

# EXPECTED IMPLEMENTATION JULY 2015

## 948 OPTIONAL DRAINAGE PRODUCTS AND LINER REPAIR SYSTEMS. (REV 10-29-14) (FA 2-9-15) (7-15)

SUBARTICLE 948-1.7 is deleted and the following substituted:

**948-1.7 PVC Pipe (12 Inches to 48 Inches):** PVC pipe for side drain, cross drain, storm drain and other specified applications shall conform to AASHTO M278 for smooth wall PVC pipe or ASTM F949 for PVC ribbed pipe. Resin shall contain a minimum of 1.5% by weight of titanium dioxide for UV protection. Mitered end sections are not to be constructed of PVC.

PVC pipe shall be installed within two years from the date of manufacture.

Obtain pipe from a production facility that is listed on the Department's Production Facility Listing. Producers seeking inclusion shall meet the requirements of Section 105.

SUBARTICLE 948-2.3.1 is deleted and the following substituted:

**948-2.3.1 General:** Class I (50 year) corrugated polyethylene pipe used for side drain, storm and cross drain or french drain shall meet the requirements of AASHTO M294 and plant certification from the National Transportation Product Evaluation Program (NTPEP). Corrugations shall be annular. Pipe resin shall conform to ASTM D3350 with a minimum cell classification 435400C and between 2% to 4% carbon black. Mitered end sections are not to be constructed of polyethylene.

Obtain pipe from a production facility that is listed on the Department's Production Facility Listing. Producers seeking inclusion shall meet the requirements of Section 105.

SUBARTICLE 948-2.4.1 is deleted and the following substituted:

**948-2.4.1 General:** Steel reinforced polyethylene ribbed pipe used for side drain, storm and cross drain or french drain shall meet the requirements of AASHTO MP20-13 or ASTM F-2562 and the testing requirements for stress crack and oxidation resistance in Table 1. Pipe resin shall conform to ASTM D3350 with a minimum cell classification 435400C and between 2% to 4% carbon black. Mitered end sections are not to be constructed of steel reinforced polyethylene ribbed pipe.

Obtain pipe from a production facility that is listed on the Department's Production Facility Listing. Producers seeking inclusion shall meet the requirements of Section 105.

SUBARTICLE 948-7.1 is deleted and the following substituted:

**948-7.1 Class I PP:** Class I (50 year) PP pipe used for side drain, cross drain, storm drain, and french drain shall meet the requirements of AASHTO M330 and plant certification

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from the NTPEP. Corrugations shall be annular. Polypropylene compound shall conform to the requirements of ASTM F2881. Mitered end sections are not to be constructed of polypropylene.

Obtain pipe from a production facility that is listed on the Department's Production Facility Listing. Producers seeking inclusion shall meet the requirements of Section 105.

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