Extend subdrain 3 inches minimum (6 inches maximum) into precast subdrain headwall. Connect using one of the following methods:
- Gasketed connection approved by the Engineer.

Shape adjacent slope to match slope of precast subdrain headwall.

1. Perforated Subdrain (Polyethylene Corrugated Tubing).
2. On projects where existing shoulder material is removed, replace the shoulder material according to Article 2502.03, C of the Standard Specifications.
3. "Y" or "T" connection will not be allowed. Place subdrain on 1 foot minimum radius.
4. Direction of flow.
5. 6 inch minimum drop in elevation between longitudinal subdrain and outlet; 12 inch minimum drop for projects using recycled PCC subbase.
7. Bevel the trench to provide a minimum of 3 inches of porous backfill surrounding all portions of subdrain pipe.
8. Place class A crushed stone or Special Backfill over outlet and carefully compact to avoid damaging outlet pipe.

Possible Contract Item:
Subdrain Outlet, DR-306

Possible Tabulation:
104-5C
104-9

PRECAST CONCRETE HEADWALL
FOR SUBDRAIN OUTLETS
Comply with Section 2419 of the Standard Specifications.

ASTM A36 Steel galvanized according to ASTM A123 or ASTM F2329 after shop welding is complete.

After installing retaining rod, fill recess with bituminous material complying with ASTM C990 to prevent moisture infiltration.

Granular material complying with Section 4133 of the Standard Specifications.

Maximum diameter 2 inches. Fill hole with soil tight plug after placing headwall and before placing backfill.

See Detail 'A'

Granular material complying with the Standard Specifications.

Modification per sheet 2 to show one size headwall to be cast. Modified circle note 9 and added circle note 12 on sheet 2.

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REGISTERED ENGINEER
APPROVED BY DESIGN METHODS ENGINEER

PRECAST CONCRETE HEADWALL FOR SUBDRAIN OUTLETS