABLE TRAFFIC SIGNALS**

The Maryland Department of Transportation State Highway Administration (MDOT SHA) Office of Traffic and Safety (OOTS) maintains a Qualified Products List (QPL) that includes Portable Traffic Signals (PTS). PTS shall conform to the following:

- Section 104.30 of [MDOT SHA's Standard Specifications for Construction and Materials](#)
- The applicable standards from the [Book of Standards for Highway and Incidental Structures](#)
- [AASHTO/FHWA Roadside Hardware Policy Memoranda and Guidelines](#)

If you are interested in having your Materials/Products/Devices qualified, please visit [Maryland's Product Evaluation Listing \(MPEL\)](#) and then select "Vendor Registration" to begin the process.

No crash testing will be required for PTS until there is a MASH 2016 crash testing matrix developed for this category. SHA reserves the right to perform field evaluations or testing as a part of the evaluation process. If requested, Manufacturers/Producers/Vendors must provide free samples for the evaluation process.

All Materials/Products/Devices approved are required to continue to meet the requirements mentioned above and the compatibility requirements of the SHA Signal Shop. **MDOT SHA MPEL coordinator must be informed immediately of any changes in the composition of the Materials/Products/Devices.** After MDOT SHA has reviewed the changes, new sample(s) may be requested and submitted along with the aforementioned information.

Materials/Products/Devices representing revised formulation/specifications/standards of currently approved Qualified Products/Devices will not be accepted for testing within six (6) months of the most recent evaluation unless requested by MDOT SHA.

Materials/Products/Devices evaluated and not accepted are not eligible for resubmission within six (6) months of the most recent submittal date, unless requested and approved by MDOT SHA.

Manufacturers/Producers/Vendors of Portable Traffic Signals are required to recertify their products every five (5) years to remain on the OOTS QPL. Recertification letters may be submitted within 6 months of the recertification date on the OOTS QPL category for Portable Traffic Signals. If the recertification letter is not received by the applicable recertification date, the Materials/Products/Devices will be removed from the OOTS QPL.

The recertification letter shall be on the Manufacturers/Producers/Vendors company's letterhead and attest to the following:

- The Material/Product/Device is identical to the unit that has been approved by MDOT SHA
- The Material/Product/Device is still being produced and available for sale
- The Material/Product/Device properties have not changed or been altered
- Current MSDS if applicable

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**PROCEDURES FOR THE QUALIFICATION OF
PORTABLE VARIABLE MESSAGE SIGNS**

The Maryland Department of Transportation State Highway Administration (MDOT SHA) Office of Traffic and Safety (OOTS) maintains a Qualified Products List (QPL) that includes Portable Variable Message Signs (PVMS). PVMS shall conform to the following:

- Section 104.19 of [MDOT SHA's Standard Specifications for Construction and Materials](#)
- The applicable standards from the [Book of Standards for Highway and Incidental Structures](#)
- [AASHTO/FHWA Roadside Hardware Policy Memoranda and Guidelines](#)

If you are interested in having your Materials/Products/Devices qualified, please visit [Maryland's Product Evaluation Listing \(MPEL\)](#) and then select "Vendor Registration" to begin the process.

No crash testing will be required for PVMS until there is a MASH 2016 crash testing matrix developed for this category. SHA reserves the right to perform field evaluations or testing as a part of the evaluation process. If requested, Manufacturers/Producers/Vendors must provide free samples for the evaluation process.

All Materials/Products/Devices approved are required to continue to meet the specification(s) mentioned above. **MDOT SHA MPEL coordinator must be informed immediately of any changes in the composition of the Materials/Products/Devices.** After MDOT SHA has reviewed the changes, new sample(s) may be requested and submitted along with the aforementioned information.

Materials/Products/Devices representing revised formulation/specifications/standards of currently approved Qualified Materials/Products/Devices will not be accepted for testing within six (6) months of the most recent evaluation unless requested by MDOT SHA.

Materials/Products/Devices evaluated and not accepted are not eligible for resubmission within six (6) months of the most recent submittal date, unless requested and approved by MDOT SHA.

Manufacturers/Producers/Vendors of Portable Message Signs are required to recertify their products every five (5) years to remain on the OOTS QPL. Recertification letters may be submitted within 6 months of the recertification date on the OOTS QPL category for Portable Message Signs. If the recertification letter is not received by the applicable recertification date, the Materials/Products/Devices will be removed from the OOTS QPL.

