					80% FEDERAL	100&ALSIP	
					20% STATE		
					BRIDGE	HIGHWAY LIGHTING	
	CODE			TOTAL	0013	0021	
	NO.	ITEM	UNIT	QUANTITY	S.N.016-0570	URBAN	
	70307120	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE	FOOT	5135	5135		
	70307130	TEMPORARY PAVEMENT MARKING - LINE 6" - TYPE IV TAPE	FOOT	5977	5977		
	70400100	TEMPORARY CONCRETE BARRIER	FOOT	875	875		
*	70000400		00 FT	4 5	4 5		
*	72000100		SQFI	4.5	4.5		
*	72501000		FACH	2	2		
				-			
*	72900100	METAL POST - TYPE A	FOOT	21	21		
*	78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	4145	4145		
*	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	8	8		
5							
*						<u>} /2\</u>	
-	78200005		EACH	F	F		
*			EACH	5	2		
	78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	4327	4327		
*	80400100	ELECTRIC SERVICE INSTALLATION	EACH	1	1		
*	80400200	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1	1		
*	81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	150	150		

											<u>/_</u>		LE10/0/2020
	DESIGNED - OLR	REVISED -		SUMMARY OF QUANTITIES IL RTE 83 (127TH STREET)			F.A.P.	SECTION	COUNTY	TOTAL SHEET			
	DRAWN - OLR	REVISED -	STATE OF ILLINOIS				344	2018-125-B-R	соок	141 8			
ENICINIEED CU PLOT SCALE = 2.0000 '/ In.	CHECKED - ZJT	REVISED -	DEPARTMENT OF TRANSPORTATION				_		CONTRACT	NO. 62H52			
	DATE - 2/24/2023	REVISED -		SCALE:	SHEET NO.	0F S	SHEETS	STA.	TO STA.		ILLINOIS FED. AID PROJE		



REVISED SHEET6/5/2023

		CONSTRUCTION CODE				
				80% FEDERAL	100&ALSIP	
				20% STATE		
				BRIDGE	HIGHWAY LIGHT	
CODE			τοτλι	0013	0021	
NO	LTEM			0015		
NU.	I I EM		QUANTITY	S.N.016-0570	URBAN	
X5537600	STORM SEWERS TO BE CLEANED 8"	FOOT	62	62		
X3337000		1001	02	02		
X5537800	STORM SEWERS TO BE CLEANED 12"	FOOT	200	200		
V7040040						
X/010216		LSUM	1	1		
70001800		EACH	1	1		
20001899	JACK AND REMOVE EXISTING BEARINGS	EACH	1	1	1	
70001903		POLIND	54050	54050	-	
20001903		FOOND	54950	54950		
<u></u>	· · · · · · · · · · · · · · · · · · ·				A	
Z0001905	STRUCTURAL STEEL REPAIR	POUND	$-\frac{93180}{112090}$	93180 <u>112090</u>	$\frac{1}{2}$	
Z0004552	APPROACH SLAB REMOVAL	SQ YD	516	516		
-						
20007101	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 1	L SUM	1	1		
-					-	
20010501	CLEANING AND PAINTING STEEL BRIDGE NO. 1	L SUM	1	1		
					1	
20012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQFI	1346	1346		
700 10755			120	120		
20012755	STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5 INCHES)	SQFI	138	138	1	
70013708			1	1	-	
				1		
70018002	DRAINAGE SCUPPERS, DS-11	FACH	30	30		
20010002					. ·	
Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	2	2		
			_	_		

COLLINS USER NAME = orush	DESIGNED - OLR DRAWN - OLR	REVISED - REVISED -	STATE OF ILLINOIS	SUMMARY OF QUAN				
	CHECKED - ZJT	REVISED -	DEPARTMENT OF TRANSPORTATION		IL	NIL 0J	(12711)	SINC
CINGLINECKOZ PLOT DATE = 3/1/2023	DATE - 2/24/2023	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA.



