68201

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	(90-13HVB)BY	TAZEWELL	1366	451
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 3
68 SHEETS

GENERAL NOTES

1. Fasteners shall be high strength bolts . Bolts M22, open holes 24 mm ϕ, unless otherwise noted.
2. Calculated mass of Structural Steel = 166,780 kg (M 270M, GR 250)
3. Roadway expansion guards shall be assembled in the proper position with the ends in place and shall be left assembled for shop inspection.
4. The roadway expansion plates shall be flame cut as provided in Article 505.04(k) of the Standard Specifications.
5. Field welding of construction accessories will not be permitted to the beams or girders.
6. Anchor bolts shall be set before bolting diaphragms or cross frames over supports.
7. 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, the tension flanges, webs and all splice plate material except fill plates.
8. Reinforcement bars shall conform to the requirements of AASHTO M 31M or M 322M Grade 400.
9. 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 bid for the work.
10. Slopewall shall be reinforced with welded wire fabric, 152 x 152 - MW25.8 x MW25.8, with a mass of 2.91 kg/m^2.
11. 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. Two 3 mm adjusting shims, of the dimensions of the bottom bearing plate, shall be provided for each bearing in addition to all other plates or shims. For Type I Elastomeric Bearings, two 3 mm adjusting shims shall be provided for each bearing and placed as detailed.
12. The Contractor shall drive 1 HP360 X 108 test pile in permanent location at WB Pier 1 and 1 HP310X79 test pile each in a permanent location at North Abutment and South Abutment WB as directed by the Engineer before ordering the remainder of piles.
13. Bridge Seat Sealer shall be applied to the seat area of the North and South Abutments WB, Piers 1, 4 and 7 WB.
14. When the deck pour is stopped for the day at one or more of the Transverse Bonded Construction Joints in the deck Pouring Sequence as shown, the next pour shall not be made until both of the following requirements are met:
    1. At least 72 hours shall have elapsed from the end of the previous pour.
    2. The concrete strength shall have attained a minimum modulus of rupture of 4.5 MPa or a minimum compressive strength of 24 MPa.
15. All dimensions are in millimeters (mm) except as noted.
16. The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
17. Cleaning and painting of the existing structural steel shall be as specified in the Special Provision for "Cleaning and Painting Existing Steel Structures". All existing beams, girders, bearings and other structural steel within 1.5 m (measured along the beams and girders) of either side of deck joints shall be cleaned per Near White Blast Cleaning - SSPC-SP10. The exterior surfaces and bottom flanges of the fascia beams and girders shall be cleaned per Power Tool Cleaning - Commercial Grade. All remaining existing structural steel shall be cleaned per Power Tool Cleaning - Modified SSPC-SP3.

    The designated areas cleaned per Near White Blast Cleaning - SSPC-SP10 and per Power Tool Cleaned - commercial Grade shall be painted according to the requirements of Paint System 1 - OZ/E/U. The designated areas cleaned per Power Tool Cleaning - Modified SSPC-SP3 shall be painted according to the requirements of Paint System 2 - PS/EM/U. The color of the final finish coat for all interior steel surfaces shall be old IDOT Gray, Munsell No. 10Y 7/1. The color of the final finish coat for the exterior and bottom flanges of the fascia beams and girders shall also be old IDOT gray, Munsell No. 10Y 7/1.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

18. Prior to pouring the new concrete for the deck, all loose rust, loose mill scale and all other loose potentially detrimental foreign material shall be removed from the surfaces of the portions of flanges of beams or girders in contact with concrete. The removal shall be accomplished with appropriate power hand tools. Cost shall be included in the pay item covering removal of the existing concrete. All heavy rust and other tightly adhered potentially detrimental foreign matter shall be removed from the surfaces of the beams or girders in contact with concrete. Tightly adhered paint may remain unless otherwise noted. This removal shall be accomplished by methods that will not damage the steel. The cost of this work will be paid for according to Article 109.04.
19. The Inorganic zinc rich primer / Epoxy/ Urethane 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 steel surfaces shall be old IDOT gray, No. 10Y 7/1.
20. All existing construction accessories welded to the top flange over piers 2, 3, 5 and 6 between the quarter points of the existing girders shall be removed. The remaining welds shall be ground smooth and inspected for cracks using magnetic particle testing. Any cracks that cannot be removed by grinding approximately 6 mm deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. The cost of this work will be paid for according to Article 109.04.
21. 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 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.
22. All soil data collected and processed for the Soil Report made in conjunction with the design of this improvement is on file at the District Office where it is available for the inspection of Contractors or prospective bidders.
23. All elevations shown on the plans are established from U.S.G.S. mean sea level datum.
24. Commitments are not to be altered without written approval of all parties to which the commitment was made.
25. The Contractor shall submit to the Engineer a satisfactory progress schedule and critical path schedule which show the proposed sequence of work at the time of the pre-construction conference.
26. All construction joints shall be bonded.