The recertification letter shall be on the Manufacturers/Producers/Vendors company's letterhead and attest to the following:

- The Material/Product/Device is identical to the unit that has been approved by MDOT SHA
- The Material/Product/Device is still being produced and available for sale
- The Material/Product/Device properties have not changed or been altered
- Current MSDS if applicable

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**PROCEDURES FOR THE QUALIFICATION OF PROTECTION VEHICLE WITH
TRUCK-MOUNTED ATTENUATOR OR TRAILER-TRUCK MOUNTED ATTENUATOR**

The Maryland Department of Transportation State Highway Administration (MDOT SHA) Office of Traffic and Safety (OTS) maintains a Qualified Products List (QPL) which includes Protection Vehicle with Truck-Mounted Attenuator (TMA) or Trailer Truck-Mounted Attenuator (TTMA). TMA/TTMA shall conform to the following:

- Section 104.23 of [MDOT SHA Standard Specifications for Construction and Materials](#)
- The applicable standards from the [Book of Standards for Highway and Incidental Structures](#)
- [AASHTO/FHWA Roadside Hardware Policy Memoranda and Guidelines](#)

If you are interested in having your product qualified, please visit [Maryland's Product Evaluation Listing \(MPEL\)](#) and then select "Vendor Registration" to begin the process.

TMA/TTMA evaluations require Manual for Assessing Safety Hardware (MASH) 2016 Federal Highway Administration (FHWA) Eligibility Letter before acceptance. In addition, OTS reserves the right to perform field evaluations or testing as a part of the evaluation process. If requested, Manufacturers/Producers/Vendors must provide free samples for the evaluation process.

All Materials/Products/Devices approved are required to continue to meet the requirements mentioned above and in accordance with the FHWA Eligibility Letter. **The MDOT SHA MPEL coordinator must be informed immediately of any changes in the design, hardware, or composition of the Materials/Products/Devices.** Any modifications made to the Materials/Products/Devices after receiving the FHWA Eligibility Letter will require one of the following options below for approval consideration:

- Resubmit the Materials/Products/Devices with the modification(s) to FHWA for MASH 2016 testing in accordance with the Lane Separator System criteria. Please provide the FHWA Eligibility Letter after the testing is completed and passed.
- Hire an independent Licensed Engineer with no financial affiliation to the Manufacturer/Producer/Vendor to validate that the modification(s) continue to meet the MASH 2016 requirements for Lane Separator System. The Licensed Engineer will certify and sign that the Materials/Products/Devices meet the MASH 2016 criteria.
- Submit the Materials/Products/Devices to an independent certified testing facility with no financial affiliation to the Manufacturer/Producer/Vendor to certify the Materials/Products/Devices continue to meet the MASH 2016 requirements for Lane Separator Systems. The facility will certify the Materials/Products/Devices meet the MASH 2016 testing criteria.

Materials/Products/Devices representing revised formulation/specifications/standards of currently approved Qualified Products/Devices will not be accepted for testing within six (6) months of the most recent evaluation unless requested by MDOT SHA.

Materials/Products/Devices evaluated and not accepted are not eligible for resubmission within six (6) months of the most recent submittal date, unless requested and approved by MDOT SHA.

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**PROCEDURES FOR THE QUALIFICATION OF PROTECTION VEHICLE WITH
TRUCK-MOUNTED ATTENUATOR OR TRAILER-TRUCK MOUNTED ATTENUATOR**

Manufacturers/Producers/Vendors of TMA/TTMA are required to recertify their products every three (3) years to remain on the OOTS QPL. Recertification letters may be submitted within 6 months of the recertification date on the OOTS QPL category for TMA/TTMA. If the recertification letter is not received by the applicable recertification date, the Materials/Products/Devices will be removed from the OOTS QPL.

The recertification letter shall be on the Manufacturers/Producers/Vendors company's letterhead and attest to the following:

- The Material/Product/Device is identical to the unit that has been approved by MDOT SHA
- The Material/Product/Device is still being produced and available for sale
- The Material/Product/Device properties have not changed or been altered
- Current MSDS if applicable

MDOT SHA will only allow MASH 2016 compliant TMA/TTMA in contract bids and on new projects effective July 1, 2027.

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**PROCEDURES FOR THE QUALIFICATION OF
SPEED DISPLAY TRAILER**

The Maryland Department of Transportation State Highway Administration (MDOT SHA) Office of Traffic and Safety (OOTS) maintains a Qualified Products List (QPL) that includes Speed Display Trailer (SDT). SDT shall conform to the following:

- Section 104.28 of [MDOT SHA's Standard Specifications for Construction and Materials](#)
- The applicable standards from the [Book of Standards for Highway and Incidental Structures](#)
- [AASHTO/FHWA Roadside Hardware Policy Memoranda and Guidelines](#)

If you are interested in having your Materials/Products/Devices qualified, please visit [Maryland's Product Evaluation Listing \(MPEL\)](#) and then select "Vendor Registration" to begin the process.

