

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 313	(21-HB-11)	KNOX	SS 19	35 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

Contract #68216

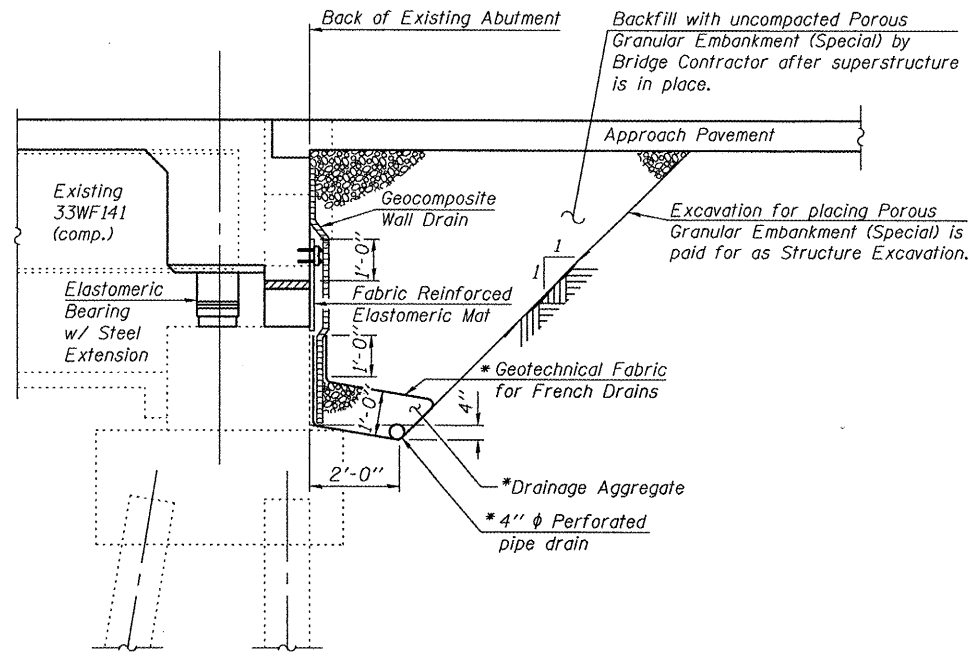
GENERAL NOTES

Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts. Bolts $\frac{3}{4}$ in. ϕ , holes $\frac{13}{16}$ in. ϕ , unless otherwise noted.
No field welding is permitted except as specified in the contract documents.
The Contractor shall test the existing welds by non-destructive methods within 2 ft. of the end of the existing cover plates for cracks after removal of the existing concrete deck. Dye penetrant (PT), magnetic particle (MT), or other approved testing method shall be performed by qualified personnel approved by the Engineer. If cracks are found, report them to the Bureau of Bridges and Structures for disposition. The cost of testing is included in Removal of Existing Concrete Deck. The cost of crack repair, if necessary, will be paid for according to Article 109.04 of the Standard Specifications.
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.

Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.
As directed by the Engineer, existing construction accessories welded to the top flange of beams shall be removed. The weld areas shall be ground flush and inspected for cracks using magnetic particle testing (MT) or dye penetrant testing (PT) by an individual acceptable to the Engineer. Any cracks that cannot be removed by grinding $\frac{1}{4}$ inch deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. The cost of removing welded accessories, grinding and inspecting weld areas and grinding cracks will be paid for according to Article 109.04 of the Standard Specifications.

Plan dimensions and details relative to existing plans are subject to routine 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 based upon the unit price bid for the work.
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 existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
If the Contractor elects to use cantilever forming brackets on the exterior beams, 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.

Cleaning and painting of the existing structural steel shall be as specified in the special provision for "Cleaning and Painting Existing Steel Structures". All existing steel shall be cleaned per Near White Blast Cleaning SSPC-SP10. All existing steel shall be painted according to the requirements of Paint System 1-OZ/E/U. The color of the final finish coat for all interior steel surfaces shall be Gray, Munsell No. 5B 7/1. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be Blue, Munsell No. 10B 3/6.
A minimum of 2 air monitors will be required to monitor abrasive blasting operations at this site, see special provision for "Containment and Disposal of Lead Paint Cleaning Residues".
All new structural steel shall be shop painted with an inorganic zinc rich primer per AASHTO M 300, Type 1. Field painting included with "Cleaning and Painting Existing Steel Structures."



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

* Included in the cost of Pipe Underdrains for Structures, 4"
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
Slopedwall 4"	Sq. Yd.		64.4	64.4
Removal of Existing Concrete Deck	Each	2		2
Concrete Removal	Cu. Yd.		73.2	73.2
Structure Excavation	Cu. Yd.		427.4	427.4
Concrete Structures	Cu. Yd.		28.3	28.3
Concrete Superstructure	Cu. Yd.	907.5		907.5
Bridge Deck Grooving	Sq. Yd.	2517		2517
Protective Coat	Sq. Yd.	3020		3020
Elastomeric Bearing Assembly, Type I	Each	36		36
Stud Shear Connectors	Each	12210		12210
Reinforcement Bars, Epoxy Coated	Pound	199820	5160	204980
Name Plates	Each	2		2
Bar Splacers	Each	1550	8	1558
Floor Drains	Each	20		20
Drainage Scupper, DS-12	Each	4		4
Jack and Remove Existing Bearings	Each	36		36
Porous Granular Embankment (Special)	Cu. Yd.		321.5	321.5
Structural Repair of Concrete (Depth equal to or less than 5")	Sq. Ft.		54.0	54.0
Pipe Underdrains for Structures, 4"	Foot		337	337
Temporary Sheet Piling	Sq. Ft.		416	416
Concrete Sealer	Sq. Ft.		8730	8730
Geocomposite Wall Drain	Sq. Yd.		184	184
Protective Shield	Sq. Yd.	1472		1472
Anchor Bolts, 1"	Each	72		72
Furnishing and Erecting Structural Steel	Lbs.	12280		12280
Cleaning & Painting Steel Bridge No. 1	L. Sum	1		1
Cleaning & Painting Steel Bridge No. 2	L. Sum	1		1
Containment & Disposal of Lead Paint Cleaning Residues No. 1	L. Sum	1		1
Containment & Disposal of Lead Paint Cleaning Residues No. 2	L. Sum	1		1

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GENERAL DATA
F.A.P. ROUTE 313 - SECTION (21-HB-11)
KNOX COUNTY
STA. 495+98.72
STRUCTURE NO. 048-0021 (WB)
STRUCTURE NO. 048-0022 (EB)

DESIGNED FT	April 28 2008
CHECKED DPN	EXAMINED <i>Thomas J. Demagallo</i> PRINCIPAL ENGINEER OF BRIDGE DESIGN
DRAWN Gregory D. Farmer	PASSED <i>Ralph E. Anderson</i> ENGINEER OF BRIDGES AND STRUCTURES
CHECKED FT/DPN	