TO STA.

GENERAL NOTES:

Standard Specifications.

Repairs of stringers 2 and 9 in span3 were not included previously.

- Fasteners shall be ASTM F3125 Grade Type 1, mechanically galvanized bolts. 1. Bolts $\frac{7}{8}$ Ø, holes $\frac{15}{16}$ Ø, unless otherwise noted.
- Calculated weight of Structural Steel = 114,780 Grade 36, 2. = 61,340 Grade 50
- No field welding is permitted except as specified in the contract documents. З.
- Reinforcement bars designated (E) shall be epoxy coated. 4.
- 5. 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(b) 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.
- 6. 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 $\frac{1}{4}$ -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

- Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and 7. 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 coating contains lead. The Contractor shall take 8. appropriate precautions to deal with the presence of lead on this project.
- Layout of the slope protection system may be varied to suit ground conditions 9. in the field as directed by the Engineer.
- 10. The Contractor shall obtain a construction permit from the Illinois Department of Natural Resources (IDNR), Office of Water Resources for any temporary construction activity placed in the water except cofferdams. This shall include the placement of material for run-arounds, causeways, etc. Any permit application by the Contractor shall refer to the IDNR 3704 Floodway Construction permit number allowing permanent construction as shown in the contract plans.
- 11. The Contractor shall take extreme caution during all phases of construction to prevent the deposition of any material into Cal Sag Channel.
- The concrete for bridge decks finished according to Article 503.16(a) of the 12. Standard Specifications shall be placed and compacted parallel to the skew in uniform increments along centerline of bridge. The machine used for finishing shall be set parallel to the skew for striking off and screeding the concrete.
- 13. All new structural steel shall be shop painted with an inorganic zinc rich primer per AASHTO M 300, Type 1.
- Existing structural steel that will be in contact with new structural steel shall be 14. 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 15. Special Provision for "Cleaning and Painting Existing Steel Structures."
- All interior and exterior surfaces of approach spans and built-up truss members. 16. other truss members, beams, bearings and other structural steel (floor beams, stringers, diaphragms, bracing, etc.) shall be cleaned per near white blast cleaning (SSPC-SP10).
- 17. The designated areas cleaned per near white blast cleaning (SSPC-SP10) shall be painted according to the requirements of the Organic Zinc-Rich / Epoxy / Urethane paint system. The color of the final finish coat for all interior steel surfaces shall be Gray, Munsell no 5B 7/1. The color of the final finish coat for the truss members shall be blue, Munsell No. 10B 3/6.



Existing Name Plate shall be cleaned and relocated next to new Name Plate. Cost included with Name Plates.

- 18. All items (such as, but not limited to: conduits, brackets and deck drains) attached to the truss or beams should be cleaned and painted.
- All truss members that pass through the deck shall be painted a minimum length of 2'-0" 19. past the proposed concrete prior to the concrete being placed.
- The contractor shall submit calculations and details demonstrating the structural integrity of 20. the bridge truss span is maintained under the additional imposed loads of the containment system. See Special Provisions.
- 21. A minimum of 2 air monitors will be required to monitor abrasive blasting operations at this site. See special provision for "Containment and Disposal of Lead Paint Cleaning Residues."
- All vertical and diagonal lapping members shall be caulked along the top and sides. 22. The bottom shall remain open for drainage.
- Joint Sealant shall be installed around all connection plates and at areas of pack rust and 23. between built up members.
- 24. The joint sealant shall be an approved polyurethane sealant, compatible with the proposed paint system and shall be submitted to the Engineer for approval prior to use.
- The surfaces of the crevices to receive joint sealant shall be cleaned according to commercial 25 grade power tool cleaning SSPC-SP15 and painted according to the requirements of paint system 2-PS/EM/U. Once the paint system is dry to touch, the sealant shall be installed over the final finish coat. After the sealant has cured in accordance with the manufacturer's written product data sheet, a strip finish coat shall be applied over the sealant. The cost of joint sealant and caulking included in the "Cleaning and Painting Steel Bridge" pay item.
- Shear studs shall be free of any rust, rust pits, scale oil, or deleterious matter at the time 26. of welding. The surface to receive the stud shall be free from mill scale and heavy rust. Paint, galvanizing and oil are contaminants and shall be removed. This work shall be included with Stud Shear Connectors pay item.
- 27. It shall be the Contractor's responsibility to protect and preserve the existing bridge lighting at any locations that lighting is encountered adjacent to an area to be cleaned and painted.
- The Contractor shall obtain Coast Guard approval for any work that may interfere with 28. navigational operations of the navigable waters. A work plan shall be prepared by the Contractor, reviewed and approved by the Engineer and be submitted by the Engineer to the Coast Guard at the address listed below for approval.