No crash testing will be required for SDT until there is a MASH 2016 crash testing matrix developed for this category. MDOT SHA reserves the right to perform field evaluations or testing as a part of the evaluation process. If requested, Manufacturers/Producers/Vendors must provide free samples for the evaluation process.

All Materials/Products/Devices approved are required to continue to meet the specification(s) mentioned above. **MDOT SHA's MPEL coordinator must be informed immediately of any changes in the composition of the Materials/Products/Devices.** After MDOT SHA has reviewed the changes, new sample(s) may be requested and submitted along with the aforementioned information.

Materials/Products/Devices representing revised formulation/specifications/standards of currently approved Qualified Materials/Products/Devices will not be accepted for testing within six (6) months of the most recent evaluation unless requested by MDOT SHA.

Materials/Products/Devices evaluated and not accepted are not eligible for resubmission within six (6) months of the most recent submittal date, unless requested and approved by MDOT SHA.

Manufacturers/Producers/Vendors of SDT are required to recertify their products every five (5) years to remain on the OOTS QPL. Recertification letters may be submitted within 6 months of the recertification date on the OOTS QPL category for SDT. If the recertification letter is not received by the applicable recertification date, the Materials/Products/Devices will be removed from the OOTS QPL.

The recertification letter shall be on the Manufacturers/Producers/Vendors company's letterhead and attest to the following:

- The Material/Product/Device is identical to the unit that has been approved by MDOT SHA
- The Material/Product/Device is still being produced and available for sale
- The Material/Product/Device properties have not changed or been altered
- Current MSDS if applicable

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**PROCEDURES FOR THE QUALIFICATION OF
TEMPORARY CONCRETE TRAFFIC BARRIERS**

The Maryland Department of Transportation State Highway Administration (MDOT SHA) Office of Traffic and Safety (OOTS) maintains a Qualified Products List (QPL) that includes Temporary Concrete Traffic Barriers. Temporary Concrete Traffic Barriers shall conform to the following:

- Section 104.04 of [MDOT SHA's Standard Specifications for Construction and Materials](#)
- The applicable standards from the [Book of Standards for Highway and Incidental Structures](#)
- [AASHTO/FHWA Roadside Hardware Policy Memoranda and Guidelines](#)

If you are interested in having your Materials/Products/Devices qualified, please visit [Maryland's Product Evaluation Listing \(MPEL\)](#) and then select "Vendor Registration" to begin the process.

Temporary Concrete Traffic Barriers evaluations require Manual for Assessing Safety Hardware (MASH) 2016 Federal Highway Administration (FHWA) Eligibility Letter before acceptance. In addition, OOTS reserves the right to perform field evaluations or testing as a part of the evaluation process. If requested, Manufacturers/Producers/Vendors must provide free samples for the evaluation process.

All Materials/Products/Devices approved are required to continue to meet the requirements mentioned above and in accordance with the FHWA Eligibility Letter. **The MDOT SHA MPEL coordinator must be informed immediately of any changes in the design, hardware, or composition of the Materials/Products/Devices.** Any modifications made to the Materials/Products/Devices after receiving the FHWA Eligibility Letter will require one of the following options below for approval consideration:

- Resubmit the Materials/Products/Devices with the modification(s) to FHWA for MASH 2016 testing in accordance with the Lane Separator System criteria. Please provide the FHWA Eligibility Letter after the testing is completed and passed.
- Hire an independent Licensed Engineer with no financial affiliation to the Manufacturer/Producer/Vendor to validate that the modification(s) continue to meet the MASH 2016 requirements for Lane Separator System. The Licensed Engineer will certify and sign that the Materials/Products/Devices meet the MASH 2016 criteria.
- Submit the Materials/Products/Devices to an independent certified testing facility with no financial affiliation to the Manufacturer/Producer/Vendor to certify the Materials/Products/Devices continue to meet the MASH 2016 requirements for Lane Separator Systems. The facility will certify the Materials/Products/Devices meet the MASH 2016 testing criteria.

Materials/Products/Devices representing revised formulation/specifications/standards of currently approved Qualified Products/Devices will not be accepted for testing within six (6) months of the most recent evaluation unless requested by MDOT SHA.

Materials/Products/Devices evaluated and not accepted are not eligible for resubmission within six (6) months of the most recent submittal date, unless requested and approved by MDOT SHA.

