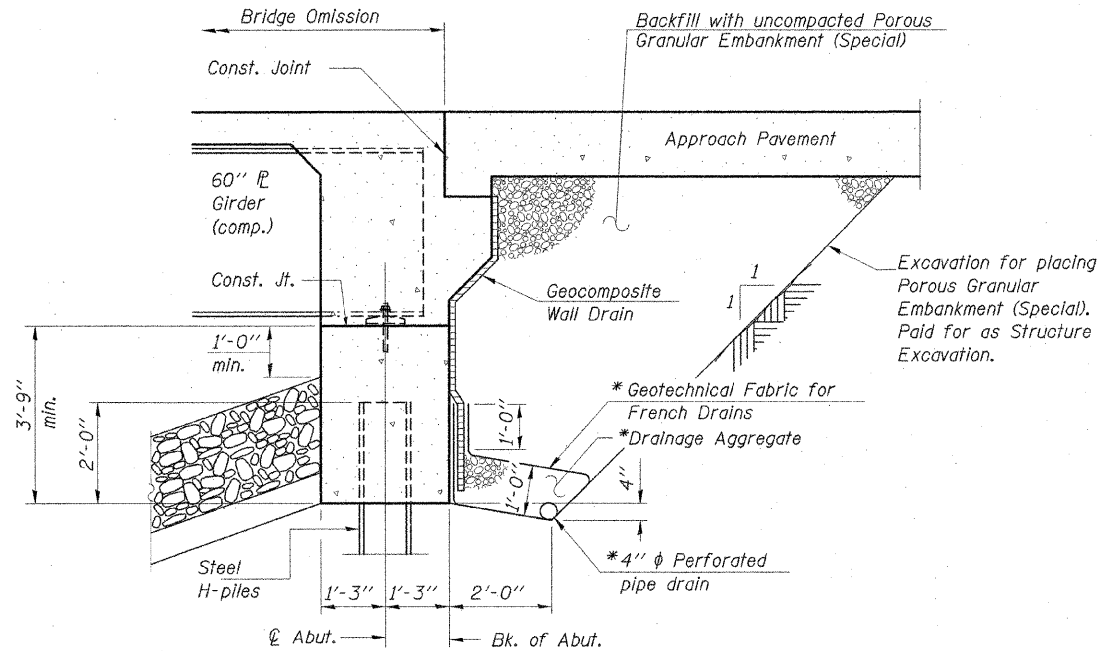


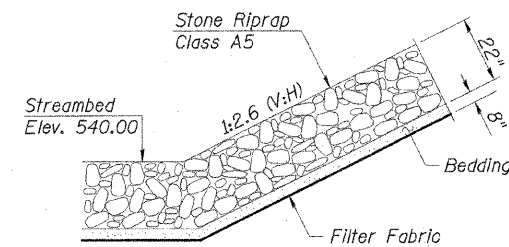
GENERAL NOTES

- Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts in painted areas and M164 Type 3 in unpainted areas. Bolts $\frac{3}{4}$ in. ϕ , holes $\frac{13}{16}$ in. ϕ , unless otherwise noted.
- Calculated weight of Structural Steel = 175,870 lb.
- All structural steel shall be AASHTO M 270 Grade 50W.
- No field welding is permitted except as specified in the contract documents.
- Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60 (IL Modified). See Special Provisions.
- Reinforcement bars designated (E) shall be epoxy coated.
- Structural steel shall only be painted for a distance equal to the depth of embedment into the concrete cap plus 3 inches. Those areas shall be primed in the shop with a Department approved zinc rich primer. No field painting shall be required. All structural steel shall be cleaned as specified in the Special Provision for "Surface Preparation and Painting Requirements for Weathering Steel".
- Layout of slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
- 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.
- Slipforming of parapets shall not be permitted.

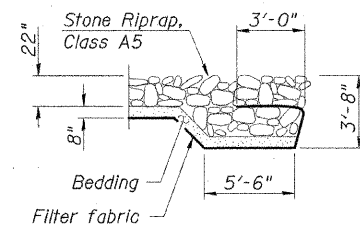


*Included in the cost of Pipe Underdrains for Structures 4"
 All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101)

