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SHEET NO.

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COMMITMENTS

NONE

STATE HIGHWAY STANDARDS

STANDARD NO.	DESCRIPTION
000001-07	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420406	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB
424016-05	MID-BLOCK CURB RAMPS FOR SIDEWALKS
442201-03	CLASS C AND D PATCHES
515001-03	NAME PLATE FOR BRIDGES
542001-06	CONCRETE END SECTIONS FOR PIPE CULVERTS 15" THRU 84" DIA.
542011-02	CONCRETE END SECTIONS FOR ELLIPTICAL PIPE CULVERTS 15" THRU 72" EQUIVALENT DIAMETER
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
602001-02	CATCH BASIN, TYPE A
602306-03	INLET - TYPE B
602401-06	PRECAST MANHOLE TYPE A 4' (1.22m) DIAMETER
602406-10	PRECAST MANHOLE TYPE A 6' DIAMETER
602701-02	MANHOLE STEPS
604001-04	FRAME AND LIDS, TYPE 1
604051-04	FRAME AND GRATE TYPE 11
604086-03	FRAME AND GRATE TYPE 23
606001-07	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
630001-12	STEEL PLATE BEAM GUARDRAIL
631031-15	TRAFFIC BARRIER TERMINAL, TYPE 6
643001-02	SAND MODULE IMPACT ATTENUATORS
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE 2L, 2W MOVING OPERATIONS - DAY ONLY
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701502-09	URBAN LANE CLOSURE, 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
725001-01	OBJECT AND TERMINAL MARKERS
729001-01	APPLICATIONS OF TYPES A AND B METAL POSTS (FOR SIGNS & MARKERS)
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
782006	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
805001-01	ELECTRICAL SERVICE INSTALLATION DETAILS
812001	RACEWAY EMBEDDED IN STRUCTURE
814001-03	HANDHOLES
838001-01	BREAKAWAY DEVICES
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
873001-02	TRAFFIC SIGNAL GROUNDING AND BONDING
878001-10	CONCRETE FOUNDATION DETAILS
880001-01	SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS
886001-01	DETECTOR LOOP INSTALLATIONS



USER NAME = johnn	DESIGNED - IH	REVISED - 04/17/2019 LRC
	DRAWN - IH	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - JMT	REVISED -
PLOT DATE = 4/17/2019	DATE - 01/24/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, STATE HIGHWAY STANDARDS AND COMMITMENTS CHICAGO HEIGHTS-GLENWOOD RD AT THORN CREEK			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3603	2010-141-B	COOK	114	2
CONTRACT NO.				60N21
ILLINOIS FED. AID PROJECT				

1 REV. 4-17-2019

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				80% FED
				20% STATE
				BRIDGE
				0013
				S.N. 016-2417
51500100	NAME PLATES	EACH	1	1
54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	1	1
54010402	PRECAST CONCRETE BOX CULVERTS4' X 2'	FOOT	618	618
54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	1	1
54260315	TRAVERSABLE PIPE GRATE FOR CONCRETE END SECTION	FOOT	16	16
550A0340	STORM SEWERS, CLASS A, TYPE 212"	FOOT	136	136
55100500	STORM SEWER REMOVAL 12"	FOOT	160	160
55100700	STORM SEWER REMOVAL 15"	FOOT	764	764
59000200	EPOXY CRACK INJECTION	FOOT	143	143
60200105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	1	1
60200205	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	3	3
60201105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11 FRAME AND GRATE	EACH	1	1
60201330	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 23 FRAME AND GRATE	EACH	2	2
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1
60240310	INLETS, TYPE B, TYPE 11 FRAME AND GRATE	EACH	1	1

* SPECIALTY ITEM

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				80% FED
				20% STATE
				BRIDGE
				0013
				S.N. 016-2417
60250200	CATCH BASINS TO BE ADJUSTED	EACH	2	2
* 60406100	FRAMES AND LIDS, TYPE 1, CLOSED LID	EACH	1	1
* 60500040	REMOVING MANHOLES	EACH	1	1
* 60500050	REMOVING CATCH BASINS	EACH	1	1
60500205	FILLING CATCH BASINS	EACH	2	2
60600605	CONCRETE CURB, TYPE B	FOOT	36	36
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	184	184
60604700	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18 (MODIFIED)	FOOT	605	605
60625600	ISLAND PAVEMENT (6")	SQ YD	8	8
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	25	25
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	315	315
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	2	2
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	4	4
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2	2
* 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	1
63200310	GUARDRAIL REMOVAL	FOOT	452	452
* 66901002	ON-SITE MONITORING OF REGULATED SUBSTANCES	DAYS	5	5
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	12	12
* 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	1

