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GENERAL NOTES

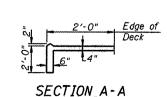
- Fasteners shall be AASHTO M164 Type 3, bolts. Bolts ⁷₈ in. \$\phi\$ in holes ¹⁵₁₆ in. \$\phi\$, or bolts 1 in. \$\phi\$ in holes 1¹₁₆ in. \$\phi\$ unless otherwise noted.
- 2. Calculated weight of Structural Steel:
 a: Arch span Primary members = 2,587,390
 b: Approach span Girder and Cross frame = 290,950
 c: Arch span Intermediate floorbeam, Stringer
 and Lower lateral bracing = 836,430

d: Bolts and splices = 561,340

- 3. All structural steel shall be AASHTO M 270 Grade 50W. Steel designated as M270 Grade 50 T3, M270 Grade 50 F3 (FCM), or "NTR" shall conform to mandatory supplemental impact/notch toughness properties for Zone 3.
- 4. 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.
- Spans 6. Reinforcement bars designated (E) shall be epoxy coated.

Spans 7. 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.

- 8. Bearing seat surfaces shall be constructed or adjusted to their designated elevations within a tolerance of $l_{\rm B}$ inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.
- Concrete Sealer shall be applied to all exposed surfaces of the backwalls, bridge seats, and front faces of pile caps of the West and East Abutments.
- 10. The Inorganic Zinc Rich Primer / Acrylic / Acrylic Paint System shall be used for shop and field painting of new structural steel except where otherwise noted. The color of the final finish coat for all interior exposed steel surfaces shall be gray, Munsell No. 5B 7/1. The interior surfaces of all box section of the Tied Arch structure shall be primed and painted white. The color of the final finish coat for the exterior and bottom flange of the Approach Span fascia beams shall be Light Grey, Munsell No. NB. The color of the final finish coat for the exterior surfaces of the Tied Arch structure shall be Light Grey, Munsell No. NB. See Special Provision for "Cleaning and Painting New Metal Structures."
- Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
- 12. U.N.O. denotes Unless Noted Otherwise.
- 13. A sign which reads, "DANGER CONFINED SPACE ENTER BY PERMIT ONLY" and meets OSHA Standard 1910.146 shall be permanently affixed (welds not permitted) onto each access opening on the structure. The cost of the sign and attachement hardware shall be included in "Furnishing and Erecting Structural Steel". The sign shall be fabricated from steel plate 7"x10"x0.08" and shall be in accordance with the Standard Specifications.

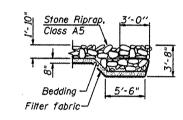


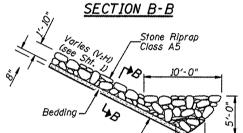


TIED ARCH WARNING SIGN OSHA Std. 1910.146

ROCK RIVER
BUILT 20__ BY
CITY OF ROCKFORD
SEC. 99-00493-00-BR
FA RTE 5077 STA. 49+82.50
STR. NO. 101-6108 LOADING HS-25

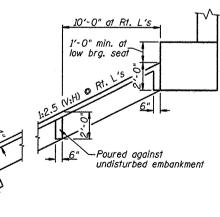
NAME PLATE See Std. 515001





SECTION THRU RIPRAP SLOPEWALL (Horiz. dim. © Rt. L's)

Filter Fabric



SCALE:

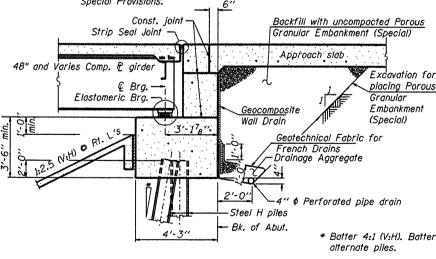
SECTION THRU CONCRETE SLOPEWALL (Horiz. dim. © Rt. L's)

