

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. Rt. 305	2BR-2-RS-1	McHenry	53	15
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

CONTRACT NUMBER: 60756

GENERAL NOTES

- Fasteners shall be high strength bolts. Bolts M22, open holes 24 mm ϕ , unless otherwise noted.
- Calculated mass of Structural Steel
= 45,296 kg. (AASHTO M 270M Grade 345)
= 7,028 kg. (AASHTO M 270M Grade 250)
- Field welding of construction accessories will not be permitted to beams or girders.
- Anchor bolts shall be set before bolting diaphragms over supports.
- The main load carrying member components subject to tensile stress shall conform to the Supplemental Requirements for Notch Toughness Zone 2. These components are the wide flange beams, and all splice plate material except fill plates.
- Reinforcement bars shall conform to the requirements of AASHTO M31M or M322M, Grade 400.
- Slope wall shall be reinforced with welded wire fabric, 152 x 152 -MW25.8 x MW25.8, with a mass of 2.91 kg/sq. m.
- Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 3 mm. Adjustment shall be made either by grinding the surface or by shimming the bearing. For Type I Elastomeric Bearings, two 3 mm adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as detailed.
- The contractor shall drive 2 test piles in a permanent location, one at each Abutment, as directed by the Engineer, before ordering the remainder of piles.
- All dimensions are in millimeters (mm) except as noted.
- The structural steel bearing plates of the Elastomeric Bearing Assembly shall conform to the requirements of AASHTO M 270M Grade 345.
- The Inorganic Zinc Rich Primer / 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 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 Reddish Brown, Munsell No. 2.5 YR 3/4. See Special Provision for "Cleaning and Painting New Metal Structures". Only field coats and repair of damaged shop primed areas are included in this Contract.
- Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field 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 the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price for the work.
- All construction joints shall be bonded.


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TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY		TOTAL
		SUPER STRUCT.	SUB STRUCT.	
Removal of Existing Superstructures	Each	1	-	1
Concrete Removal	Cu. Meter	-	41	41
Slope Wall Removal	Sq. Meter	-	226	226
Structure Excavation	Cu. Meter	-	119	119
Concrete Structures	Cu. Meter	-	41	41
Concrete Superstructure	Cu. Meter	173	-	173
Bridge Deck Grooving	Sq. Meter	426.1	-	426.1
Protective Coat	Sq. Meter	696.5	-	696.5
Erecting Elastomeric Bearing Assembly, Type 1	Each	-	18	18
Erecting Structural Steel	Lump Sum	1	-	1
Stud Shear Connectors	Each	3,312	-	3,312
Reinforcement Bars, Epoxy Coated	kg	24,680	4,140	28,820
Slope Wall 100	Sq. Meter	-	295.6	295.6
Furnishing Metal Pile Shells 356mm	Meter	-	126	126
Driving & Filling Shells	Meter	-	126	126
Test Pile Metal Shells	Each	-	2	2
Temporary Sheet Piling	Sq. Meter	-	29.5	29.5
Name Plates	Each	1	-	1
Formed Concrete Repair (Depth equal to or less than 125mm)	Sq. Meter	-	3.6	3.6
Formed Concrete Repair (Depth greater than 125mm)	Sq. Meter	-	3.6	3.6
Epoxy Crack Sealing	Meter	-	3.9	3.9
Porous Granular Embankment	Cu. Meter	-	88	88
Bar Splicers	Each	615	52	667
Bridge Fence Railing (Sidewalk)	Meter	58.2	-	58.2
Parapet Railing	Meter	58.2	-	58.2
Floor Drain	Each	6	-	6

GENERAL NOTES, INDEX OF SHEETS & TOTAL BILL OF MATERIAL

Date	Designed MR	SOUTH ST. OVER US 14 FAP ROUTE NO. 305 SECTION 2BR-2-RS-1 STATION 29+999.897 COUNTY McHENRY STRUCTURE NO. 056-3015	Sheet No.
Revisions	Drawn MR/RV		2
	Checked KSM		of 31
	Approved KSM		
 HARRY O. HEFTER-ASSOCIATES, INC. DESIGN AND CONSULTING ENGINEERS		55 East Jackson Blvd. Chicago, Illinois 60604 312346-8131	File Name: 1962S02.DGN
			Job No. 1962

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