

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 7432	*	MACON	47	12
FEDERAL DIST. NO.		ILLINOIS	PROJECT	

• 08-00602-00-BR

GENERAL NOTES:

Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts (in painted areas and M164 Type 3 in unpainted areas). Bolts $\frac{7}{8}$ " ϕ in holes $\frac{15}{16}$ " ϕ , unless otherwise noted.

Calculated weight of Structural Steel = 100,310 lb

All structural steel shall be AASHTO M270, 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.

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.

Bearing seat surfaces shall be constructed or adjusted to their 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.

The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.

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.

All cross frames or diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual cross frames or diaphragms at supports may be temporarily disconnected to install bearing anchor rods.

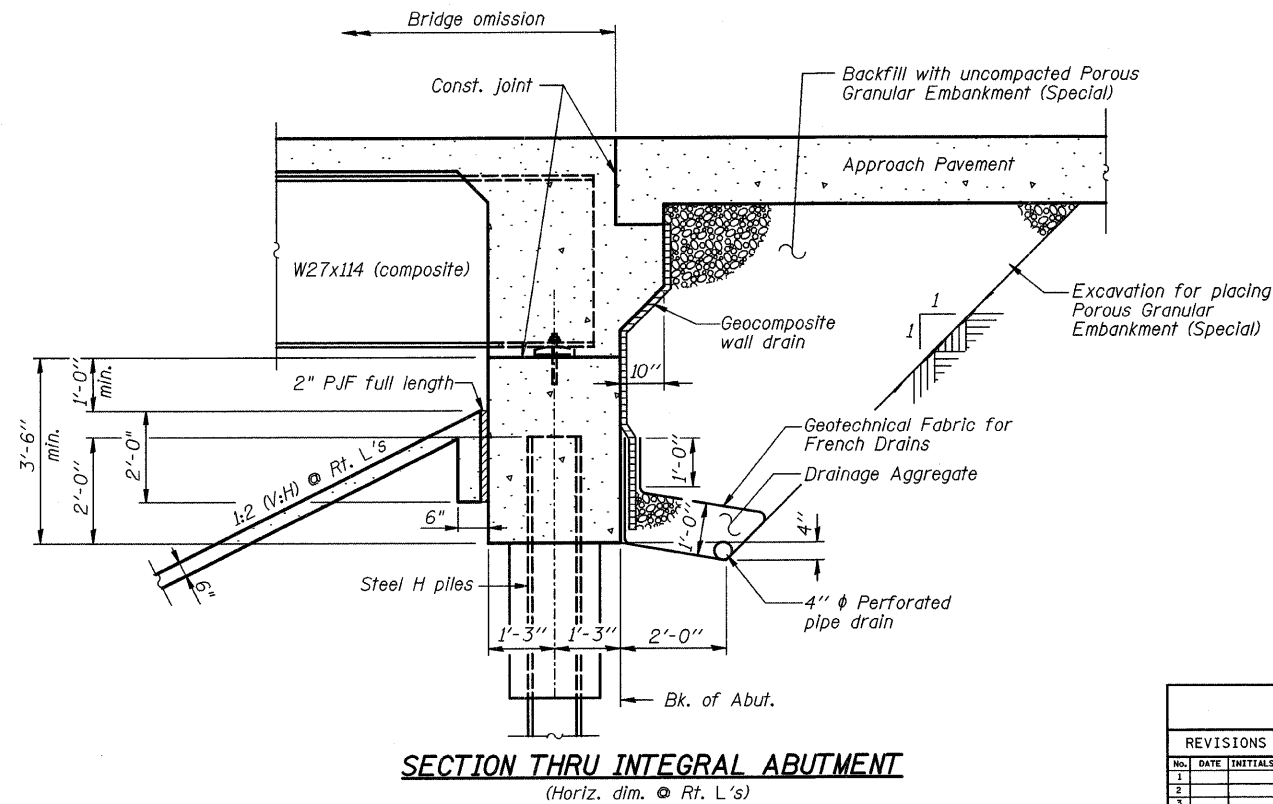
Load carrying components designated "NTR" shall conform to the Supplemental Requirements for Notch Toughness, Zone 2.

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".

Concrete Sealer shall be applied to the exposed areas of the piers and slope wall.

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub	Total
Porous Granular Embankment (Special)	Cu. Yd.		92	92
Removal of Existing Structures	Each			1
Structure Excavation	Cu. Yd.		340	340
Concrete Structures	Cu. Yd.		138.1	138.1
Concrete Superstructure	Cu. Yd.	325.8		325.8
Bridge Deck Grooving	Sq. Yd.	475		475
Concrete Encasement	Cu. Yd.		12.8	12.8
Protective Coat	Sq. Yd.	1053		1053
Furnishing and Erecting Structural Steel	L. Sum	1		1
Stud Shear Connectors	Each	2745		2745
Reinforcement Bars, Epoxy Coated	Pound	87,330	11,320	98,650
Bar Splicers	Each	898	72	970
Furnishing Steel Piles HP12x53	Foot		1700	1700
Driving Piles	Foot		1700	1700
Test Pile Steel HP12x53	Each		2	2
Temporary Sheet Piling	Sq. Ft.		352	352
Name Plates	Each	1		1
Anchor Bolt 1" ϕ	Each		40	40
Geocomposite Wall Drain	Sq. Yd.		60	60
Pipe Underdrains for Structures, 4"	Foot		152	152
Bicycle Railing	Foot	152		152
Parapet Railing	Foot	178		178
Slopedwall 6 Inch	Sq. Yd.			446
Concrete Sealer	Sq. Ft.		6200	6200
Underwater Structure Excavation Protection - Location 1	Each			1
Underwater Structure Excavation Protection - Location 2	Each			1
Stone Riprap, Class A5	Sq. Yd.			290



SECTION THRU INTEGRAL ABUTMENT

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

MACARTHUR ROAD (FAU 7432) OVER STEVENS CREEK

GENERAL STRUCTURE DATA

REVISIONS	SECTION 08-00602-00-BR	MACARTHUR ROAD (FAU 7432)	DRAWN BY DATE
1	STA 10+00.00	SN 058-6025	R KING 07/09
2		MACON COUNTY	CHECKED BY DATE
3			JMB 07/09
4			BOOK NUMBER
5			486
6			PROJECT No.
7			5307
8			SHEET No.
9			
10			

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