* SPECIALTY ITEM



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PLOT DATE = 1/31/2019	DATE - 01/24/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
CHICAGO HEIGHTS-GLENWOOD RD AT THORN CREEK

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3603	2010-141-B	COOK	114	6
CONTRACT NO. 60N21				
ILLINOIS FED. AID PROJECT				

REV. 4-17-2019

REV. - MS

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				80% FED
				20% STATE
				BRIDGE
				0013
				S.N. 016-2417
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	21	21
78100200	TEMPORARY RAISED REFLECTIVE PAVEMENT MARKER	EACH	72	72
* 78100300	REPLACEMENT REFLECTOR	EACH	6	6
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	8	8
* 78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	93	93
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	3	3
* 81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	404	404
* 81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	180	180
* 81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	186	186
* 81200230	CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC	FOOT	195	195
* 81300550	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 12" X 6"	EACH	2	2
* 81300830	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18" X 18" X 8"	EACH	2	2
* 81400100	HANDHOLE	EACH	2	2
* 81603081	UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE	FOOT	735	735

* SPECIALTY ITEM

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				80% FED
				20% STATE
				BRIDGE
				0013
				S.N. 016-2417
* 81702140	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO.4	FOOT	120	120
* 81702150	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO.2	FOOT	360	360
* 81800300	AERIAL CABLE, 3-1/C NO. 2 WITH MESSENGER WIRE	FOOT	490	490
* 82102250	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT	EACH	3	3
* 83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	33	33
* 83800105	BREAKAWAY DEVICE, TRANSFORMER BASE, 11.5 INCH BOLT CIRCLE	EACH	3	3
* 84100110	REMOVAL OF TEMPORARY LIGHTING UNIT	EACH	3	3
* 84200804	REMOVAL OF POLE FOUNDATION	EACH	3	3
* 87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 143C	FOOT	290	290
* 87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 145C	FOOT	980	980
* 87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 147C	FOOT	1280	1280
* 87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 141 PAIR	FOOT	1150	1150
* 87502520	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	1	1
* 87800100	CONCRETE FOUNDATION, TYPE A	FOOT	4	4

* SPECIALTY ITEM



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PLOT DATE = 1/31/2019	DATE - 01/24/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES			
CHICAGO HEIGHTS-GLENWOOD RD AT THORN CREEK			
SCALE:	SHEET	OF	SHEETS
STA.	TO STA.		

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3603	2010-141-B	COOK	114	8
CONTRACT NO. 60N21				
ILLINOIS FED. AID PROJECT				

REV. - MS

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				80% FED
				20% STATE
				BRIDGE
				0013
				S.N. 016-2417
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	51.4	51.4
* Z0033020	LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	3	3
Z0056668	STORM SEWERS, TYPE 2, WATER MAIN QUALITY PIPE,12"	FOOT	80	80
Z0056669	STORM SEWERS, TYPE 2, WATER MAIN QUALITY PIPE,15"	FOOT	778	778
Z0062456	TEMPORARY PAVEMENT	SQ YD	572	572
Z0062458	TEMPORARY PAVEMENT (VARIABLE DEPTH)	TON	27	27
* Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1	1
Z0073700	TEMPORARY WALL BRACING SYSTEM	L SUM	1	1
X03Z7998	BOLLARD TO BE RELOCATED	EACH	1	1

