

**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 .....	<b>SECTIONS 401 &amp; 402</b>
Aggregates for Concrete Not On Grade .....	<b>SECTION 1102</b>
Stone for Flume Inlets and Slope Drains .....	<b>DIVISION 1100</b>
Type 2 Liquid Membrane-Forming Compound .....	<b>DIVISION 1400</b>
Reinforcing Steel .....	<b>DIVISION 1600</b>
Welded Steel Wire Fabric .....	<b>DIVISION 1600</b>

**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.