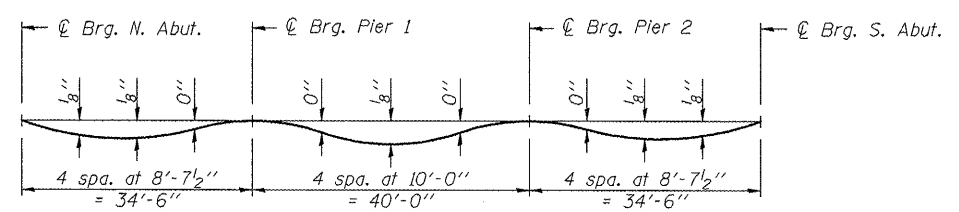


*Included in the cost of Pipe Underdrains for Structures.

Note:
All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).



DEAD LOAD DEFLECTION DIAGRAM
(Includes weight of concrete only.)

GENERAL NOTES

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.
Reinforcement bars designated (E) shall be epoxy coated.
Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
The Contractor shall make allowance for the deflection of forms, shrinkage, and settlement of falsework, in addition to allowance for dead load deflection. Forms for deck slab shall be removed prior to placement of bridge approach slab.
Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure. The Contractor shall sawcut the upper portion of the existing abutment at the stage removal line before Stage I removal to ensure the remaining portion will not be prematurely damaged.
All test piles shall be instrumented for Dynamic Pile Monitoring. The time between initial driving and re-tapping shall be a minimum of 10 days. See Special Provisions.
Slipforming of the parapets is not allowed.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A5	Sq. Yd.		963	963
Filter Fabric	Sq. Yd.		1,199	1,199
Removal of Existing Structures	Each		1	1
Structure Excavation	Cu. Yd.		275	275
Floor Drains	Each	14		14
Concrete Structures	Cu. Yd.		161.9	161.9
Concrete Superstructure	Cu. Yd.	394.3		394.3
Bridge Deck Grooving	Sq. Yd.	570		570
Concrete Encasement	Cu. Yd.		8.5	8.5
Protective Coat	Sq. Yd.	734		734
Reinforcement Bars, Epoxy Coated	Pound	98,420	28,880	127,300
Bar Splicers	Each	339	172	511
Furnishing Metal Shell Piles, 14" x 0.250"	Foot		1,725	1,725
Driving Piles	Foot		1,725	1,725
Test Pile Metal Shells	Each		4	4
Pile Shoes	Each		32	32
Name Plates	Each	1		1
Geocomposite Wall Drain	Sq. Yd.		48	48
Porous Granular Embankment, Special	Cu. Yd.		84	84
Underwater Structure Excavation Protection - Location 1	Each		1	1
Underwater Structure Excavation Protection - Location 2	Each		1	1
Mechanical Splicers	Each		120	120
Asbestos Bearing Pad Removal	Each		11	11
Temporary Sheet Piling	Sq. Ft.		1,912	1,912
Pipe Underdrains for Structures 4"	Foot		124	124