

68201	ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	FAI 74	*	TAZEWELL	1366	548
STA.			TO STA.		
F.H.W.A. REGION			ILLINOIS PROJECT		
SHEET 3 OF 56					

## GENERAL NOTES

1. Fasteners shall be high strength bolts. Bolts M20, open holes 22 mm dia., unless otherwise noted.
2. Calculated mass of Structural Steel:  
AASHTO M270M Grade 345 = 382,330 kg  
AASHTO M270M Grade 250 = 600 kg
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 beams or girders.
6. Anchor bolts shall be set before bolting 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 tension flanges, webs, and all splice plate material except fill plates.
8. Reinforcement bars shall conform to the requirements of AASHTO M-31M or M322M, Grade 400.
9. Slope wall shall be reinforced with welded wire fabric, 152 x 152 - MW25.8 x MW25.8 with a mass of 2.91 kg/m<sup>2</sup>.
10. The embankment configuration shown shall be the minimum embankment that must be constructed prior to construction of the abutments.
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.
12. The Contractor shall drive 1 test piles in permanent location at the North Abutment and Pier 4 as directed by the Engineer before ordering the remainder of the piles.
13. Bridge Seat Sealer shall be applied to the seat area of both abutments.
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:  
a) At least 72 hours shall have elapsed from the end of the previous pour.  
b) The concrete strength shall have attained a minimum flexural strength of 4.5MPa or a minimum compressive strength of 24MPa.
15. All dimensions are in millimeters (mm) except as noted.
16. All construction joints shall be bonded.
17. 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 interior steel surfaces shall be gray, Munshell No. 5B 7/1. The color of the final finish coat for the exterior and bottom flange of the fascia girders shall be light gray, Munshell No. 10Y 7/1. See special provisions for "Cleaning and Painting New Metal Structures."

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## TOTAL BILL OF MATERIAL

PAY ITEM	UNIT	SUPER	SUB	TOTAL
ELASTOMERIC BEARING ASSEMBLY, TYPE II	EACH		4	4
ELASTOMERIC BEARING ASSEMBLY, TYPE III	EACH		4	4
STUD SHEAR CONNECTORS	EACH	4,892		4,892
NAME PLATES	EACH	1		1
POROUS GRANULAR EMBANKMENT	CU M		111	111
STRUCTURE EXCAVATION	CU M		199	199
ROCK EXCAVATION FOR STRUCTURES	CU M		8	8
CONCRETE STRUCTURES	CU M		195.4	195.4
CONCRETE SUPERSTRUCTURE	CU M	538.9		538.9
BRIDGE DECK GROOVING	SQ M	1,538		1,538
PROTECTIVE COAT	SQ M	2,212		2,212
FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	0.7		0.7
REINFORCEMENT BARS, EPOXY COATED	KG	83,850	43,260	127,110
SLOPE WALL 100 MM	SQ M		311	311
FURNISHING STEEL PILES HP360x132	METER		186.0	186.0
DRIVING STEEL PILES	METER		186.0	186.0
TEST PILE STEEL HP360x132	EACH		2	2
BRIDGE SEAT SEALER	SQ M		42	42
BRACED EXCAVATION	CU M		63	63
FLOATING BEARINGS, FIXED - 1850KN	EACH		4	4
FLOATING BEARINGS, GUIDED EXPANSION, 1500KN	EACH		8	8
FLOATING BEARINGS, GUIDED EXPANSION, 2000KN	EACH		4	4
DRILLED SHAFT IN SOIL 915MM	METER		25.5	25.5
DRILLED SHAFT IN SOIL 1830MM	METER		1.0	1.0
DRILLED SHAFT IN SOIL 1980MM	METER		4.5	4.5
DRILLED SHAFT IN ROCK 760MM	METER		20.5	20.5
DRILLED SHAFT IN ROCK 1830MM	METER		16.5	16.5
FABRIC REINFORCED ELASTOMERIC TROUGH	METER	17.5		17.5
DRAINAGE SCUPPERS, TYPE 1	EACH		5	5
BAR SPLICERS	EACH		61	61
DRAINAGE SYSTEM	L SUM	0.67		0.67

STATION 10+529.222  
BUILT 200\_ BY  
STATE OF ILLINOIS  
F.A.I RT.74 SEC. 090-11HB-5  
LOADING MS18  
STR. NO. 090-0156

**NAME PLATE**  
See Std. 515001

DESIGNED	HAA
CHECKED	KWS
DRAWN	VH
CHECKED	LRB

**ab** **alfred benesch & company**  
CONSULTING ENGINEERS  
205 NORTH MICHIGAN AVENUE, CHICAGO, ILLINOIS 60601  
JOB NO. 3513

ILLINOIS DEPARTMENT OF TRANSPORTATION  
RAMP K-2 OVER  
MAIN ST & RAMP J-3  
F.A.I. ROUTE 74 (I-74)  
SECTION 90-11HB-5  
**GENERAL NOTES, DRAWING INDEX,  
AND BILL OF MATERIALS**  
SN: 090-0156 STA. 10+529.222  
TAZEWELL CO., IL. DATE: 12-23-04