

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				90% FEDERAL / 10% STATE	
				ROADWAY	BRIDGE
				0005 URBAN	0013 URBAN
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	158.9		158.9
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	26260		26260
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	390410		390410
50800515	BAR SPLICERS	EACH	114		114
50800530	MECHANICAL SPLICERS	EACH	247		247
51100100	SLOPE WALL 4 INCH	SQ YD	67		67
51500100	NAME PLATES	EACH	1		1
52000110	PREFORMED JOINT STRIP SEAL	FOOT	1753		1753
52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	50		50
52100020	ELASTOMERIC BEARING ASSEMBLY, TYPE II	EACH	28		28
52100030	ELASTOMERIC BEARING ASSEMBLY, TYPE III	EACH	7		7
52100510	ANCHOR BOLTS, 3/4"	EACH	28		28
52100520	ANCHOR BOLTS, 1"	EACH	126		126
52100540	ANCHOR BOLTS, 1 1/2"	EACH	58		58

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USER NAME = owenbj	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 8/14/2019	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SCALE: SHEET 8 OF 25 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-(3,2,1)R5	ST. CLAIR	623	10
CONTRACT NO. 76E13				
ILLINOIS FED. AID PROJECT				

# SUMMARY OF QUANTITIES

CONSTRUCTION CODE									
90% FEDERAL 10% STATE URBAN 0005 ROADWAY	90% FEDERAL 10% STATE URBAN 0013 BRIDGE S.N. 082-0243	90% FEDERAL 10% STATE URBAN 0013 BRIDGE S.N. 082-0244	90% FEDERAL 10% STATE URBAN 0013 BRIDGE S.N. 082-0245	90% FEDERAL 10% STATE URBAN 0013 BRIDGE S.N. 082-0246	90% FEDERAL 10% STATE URBAN 0013 BRIDGE S.N. 082-0247	90% FEDERAL 10% STATE URBAN 0013 BRIDGE S.N. 082-0248	90% FEDERAL 10% STATE URBAN 0013 BRIDGE S.N. 082-0249	90% FEDERAL 10% STATE URBAN 0013 BRIDGE S.N. 082-0250	90% FEDERAL 10% STATE URBAN 0013 BRIDGE S.N. 082-0270

CODE NO	ITEM	UNIT	TOTAL	90% FEDERAL 10% STATE URBAN 0005 ROADWAY	90% FEDERAL 10% STATE URBAN 0013 BRIDGE S.N. 082-0243	90% FEDERAL 10% STATE URBAN 0013 BRIDGE S.N. 082-0244	90% FEDERAL 10% STATE URBAN 0013 BRIDGE S.N. 082-0245	90% FEDERAL 10% STATE URBAN 0013 BRIDGE S.N. 082-0246	90% FEDERAL 10% STATE URBAN 0013 BRIDGE S.N. 082-0247	90% FEDERAL 10% STATE URBAN 0013 BRIDGE S.N. 082-0248	90% FEDERAL 10% STATE URBAN 0013 BRIDGE S.N. 082-0249	90% FEDERAL 10% STATE URBAN 0013 BRIDGE S.N. 082-0250	90% FEDERAL 10% STATE URBAN 0013 BRIDGE S.N. 082-0270
50800530	MECHANICAL SPLICERS	EACH	247			40		207					
51100100	SLOPE WALL 4 INCH	SQ YD	67						67				
51500100	NAME PLATES	EACH	1					1					
52000110	PREFORMED JOINT STRIP SEAL	FOOT	521		84	63					234	62	78
52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	50			6					28	8	8
52100020	ELASTOMERIC BEARING ASSEMBLY, TYPE II	EACH	28			6					14	4	4
52100030	ELASTOMERIC BEARING ASSEMBLY, TYPE III	EACH	7					7					
52100510	ANCHOR BOLTS, 3/4"	EACH	28								28		
52100520	ANCHOR BOLTS, 1"	EACH	126			24		14			56	16	16
52100540	ANCHOR BOLTS, 1 1/2"	EACH	58					14			28	8	8
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	5	5									
54262712	METAL FLARED END SECTIONS 12"	EACH	41	41									
542A2749	PIPE CULVERTS, CLASS A, TYPE 4 24"	FOOT	12	12									
58100200	WATERPROOFING MEMBRANE SYSTEM	SQ YD	37810	1689	2867	2162		25957	3358	796	984		

