

SECTION 02622

UNDERDRAIN

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Materials and procedures for placing pipe underdrains.

1.2 RELATED SECTIONS

- A. Section 02061: Select Aggregate
- B. Section 02075: Geotextile
- C. Section 02610: Pipe Culverts

1.3 REFERENCES

- A. AASHTO M 252: Corrugated Polyethylene Drainage Pipe
- B. AASHTO T 99: Moisture-Density Relations of Soils Using a 2.5 kg (5.5 lb) Rammer and a 305-mm (12 in.) drop

PART 2 PRODUCTS

2.1 PIPE

- A. Corrugated Polyethylene Drainage Pipe: ASHTO M 252.
- B. Corrugated Steel Pipe and Pipe Arch: Refer to Section 02610.
- C. Concrete Pipe: Refer to Section 02610.

2.2 DRAINAGE GEOTEXTILES

- A. When required refer to Section 02075.

2.3 UNDERDRAIN GRANULAR BACKFILL

- A. Refer to Section 02061.

PART 3 EXECUTION

3.1 PLACEMENT

- A. Excavate a trench to a depth of 3 inches below the underdrain pipe flow-line and to a width of the outside diameter of the pipe plus 2 feet.
- B. If required, place drainage geotextiles to plan requirements, and following Section 02075.
- C. Place underdrain granular backfill in the trench, compacting the bottom 3 inches. Follow Sections 02061.
- D. Place pipe with slots or perforations down, or as specified in the plans.
- E. Lay an open joint concrete underdrain pipe with the bell or groove end up stream and the spigot end fully entered into the bell.
- F. Compact backfill material in 6 inch layers to 96 percent of maximum laboratory density. Follow AASHTO T 99, Method C.

END OF SECTION