

9900100 TEMPORARY TRAFFICE CONTROL DEVICE MATERIALS
COMMENTS FROM INTERNAL/INDUSTRY REVIEW

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Comments: (5-20-19, Internal)

Vehicular Longitudinal Channeling Devices should be exempt from the sheeting requirement. Remove the photographs, on the APL, currently and in the future, that depict the LCD's with reflective sheeting.

Under this description, it does not allow for a temporary asphalt separator. This should be corrected or linked to the asphalt type elsewhere.

Response: (7-10-19) Per the MUTCD, all vehicular LCDs should have retroreflective sheeting. The pedestrian LCD photographs will be revised. The option to use asphalt for temporary lane separators is shown in Standard Plans, Index 102-600. Portable temporary lane separators are reviewed for the APL and must have material requirements in the Specifications. No change made.

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Comments: (6-14-19, Industry)

1. 990-2.1.4 - 1st Sentence : Include the word "Section" before 900-8 2. 990-3.1 - #6. - 1st Sentence : include reference to retro-reflectivity requirement specification # after "retro-reflectivity material". 3. 990-17.2 - #d : Installation drawing should show how drainage is accomplished with field application.

Response: (7-10-19)

1. Section is not required in that context. No change made.
2. Revised sentence to more closely align with 102-5.9. Change made.
3. The requirement for drainage openings is currently handled via Standard Plans, Index 102-600. No change made.

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Comments: (6-17-19, Industry)

Currently there are no standards set forth to test and/or approve portable changeable message signs and trailer mounted flashing arrow panels to MASH standards. How will the DOT exclude such products with a sweeping statement of All Products to be MASH compliant?

Response: (7-10-19) Specification 102-9.1 states that devices must be MASH compliant in accordance with the requirements of Section 990. There is currently no testing requirement in Section 990 for PCMSs or arrow boards. No change made.

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Comments: (6-21-19, Industry)

Comments listed below speak specifically to Section 990-3 Portable Devices (Arrow Boards, Changeable Message Signs, Regulatory Signs, Radar Speed Display Units and Truck Mounted Changeable Message Signs). 990-3.1 General: "All portable devices shall meet the physical display and operational requirements of the Manual on Uniform Traffic Control Devices (MUTCD) and be listed on the Department's Approved Product List (APL). Manufacturers seeking evaluation of their product shall submit an application in accordance with Section 6 and include the following:" Comment: Please clarify Section 6. Is this Section 6 of the MUTCD? 990-3.1: "1. Certification showing that the product meets the requirements of this Section." Comment: Please explain and clarify the Certification? (APL certification?). Please name and clarify the Section? (Section 990-3). 990-3.1: "2.1. Ensure that all assembly hardware less than 5/8 inch in diameter, including nuts, bolts, external screws and locking washers are Type 304 or 316 passivated stainless steel. Stainless steel bolts, screws and studs shall meet ASTM F593. Nuts shall meet ASTM F594. All assembly hardware greater than or equal to 5/8 inch in diameter shall be galvanized. Bolts, studs, and threaded rod shall meet ASTM A307. Structural bolts shall meet ASTM F3125, Grade A325. Comment: Does this specification include mounting bracket hardware? 990-3.1: "2.2. The controllers and associated on-board circuitry shall meet the requirements of the Federal Communications Commission (FCC) Title 47, Subpart B, Section 15 regulations concerning the emission of electronic noise by Class A digital devices. All electronic assemblies shall meet the requirements of NEMA TS-4-2016 Section 2." Comment: (Any Questions Jordan?) 990-3.1: "2.6. Portable devices and trailers shall be delineated on a permanent basis by affixing retroreflective material, known as conspicuity material, in a continuous line on the face of the trailer as seen by oncoming road users." Comment: Clarification: Since truck mounted changeable message signs are permanently affixed to a vehicle, are they exempt from this requirement.

Response: (7-10-19) Unless otherwise stated, the term "section" always denotes a section of the Specifications. In this case, it is referring to Section 6 of the Standard Specifications.

Certification is documents or testing reports to show that the device conforms to the device requirements in Section 990. Some items such as hardware are difficult to evaluate and should be certified as meeting the requirements. As the #6 specifically references "portable devices and trailers", it does not include a requirement for truck-mounted PCMSs beyond those stated in 102-5.9. No change made.