MARYLAND STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC AND SAFETY
7491 Connelley Drive
Hanover, MD 21076

**PROCEDURES FOR THE QUALIFICATION OF
TEMPORARY CONCRETE TRAFFIC BARRIERS**

Manufacturers/Producers/Vendors of Temporary Concrete Traffic Barriers are required to recertify their products every three (3) years to remain on the OOTS QPL. Recertification letters may be submitted within 6 months of the recertification date on the OOTS QPL category for Temporary Concrete Traffic Barriers. If the recertification letter is not received by the applicable recertification date, the Materials/Products/Devices will be removed from the OOTS QPL.

The recertification letter shall be on the Manufacturers/Producers/Vendors company's letterhead and attest to the following:

- The Material/Product/Device is identical to the unit that has been approved by MDOT SHA
- The Material/Product/Device is still being produced and available for sale
- The Material/Product/Device properties have not changed or been altered
- Current MSDS if applicable

MDOT SHA will only allow MASH 2016 compliant Temporary Concrete Traffic Barriers in contract bids and on new projects effective July 1, 2027.

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Hanover, MD 21076

**PROCEDURES FOR THE QUALIFICATION OF TEMPORARY
CRASH CUSHIONS SAND FILLED PLASTIC BARRELS**

The Maryland Department of Transportation State Highway Administration (MDOT SHA) Office of Traffic and Safety (OOTS) maintains a Qualified Products List (QPL) which includes Temporary Crash Cushion Sand Filled Plastic Barrels (SFPB). SFPB shall conform to the following:

- Section 104.10 of [MDOT SHA's Standard Specifications for Construction and Materials](#)
- The applicable standards from the [Book of Standards for Highway and Incidental Structures](#)
- [AASHTO/FHWA Roadside Hardware Policy Memoranda and Guidelines](#)

If you are interested in having your Materials/Products/Devices qualified, please visit [Maryland's Product Evaluation Listing \(MPEL\)](#) and then select "Vendor Registration" to begin the process.

SFPB evaluations require Manual for Assessing Safety Hardware (MASH) 2016 Federal Highway Administration (FHWA) Eligibility Letter before acceptance. In addition, OOTS reserves the right to perform field evaluations or testing as a part of the evaluation process. If requested, Manufacturers/Producers/Vendors must provide free samples for the evaluation process.

All Materials/Products/Devices approved are required to continue to meet the requirements mentioned above and in accordance with the FHWA Eligibility Letter. **The MDOT SHA MPEL coordinator must be informed immediately of any changes in the design, hardware, or composition of the Materials/Products/Devices.** Any modifications made to the Materials/Products/Devices after receiving the FHWA Eligibility Letter will require one of the following options below for approval consideration:

- Resubmit the Materials/Products/Devices with the modification(s) to FHWA for MASH 2016 testing in accordance with the Lane Separator System criteria. Please provide the FHWA Eligibility Letter after the testing is completed and passed.
- Hire an independent Licensed Engineer with no financial affiliation to the Manufacturer/Producer/Vendor to validate that the modification(s) continue to meet the MASH 2016 requirements for Lane Separator System. The Licensed Engineer will certify and sign that the Materials/Products/Devices meet the MASH 2016 criteria.
- Submit the Materials/Products/Devices to an independent certified testing facility with no financial affiliation to the Manufacturer/Producer/Vendor to certify the Materials/Products/Devices continue to meet the MASH 2016 requirements for Lane Separator Systems. The facility will certify the Materials/Products/Devices meet the MASH 2016 testing criteria.

Materials/Products/Devices representing revised formulation/specifications/standards of currently approved Qualified Products/Devices will not be accepted for testing within six (6) months of the most recent evaluation unless requested by MDOT SHA.

Materials/Products/Devices evaluated and not accepted are not eligible for resubmission within six (6) months of the most recent submittal date, unless requested and approved by MDOT SHA.

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**PROCEDURES FOR THE QUALIFICATION OF TEMPORARY
CRASH CUSHIONS SAND FILLED PLASTIC BARRELS**

Manufacturers/Producers/Vendors of SFPB are required to recertify their products every three (3) years to remain on the OOTS QPL. Recertification letters may be submitted within 6 months of the recertification date on the OOTS QPL category for SFPB. If the recertification letter is not received by the applicable recertification date, the Materials/Products/Devices will be removed from the OOTS QPL.

The recertification letter shall be on the Manufacturers/Producers/Vendors company's letterhead and attest to the following:

- The Material/Product/Device is identical to the unit that has been approved by MDOT SHA
- The Material/Product/Device is still being produced and available for sale
- The Material/Product/Device properties have not changed or been altered
- Current MSDS if applicable

MDOT SHA will only allow MASH 2016 compliant SFPB in contract bids and on new projects effective July 1, 2026.

