

**GENERAL NOTES**

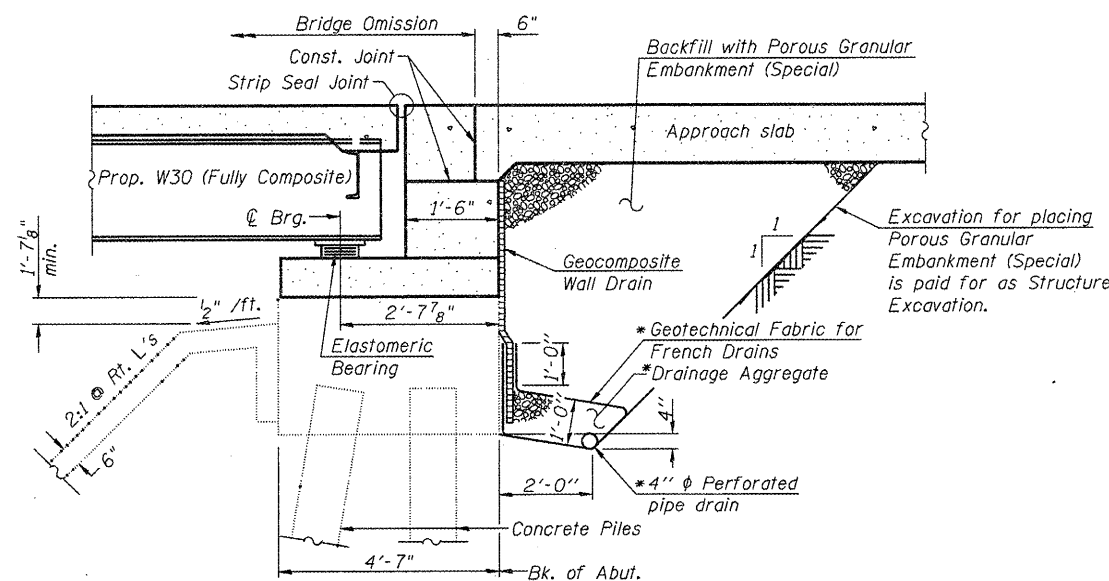
- Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts in painted areas and M164 Type 3 in unpainted areas. Bolts  $\frac{7}{8}$  in.  $\phi$ , holes  $\frac{15}{16}$  in.  $\phi$ , unless otherwise noted.
- Calculated weight of Structural Steel = 971,060 pounds.
- All structural steel shall be AASHTO M 270 Grade 50W except expansion joints which shall be AASHTO M 270 Grade 50. All structural steel shall be cleaned as specified in the Special Provision for "Surface Preparation and Painting Requirements for Weathering Steel".
- 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.
- Reinforcement bars designated (E) shall be epoxy coated.
- If the Contractor elects to use cantilever forming brackets on the exterior beams or girders, the brackets shall be placed at the same locations as required for the hardwood blocks in Article 503.06(b) of the Standard Specifications. If additional cantilever forming brackets are required, hardwood blocking shall be wedged between the exterior and first interior beam at each of these additional bracket locations.
- Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
- Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of  $\frac{1}{8}$  inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.
- Concrete Sealer shall be applied to the designated areas of the abutments and piers 5.
- All structural steel and exposed surfaces of bearings within a distance of 8 ft. each way from the deck joints shall be painted as specified in the Special Provision for "Surface Preparation and Painting Requirements for Weathering Steel".
- Slipforming of parapet is not allowed.
- Quantities for Bridge Deck Grooving, Protective Coat, & Diamond Grinding (Bridge Section) include the bridge approach connector pavement.

