

820 - FLUME INLETS AND SLOPE DRAINS

SECTION 820

FLUME INLETS AND SLOPE DRAINS

820.1 DESCRIPTION

Construct the designated type of flume inlets and slope drains as shown in the Contract Documents.

BID ITEMS

Flume Inlet (*)
Slope Drain (*)
Slope Drain (Special)
*Type: concrete, grouted stone or stone

UNITS

Each
Linear Foot
Linear Foot

820.2 MATERIALS

Provide materials that comply with the applicable requirements.

Concrete and Grout	SECTIONS 401 & 402
Aggregates for Concrete Not On Grade	SECTION 1102
Stone for Flume Inlets and Slope Drains	DIVISION 1100
Type 2 Liquid Membrane-Forming Compound	DIVISION 1400
Reinforcing Steel	DIVISION 1600
Welded Steel Wire Fabric	DIVISION 1600

820.3 CONSTRUCTION REQUIREMENTS

a. Concrete. Construct flume inlets and slope drains as shown in the Contract Documents. Excavate to allow construction of forms and excavate to sufficient depth to obtain the designated thickness, elevation and grade.

Prior to concrete placement, place reinforcement for concrete inlets and drains as shown in the Contract Documents. Support reinforcement on bar chairs.

Unless shown otherwise in the Contract Documents, construct concrete flume inlets and slope drains of Grade 3.0 (AE) concrete. Uniformly consolidate the concrete without voids. Cure and protect concrete according to **DIVISION 700**.

b. Stone and Grouted Stone. Construct stone inlets and slope drains as shown in the Contract Documents. Place stones with ends and sides abutting. Use spalls to fill larger spaces between stones. Offset joints between stones with the joint in the row below. For grouted stone, pour and broom grout into spaces between stones until the spaces are completely filled. Immediately after the grout is placed, cure in the same manner as required for the concrete.

c. Backfill. Place backfill material along the sides of the inlets and slope drains to the top of the outside edges. Compact the backfill to a density of 90% of the standard compaction of the material used. On projects where Type B compaction is required on the adjacent roadway, construct the compaction for flume inlets and slope drains to the requirements for Type B compaction, **SECTION 205**.

820.4 MEASUREMENT AND PAYMENT

The Engineer will measure each flume inlet.

The Engineer will measure slope drains by the linear foot along the flowline of the slope drain.

Payment for "Flume Inlets" and "Slope Drains" at the contract unit prices is full compensation for the specified work.