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**PROCEDURES FOR THE QUALIFICATION OF
TEMPORARY STEEL TRAFFIC BARRIERS**

The Maryland Department of Transportation State Highway Administration (MDOT SHA) Office of Traffic and Safety (OOTS) maintains a Qualified Products List (QPL) that includes Temporary Steel Traffic Barriers. Temporary Steel Traffic Barriers shall conform to the following:

- MDOT SHA [Special Provision Specifications for Construction and Materials](#)
- The applicable standards from the [Book of Standards for Highway and Incidental Structures](#)
- [AASHTO/FHWA Roadside Hardware Policy Memoranda and Guidelines](#)

If you are interested in having your Materials/Products/Devices qualified, please visit [Maryland's Product Evaluation Listing \(MPEL\)](#) and then select "Vendor Registration" to begin the process.

Temporary Steel Traffic Barrier evaluations require Manual for Assessing Safety Hardware (MASH) 2016 Federal Highway Administration (FHWA) Eligibility Letter before acceptance. In addition, OOTS reserves the right to perform field evaluations or testing as a part of the evaluation process. If requested, Manufacturers/Producers/Vendors must provide free samples for the evaluation process.

All Materials/Products/Devices approved are required to continue to meet the requirements mentioned above and in accordance with the FHWA Eligibility Letter. **The MDOT SHA MPEL coordinator must be informed immediately of any changes in the design, hardware, or composition of the Materials/Products/Devices.** Any modifications made to the Materials/Products/Devices after receiving the FHWA Eligibility Letter will require one of the following options below for approval consideration:

- Resubmit the Materials/Products/Devices with the modification(s) to FHWA for MASH 2016 testing in accordance with the Lane Separator System criteria. Please provide the FHWA Eligibility Letter after the testing is completed and passed.
- Hire an independent Licensed Engineer with no financial affiliation to the Manufacturer/Producer/Vendor to validate that the modification(s) continue to meet the MASH 2016 requirements for Lane Separator System. The Licensed Engineer will certify and sign that the Materials/Products/Devices meet the MASH 2016 criteria.
- Submit the Materials/Products/Devices to an independent certified testing facility with no financial affiliation to the Manufacturer/Producer/Vendor to certify the Materials/Products/Devices continue to meet the MASH 2016 requirements for Lane Separator Systems. The facility will certify the Materials/Products/Devices meet the MASH 2016 testing criteria.

Materials/Products/Devices representing revised formulation/specifications/standards of currently approved Qualified Products/Devices will not be accepted for testing within six (6) months of the most recent evaluation unless requested by MDOT SHA.

Materials/Products/Devices evaluated and not accepted are not eligible for resubmission within six (6) months of the most recent submittal date, unless requested and approved by MDOT SHA.

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Hanover, MD 21076

**PROCEDURES FOR THE QUALIFICATION OF
TEMPORARY STEEL TRAFFIC BARRIERS**

Manufacturers/Producers/Vendors of Temporary Steel Traffic Barriers are required to recertify their products every three (3) years to remain on the OOTS QPL. Recertification letters may be submitted within 6 months of the recertification date on the OOTS QPL category for Temporary Steel Traffic Barriers. If the recertification letter is not received by the applicable recertification date, the Materials/Products/Devices will be removed from the OOTS QPL.

The recertification letter shall be on the Manufacturers/Producers/Vendors company's letterhead and attest to the following:

- The Material/Product/Device is identical to the unit that has been approved by MDOT SHA
- The Material/Product/Device is still being produced and available for sale
- The Material/Product/Device properties have not changed or been altered
- Current MSDS if applicable

MDOT SHA will only allow MASH 2016 compliant Temporary Steel Traffic Barriers in contract bids and on new projects effective July 1, 2026.

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PROCEDURES FOR THE QUALIFICATION OF TEMPORARY TRAFFIC SIGNS

The Maryland Department of Transportation State Highway Administration's (MDOT SHA) Office of Traffic and Safety (OOTS) maintains a Qualified Products List (QPL) which includes Temporary Traffic Signs. Temporary Traffic Signs shall conform to the following:

- Section 104.08 of [MDOT SHA's Standard Specifications for Construction and Materials Manual](#)
- The applicable standards from the [Book of Standards for Highway and Incidental Structures](#)
- [AASHTO/FHWA Roadside Hardware Policy Memoranda and Guidelines](#)

If you are interested in having your product qualified, please visit [Maryland's Product Evaluation Listing \(MPEL\)](#) and then select "Vendor Registration" to begin the process.