* SPECIALTY ITEM

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1 REV. 4-17-2019

REV. - MS



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	DRAWN - JN	REVISED -
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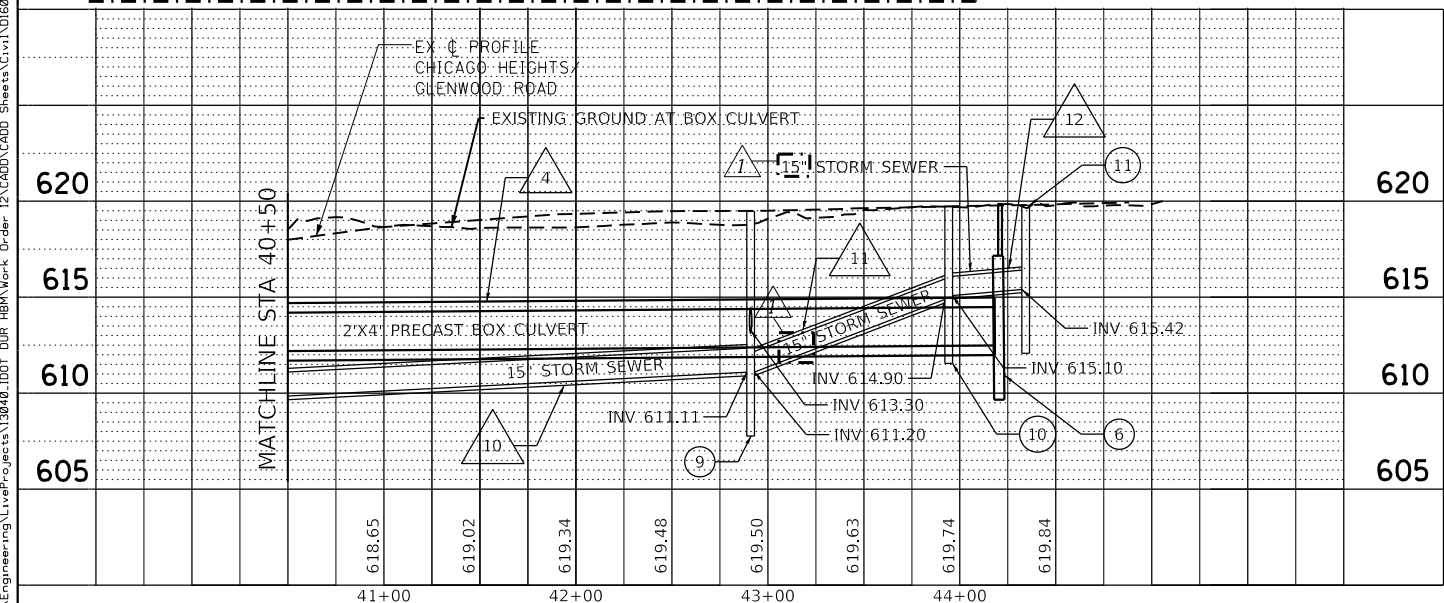
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
CHICAGO HEIGHTS-GLENWOOD RD AT THORN CREEK

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3603	2010-141-B	COOK	114	9A
CONTRACT NO.				60N21
ILLINOIS FED. AID PROJECT				

PROFILE	SURVEYED _____	BY _____	DATE _____
	PLOTTED _____		
NOTE BOOK _____	GRADES CHECKED _____		
NO. _____	B.M. NOTED _____		
	STRUCTURE NOTAT'NS CHKD _____		



STRUCTURE NO.	STATION	OFFSET (FT)	STRUCTURE TYPE			FRAME & GRATE	INVERT ELEVATION	RIM ELEVATION
			MH	CB	OTHER			
①	33+25	22' LT		4'A		23	INV 608.00	613.10
②	33+25	14' RT		4'A		23	INV 607.60 (SW & N)	613.22
③	32+80	44' RT	4'A			1 CL	INV 604.50	609.50
④	32+24	52' RT			FES 12"		INV 602.00	
⑤	37+80	28.5' LT			TAPERED END SECTION		INV 611.19	
⑥	44+12	28.5' LT			JUNCTION BOX CHAMBER	1 CL	INV 612.49	619.49
⑦	38+38	22.5' LT		4'A		1 CL	INV 608.65 (W) INV 608.75 (E) INV 609.80 (S)	615.25
⑧	40+44	22.5' LT		4'A		1 CL	INV 609.75 (W) INV 609.85 (E) INV 613.10 (SE)	618.50
⑨	43+00	22.5' LT		4'A		1 CL	INV 611.10 (W) INV 611.20 (E) INV 613.30 (S)	619.50
⑩	44+03	22.5' LT		4'A		1 OL	INV 614.90 (W) INV 615.10 (E)	619.49
⑪	44+27	19' LT		4'A		11		

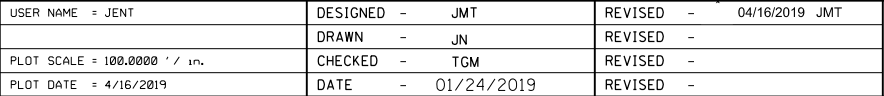
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STATION	OFFSET (FT)	CATCH BASINS TO BE ADJUSTED	CATCH BASINS TO BE FILLED
15+70	47' RT	1	
16+95	22.3' RT	1	
32+47	17.6' RT		1
32+27	28.2' LT		1
TOTAL		2	2

