				CONSTR	ODE	
			URBAN	0059		
PAY ITEM NUMBER	DESIGNATION		TOTAL QUANTITY	80% FEDERAL 20% STATE	100% STATE	
5 03 00300	PROTECTIVE COAT	SQ YD	7,850	7,850		
50102400	CONCRETE REMOVAL	CU YD	25.7	25.7		
50157300	PROTECTIVE SHIELD	SQ YD	1,9 7 4	1,974		
50157500		50 15	1,574	1,374		
50300225	CONCRETE STRUCTURES	CU YD	26.5	26.5		
	BAR SPLICERS	EACH	24	24		
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	3,0 70	3,070		
52000600	FABRIC REINFORCED ELASTOMERIC TROUGH	FOOT	66	66		
52000 110	PREFORMED JOINT STRIP SEAL	FOOT	131	131		
67100100	MOBILIZATION	L SUM	1	1		
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	10	10		
X7010238	CHANGEABLE MESSAGE SIGN (SPECIAL)	CAL MO	3	3		
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	677	677		
7030 7100	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS - TYPE IV TAPE	SQ FT	73	73		
		5007	6.212	6.212		
7030 7120	TEMPORARY PAVEMENT MARKING - LINE 4"- TYPE IV TAPE	FOOT	6,212	6,212		
7030 7130	TEMPORARY PAVEMENT MARKING - LINE 6"- TYPE IV TAPE	FOOT	260	260		
7030 7160	TEMPORARY PAVEMENT MARKING - LINE 12"- TYPE IV TAPE	FOOT	88	88		
70306120	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE III TAPE	FOOT	387	387		
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1,212.5	1,212.5		
,0,00100			1,212.5	1,212.5		
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1,207	1,207		
70600255	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2	EACH	2	2		
				,		
70600322	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2	EACH	2	2	-	
78009000	MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	73	73		
78 009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	6,212	6,212		
78009006	MODIFIED URETHANE PAVEMENT MARKING - LINE 6"	FOOT	260	260		
78009012	MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	FOOT	88	88		
		FACU	224	224		
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	234	234	-	

				CONSTRUCTION COD			
			URBAN	0059	9		
PAY ITEM NUMBER	DESIGNATION	UNIT	TOTAL QUANTITY	80% FEDERAL 20% STATE	100% STATE		
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	234	234			
78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ ET	2,340	2,340			
X0325748	ACRYLIC COATING	SQ YD	25	25	1		
X0325749	FIBER WRAP	SQ FT	225	225) —		
X0326766	CLEAN & RESEAL RELIEF JOINT	FOOT	131	131			
X5537800	STORM SEWERS TO BE CLEANED 12"	FOOT	500		500		
X6700407	ENGINEER'S FIELD OFFICE, TYPE A (D1)	CAL MO	12	12			
		0/12/110					
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1			
Z0007122	REMOVING AND RE-ERECTING EXISTING RAILING	FOOT	9	9			
Z0010605	CLEANING DRAINAGE SYSTEM	L SUM	1		1		
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	220	220			
Z0012755	STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5 INCHES)	SQ FT	60	60			
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	52	52			
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1			
Z0073200	TEMPORARY SHORING AND CRIBBING	EACH	2	2			
			1				
		-					

2																
hid		USER NAME = ALane	DESIGNED - CW	REVISED -		SUMMARY OF QUANTITIES			F.A.P.	SECTION	COUNTY	TOTAL SHEET				
AME				DRAWN CW REVISED		REVISED -	STATE OF ILLINOIS	127TH STREET OVER RAILROADS					344	FAP 344 22 BR	соок	23 3
2 E	1 South Wacker Suite 2650 Chicago, IL 60606	PLOT SCALE = 20.0000 ' / in.	CHECKED ACL	REVISED -	DEPARTMENT OF TRANSPORTATION	IZTIN SIKEEI UVEK KAILKUADS						CONTRACT	T NO. 62U49			
Ē	P 312.425.9560 F 312.425.9564 www.infrastructure-eng.com	PLOT DATE = 1/27/2023	DATE 01/27/2023			SCALE:	SHEET	OF	SHEETS STA.	TO STA.		ILLINOIS FED. A	ID PROJECT			

MODEL: Default FILE MARE: PIP-2020-4094-00 IDOT Vanous mase 2 (FTB 196 Item 16)WO 33 62U49JDCM(CADD Sheets)62U49-3HC50O-01

REVISED SHEET 4/17/2023

GENERAL NOTES

All expansion joint structural steel shall conform to AASHTO Classification M-270 Gr. 36, unless otherwise noted.

