
PART 2 – MATERIALS – (Cont.)

- 2.4 Conformance:
 - .1 Drawings for location
- 2.5 References:
 - .1 ASTM C136-84a, Method for Sieve Analysis of Fine and Coarse Aggregates.
 - .2 CAN/CSA-B182.1-M87, Plastic Drain and Sewer Pipe and Pipe Fittings.
- 2.6 Samples:
 - .1 Inform *Contract Administrator* prior to commencing *Work*, of proposed source of bedding and filter materials and provide access for sampling if required.
- 2.7 Material Certification:
 - .1 Submit manufacturer's test data and certification that drain pipe materials meet requirements of this section prior to commencing *Work*.
 - .2 Certification to be marked on pipe.
 - .3 Drainage pipes to be 76 ϕ PVC, for de-watering: perforated with filter cloth (see Spec below) and 29mm crushed granular as indicated. For under-slab drainage from slab drains, manholes, CB's: use 76 ϕ PVC solid.
 - .4 Filter Fabric: around drain rock at footing drains shall be heat bonded woven polypropylene fabric: Mirafi P-150, as supplied by Dominion Textile, Terrafix 270R as supplied by Steel Industrial Products, Nillex 6-14 filter fabric or approved equivalent.

PART 3 - EXECUTION

- 3.1 Inspection:
 - .1 Ensure graded sub-grade conforms with required drainage pattern before placing filter bed material.
 - .2 Report to the *Contract Administrator* improper slopes, unstable areas, areas requiring addition compaction or other unsatisfactory conditions.

PART 3.2 – EXECUTION (Cont.)

- 3.2 Installation:
 - .1 Pipe Bedding:
 - .2 Cut trenches in compacted sub-base and set grade to drain into existing storm sewer system as noted on all grading plans.
 - .3 Place drain rock fill and any specified filter cloth after pipe installation is approved.
- 3.3 Pipe Bedding Insert:
 - .1 Cut trenches as indicated in detail
 - .2 Ensure pipe interior and coupling surfaces are clean before joining.
 - .3 Lay to slope of 1:100 minimum, from perforated pipe to disposal source. Make joints watertight.
 - .4 Do not use shims to establish pipe slope.
 - .5 Use fittings recommended by manufacturer except where indicated otherwise.
 - .6 Protect pipe ends from damage and ingress of foreign material.
- 3.4 Filter Bed Backfill:
 - .1 Place drain rock fill after pipe installation is approved.
- 3.5 Piping shall be neatly and securely installed to a good standard of workmanship. Pipe inverts as constructed shall be within 15mm of the design alignment.