



*Included in the cost of Pipe Underdrains for Structures. 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)

SECTION THRU INTEGRAL ABUTMENTS

(Horiz. dim. @ Rt. L's)

GENERAL NOTES

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. Reinforcement bars designated (E) shall be epoxy coated.

All embedded and separate bearing plates, side retainers, anchor bolts, nuts, washers and pintles shall be galvanized according to AASHTO M111 or M232 (as applicable).

Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.

For Soil Borings, See Special Provisions.

The Contractor shall drive test piles to 110% of the nominal required bearing specified in production locations at substructures specified or approved by the Engineer before ordering the remainder of piles.

Protective Coat shall be applied to the top of the deck, edge of deck, and approach pavement.

Bridge Deck Grooving is figured 1'-0" from rail face and includes the approach pavements.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
① Removal of Existing Structures No. 1	EACH	—	—	1
Structure Excavation	CU YD	—	300	300
Channel Excavation	CU YD	—	1,425	1,425
Concrete Superstructure	CU YD	127.1	—	127.1
Concrete Structures	CU YD	—	39.7	39.7
Concrete Encasement	CU YD	—	4.2	4.2
Furnishing and Erecting Precast Prestressed Concrete I-Beams, 54"	FOOT	535	—	535
① Reinforcement Bars, Epoxy Coated	POUND	23,920	6,160	30,080
Stone Riprap, Class A4	TON	—	430	430
① Filter Fabric	SQ YD	—	535	535
Steel Railing, Type SM	FOOT	182	—	182
Furnishing Steel Piles HP12x63	FOOT	—	550	550
① Driving Piles	FOOT	—	550	550
① Test Pile Steel HP12x63	EACH	—	2	2
Protective Coat	SQ YD	553	—	553
Bridge Deck Grooving	SQ YD	504	—	504
Name Plates	EACH	—	1	1
① Pipe Underdrains for Structures, 4"	FOOT	—	174	174
Bridge Approach Pavement	SQ YD	—	—	160
① Porous Granular Embankment (Special)	CU YD	—	196	196
Geocomposite Wall Drain	SQ YD	—	101	101
Bar Splicers	EACH	48	—	48

① See Special Provisions

**GENERAL NOTES, DETAILS,
AND BILL OF MATERIALS
C.H. 12 OVER HICKS CREEK
SECTION 07-00090-00-BR
MACOUPIN COUNTY**

SHEET NO. 2	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CH 12	07-00090-00-BR	MACOUPIN	77	12
19 SHEETS	SN 059-3556		CONTRACT NO. 93538		
FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT BRS-0732(148)			