Temporary Traffic Signs evaluations requires Manual for Assessing Safety Hardware (MASH) 2016 Federal Highway Administration (FHWA) Eligibility Letter before acceptance. MDOT SHA reserves the right to perform field evaluations or testing as a part of the evaluation process. If requested, Manufacturers/Vendors must provide free samples for the evaluation process.

All Materials/Products/Devices approved are required to continue to meet the requirements mentioned above and in accordance with the FHWA Eligibility Letter. **The MDOT SHA MPEL coordinator must be informed immediately of any changes in the design, hardware, or composition of the Materials/Products/Devices.** Any modifications made to the Materials/Products/Devices after receiving the FHWA Eligibility Letter will require one of the following options below for approval consideration:

- Resubmit the Materials/Products/Devices with the modification(s) to FHWA for MASH 2016 testing in accordance with the Lane Separator System criteria. Please provide the FHWA Eligibility Letter after the testing is completed and passed.
- Hire an independent Licensed Engineer with no financial affiliation to the Manufacturer/Producer/Vendor to validate that the modification(s) continue to meet the MASH 2016 requirements for Lane Separator System. The Licensed Engineer will certify and sign that the Materials/Products/Devices meet the MASH 2016 criteria.
- Submit the Materials/Products/Devices to an independent certified testing facility with no financial affiliation to the Manufacturer/Producer/Vendor to certify the Materials/Products/Devices continue to meet the MASH 2016 requirements for Lane Separator Systems. The facility will certify the Materials/Products/Devices meet the MASH 2016 testing criteria.

Materials/Products/Devices representing revised formulation/specifications/standards of currently approved Qualified Products/Devices will not be accepted for testing within six (6) months of the most recent evaluation unless requested by MDOT SHA.

Materials/Products/Devices evaluated and not accepted are not eligible for resubmission within six (6) months of the most recent submittal date, unless requested and approved by MDOT SHA.

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PROCEDURES FOR THE QUALIFICATION OF TEMPORARY TRAFFIC SIGNS

Manufacturers/Producers/Vendors of Temporary Traffic Signs are required to recertify their products every five (5) years to remain on the OOTS QPL. Recertification letters may be submitted within 6 months of the recertification date on the OOTS QPL category for Temporary Traffic Signs. If the recertification letter is not received by the applicable recertification date, the Materials/Products/Devices will be removed from the OOTS QPL.

The recertification letter shall be on the Manufacturers/Producers/Vendors company's letterhead and attest to the following:

- The Material/Product/Device is identical to the unit that has been approved by MDOT SHA
- The Material/Product/Device is still being produced and available for sale
- The Material/Product/Device properties have not changed or been altered
- Current MSDS if applicable

MDOT SHA will only allow MASH 2016 compliant Temporary Traffic Signs in contract bids and on new projects effective July 1, 2025.

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**PROCEDURES FOR THE QUALIFICATION OF
TRUCK MOUNTED VARIABLE MESSAGE SIGNS**

The Maryland Department of Transportation State Highway Administration (MDOT SHA) Office of Traffic and Safety (OOTS) maintains a Qualified Products List (QPL) that includes Truck Mounted Variable Message Signs (TVMS). TVMS shall conform to the following:

- Section 104.29 of [MDOT SHA's Standard Specifications for Construction and Materials](#)
- The applicable standards from the [Book of Standards for Highway and Incidental Structures](#)
- [AASHTO/FHWA Roadside Hardware Policy Memoranda and Guidelines](#)

If you are interested in having your Materials/Products/Devices qualified, please visit [Maryland's Product Evaluation Listing \(MPEL\)](#) and then select "Vendor Registration" to begin the process.

No crash testing will be required for TVMS until there is a MASH 2016 crash testing matrix developed for this category. MDOT SHA reserves the right to perform field evaluations or testing as a part of the evaluation process. If requested, Manufacturers/Producers/Vendors must provide free samples for the evaluation process.

All Materials/Products/Devices approved are required to continue to meet the specification(s) mentioned above. **MDOT SHA MPEL coordinator must be informed immediately of any changes in the composition of the Materials/Products/Devices.** After OOTS has reviewed the changes, new sample(s) may be requested and submitted along with the aforementioned information.

Materials/Products/Devices representing revised formulation/specifications/standards of currently approved Qualified Products/Devices will not be accepted for testing within six (6) months of the most recent evaluation unless requested by MDOT SHA.

Materials/Products/Devices evaluated and not accepted are not eligible for resubmission within six (6) months of the most recent submittal date, unless requested and approved by MDOT SHA.