STATION	STATION	LENGTH (FT)	DESCRIPTION
32+27	32+37	80	STORM SEWER REMOVAL 12"
42+99	44+16	117	STORM SEWER REMOVAL 15"
38+38	38+38	37	STORM SEWER REMOVAL 12"
40+44	40+44	37	STORM SEWER REMOVAL 12"
43+01	43+05	6	STORM SEWER REMOVAL 12"
36+54	42+99	647	STORM SEWER REMOVAL 15"

STRUCTURE NO.	STATION	OFFSET (FT)	STRUCTURE TYPE			INVERT ELEVATION	RIM ELEVATION
			MH	CB	INLET		
(11)	44+43	19' LT		EXIST			619.08
(12)	44+43	29.5' LT	EXIST				619.84
(13)	34+54	23' LT	EXIST			INV 607.87	611.87
(14)	38+38	16' RT			EXIST	INV 607.32	611.02
(15)	40+45	16' RT			EXIST	INV 610.06	613.36
(16)	32+24	52' RT			EXIST	INV 613.34	617.24

1 REV. 4-17-2019



PROPOSED DRAINAGE AND UTILITY PLAN - II
CHICAGO HEIGHTS-GLENWOOD RD AT THORN CREEK

SCALE: 1"=50'	SHEET	OF	SHEETS	STA.	TO STA.
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3603	2010-141-B	COOK	114	42
		CONTRACT NO. 60N21		
ILLINOIS		FED. AID PROJECT		

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S-7 Top of East Approach Slab Elevations
S-8 Superstructure
S-9 Superstructure Details
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S-11 Bridge Approach Slab Details - East
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S-14 21"x48" P.P.C. Deck Beam
S-15 21"x48" P.P.C. Deck Beam Details
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S-17 West and East Abutment Removal
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S-19 Pier Repairs
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TOTAL BILL OF MATERIAL

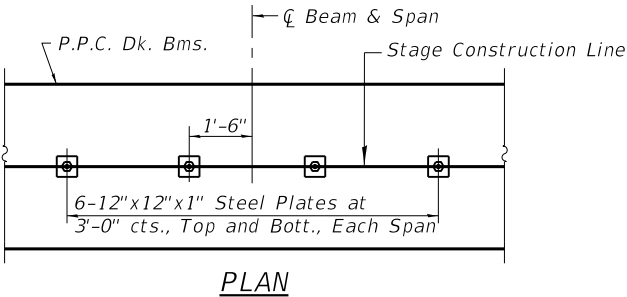
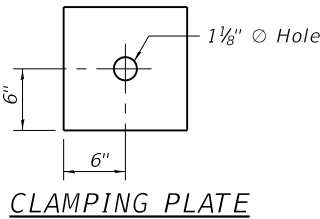
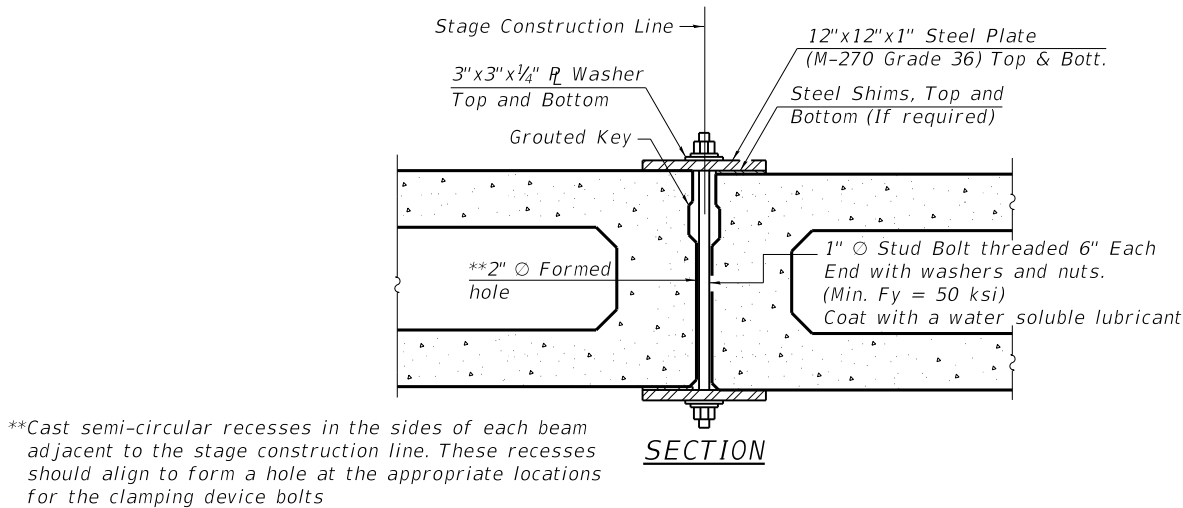
DESCRIPTION	UNIT	SUPER.	SUB.	TOTAL
Removal of Existing Superstructures	Each	1	-	1
Concrete Removal	Cu Yd	-	19.7	19.7
Structure Excavation	Cu Yd	-	32	32
Concrete Structures	Cu Yd	-	76.9	76.9
Concrete Superstructure	Cu Yd	104.4	-	104.4
Bridge Deck Grooving	Sq Yd	646	-	646
Protective Coat	Sq Yd	1,107	-	1,107
Concrete Superstructure (Approach Slab)	Cu Yd	171.7	-	171.7
Precast Prestressed Concrete Deck Beams (21" Depth)	Sq Ft	5,309	-	5,309
Reinforcement Bars, Epoxy Coated	Pound	94,230	10,990	105,220
Bar Splicers	Each	303	98	401
Aluminum Railing, Type L	Foot	221	-	221
Name Plates	Each	1	-	1
Epoxy Crack Injection	Foot	-	143	143
Concrete Wearing Surface, 5"	Sq Yd	590	-	590
Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq Ft	-	457	457
Structural Repair of Concrete (Depth Greater than 5 Inches)	Sq Ft	-	8	8
Temporary Wall Bracing System	L Sum	-	1	1

