

**GENERAL NOTES**

Fasteners shall be high strength bolts.  
Bolts 7/8"  $\phi$ , open holes 15/16"  $\phi$ , unless otherwise noted.

Calculated weight of Structural Steel = 142,547 lbs.

Field welding of construction accessories will not be permitted to beams.

Anchor bolts shall be set before bolting diaphragms over supports.

The main load carrying member components subject to tensile stress shall conform to the Supplemental Requirements for Notch Toughness Zone 2. These components are the wide flange beams and all splice plate material except fill plates.

Reinforcement bars shall conform to the requirements of AASHTO M 31 or M 322, Grade 60.

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

Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 inch. Adjustment shall be made either by grinding the surface or by shimming the bearing. Two 1/2" adjusting shims, of the dimensions of the bottom bearing plate, shall be provided for each bearing in addition to all other plates or shims.

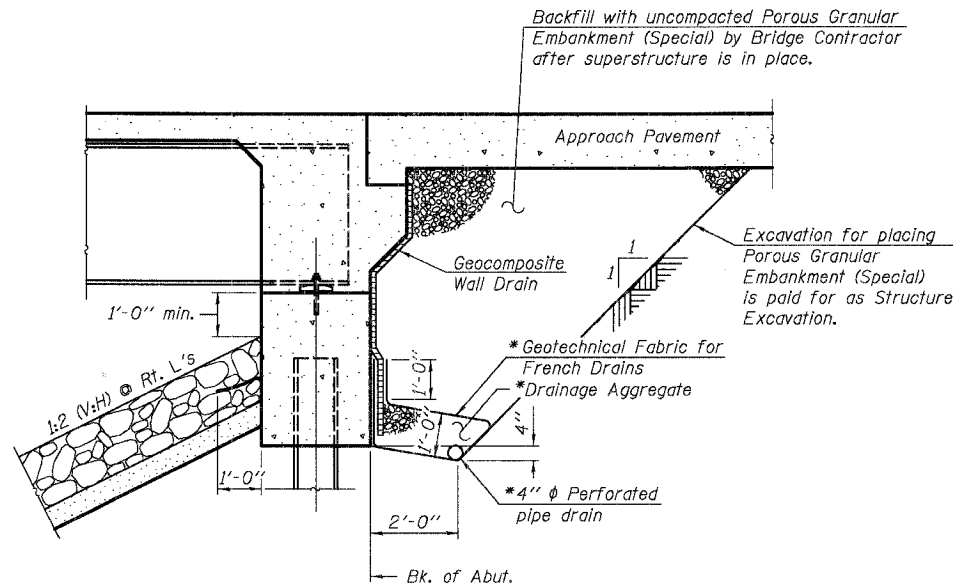
The contractor shall drive one (1) HP-12x53 test pile in a permanent location at the East Abutment and Pier 1 as directed by the Engineer before ordering the remainder of piles.

All construction joints shall be bonded.

The Contractor shall obtain a construction permit from the Illinois Department of Natural Resources (IDNR), Office of Water Resources for any temporary construction activity placed in the water except cofferdams. This shall include the placement of material for run-arounds, causeways, etc. Any permit application by the Contractor shall refer to the IDNR permit number NE 2004056 which was issued for the permanent construction.

The Inorganic Zinc Rich Primer / Acrylic / Acrylic Paint System shall be used for painting of new structural steel except where otherwise noted. The color of the final finish coat for all steel surfaces shall be gray, Munsell No. 5B 7/1. See Special Provision for "Cleaning and Painting New Metal Structures".

The information shown in these plans concerning the type and location of utilities is not guaranteed to be accurate or all-inclusive. The Contractor is responsible for making his own determination as to the existence of type, size and location of all underground and overhead utilities as may be necessary to avoid conflict with construction operations and/or damage to the utility.



**SECTION THRU INTEGRAL ABUTMENT**  
(Horiz. dim. @ Rt. L's)

\* 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).

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment (Special)	Cu. Yd.		152	152
Stone Riprap, Class A4	Sq. Yd.		1240	1240
Filter Fabric	Sq. Yd.		1240	1240
Removal of Existing Structures	Each			1
Slope Wall Removal	Sq. Yd.		711	711
Structure Excavation	Cu. Yd.		390	390
Concrete Structures	Cu. Yd.		192.3	192.3
Concrete Superstructure	Cu. Yd.	270		270
Bridge Deck Grooving	Sq. Yd.	783		783
Concrete Encasement	Cu. Yd.		9.0	9.0
Protective Coat	Sq. Yd.	987		987
Name Plates	Each	1		1
Anchor Bolts, 1"	Each		48	48
Furnishing and Erecting Structural Steel	L. Sum	1		1
Stud Shear Connectors	Each	3,492		3,492
Bar Splicers	Each	88		88
Reinforcement Bars, Epoxy Coated	Pound	64,870	18,050	82,920
Furnishing Steel Piles HP 12x53	Foot		881	881
Driving Piles	Foot		293	293
Test Pile Steel HP 12x53	Each		1	1
Pile Shoes	Each		14	14
Geocomposite Wall Drain	Sq. Yd.		74	74
Pipe Underdrains for Structures, 4"	Foot		189	189
Underwater Structure Excavation Protection, Location 1	Each		1	1
Underwater Structure Excavation Protection, Location 2	Each		1	1
Setting Piles in Rock	Each		24	24

JACKSON CREEK  
BUILT 200- BY  
WILL COUNTY  
SEC 02-00117-21-BR  
F.A.P. RT. 532 STA. 108+51.83  
STR. NO. 099-3395 LOADING HS20

**NAME PLATE**  
See Std. 515001

DESIGNED	KMA
CHECKED	AEU
DRAWN	MDJ
CHECKED	RGD

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WILL COUNTY DEPARTMENT OF HIGHWAYS  
GENERAL NOTES, INDEX & QUANTITIES  
MANHATTAN-ARSENAL ROAD  
OVER JACKSON CREEK  
WILL COUNTY  
SECTION NO. 02-00117-21-BR  
STRUCTURE NO. 099-3395  
DATE 12-8-2006