Locations upstream (North) of 16th St. Bridge in Lockport, IL:

	Bridge Administrator
l	US Čoast Guard
- 1	Ninth Coast Guard District
	1240 E. Ninth St.
(Cleveland, OH 44199-2060
(5	Scott Striffler (216) 902-6087)

29. Concrete Superstructure shall have a seven day minimum cure.

30. The contractor shall relocate any conduit attached to the flange prior to the installation of the Protective Shield. Under no circumstances shall the Protective Shield rest on top of the conduit.

Stone Dumped Riprap, Concrete Removal Removal of Existing Col Protective Shield Concrete Structures Concrete Superstructur Bridge Deck Grooving Protective Coat Concrete Superstructur Furnishing and Erecting Stud Shear Connectors Reinforcement Bars, Ep Bicycle Railina Parapet Railing Name Plates Preformed Joint Strip Se Finger Plate Expansion Fabric Reinforced Elasto Anchor Bolts, 1 1/2" Drainage System for St Epoxy Crack Injection Straighten Bent Membe Slope Wall Crack Sealin Reinstall Rubber Fender Bridge Cleaning and Pa lack and Remove Existi Structural Steel Remova Structural Steel Repair Containment and Dispo Cleaning and Painting S Structural Repair of Cor Structural Repair of Cor Drainage Scuppers, DS-Slope Wall Repair Slope Wall Slurry Pump Underwater Concrete R Temporary Shoring and