**WATERWAY INFORMATION**

		Discharge (cfs)		Waterway Opening (sq. ft.)		Natural H.W.E.	Head (ft.)		Headwater Elev.	
Frequency Year	Structure	Exist.	Prop.	Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
10	Main Channel	6,160	6,160	1,546	1,546	565.5	1.0	1.0	566.5	566.5
	Overflow	3,940	3,940	1,147	1,147					
	Total	10,100	10,100	2,693	2,693					
50	Main Channel	10,937	10,937	2,313	2,313	566.9	1.4	1.4	568.3	568.3
	Overflow	7,463	7,463	1,168	1,168					
	Total	18,400	18,400	3,481	3,481					
100	Main Channel	14,728	14,728	2,765	2,765	567.7	1.6	1.6	569.3	569.3
	Overflow	8,072	8,072	1,214	1,214					
	Total	22,800	22,800	3,979	3,979					
Max.	Main Channel	21,447	22,712	3,501	4,070	570.0	3.2	2.7	573.2	572.7
	Overflow	14,453	13,188	1,503	1,503					
	Total	35,900	35,900	5,004	5,573					

Existing Low Grade Elev. 573.95 ft @ Sta. 556+50 (SB Median EOP)  
 Proposed Low Grade Elev. 574.16 ft @ Sta. 556+50 (SB Median EOP)  
 Drainage Area = 310 Sq. Miles

10 Yr. Vel. thru Exist. Main Channel Bridges = 4.0 fps      10 Yr. Vel. thru Prop. Main Channel Bridges = 4.0 fps  
 10 Yr. Vel. thru Exist. Overflow Bridges = 3.4 fps            10 Yr. Vel. thru Prop. Overflow Bridges = 3.4 fps



**SECTION THRU PILE SUPPORTED STUB ABUTMENT**  
 (Horiz. dim. @ Rt. L's)

Note:  
 \*Included in the cost of Pipe Underdrains for Structures.  
 All drainage system components shall extend parallel to the abutment back wall until they intersect the wingwalls or 2'-0" from the end of the wingwalls when the wings are parallel to the abutment. The pipe shall extend under the wingwall, if necessary, until intersecting the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 60110).

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A4	Ton		1,180	1,180
Filter Fabric	Sq. Yd.		1,331	1,331
Removal of Existing Superstructures	Each	2		2
Concrete Removal	Cu. Yd.	96.0		96.0
Structure Excavation	Cu. Yd.		301	301
Floor Drains	Each	160		160
Concrete Structures	Cu. Yd.		253.7	253.7
Concrete Superstructure	Cu. Yd.	2,015.6		2,015.6
Bridge Deck Grooving	Sq. Yd.	6,385		6,385
Protective Coat	Sq. Yd.	7,925		7,925
Furnishing and Erecting Structural Steel	L. Sum	1		1
Stud Shear Connectors	Each	39,456		39,456
Reinforcement Bars, Epoxy Coated	Pound	530,370	22,780	553,150
Bar Splicers	Each	172		172
Name Plates	Each	2		2
Preformed Joint Strip Seal	Foot	256.5		256.5
Elastomeric Bearing Assembly, Type II	Each	120		120
Anchor Bolts, $\frac{5}{8}$ "	Each	96		96
Anchor Bolts, $\frac{3}{4}$ "	Each	48		48
Anchor Bolts, 1"	Each	144		144
Concrete Sealer	Sq. Ft.		2,407	2,407
Geocomposite Wall Drain	Sq. Yd.		215	215
Porous Granular Embankment, Special	Cu. Yd.		301	301
Diamond Grinding (Bridge Section)	Sq. Yd.	6,082		6,082
Pipe Underdrains for Structures 4"	Foot		326	326



JOB	= 2265.1	DESIGNED	- ZTB	REVISED	-
FILE	= 0540055_0056-72E10-02-GenData.dgn	CHECKED	- MDC	REVISED	-
DATE	= 9/29/2011	DRAWN	- TJD	REVISED	-
		CHECKED	- ZTB	REVISED	-

**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

**GENERAL DATA**  
**STRUCTURE NO. 054-0055 (NB) & STRUCTURE NO. 054-0056 (SB)**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	D6 LOGAN CO BR 2011	LOGAN	224	163
			CONTRACT NO. T2E10	
ILLINOIS FED. AID PROJECT				