

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET	SHEET NO. 2
FAP 777	10B-1	MONTGOMERY	104	54	23 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-	Contract #92667		

STATION 500+44.04
BUILT 200 BY
STATE OF ILLINOIS
F.A.P. RT. 777 SECTION 10B-1
LOADING HS20
STR. NO. 068-0505

NAME PLATE
See Std. 515001

GENERAL NOTES

Fasteners shall be high strength bolts (AASHTO M164, Type 3). Bolts $7/8"$ ϕ , open holes $15/16"$ ϕ unless otherwise noted.
Calculated weight of Structural Steel = 102,770 pounds (M270 Gr. 50W).
All structural steel shall be AASHTO M270 Grade 50W.
Field welding of construction accessories will not be permitted to the beams.
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 M31 or M322 Grade 60.
Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of $1/8$ inch. Adjustment shall be made either by grinding the surface or by shimming the bearing. Two $1/8"$ adjusting shims, of the dimensions of the bottom bearing plate, shall be provided for each bearing in addition to all other plates or shims.
The Contractor shall drive one (1) steel HP8x36 test pile in a permanent location at the West Abutment as directed by the Engineer before ordering the remainder of piles.
AASHTO M270 Grade 50W structural steel shall only be painted, at the ends of the beams, for a distance equal to the depth of embedment into the concrete cap plus 3 inches. Those areas shall be primed in the shop with an inorganic zinc rich primer per AASHTO M300, Type I. No field painting shall be required. All structural steel shall be cleaned as specified in the special provision for "Surface Preparation and Painting Requirements for Weathering Steel".
All construction joints shall be bonded.
Excavation behind existing abutment walls shall be done before removing the existing superstructure. The Contractor shall saw cut the existing abutments at the stage removal line before Stage 1 removal.

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TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment (Special)	Cu. Yd.		89.7	89.7
Stone Riprap, Class A4	Sq. Yd.		681.2	681.2
Filter Fabric	Sq. Yd.		681.2	681.2
Removal of Existing Structures	Each			1
Structure Excavation	Cu. Yd.		166.1	166.1
Driving Steel Piles	Foot		374	374
Floor Drains	Each	3		3
Concrete Structures	Cu. Yd.		148.7	148.7
Concrete Superstructure	Cu. Yd.	186.3		186.3
Bridge Deck Grooving	Sq. Yd.	529		529
Protective Coat	Sq. Yd.	695.6		695.6
Furnishing & Erecting Structural Steel	L. Sum	1		1
Stud Shear Connectors	Each	2676		2676
Reinforcement Bars, Epoxy Coated	Pound	41090	14280	55370
Furnishing Steel Piles HP8x36	Foot		374	374
Test Pile Steel HP8x36	Each		1	1
Setting Piles in Rock	Each		12	12
Furnishing Steel Piles HPI2x53	Foot		408	408
Temporary Soil Retention System	Sq. Ft.		1026.0	1026.0
Name Plates	Each	1		1
Drainage Scuppers, DS-11	Each	2		2
Underwater Structure Excavation Protection - Location 1	Each		1	1
Underwater Structure Excavation Protection - Location 2	Each		1	1
Bar Splicers	Each	517	124	641
Pipe Underdrains for Structures, 4"	Foot		126.9	126.9
Geocomposite Wall Drain	Sq. Yd.		53.4	53.4

DESIGNED	Daniel F. Zerrusen	Feb 3, 2006
CHECKED	Stephen M. Ryan	
DRAWN	R. Doty	h.t. duong
CHECKED	DFZ/SMR	

EXAMINED *Thomas J. Damagala*
ENGINEER OF BRIDGE DESIGN
PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES

GENERAL DATA
F.A.P. ROUTE 777 SECTION 10B-1
MONTGOMERY COUNTY
STATION 500+44.04
STRUCTURE NO. 068-0505