S-1	General Plan and Elevation	S-40	Preformed Joint Strip Seal - Sidewalk
S-2	General Notes, Index of Sheets and B.O.M	S-41	Preformed Joint Strip Seal - Median
S-3	Construction Staging I	S-42	Finger Plate Expansion Joint Plan
S-4	Construction Staging II	5-43	Finger Plate Expansion Joint Details I
S-5	Temporary Bicycle Railing for Stage Construction	S-44	Finger Plate Expansion Joint Details II
S-6 - S-8	Top of Slab Elevations Spans 1 & 2	S-45	Drainage Scupper, DS-11
S9 - S-13	Top of Slab Elevations Span 3	S-46	Drainage System Details
S-14 - S-16	Top of Slab Elevations Spans 4 & 5	S-47	Framing Plan Spans 1 & 2 and Details
S-17	Top of West Approach Slab Elevations	S-48- S-51	Steel Repairs Spans 1 & 2
S-18	Top of East Approach Slab Elevations	S-52	Framing Plan Span 3
S-19	Superstructure Spans 1 & 2	S-53	Steel Repairs Span 3 Lateral Bracing
5-20	Superstructure Details Spans 1 & 2	S-54	Steel Repairs Span 3 FB4
S-21	Diaphragm Details Spans 1 & 2	S-55	Steel Repairs Span 3 FB6, FB8 & FB9
5-22 - 5-23	Superstructure Span 3	S-56	Steel Repairs Span 3 TG-A
S-24	Superstructure Details Span 3	S-57	Steel Repairs Span 3 TG-B
S-25	Diaphragm Details at Piers 2 and 3 - Span 3	S-58	Steel Repairs Span 3 Stringers
S-26	Superstructure Details at Truss Steel Span 3	S-59	Span 3 Stringer Replacement and
S-27	Superstructure Spans 4 & 5		Moment & Reaction Tables
S-28	<i>Superstructure Details Spans 4 & 5</i>	S-60	Framing Plan Spans 4 & 5
5-29	Diaphragm Details Spans 4 & 5	S-61- S-62	Steel Repairs Spans 4 & 5
5-30	West Approach Slab	5-63	Bearing Replacement
S-31	East Approach Slab	S-64	West Abutment Repairs
S-32	Approach Slab Details I	S-65	West Slope Wall Repairs
S-33	Approach Slab Details II	S-66	Typical Slope Wall Section
S-34 - S-35	Bicycle Railing and Parapet Railing	S-67	Pier 2 Repairs
S-36 - S-37	Bicycle Railing Plan Spans 1 and 2	5-68	Pier 3 Repairs
5-38	Bicycle Railing Plan Spans 4 and 5	5-69	East Slope Wall Repairs
S-39	Preformed Joint Strip Seal - Roadway	S-70	East Abutment Repairs
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2504								<u>/2</u> F	REVISED SHE	ET 6/5	/2023
USER NAME - dredzic DES		DESIGNED – JFS / NA	REVISED - 🖉 06/02/2023 EKM		G	ENERAL NOTES, INDEX OF SHEETS AND B.O.M.	F A P RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET
		DRAWN - DR	REVISED -	STATE OF ILLINOIS	_		344	2018-125-B-R	соок	141	30
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Σ¤L		DATE - 04/25/2023	REVISED -		SCALE:	SHEET S-2 OF S-70 SHEETS STA. TO STA.		ILLINOIS	FED. AID PROJECT		

TOTAL BILL OF MATERIAL									
ITEM	UNIT	SUPER	SUB	TOTAL					
Class A6	SQ YD		450	450					
	CU YD		20.4	20.4					
ncrete Deck	EACH	1		1					
	SQ YD	3,200		3,200					
	CU YD		67.7	67.7					
9	CU YD	1,475.3		1,475.3					
	SQ YD	4,171		4,171					
	SQ YD	6,491		6,491					
e (Approach Slab)	CU YD	211		211					
Structural Steel	POUND	65,190		65,190	1				
	EACH	3,780		3,780	1				
oxy Coated	POUND	445,970	13,810	466,780	1				
-	FOOT	2,150		2,150					
	FOOT	1,320		1,320					
	EACH	1		1					
al	FOOT	542		542					
loint, 3"	FOOT	78		78	1				
omeric Trough	FOOT	85		85					
	EACH	2		2					
ructures	L SUM	1		1					
	FOOT		71	71					
r	EACH	3		3					
g	FOOT		86	86					
^r System	L SUM		1	1					
inting Warranty	L SUM	1		1	۱ .				
ng Bearings	EACH	1		1	1/2				
al	POUND	54,950		54,950	Z				
	POUND	93,180		93,180	<u>[]</u>				
sal of Lead Paint Cleaning Residues No. 1	LSUM	·· - 1 - ·		1.1.1	F				
teel Bridge No. 1	LSUM	1		1	1				
crete (Depth Equal to or Less Than 5 Inches)	SQ FT		1,346	1,346	1				
crete (Depth Greater Than 5 Inches)	SQ FT		138	138	1				
11	EACH	30		30	1				
	SQ YD		95	95	1				
ng	CU YD		6	6	1				
epair	SQ FT		24	24	1				
6.1111	54011		-	-	1				

HEETS



S 1 & 2 ≒0570		RTE	SECT	SECTION			SHEETS	NO.		
		344	2018-125-B-R			СООК	141			
-0370						CONTRACT NO. 62H				
STA.	TO STA.			ILLINOIS	FED. A	D PROJECT				