GENERAL NOTES

Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts. Bolts $^{3}/_{4}$"ϕ, holes $^{13}/_{16}$"ϕ, unless otherwise noted.

Calculated weight of Structural Steel is shown in the table below.

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. See Special Provisions.

Reinforcement bars designated (E) shall be epoxy coated.

Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of $^{1}/_{8}$ in. (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.

3 The Organic Zinc Rich Primer / Epoxy / Urethane Paint System shall be used for painting of new structural steel except where otherwise noted. The entire system shall be shop applied, with the exception of the exterior surfaces and the bottom of the bottom flange of fascia beams, masked off connection surfaces, field installed fasteners and damaged areas shall be touched up and finish coated in the field. 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 the bottom of the bottom flange of fascia beams shall be Blue, Munsell No. 10B 3/6. See Special Provision for "Cleaning and Painting New Metal Structures."

Concrete Sealer shall be applied to the designated areas of the piers.

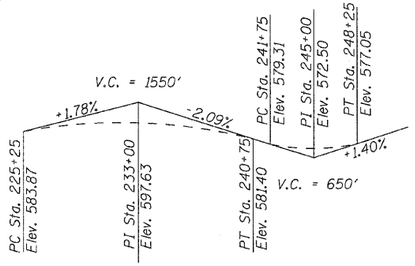
The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.

If the contractor elects to slipform and also to use cantilever forming brackets on the exterior beams, the brackets shall be placed at the same locationsas required for the hardwood blocks. Details for the placement of the finishing machine rails, the spacing of the ties and hardwood blocks, and the placement of the hardwood blocks in each bay are shown on sheet 37 of 41. If additional cantilever forming brackets are required, hardwood blocking shall be placed between webs of beams in each bay at each of these additional bracket locations.

The Protective Shield shall extend from centerline to centerline of the piers in the middle span of each structure and the width shall be the out to out parapet width of each structure plus 3 feet beyond each parapet.

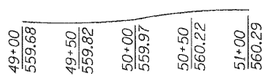
STRUCTURAL STEEL WEIGHT (LBS)

	F_y = 36 ksi	F_y = 50 ksi	Total
EB	9,670	123,023	132,693
WB	9,670	123,023	132,693
Total	19,340	246,045	265,385



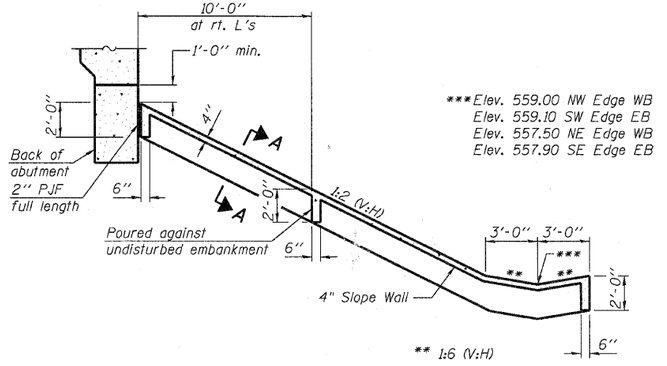
PROFILE GRADE

Along ℄ WB & EB Lanes



EXISTING PROFILE GRADE

Along ℄ 4th Street

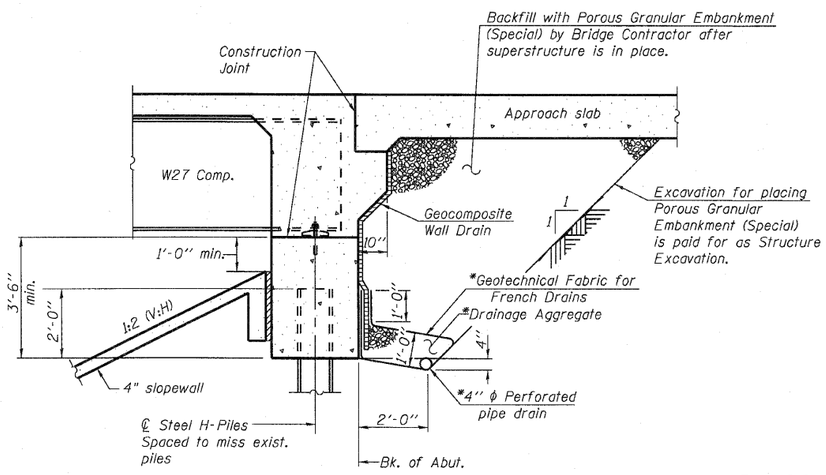


SECTION THRU CONCRETE SLOPEWALL

Slope wall shall be reinforced with welded wire fabric, 6 in. x 6in. - W4.0 x W 4.0, weighing 58 lbs per 100 sq ft.

TOTAL BILL OF MATERIAL

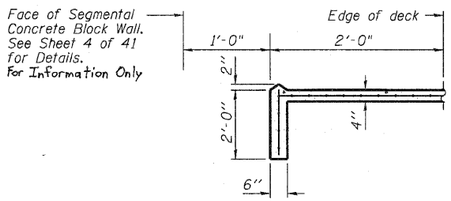
ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment (Special)	Cu. Yd.		221	221
Removal of Existing Structures No. 1	Each			2
Protective Shield	Sq. Yd.	763		763
Structure Excavation	Cu. Yd.		582	582
Concrete Structures	Cu. Yd.		380.4	380.4
Concrete Superstructure	Cu. Yd.	741.7		741.7
Bridge Deck Grooving	Sq. Yd.	1849		1849
Concrete Encasement	Cu. Yd.		8.4	8.4
Protective Coat	Sq. Yd.	2314		2314
Furnishing and Erecting Structural Steel Bridge No. 2	L. Sum	1		1
Stud Shear Connectors	Each	9198		9198
Reinforcement Bars, Epoxy Coated	Pound	159,520	49,620	209,140
Bar Splicers	Each	184		184
Slopewall 4"	Sq. Yd.		1312	1312
Furnishing Steel Piles HP 10x42	Foot		552	552
Driving Piles	Foot		552	552
Pile Shoes	Each		24	24
Name Plates	Each	2		2
Anchor Bolts, $^{3}/_{4}$" ϕ	Each	56		56
Anchor Bolts, 1" ϕ	Each	56		56
Concrete Sealer	Sq. Ft.		4315	4315
Geocomposite Wall Drain	Sq. Yd.		130	130
Pipe Underdrains for Structures, 4"	Foot		305	305
~~Segmental Concrete Block Wall~~	~~Sq. Ft.~~		~~858~~	~~858~~



SECTION THRU INTEGRAL ABUTMENT

*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).



SECTION A-A

3 REVISED 10/29/10

Coombe-Bloxdorf P.C.
-CIVIL ENGINEERS-
-STRUCTURAL ENGINEERS-
-LAND SURVEYORS-
Design Firm License No. 184-002703

PROJECT NO. 09033
SCALE
DATE 5/18/10
DESIGN BY CME
DRAWN BY TFG
CHECKED BY MCB

SHEET NO. 2
41 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
280	81-1 (HB-1)	ROCK ISLAND	503	243
		CONTRACT NO. 64815		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

GENERAL DATA
STRUCTURE NO. 081-0190 (WB)
STRUCTURE NO. 081-0191 (EB)

PLOT DATE = 7/21/2010
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USER NAME = DFC