Manufacturers/Producers/Vendors of TVMS are required to recertify their products every five (5) years to remain on the OOTS QPL. Recertification letters may be submitted within 6 months of the recertification date on the OOTS QPL category for TVMS. If the recertification letter is not received by the applicable recertification date, the Materials/Products/Devices will be removed from the OOTS QPL.

The recertification letter shall be on the Manufacturers/Producers/Vendors company's letterhead and attest to the following:

- The Material/Product/Device is identical to the unit that has been approved by MDOT SHA
- The Material/Product/Device is still being produced and available for sale
- The Material/Product/Device properties have not changed or been altered
- Current MSDS if applicable

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PROCEDURES FOR THE QUALIFICATION OF TUBULAR MARKERS

The Maryland Department of Transportation State Highway Administration (MDOT SHA) Office of Traffic and Safety (OOTS) maintains a Qualified Products List (QPL) that includes Tubular Markers. Tubular Markers shall conform to the following:

- Section 104.06 of [MDOT SHA's Standard Specifications for Construction and Materials](#)
- The applicable standards from the [Book of Standards for Highway and Incidental Structures](#)
- [AASHTO/FHWA Roadside Hardware Policy Memoranda and Guidelines](#)

If you are interested in having your product qualified, please visit [Maryland's Product Evaluation Listing \(MPEL\)](#) and then select "Vendor Registration" to begin the process.

No crash testing will be required for Tubular Markers until there is a MASH 2016 crash testing matrix developed. With their MPEL application submittal, manufacturers must provide a Self-Certification Letter on their company letterhead stating their product is compliant with MASH 2016 requirements. In addition, MDOT SHA reserves the right to perform field evaluations or testing as a part of the evaluation process. If requested, Manufacturers/Products/Vendors must provide free samples for the evaluation process.

All Materials/Products/Devices approved are required to continue to meet the specification(s) mentioned above. **MDOT SHA MPEL coordinator must be informed immediately of any changes in the composition of the Materials/Products/Devices.** After OOTS has reviewed the changes, new sample(s) may be requested and submitted along with the aforementioned information.

Materials/Products/Devices representing revised formulation/specifications/standards of currently approved Qualified Materials/Products/Devices will not be accepted for testing within six (6) months of the most recent evaluation unless requested by MDOT SHA.

Materials/Products/Devices evaluated and not accepted are not eligible for resubmission within six (6) months of the most recent submittal date, unless requested and approved by MDOT SHA.

Manufacturers/Producers/Vendors of Tubular Markers are required to recertify their products every five (5) years to remain on the OOTS QPL. Recertification letters may be submitted within 6 months of the recertification date on the OOTS QPL category for Tubular Markers. If the recertification letter is not received by the applicable recertification date, the Materials/Products/Devices will be removed from the OOTS QPL.

The recertification letter shall be on the Manufacturers/Producers/Vendors company's letterhead and attest to the following:

- The Material/Product/Device is identical to the unit that has been approved by MDOT SHA
- The Material/Product/Device is still being produced and available for sale
- The Material/Product/Device properties have not changed or been altered
- Current MSDS if applicable

MDOT SHA will only allow MASH 2016 compliant Tubular Markers in contract bids and new projects effective July 1, 2023.

MARYLAND STATE HIGHWAY ADMINISTRATION
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**PROCEDURES FOR THE QUALIFICATION OF
WATER-FILLED BARRIERS**

The Maryland Department of Transportation State Highway Administration's (MDOT SHA) Office of Traffic and Safety (OOTS) maintains a Qualified Products List (QPL) that includes Water-Filled Barriers. Water-Filled Barriers shall conform to the following:

- MDOT SHA [Special Provision Specifications for Construction and Materials](#)
- The applicable standards from the [Book of Standards for Highway and Incidental Structures](#)
- [AASHTO/FHWA Roadside Hardware Policy Memoranda and Guidelines](#)

If you are interested in having your Materials/Products/Devices qualified, please visit [Maryland's Product Evaluation Listing \(MPEL\)](#) and then select "Vendor Registration" to begin the process.

Water-Filled Barriers evaluations require Manual for Assessing Safety Hardware (MASH) 2016 Federal Highway Administration (FHWA) Eligibility Letter before acceptance. In addition, OOTS reserves the right to perform field evaluations or testing as a part of the evaluation process. If requested, manufacturers/vendors must provide free samples for the evaluation process.