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USER NAME = jepettibone	DESIGNED -	REVISED -
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PLOT DATE = 9/20/2019	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET 6 OF 18 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-1RS	ST. CLAIR	316	9
ILLINOIS FED. AID PROJECT			CONTRACT NO. 76E13	

**GENERAL NOTES**

Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts. Bolts 3/4 in. Ø, holes 13/16 in. Ø, or Bolts 7/8 in. Ø, holes 15/16 in. Ø unless otherwise noted.

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 and girders 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 1/4 inch 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 Contractor 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.

Concrete Sealer shall be applied to the designated areas of the abutments. The painting Contractor shall be SSPC-QP 1 and SSPC-QP 2 certified for this project and shall maintain certification throughout the duration of the project.

~~Cleaning and Painting of the existing structural steel shall be as specified in the special provision for "Cleaning and Painting Existing Steel Structures". All beams, bearings and other structural steel within the length (measured along beam) shown in the GIRDER PAINTING LIMITS TABLE, of either side of deck joints, shall be cleaned per Near White Blast Cleaning - SSPC-SP10. The exterior surfaces and bottom of the bottom flange of the fascia beams shall be cleaned per Commercial Grade Power Tool Cleaning - SSPC-SP15. The designated areas cleaned per Near White Blast Cleaning and per Commercial Grade Power Tool Cleaning shall be painted according to the requirements of Paint System 1 - OZ/E/U. The color of the final finish coat for all interior steel surfaces shall be Reddish Brown, Munsell No. 2.5YR 3/4. The color of the final finish coat for all exterior steel surfaces shall be Reddish Brown, Munsell No. 2.5YR 3/4.~~

Existing reinforcement shall be cleaned and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal operations shall be repaired or replaced using an approved bar splicer or anchorage system. Cost included with Concrete Removal.

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

Bridge washing is limited to cleaning the abutment bearing seats.

Containment of Cleaning residue is required to contain nuisance dust.  
See Special Provisions.

**TOTAL BILL OF MATERIAL  
TWO STRUCTURES**

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A3	Sq. Yd.		27	27
Filter Fabric	Sq. Yd.		27	27
Polymerized Hot-Mix Asphalt Surface course, Mix "E", N90	Ton	235		235
Joint or Crack Filling	Pound	600		600
Concrete Removal	Cu. Yd.	16.4	13.1	29.5
Concrete Superstructure	Cu. Yd.	16.4	13.1	29.5
Furnishing and Erecting Structural Steel	Pound	8,460		8,460
Reinforcement Bars, Epoxy Coated	Pound	3,810	1,940	5,750
Preformed Joint Strip Seal	Foot	234		234
Elastomeric Bearing Assembly, Type I	Each	28		28
Elastomeric Bearing Assembly, Type II	Each	14		14
Anchor Bolts, 3/4"	Each	28		28
Anchor Bolts, 1"	Each	56		56
Anchor Bolts, 1 1/2"	Each	28		28
Waterproofing Membrane System	Sq. Yd.	3,358		3,358
Concrete Sealer	Sq. Ft.		621	621
Bridge Washing No. 14	Each		1	1
Bridge Washing No. 15	Each		1	1
Jack and Remove Existing Bearings	Each	42		42
Cleaning and Painting Steel Bridge No. 14	L Sum	1		1
Cleaning and Painting Steel Bridge No. 15	L Sum	1		1
Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq. Ft.		306	306
Deck Slab Repair (Partial)	Sq. Yd.	456		456
Containment and Disposal of Non-Lead Paint Cleaning Residues No. 14	L Sum	1		1
Containment and Disposal of Non-Lead Paint Cleaning Residues No. 15	L Sum	1		1

The quantity for Joint or Crack Filling is to seal the open joints between the wingwall and approach slab.

