

GENERAL NOTES

- Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts. Bolts 7/8" in. ϕ , holes 15/16" in. ϕ , unless otherwise noted.
- Calculated weight of Structural Steel = 352,450 lbs (AASHTO M270 GR. 50)
Calculated weight of Structural Steel = 28,930 lbs (AASHTO M270 GR. 36)
- No field welding is permitted except as specified in the contract documents.
- 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.
- Concrete Sealer shall be applied to the designated areas of the backwalls and bridge seats of the abutments.
- 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 that masked off connection surfaces, field installed fasteners and damaged areas shall be touched up in the field. The color of the final finish coat for all steel surfaces shall be Gray, Munsell No. 5B 7/1.
- The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.
- Slipforming of the parapets is not allowed.
- Layout of slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
- Neither the MSE wall cast-in-place concrete facing, anchorage slab & parapet, approach slabs, nor approach roadway pavements shall be constructed until after the roadway embankment and reinforced select fill have been in place for 7 1/2 months, after which time less than 1 inch of the total anticipated 5 3/4 inches settlement is assumed to remain, without the prior approval of the Engineer. The settlement period may be shortened at the discretion of the Engineer if the monitoring data indicates a lesser than predicted settlement.

INDEX OF SHEETS

- SA1 General Plan & Elevation
- SA2 General Data
- SA3 Riprap Details
- SA4 Top of Slab Elevations I
- SA5 Top of Slab Elevations II
- SA6 Top of Slab Elevations III
- SA7 Top of Approach Slab Elevations
- SA8 Superstructure
- SA9 Superstructure Details I
- SA10 Superstructure Details II
- SA11 Ornamental Aluminum Lattice
- SA12 Architectural Details
- SA13 Bridge Approach Slab
- SA14 Bridge Approach Slab Details
- SA15 Parapet Railing, Special
- SA16 Preformed Joint Strip Seal
- SA17 Drainage Scuppers, DS-33
- SA18 Framing Plan
- SA19 Plate Girder Details
- SA20 Bearing Details
- SA21 South Abutment
- SA22 North Abutment
- SA23 Abutment Details
- SA24 Pile Details
- SA25 MSE Walls
- SA26 MSE Wall Details
- SA27 Anchorage Slabs
- SA28 Anchorage Slabs Details
- SA29 Bar Splicer Assembly Details
- SA30 Boring Logs I
- SA31 Boring Logs II
- SA32 Boring Logs III
- SA33 Boring Logs IV

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A5	Sq. Yd.	-	646	646
Filter Fabric	Sq. Yd.	-	646	646
Cofferdam Excavation	Cu. Yd.	-	970	970
Cofferdam (Type 1) (Location 1)	Each	-	1	1
Cofferdam (Type 1) (Location 2)	Each	-	1	1
Concrete Structures	Cu. Yd.	-	226.9	226.9
Concrete Superstructures	Cu. Yd.	669.2	-	669.2
Bridge Deck Grooving	Sq. Yd.	1,587	-	1,587
Form Liner Textured Surface	Sq. Ft.	-	6,979	6,979
Protective Coat	Sq. Yd.	2,033	-	2,033
Furnishing and Erecting Structural Steel	L. Sum	0.32	-	0.32
Stud Shear Connectors	Each	2,130	-	2,130
Reinforcement Bars, Epoxy Coated	Pound	49,340	22,880	72,220
Bar Splicers	Each	-	154	154
Furnishing Steel Piles HP 14X73	Foot	-	3,900	3,900
Driving piles	Foot	-	3,900	3,900
Test Pile Steel HP 14x73	Each	-	2	2
Pile Shoes	Each	-	52	52
Name Plates	Each	1	-	1
Preformed Joint Strip Seal	Foot	157	-	157
Elastomeric Bearing Assembly, Type I	Each	10	-	10
Anchor Bolts, 1"	Each	20	-	20
Anchor Bolts, 1 1/4"	Each	20	-	20
Concrete Sealer	Sq. Ft.	-	1,307	1,307
Geocomposite Wall Drain	Sq. Yd.	-	54	54
Parapet Railing, Special	Foot	270	-	270
Drainage Scuppers, DS-33	Each	2	-	2
Mechanically Stabilized Earth Retaining Wall	Sq. Ft.	-	9,311	9,311
Staining Concrete Structures	Sq. Yd.	-	775	775
Form Liner Textured Surface, Special	Sq. Ft.	676	-	676
Ornamental Aluminum Lattice	Foot	265	-	265

I:\2154\cad\sheet\Roadway\20-STRUCTURES & WALLS\01_SN_056-007T\056007T-60F72-02-G0_rev2.dgn 10:03:02 AM 5/21/2012



450 E Devon Ave, Suite 300
Itasca, Illinois 60143
Tel: 630.773.3900 Fax: 630.773.3975
www.civiltechinc.com

DRAWN	- M. LANGE	REVISED	- 5/3/12 M.F.L.
DESIGNED	- D. ATKINS	REVISED	-
CHECKED	- G. HATLESTAD	REVISED	-
DATE	- 5/3/2012	REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL DATA
ILLINOIS ROUTE 31 OVER CRYSTAL CREEK
STRUCTURE NO. 056-0077**

O.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0003	18A-2	MCHENRY	825	462
CONTRACT NO. 60F72				
ILLINOIS FED. AID PROJECT				

SHEET NO. SA2 OF SA33 SHEETS