			CONSTRUCTION TYPE CODE				
CODE No.	ITEM	UNIT	TOTAL QUANTITY	URBAN BRIDGE SN-090-0044	URBAN BRIDGE SN 090-0046	URBAN BRIDGE SN 090-0120	URBAN ROADWAY
20200150	TRENCH BACKFILL	CU YD	1	0013	0013	0013	0006
20800150							I
44000100	PAVEMENT REMOVAL	SQ YD	56				56
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	246				246
50102400	CONCRETE REMOVAL	CU YD	135.2	45.3	60.1	29.8	
50300225	CONCRETE STRUCTURES	CU YD	70.2		70.2		
50300255	CONCRETE SUPERSTRUCTURES	CU YD	29.8			29.8	
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	8080	4420	3660		
50606701	CLEANING AND PAINTING STRUCTURAL STEEL, LOCATION 1	LSUM	1	1			-
50606702	CLEANING AND PAINTING STRUCTURAL STEEL, LOCATION 2	LSUM	1		1		
50606703	CLEANING AND PAINTING STRUCTURAL STEEL, LOCATION 3	LSUM	1			1	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	15290		10590	4700	
	BAR SPLICERS	EACH	24			24	
	ALUMINUM RAILING, TYPE L	FOOT	9	* * * * * * * * * *	· · · · · · · · · · · · · · · · · · ·	<u>9</u>	
	PREFORMED JOINT STRIP SEAL	FOOT	233		·····	233	\mathcal{A}
32000110		FOOT	200			200	
52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE 1	EACH	10		10		
52100510	ANCHOR BOLTS, 3/4"	EACH	80		80		
52100520	ANCHOR BOLTS, 1"	EACH	54	54			
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	7				7
60234200	INLETS, TYPE A, TYPE 1 FRAME, OPEN LID	EACH	1				1
60255500	MANHOLES TO BE ADJUSTED	EACH	1				1
60260100	INLETS TO BE ADJUSTED	EACH	2				2
63302400	REMOVE AND RE-ERECT TRAFFIC BARRIER TERMINAL, TYPE 5	EACH	1			1	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	8	4	2	2	
67100100	MOBILIZATION	LSUM	1	0.34	0.33	0.33	



1/2018								F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	STATE OF ILLINOIS			SIIMMAR	Y OF QUAN	ITITIES		404	(50B-4)BR;12[(HVB,HB)BR]BR	TAZEWELL	61	3
	DEPARTMENT OF TRANSPORTATION		,						124	CONTRACT	NO.68	D59
		SCALE:	SHEET	OF	SHEETS ST	TA.	TO STA.		ILLINOIS FED. AI	D PROJECT	AZEWELL 61 ONTRACT NO.68D	
									A REV 1/9/19	RFV 11/30/18	RFV. 11	/30/18



INDEX OF SHEETS

- 1. General Plan and Elevation
- General Data
- 3. Temporary Concrete Barrier for Stage Construction
- 4. Concrete Removal Details
- 5. Superstructure
- 6. Superstructure
- 7. Superstructure Details
- 8. Preformed Joint Strip Seal Sidewalk
- 9. Preformed Joint Strip Seal Sidewalk 10. North Abutment Concrete Removal
- 11. North Abutment Concrete Repairs
- 12. South Abutment Concrete Removal
- 13. South Abutment Concrete Repairs
- 14. Existing Steel Cleaning and Painting Details
- 15. Bar Splicer Assembly and Mechanical Splicer Details

SCOPE OF WORK

- To be completed under stage construction.
- Replace joints at both abutments. 1. Clean and paint structural steel at 2.
- designated locations.

DESIGN STRESSES

Existing Structure f'c = 3,500 psi fy = 60,000 psi (Reinforcement) fy = 36,000 psi (M183 Grade 36) New Construction f'c = 4,000 psi (Superstructure) $f_{V} = 60,000 \text{ psi} (Reinforcement)$ $f_y = 36,000 \text{ psi} (M270 \text{ Grade } 36)$

DESIGN SPECIFICATIONS 2002 AASHTO Standard Specifications for Highway Bridges 1983 AASHTO Guide Specifications for Seismic Design of Highway Bridges

LOADING HS20-44 Allow 25#/sq. ft. for future wearing surface.

SEISMIC DATA Seismic Performance Category (SPC) = A

GENERAL PLAN & ELEVATION WASHINGTON STREET OVER FARM CREEK F.A.U. 6707 - SEC. (50B-4)BR; 12[(HVB,HB)BR]BR TAZEWELL COUNTY STATION 46+55.62 STRUCTURE NO. 090-0120

ID ELEVATION 090-0120		SECTION			COUNTY	TOTAL SHEETS	SHEET NO.
		(50B-4)BR; 12[(HVB,HB)BR]BR			TAZEWELL	61	47
					CONTRA	CT NO. 6	8D59
5 SHEETS		ILLINOIS FED.			D PROJECT		
				V 1/9	9/19		

GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated.

Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete. As directed by the Engineer, existing construction accessories welded to the top flange of beams shall be removed. The weld areas shall be ground flush and inspected for cracks using magnetic particle testing (MT) or dye penetrant testing (PT) by qualified personnel approved by the Engineer. Any cracks that cannot be removed by grinding $\frac{1}{4}$ in. deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. The cost of removing welded accessories, grinding and inspecting weld areas and grinding cracks will be paid for according to Article 109.04 of the Standard Specifications.

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contactor shall field verify existing dimensions and details affecting new construction 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 scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

The existing structural steel does not contain lead paint.

Joint openings shall be adjusted according to Article 520.04 of the Standard Specifications when the deck is poured at ambient temperature other than 50°F.