GENERAL NOTES:

- 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.
- The minimum thickness of the Concrete Overlay shall be 5 inches and varies as required to adjust for the new Profile Grade and Beam Camber.
- The Contractor is advised that the existing PPC Deck Beams are in a deteriorated condition with reduced load carrying capacity. It is the Contractor's responsibility to account for the condition of the beams when developing Construction Procedures for Removal and Replacement of the Superstructure.
- If the Contractor's procedures for existing beam removal or placement of new beams involves placement of heavy equipment on the new deck beams, a detailed procedure shall be submitted to the Engineer for approval. The procedure shall include calculations, sealed by an Illinois Licensed Structural Engineer, verifying the structural adequacy of the beams for the proposed loads.
- No in-stream work will be allowed on this project.
- Slipforming of the parapets is not allowed.
- Repair of the abutments & pier shall be completed prior to placement of the new deck beams.
- Protective Coat will be applied to the top and inside face of parapets, sidewalk, curb and on top of concrete wearing surface including approach slabs.

WATERWAY INFORMATION

Drainage Area = 51,008 Acres 79.7 Sq. Mi. Low Grade Elev. 611.36@Sta. 36+50									
Flood	Freq. Yr.	Q C.F.S.	Opening Ft ²		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
	10	3803	685	685.0	612.63	0.28	0.30	612.91	612.93
Design	50	5700	685	685.0	614.33	0.08	0.09	614.41	614.42
Base	100	6510	685	685.0	614.91	0.06	0.07	614.97	614.98
Overtopping	<10 Yr	3803	685	685.0	612.63	0.28	0.30	612.91	612.93
Max. Calc.	500	8800	685	685.0	617.28	0.03	0.03	617.31	617.31



Notes:
Cost is included with Precast Prestressed Concrete Deck Beams (21" Depth)

See Sheet S-3 & S-4 of S-21 for Staging details.

SHEAR KEY CLAMPING DETAILS AT STAGE CONST. LINE

REV. 4-17-2019

MODEL: Model
FILE NAME: Q:\Engineering\LiveProjects\13040_IDOT DUR HBM\Work Order 12\CADD\CADD Sheets\Structural\0162417-60N21-002-gen_notes.dgn



USER NAME =	sapant	DESIGNED -	SAT	REVISED -	04/08/2019 SAT
CHECKED -	SPS	REVISED -			
PLOT SCALE =		DRAWN -	JN	REVISED -	
PLOT DATE =	4/1/2019	CHECKED -	JMT	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES, INDEX OF SHEETS AND TOTAL BILL OF MATERIAL
SN 016-2417

SHEET S-2 OF S-21 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3603	2010-141-B	COOK	114	77
CONTRACT NO. 60N21				
ILLINOIS FED. AID PROJECT				