

STONE FILL, ARCH FLOW LINE

**\*\*From Ludlow ST STP CULV(7)**

- xx. DESCRIPTION. This work shall consist of furnishing and placing stone fill inside precast concrete arches to facilitate aquatic organism passage and prevent scour.
- xx. MATERIAL. Stone for Stone Fill, Arch Flow Line shall meet the following requirements:

<u>% Gradation</u>	<u>Smaller Than (longest dimension) mm (inches)</u>
100	1520 (60)
75	1220 (48)
50	500 (20)
35	300 (12)
25	100 (4)

- xx. PLACING. Stone fill shall be placed inside the precast concrete arch as shown on the Plans. The larger stone shall be placed on the bottom of the stream simulated area as anchoring stone. The stone shall be arranged to mimic channel conditions such that in high flow events the largest stone will resist movement. Avoid grid patterns or flat, paved beds made of the largest stones. Place rock such that it does not cause segregation or damage to the concrete arch and footings.

Fill in the voids in the larger stone with a mixture of fines from the existing creek bed material. Fill voids by hand tamping with metal tamping rods, plate compactors, and water pressure with a metal wand to reach between stones.

Once all material has been placed along the footings, the Contractor shall slowly wet the stream to minimize the effect of the initial sediment pulse. Every attempt shall be made to minimize the movement of sediment downstream of the site.

- xx. METHOD OF MEASUREMENT. The quantity of Special Provision (Stone Fill, Arch Flow Line) to be measured for payment will be the number of cubic meters (cubic yards) installed in the complete and accepted work, measured within the limits shown on the Plans or as directed by the Engineer.
- xx. BASIS OF PAYMENT. The accepted quantity of Special Provision (Stone Fill, Arch Flow Line) will be paid for at the Contract unit price per cubic meter (cubic yard). Payment will be full compensation for furnishing, transporting, and placing the material specified and for furnishing all labor, tools, equipment, and incidentals necessary to complete the work.

Payment will be made under:

<u>Pay Item</u>	<u>Pay Unit</u>
900.608 Special Provision (Stone Fill, Arch Flow Line)	Cubic Meter (Cubic Yard)