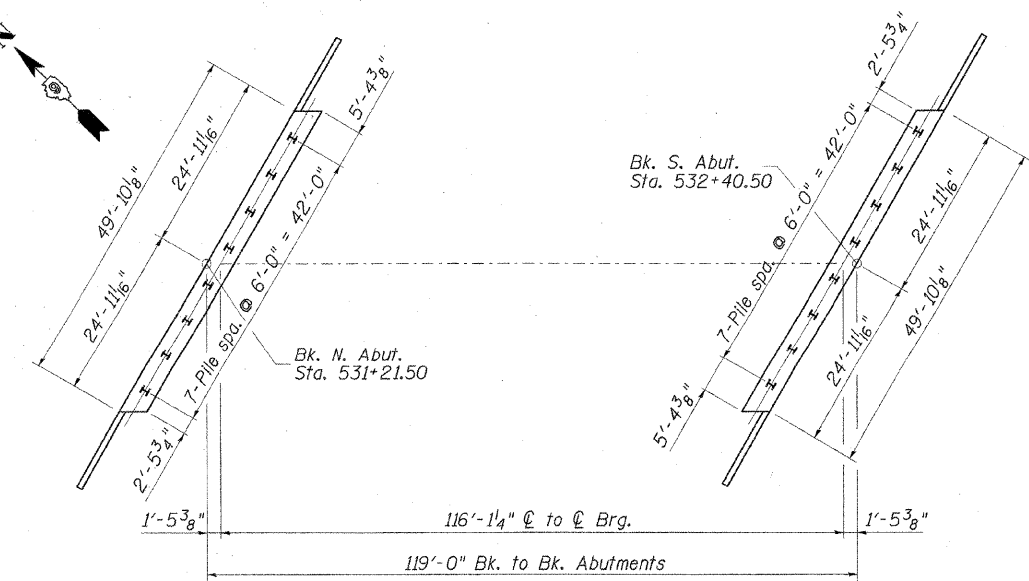
SECTION THRU INTEGRAL ABUTMENT



STONE RIPRAP DETAIL



SECTION A-A
 (See Sheet 1 for Plan location)



FOOTING LAYOUT

WATERWAY INFORMATION

		Exist. Low Grade Elev. 558.60 @ Sta. 531+50							
Drainage Area = 6.99 sq. mi.		Prop. Low Grade Elev. 559.61 @ Sta. 533+00							
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Prop.	Nat. H.W.E.	Head - Ft. Exist.	Prop.	Headwater El. Exist.	Prop.
	10	1670	345.6	565.8	549.6	0.6	0.5	550.2	550.1
Design	50	2490	416.8	706.6	551.2	0.8	0.5	552.0	551.7
Base	100	2830	439.0	753.3	551.7	0.9	0.6	552.6	552.3
Overtopping	-	-	-	-	-	-	-	-	-
Max. Calc.	500	3640	492.4	870.3	552.9	1.2	0.7	554.1	553.6

10-Year velocity through existing bridge = 4.83 fps
 10-Year velocity through proposed bridge = 2.95 fps

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment, Special	Cu. Yd.		260	260
Stone Riprap, Class A5	Sq. Yd.		1221	1221
Filter Fabric	Sq. Yd.		1383	1383
Removal of Existing Structures	Each			1
Structure Excavation	Cu. Yd.		462	462
Floor Drains	Each	10		10
Concrete Structures	Cu. Yd.		49.8	49.8
Concrete Superstructure	Cu. Yd.	213.2		213.2
Concrete Encasement	Cu. Yd.		5.6	5.6
Bridge Deck Grooving	Sq. Yd.	915		915
Protective Coat	Sq. Yd.	629		629
Furnishing and Erecting Structural Steel	L. Sum	0.5		0.5
Stud Shear Connectors	Each	2772		2772
Reinforcement Bars, Epoxy Coated	Pound	43,670	7,630	51,300
Bar Splicers	Each	520	20	540
Steel Railing (Temporary)	Foot	214		214
Furnishing Steel Piles HP 10x57	Foot		392	392
Name Plates	Each	1		1
Anchor Bolts, 1"	Each	24		24
Geocomposite Wall Drain	Sq. Yd.		123	123
Pipe Underdrains for Structures 4"	Foot		160	160
Temporary Soil Retention System	Sq. Ft.		870	870
Setting Piles in Rock	Each		16	16

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 NOTES AND BILL OF MATERIAL
 F.A.P. ROUTE 726 (IL. RTE. 37)
 ILLINOIS ROUTE 37 OVER
 LITTLE SALINE CREEK
 SECTION 113B-2 STA. 531+81.00
 STR. NO. 100-0091 - WILLIAMSON COUNTY
 SCALE: NONE DRAWN BY: GLD
 DATE: 12/14/07 CHECKED BY: WLB



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