ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
533	119R-2B	McHenry	64	16
FED. ROAD DIST.	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 2 OF 21 SHEETS

Contract #62336

GENERAL NOTES

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

Calculated weight of Structural Steel = 87,270 lbs. (M 270, Gr. 50W) (Including beams, diaphragms, diaphragm gusset plates, end diaphragm splice plates, fixed bearing plates and side retainers.)

All structural steel shall be AASHTO M 270 Grade 50W except expansion joints which shall be AASHTO M 270 Grade 36.

No field welding is permitted except as specified in the contract documents.

Reinforcement bars shall conform to the requirements of ASTM A 706 Grade 60 (IL Modified). See Special Provisions.

Reinforcement bars designated (E) shall be epoxy coated.

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

Structural steel shall only be painted for a distance of 10 feet each way from the deck joints. All structural steel shall be cleaned as specified in the Special Provision for "Surface Preparation and Painting Requirements for Weathering Steel."

All exposed structural steel of the bearings shall be cleaned and shop painted as specified in the Special Provision for "Surface Preparation and Painting Requirements for Weathering Steel."

Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

The Contractor shall drive test piles to 110% of the nominal required bearing specified in production locations at the substructures specified or approved by the Engineer before ordering the remainder of the piles.

The Contractor is advised that the existing PPC Deck Beams are in a deteriorated condition with reduced load carrying capacity. It is the Contractor's responsibility to account for the condition of the beams when developing construction procedures for removal and replacement of the superstructure.

If the Contractor's procedure for existing beam removal or placement of new beams involves placement of cranes or other heavy equipment on the bridge, a detailed procedure shall be submitted to the Engineer for approval. The procedure shall include calculations, prepared and sealed by an Illinois Licensed Structural Engineer, veryfying that the equipment and procedure used will not overstress the new or existing beams. Cost included with Removal of Existing Structures. To distribute load to multiple beams and protect the existing surface, in all cases a double layer mat of heavy timbers shall be used at all times under crane tracks or wheels and any outriggers in the down position. If necessary, shims shall be used under the crane mat to ensure uniform contact with the underlying beams. Cost included with Removal of Existing Structures. If heavy equipment will be placed on new PPC deck beams, the following shall be done prior to placement of the timber mats: placement and tightening of transverse tie assemblies, grouting and curing the dowel rods 24 hours minimum and grouting and curing the shear keys.

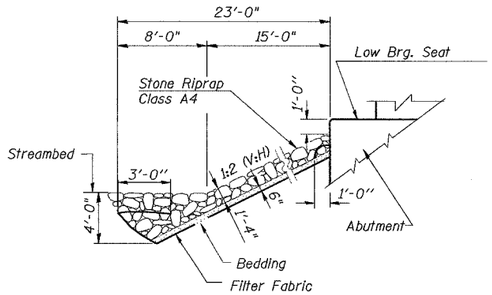
Slipforming of the parapets is not allowed.

The Metal Shell piles shall be according to ASTM A 252 Grade 3.

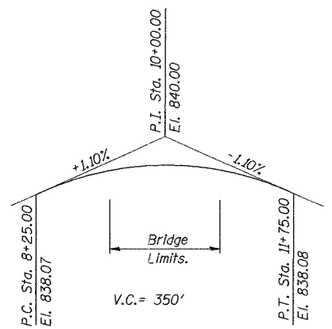
TOTAL BILL OF MATERIAL

ITEMS	UNITS	SUPER-STRUCTURE	SUB-STRUCTURE	TOTAL
Porous Granular Embankment (Special)	CU YD	-	108	108
Stone Riprap, Class A4	SQ YD	-	641	641
Filter Fabric	SQ YD	-	756	756
Removal of Existing Structures	EACH	1	-	1
Structure Excavation	CU YD	-	235	235
Floor Drains	EACH	8	-	8
Concrete Structures	CU YD	-	92.7	92.7
Concrete Superstructure	CU YD	116.1	-	116.1
Bridge Deck Grooving	SQ YD	310	-	310
Protective Coat	SQ YD	409	-	409
Erecting Structural Steel	L. SUM	1	-	1
Stud Shear Connectors	EACH	1,890	-	1,890
Reinforcement Bars, Epoxy Coated	LB	26,710	14,330	41,040
Bar Splicers	EACH	278	124	402
Furnishing Metal Shell Piles 14" x 0.250"	FOOT	-	1,908	1,908
Driving Piles	FOOT	-	1,908	1,908
Test Pile Metal Shells	EACH	-	2	2
Temporary Sheet Piling	SQ FT	-	1,244	1,244
Name Plates	EACH	1	-	1
Preformed Joint Strip Seal	FOOT	84	-	84
Erecting Elastomeric Bearing Assembly, Type I	EACH	6	-	6
Anchor Bolts 1¼"	EACH	-	24	24
Concrete Sealer	SQ FT	-	927	927
Geocomposite Wall Drain	SQ YD	-	77	77
Pipe Underdrains for Structures 4"	FOOT	-	123	123

INDEX OF SHEETS



STONE RIPRAP ANCHOR DETAIL



PROFILE GRADE

along ℄ IL Rte. 176

DESIGNED	J.Z.
CHECKED	S.D.H.
DRAWN	M.S.M.
CHECKED	S.D.H.

GENERAL NOTES & TOTAL BILL OF MATERIAL
IL Route 176 over the Kishwaukee River
F.A.P. RTE 533, SECTION 119R-2B
McHENRY COUNTY
STATION 10+00.00
S.N. 056-0078

DATE: 10-05-07

GRAEF, ANHALT, SCHLOEMER & ASSOCIATES INC
CHICAGO ILLINOIS

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