

Designer Note: For use on contracts with pipe underdrains. This pipe slot size is experimental and use of this special provision shall be approved by District Bureau of Materials before using.

PIPE UNDERDRAIN

Effective: August 1, 2003

This work shall be according to Section 601 of the Standard Specifications except that FA 4 or FM 4 meeting the following gradations shall be used for backfilling the underdrain trench:

| <u>Sieve Size</u> | <u>Percent Passing</u> | |
|-------------------|------------------------|-------------|
| | <u>FA 4</u> | <u>FM 4</u> |
| 3/8" (9.5 mm) | 100 | 100 |
| No. 4 (4.75 mm) | | 97 ± 3 |
| No. 8 (2.36 mm) | | 5 ± 5 |
| No. 10 (2 mm) | 21% max | |
| No. 16 (1.18 mm) | 5 ± 5 | 2 ± 2 |
| No. 200 (75) | 2% max | 2% max |

Only natural sands and gravel shall be used. A pipe slot of 1.75mm± 0.25mm shall be used. The number of slots and the slot length may be manipulated to maintain the inlet flow specified in AASHTO M 252-96 as long as it does not compromise any other requirements specified in AASHTO M 252-96. No fabric envelope for the pipe underdrain or the trench shall be used. The District may conduct a number of Ploog Washer tests, using this pipe with random samples of the backfill material. The loss of fines through the pipe slot in the Ploog Washer tests shall not exceed 4%.