The deck surface shall have its final finish tined according to Article 420.09(e)(1) of the Standard Specifications. Cost is included with Concrete Superstructures.

All new structural steel and bearing assembly shall be hot-dipped galvanized. See special provisions for "Hot Dip Galvanizing for Structural Steel."

Existing structural steel that will be in contact with new structural steel shall be cleaned and painted prior to erection as required by the special provision "Cleaning and Painting Contact Surface Areas of Existing Steel Structures."

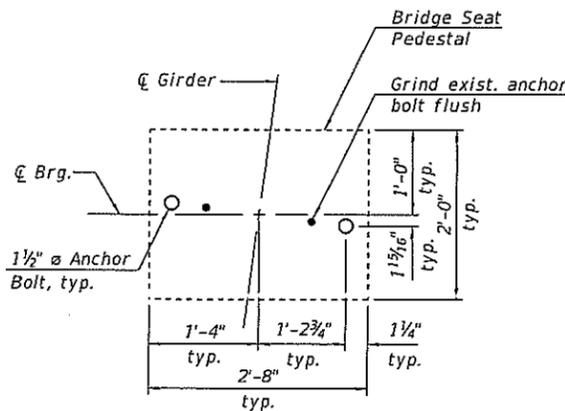
Cleaning and Painting of the existing structural steel shall be as specified in the special provision for "Cleaning and Painting Existing Steel Structures". All beams, bearings and other structural steel within the length (measured along beams) shown in the GIRDER PAINTING LIMITS TABLE, of either side of deck joints, shall be cleaned per Near White Blast Cleaning - SSPC-SP10. The designated areas cleaned per Near White Blast Cleaning shall be painted according to the requirements of Paint System 1 - OZ/E/U. The color of the final finish coat for all interior steel surfaces shall be Reddish Brown, Munsell No. 2.5YR 3/4. The color of the final finish coat for all exterior steel surfaces shall be Reddish Brown, Munsell No. 2.5YR 3/4.

**STRUCTURE NO. 082-0250 (S.B.)  
GIRDER PAINTING LIMITS TABLE**

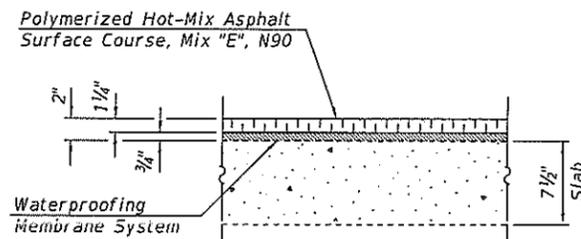
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1	10'-0"	---	10'-0"
2	10'-0"	---	10'-0"
3	10'-0"	---	10'-0"
4	10'-0"	---	10'-0"
5	10'-0"	---	10'-0"
6	10'-0"	---	10'-0"
7	10'-0"	---	10'-0"

**STRUCTURE NO. 082-0249 (N.B.)  
GIRDER PAINTING LIMITS TABLE**

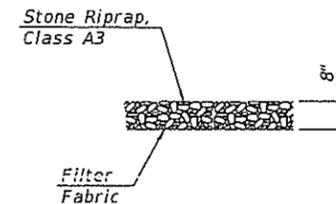
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9	10'-0"	---	10'-0"
10	10'-0"	---	10'-0"
11	10'-0"	---	10'-0"
12	10'-0"	---	10'-0"
13	10'-0"	---	10'-0"
14	10'-0"	---	10'-0"



**PIER 2 ANCHOR BOLT LAYOUT**



**SECTION THRU DECK**



**SECTION THRU RIPRAP**

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	CHECKED - MAC	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GENERAL DATA  
STRUCTURE NO. 082-0249 (N.B.) & 082-0250 (S.B.)**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-1R5	ST. CLAIR	316	265
				CONTRACT NO. 76E13-2

REV. 11-4-2019

REV. 10-31-2019