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.

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.

If the Contractor elects to use cantilever forming brackets on the exterior 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 girder at each of these additional bracket locations.

INDEX OF SHEETS

- General Plan And Elevation 1
- General Notes, Scope Of Work, & Bill Of Materials 2.
- Stage Construction Details 3.
- Temporary Concrete Barrier For Stage Construction 4.
- Deck Repair Plan 5.
- Abutment and Deck Concrete Removal 6.
- 6A. Abutment and Deck Concrete Removal Sections
- Abutment and Deck Alterations 7.
- Abutment and Deck Details 8
- Preformed Joint Strip Seal Sidewalk (Sheet 1 of 2) 9
- Preformed Joint Strip Seal Sidewalk (Sheet 2 of 2) 9A.
- 10. Trough Replacement at Pier 3
- 11. Pier 2 Repairs
- 12. Pier 3 Repairs
- 13. Bar Splicer Assembly And Mechanical Splicer Details

SCOPE OF WORK

- 1. Remove and replace trough plates, and nuts and bolts on Pier 3. (2. Repair structural concrete on Piers 2 and 3. Install shoring and cribbing to
- support Girders 8 and 9 on the east side of Pier 2. Fiber wrap and apply acrylic
- coating to column in Pier 2. Remove neoprene expansion joints at abutments.
- 4. Install preformed joint strip seal at abutments.
- 5. Apply protective coat to deck, abutments, sidewalks and parapets.
- Clean and reseal relief joints. 6.
- 7. Clean deck drainage system.
- USER NAME = TYu DESIGNED - TY REVISED - 1 TY 04/14/2023 **GENERAL NOTES, SCOPE OF WOR** INFRASTRUCTURE STATE OF ILLINOIS CHECKED - KPS REVISED -ENGINEERING LINCO STRUCTURE NO. PLOT SCALE = 0.1667 / in. DRAWN - TY REVISED **DEPARTMENT OF TRANSPORTATION** 1 South Wacker | Sulte 2650 | Chicago, IL 60606 SHEET 2 OF 13 PLOT DATE = 4/14/2023 CHECKED - KPS REVISED -

ITEM	UNIT	SUPER	SUB	TOTAL
Concrete Removal	Cu Yd	25.7		25.7
Protective Shield	Sq Yd	1,974		1,974
Concrete Superstructure	Cu Yd	25.7		25.7
Protective Coat	Sq Yd	7,850		7,850
Reinforcement Bars, Epoxy Coated	Pound	3,070		3,070
Bar Splicers	Each	24		24
Preformed Joint Strip Seal	Foot	131		131
Fabric Reinforced Elastomeric Trough	Foot		66	66
Acrylic Coating	Sġ Yḋ		25	25
Fiber Wrap	Sq Ft		225	225
Clean & Reseal Relief Joint	Foot	131		131
Cleaning Drainage System	L Sum	1		1
Structural Repair Of Concrete (Depth Equal To Or Less Than 5 Inches)	Sq Ft		220	220
Structural Repair Of Concrete (Depth Greater Than 5 Inches)	Sq Ft		60	60
Railroad Protective Liability Insurance	L Sum			1
Temporary Shoring and Cribbing	Each	2		2

* Quantity is for the top of deck, sidewalks and parapets and the roadway face of sidewalks and parapets. Quantity is also for the top of new concrete on both abutment backwalls.

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications for Highway Bridges (17th Edition)

LOADING HS20-44

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Allow 50 psf for future wearing surface

DESIGN STRESSES

New Construction

f'c = 4,000 psi (Superstructure Concrete) fy = 60,000 psi (Reinforcement)

Existing Construction

- f'c = 3,500 psi (Concrete) fy = 60,000 psi (Reinforcement after 2003)
- $f_y = 33,000$ psi (Reinforcement before 2003)
- fy = 50,000 psi (Structural Steel M270 Gr. 50)

TOTAL BILL OF MATERIAL

/I\REVISED SHEET 4/17/2023

F.A. RTE	SECTION			COUNTY	TOTAL SHEETS	SHEET NO.
344	FAP-344-22-BR			СООК	23	10
				CONTRACT	NO. 62	2U49
ILLINOIS FED. 4				D PROJECT		
	RTE.	RTE. SEC	RTE. SECTION 344 FAP-344-22-BR	RTE. SECTION 344 FAP-344-22-BR	RTE. SECTION COUNTY 344 FAP-344-22-BR COOK CONTRACT	RTE SECTION COUNTY SHEETS 344 FAP-344-22-BR COOK 23 CONTRACT NO 62