All Materials/Products/Devices approved are required to continue to meet the requirements mentioned above and in accordance with the FHWA Eligibility Letter. **The MDOT SHA MPEL coordinator must be informed immediately of any changes in the design, hardware, or composition of the Materials/Products/Devices.** Any modifications made to the Materials/Products/Devices after receiving the FHWA Eligibility Letter will require one of the following options below for approval consideration:

- Resubmit the Materials/Products/Devices with the modification(s) to FHWA for MASH 2016 testing in accordance with the Lane Separator System criteria. Please provide the FHWA Eligibility Letter after the testing is completed and passed.
- Hire an independent Licensed Engineer with no financial affiliation to the Manufacturer/Producer/Vendor to validate that the modification(s) continue to meet the MASH 2016 requirements for Lane Separator System. The Licensed Engineer will certify and sign that the Materials/Products/Devices meet the MASH 2016 criteria.
- Submit the Materials/Products/Devices to an independent certified testing facility with no financial affiliation to the Manufacturer/Producer/Vendor to certify the Materials/Products/Devices continue to meet the MASH 2016 requirements for Lane Separator Systems. The facility will certify the Materials/Products/Devices meet the MASH 2016 testing criteria.

Materials/Products/Devices representing revised formulation/specifications/standards of currently approved Qualified Products/Devices will not be accepted for testing within six (6) months of the most recent evaluation unless requested by MDOT SHA.

Materials/Products/Devices evaluated and not accepted are not eligible for resubmission within six (6) months of the most recent submittal date, unless requested and approved by MDOT SHA.

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**PROCEDURES FOR THE QUALIFICATION OF
WATER-FILLED BARRIERS**

Manufacturers/Producers/Vendors of Water-Filled Barriers are required to recertify their products every three (3) years to remain on the OOTS QPL. Recertification letters may be submitted within 6 months of the recertification date on the OOTS QPL category for Water-Filled Barriers. If the recertification letter is not received by the applicable recertification date, the Materials/Products/Devices will be removed from the OOTS QPL.

The recertification letter shall be on the Manufacturers/Producers/Vendors company's letterhead and attest to the following:

- The Material/Product/Device is identical to the unit that has been approved by MDOT SHA
- The Material/Product/Device is still being produced and available for sale
- The Material/Product/Device properties have not changed or been altered
- Current MSDS if applicable

MDOT SHA will only allow MASH 2016 compliant Water-Filled Barriers in contract bids and on new projects effective July 1, 2026.

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**CATEGORY 100
PRELIMINARY**

WATER FILLED BARRIER (WFB) FOR MAINTENANCE OF TRAFFIC

DESCRIPTION. This work shall consist of furnishing, placing, resetting, and removing WFBs for use at locations specified in the Contract Documents, or as directed by the Engineer.

MATERIALS.

Vertical Panels, Reflective
Barrier Markers, Warning Lights and
Water Filled Barrier

As approved by the Office
of Traffic and Safety

CONSTRUCTION. The Contractor shall maintain WFBs in alignment and in a like new condition acceptable to the Engineer.

Resetting WFBs shall consist of removing and relocating WFBs as directed by the Engineer.

Items such as reflective barrier markers, vertical panels (object markers), and warning lights shall be installed on the WFB as specified in the Contract Documents.

The WFB shall be tested and certified by FHWA, to conform to MASH 2016, Test Level (TL) 3 for barriers. The WFB shall be assembled in conformance with the manufacturer's instructions to conform to TL 3. All accessory kits necessary for the barrier to conform to TL 3 shall be provided.

Water to be used in the WFBs may be treated with anti-freeze. Water and anti-freeze solutions shall conform to the recommendations of the WFB manufacturer. Water shall not be drained onto open roadway at any time. Water treated with anti-freeze shall be pumped from the barrier and disposed of at a location that conforms to all applicable environmental regulations.

MEASUREMENT AND PAYMENT.

- (a) Water Filled Barrier will be measured and paid for at the Contract unit price per linear foot measured along the center line of the top of the barrier. The payment will be full compensation for furnishing, placing, maintaining, and removal from the project site as directed by the Engineer, water, anti-freeze, and for all material, labor, equipment, tools, and incidentals necessary to complete the work.
- (b) Reflective Barrier Markers, Vertical Panels, and Warning Lights will be measured and paid for at the Contract unit price per each. The payment will be full compensation for furnishing, placing, maintaining and removal from the project site as directed by the Engineer and for all materials, labor, equipment, tools, and incidentals necessary to complete the work.
- (c) Reset Water Filled Barrier will be measured and paid for at the Contract unit price per linear foot measured along the center line of the top of the barrier. The payment will be full compensation for removal from its original placement, transporting and resetting it in its new temporary location, applicable portions of (a) above, and for all material, labor, equipment, tools, and incidentals necessary to complete the work.