INDEX OF DRAWINGS

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER STRUCT	SUB STRUCT.	TOTAL
REMOVAL OF EXISTING CONCRETE DECK	L SUM	1	-	1
CONCRETE REMOVAL	CU M	-	122.2	122.2
STRUCTURE EXCAVATION	CU M	-	568	568
NEOPRENE EXPANSION JOINT 50MM	METER	80	-	80
ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	12	-	12
ELASTOMERIC BEARING ASSEMBLY, TYPE II	EACH	24	-	24
FLOATING BEARINGS, GUIDED EXPANSION, 1500 KN	EACH	12	-	12
JACK AND REMOVE EXISTING BEARINGS	EACH	30	-	30
CONCRETE STRUCTURES	CU M	-	510	510
CONCRETE SUPERSTRUCTURE	CU M	861.5	-	861.5
BRIDGE DECK GROOVING	SQ M	3,799	-	3,799
PROTECTIVE COAT	SQ M	4,787	-	4,787
FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	.30	-	0.30
STRUCTURAL STEEL REMOVAL	KG	1,540	-	1,540
REMOVAL OF EXISTING BEARINGS	EACH	10	-	10
STUD SHEAR CONNECTORS	EACH	12,334	-	12,334
REINFORCEMENT BARS, EPOXY COATED	KG	130,410	28,190	158,600
FURNISHING STEEL PILES HP360X108	METER	-	524.6	524.6
FURNISHING STEEL PILES HP310X79	METER	-	132	132
DRIVING STEEL PILES	METER	-	656.6	656.6
TEST PILE STEEL HP360X108	EACH	-	1	1
TEST PILE STEEL HP310X79	EACH	-	2	2
SLOPE WALL REMOVAL	SQ M	-	306	306
SLOPE WALL 150MM	SQ M	-	107.4	107.4
SLOPE WALL 100MM	SQ M	-	482	482
BRIDGE SEAT SEALER	SQ M	-	73.1	73.1
EPOXY CRACK SEALING	METER	-	34.2	34.2
FORMED CONCRETE REPAIR (DEPTH EQUAL TO OR LESS THAN 125MM)	SQ M	-	3.7	3.7
PROTECTIVE SHIELD	SQ M	1,550	-	1,550
JACKING AND SHORING EXISTING GIRDERS	L SUM	1	-	1
BAR SPLICERS	EACH	-	98	98
CLEANING AND PAINTING STEEL BRIDGE	L SUM	1	-	1
DRAINAGE SYSTEM	L SUM	1	-	0.14
FLOOR DRAINS	EACH	7	-	7
DRAINAGE SCUPPERS, TYPE 1	EACH	7	-	7
NAME PLATES	EACH	1	-	1
FABRIC REINFORCED ELASTOMERIC TROUGH	METER	19.4	-	19.4
BRACED EXCAVATION	CU M	-	278	278
CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES	L SUM	1	-	1
PERMANENT SURVEY MARKERS, TYPE I	EACH	-	1	1

GENERAL NOTES, INDEX AND QUANTITIES

Date / Revisions			
	Designed EV	WESTBOUND F.A.I. ROUTE 74 OVER CAMP STREET, FARM CREEK, AND TP&W RR F.A.I. RTE. 74 SECTION (90-13HVB)BY TAZEWELL COUNTY STATION 153+625.193 STRUCTURE NO. 090-0009	Sheet No. 3 of 68
	Drawn EV		
	Checked NPP		
	Approved NPP		
Prepared By: BRW, Inc. A Division of URS		1701 Golf Rd., Suite 1000 Rolling Meadows, IL.	BRW Job No. 17049-071

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