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

TOTAL BILL OF MATERIAL

<u>I</u> tem	Unit	Super	Sub	Total
Stone Riprap, Class A5	Sq Yd	-	1.961	1.961
Filter Fabric	Sq Yd	-	2,033	2.033
Gabions	Cu Yd	-	1,450	1,450
Removal of Existing Structures	Each	-	-	1
Structure Excavation	Cu Yd	-	2,995	2,995
Cofferdam Excavation	Cu Yd	-	1,130	1,130
Cofferdam (Location 1)	Each	-	2	2
Concrete Structures	Cu Yd	45.3	1,259.4	1.304.7
Concrete Superstructures	Cu Yd	1.288.7	-	1.288.7
Bridge Deck Grooving	Sq. Yd.	3,088	+	3,088
Seal Coat Concrete	Cu Yd	-	229.1	229.1
Concrete Encasement	Cu Yd	-	6.3	6.3
Form Liner Textured Surface	Sa Ft	-	1,627	1,627
Protective Coat	Sq Yd	5,054	34	5,088
Furnishing and Erecting Structural Steel	L Sum	1	•	1
Stud Shear Connectors	Each	25.881	-	25,881
Reinforcement Bars	Pound		1.510	1,510
Reinforcement Bars, Epoxy Coated	Pound	361,560	163.410	524,970
Bar Splicers	Each	-	148	148
Slope Wall 4 Inch	Sq Yd	-	296	296
Furnishing Steel Piles HP12x53	Foot	-	20,196	20,196
Driving Piles	Foot	-	20,196	20,196
Test Pile Steel HP12x53	Each	-	4	4
Pile Shoes	Each	-	229	229
Name Plates	Each	1		1
Preformed Joint Strip Seal	Foot	74	-	74
Finger Plate Expansion Joint, 612"	Foot	72	-	72
Elastomeric Bearing Assembly,				
Type I	Each	9		9
Elastomeric Bearing Assembly, Type III	Each	9	-	9
Anchor Bolts, 1"	Each	36	•	36
Anchor Bolts, 1 ¹ 2"	Each	16	-	16
Anchor Bolts, 2"	Each	16	-	16
Concrete Sealer	Sa Ft	-	1.778	1.778
Geocomposite Wall Drain	Sq Yd	-	78	78
Anti-Graffiti Protection System	Sa Ft	-	10,921	10.921
High Load Multi-Rotational Bearings, Fixed - 2750k	Each	2	*	2
Aggregate Column Ground Improvement	L Sum	-	1	1
Porous Granular Embankment, Special	Cu Yd	-	153	153
Bicycle Railing, Special	Foot	1,253	-	1.253
Parapet Railing, Special	Foot	1,281	-	1,281
High Load Multi-Rotaional Bearings, Guided Expansion -2800K	Each	2	-	2
Drainage Scuppers, DS-12	Each	12	-	12
Mechanically Stabilized Earth				
Retaining Wall	Sq Ft	-	5 . 163	5 .1 63
Pipe Underdrains for Structures 4"	Foot		80	80

Note: The cost of salvaging the existing Name Plate and Metal Pedestrian Rail will be included in Removal of Existing Structures. See Special Provisions.



SECTION THRU EAST ABUTMENT (Horiz, dim. © Rt. L's)

CAMT CRAMPORD, MURPHY & TELLY, INC.
CONSULTING ENGINEERS
License No. 184-000613

HNTB

	DESIGNED	-	PA, JDJ, BPD, CJW	REVISED -
	DRAWN	-	GLD	REVISED -
	CHECKED	-	RJK	REVISED -
i	DATE	-	02/04/2011	REVISED -

CITY OF ROCKFORD MORGAN STREET BRIDGE

GENERAL DATA STRUCTURE NO. 101-6108												
	SHEET	NO.	2	OF	79	SHEETS	STA.	47+00.74	TO	STA.	52+63.50	

F.A.L. SECTION COUNTY TOTAL SHEET NO. 5077 99-00493-00-BR WINNEBAGO 253 128

CONTRACT NO. 85529

FED. ROAD DIST. NO. 2 | ILLINOIS| FED. AID PROJECT BRN-5099(65)