Cleaning and painting of the existing structure steel shall be as specified in the special provisions for "Cleaning and Painting Existing Steel Structures". All beams, bearings and other structural steel within 5 ft. (measured along the beam) of either side of the deck joints shall be cleaned per Near White Blast Cleaning -SSPC-SP-10.

The designated areas cleaned per Near White Blast Cleaning - SSPC-SP-10 shall be painted according to the requirements of Paint System 1 – 0Z/E/U.

The color of the final finish coat for all steel surfaces shall be Blue, Munsell NO. 10B 3/6. Containment and disposal of non-lead paint cleaning residues shall be as specified in special provisions for

"Containment and Disposal of Non-Lead Paint Cleaning Residues". This work shall consist of the containment, collection, temporary storage, transportation and disposal of waste from non-lead paint removal projects. Waste requiring containment and control includes, but is not limited to, old paint, spent abrasives, corrosion products, mill scale, dirt, dust, grease, oil, and salts.

The painting Contractor shall be SSPC-QP1 certified for this project and shall maintain certification throughout the duration of the project.









I-					· · · · · · · · · · · · · · · · · · ·		
<u>-</u>	200 E. Main St., Suite 10 Billyrile, Illineis 62220	USER NAME =	DESIGNED - KS	REVISED 2 1/08/2019 B.B.		GENERAL DATA	
ME	Kaskaskia		CHECKED - BB	REVISED -	STATE OF ILLINOIS		
Ž	PROFESSIONAL IEGISTRATIONS LICENSE NO. IEIGISPROSSIONAL IEGISTRATIONS LICENSE NO.	PLOT SCALE =	DRAWN - KS	REVISED -	DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 09	
FILE	Professional Engineering Group 20-5080686	PLOT DATE =	CHECKED - BB	REVISED -		SHEET 2 OF 15 SH	

TEM	UNIT	SUPER	SUB	TOTAL
al	Cu. Yd.	29.8		29.8
structure	Cu. Yd.	29.8		29.8
Bars, Epoxy Coated	Pound	3170	1530	4700
Strip Seal	Foot	233		233
inting Steel Bridge No. 3	L. Sum	1		1
	Each	16	8	24
Disposal of non-lead Residues No. 3	L. Sum	1		1
erect Traffic Barrier 5	Each	1		1
g, Type L	Foot	9		9

TOTAL BILL OF MATERIAL

- @ F.A.U. 6707

Ç F.A.U. 6707



1/8/2019 8:10:11 AM

Length	Shape
34'-1"	
29'-0"	
29'-8"	
34'-1" 29'-0" 29'-8" 32'-1"	
2'-6"	
11'-0"	
1'-8"	
3'-6"	
2'-6" 11'-0" 1'-8" 3'-6" 2'-10" 1'-9" 1'-5"	
1'-9"	
1'-5"	
1'-11"' 5'-8" 8'-2" 2'-0" 2'-5" 8'-9" 5'-10" 5'-5" 2'-6"	
5'-8''	
8'-2''	
2'-0''	
2'-5"	
8'-9''	
5'-10''	
5'-5''	
2'-6"	
6'-0''	
2'-11"	
5'-0"	
2'-11" 5'-0" 3'-9" 3'-5" 2'-1" 3'-0"	
3'-5"	
2'-1"	
3'-0"	
2'-7"	

Bar	No.	Size	Length	Shape
e(E)	3	#4	2'-6"	
e1(E)	3 3 3 3 3 3 3 3 3 3 3	#4	1'-8''	
e2(E)	3	#4	2'-11"	
e3(E)	3	#4	3'-9''	
e4(E)	3	#4	1'-9" 1'-5"	
e5(E)	3	#4	1'-5"	
e6(E)	3	#4	2'-7"	
e7(E)	3	#4	2'-10"	
e8(E)	4	#4	1'-7"	
e9(E)	4	#4	0'-5"	
e10(E)	1	#8	0'-5''	
e11(E)	4	#4	1'-0''	
e12(E)	4	#4	2'-3''	
e13(E)	1	#8	2'-3'' 2'-3''	
e14(E)	4	#4	3'-0'' 2'-3''	
e15(E)	4	#4	2'-3''	
e16(E)	1	#8	2'-3"	
e17(E)	4	#4	1'-4'' 2'-3''	
e18(E)	4	#4	2'-3''	
e19(E)	1	#8	2'-3''	
e20(E)	1	#8	2'-3'' 1'-7''	
e21(E)	1	#8	1'-0''	
e22(E)	1	#8	3'-0"	
e23(E)	1	#8	1'-4"	
x(E)	184	#5	2'-7"	
Concrete	Superstr	ructure	Cu.Yd.	17.7
Reinforce	ment Bar	rs,	Pound	3170
EDOXV CO	ated		Pouna	5170

2	7		
		3-b1(E), 3-b3(E) & 2-c2(E) bars	
A	BCC	Cut Line	

FIELD CUTTING DIAGRAM

(b1(E), b3(E) and c2(E) bars)

Bar	A B		С	D
b1(E)	11'-0"	2'-9"	8'-3"	6'-0"
b3(E)	3'-6"	1'-7"	1'-11"	2'-6¾"
c2(E)	8'-2"	2'-10"	5'-4"	4'-6"

Notes

Length of parapet shown in Parapet Elevations is taken along the back face of parapet. See sheet 6 of 15 for Bar Bend Details.

BILL OF MATERIAL CONT'D

URE DETAILS 0. 090-0120		SEC	TION	COUNTY TOTAL SHEET		SHEET NO.	
		(50B-4)BR; 12[(H	IVB,HB)BR]BR	TAZEWELL	61	53	
				CONTRA	CT NO. 6	38D59	
15 SHEETS	ILLINOIS FED. AID PROJECT						
rREV 1/9/19							