

SUPPLEMENTAL SPECIFICATION**AMENDMENT TO SECTION 605 -- UNDERDRAINS**

The purpose of this Supplemental Specification is to once again allow polypropylene pipe.

Amend 605.2 to read:

Materials**2.1 Plastic Pipe.**

2.1.1 Manufacturers of plastic pipe must participate in and maintain compliance with, the AASHTO “National Transportation Product Evaluation Program” (NTPEP) that audits producers of plastic pipe.

2.1.2 Polyvinyl Chloride (PVC) Smooth-wall perforated and un-perforated polyvinyl chloride pipe, bends and cleanouts shall conform to AASHTO M 278. Perforated polyvinyl chloride profile wall pipe shall conform to AASHTO M 304.

2.1.3 Polyethylene (PE). Polyethylene drainage tubing 6” in diameter shall conform to AASHTO M 252, Type SP, with either Class 1 or Class 2 perforations. Perforated corrugated polyethylene pipe of nominal sizes 12 to 36” diameter shall conform to AASHTO M 294, with Class 1 perforations. Lengths for all sizes shall not exceed 20 ft.

2.1.4 Polypropylene (PP). Polypropylene corrugated perforated pipe shall conform to AASHTO M 330 for 12” or greater diameter pipe, or ASTM F2376 for 6” pipe. All sizes shall be Type SP.

2.2 Pipe Underdrain, Materials Per Contractor’s Option.

2.2.1 When the item reads 6” pipe underdrain (Contractor’s option), it shall be the Contractor’s option whether he furnishes perforated polyvinyl chloride pipe or perforated corrugated polyethylene drainage tubing or polypropylene pipe.

2.3 Sand cushion shall be so graded that 90 to 100 percent by weight will pass a 1/2” sieve, and not more than 12 percent will pass a No. 200 sieve.

2.4 Underdrain backfill shall meet the requirements of 209.2.1.

2.5 Molded pull boxes for underdrain flushing basins shall conform to 614.2.6.

2.6 Aggregate for aggregate underdrain shall conform to Table 703-1, Standard Size #4.

2.7 Support membrane shall be non-woven geotextile and conform to Item 593.131 – Geotextile, Subsurface Drainage, Class 3, Non-woven.

Amend Pay items and units to read:

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605.4_	_in Perforated Polyvinyl Chloride Pipe Underdrain	Linear Foot
605.5_	_in Perforated Corrugated Polyethylene Pipe Underdrain	Linear Foot
605.6	_in Perforated Corrugated Polypropylene Pipe Underdrain	Linear Foot
605.79	Underdrain Flushing Basins	Each
605.81A	_in Aggregate Underdrain Type 1	Linear Foot
605.82ABC	_in Aggregate Underdrain Type 2, With_____Pipe	Linear Foot
605.84015	1-1/2" PVC Plastic Horizontal Drains	Linear Foot
605.906	6" Pipe Underdrain (Contractor's Option)	Linear Foot

Notes:

A = Width of Underdrain

1 = 18" 2 = 24" 3 = 30" 4 = 36" 5 = 48" 6 = 16"

B = Type of Material

1 = Blank	
2 = Blank	
3 = Blank	
4 = Perforated Polyvinyl Chloride	
5 = Perforated Corrugated Polyethylene	
6 = Perforated Corrugated Polypropylene	

C = Diameter of Pipe

1 = 6" 2 = 12" 3 = 18" 4 = 24" 5 = 4" 8 = 8"

Examples:

605.82351	30" Aggregate Underdrain Type 2, with Perforated Corrugated Polyethylene 6" Pipe	Linear Foot
605.906	6" Pipe Underdrain. (Contractor's Option)	Linear Foot