

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-7HB-2)D	IROQUOIS	104	1
		ILLINOIS	CONTRACT NO. 66E40	

# PROPOSED HIGHWAY PLANS

FAI ROUTE 57 (I-57)  
SECTION (38-7HB-2)D  
PROJECT HBFP-C7EM(517)  
BRIDGE DECK REPLACEMENT  
IROQUOIS COUNTY

C-93-053-23

INDEX OF SHEETS

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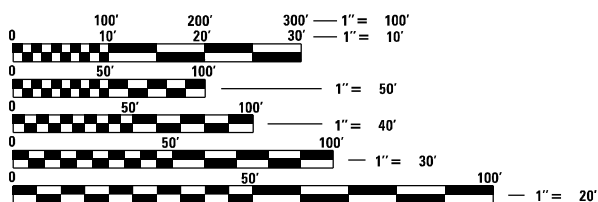
Pete Sarich  
SHEETS 44-78  
DATE: 10/13/2023  
EXPIRES: 11/30/2024



Antonio A. Cerda  
SHEETS 1-39 AND 79-104  
DATE: 10/13/2023  
EXPIRES: 11/30/2024



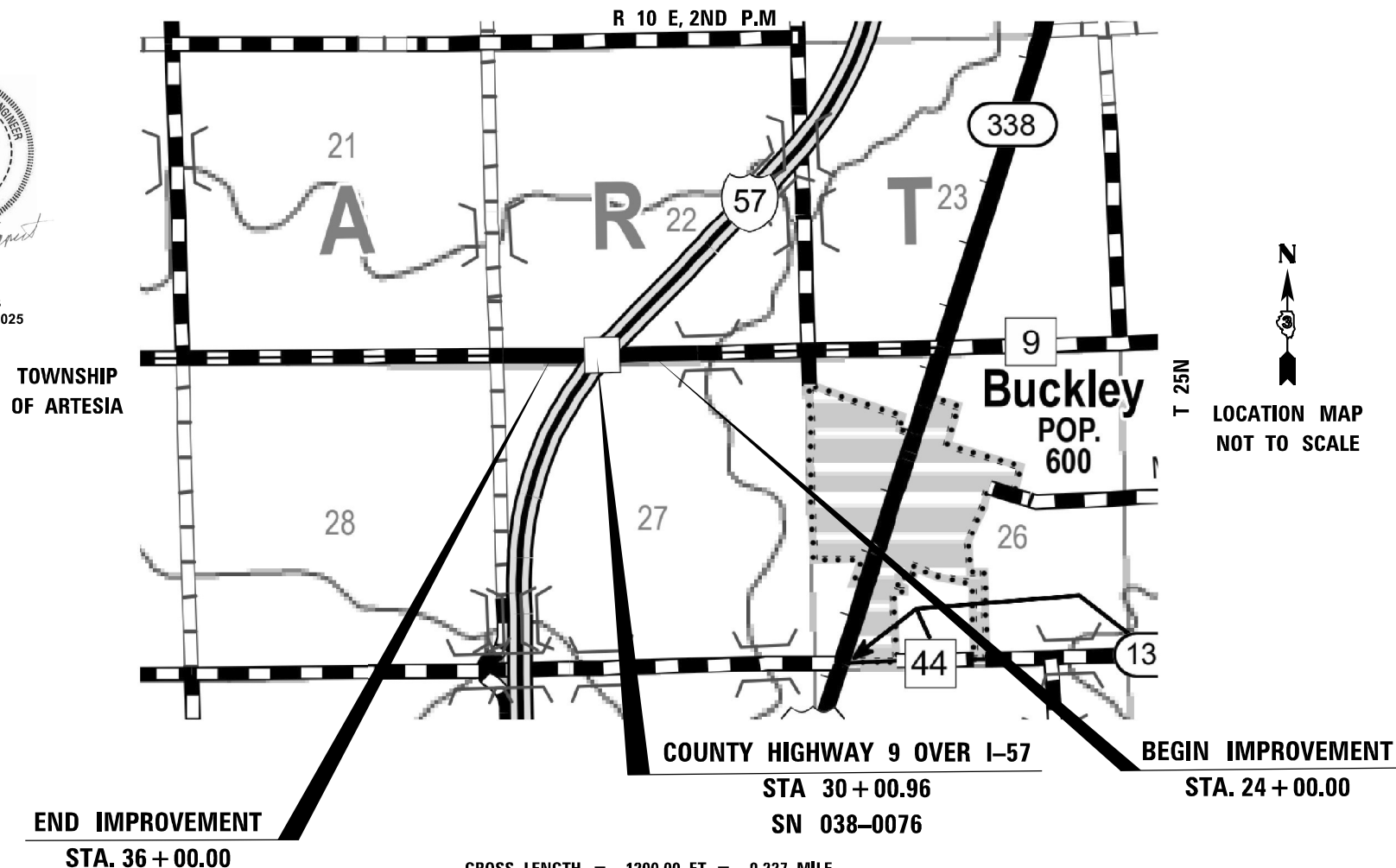
Franklin P. Eppert  
SHEETS 40-43  
DATE: 10/13/2023  
EXPIRES: 11/30/2025



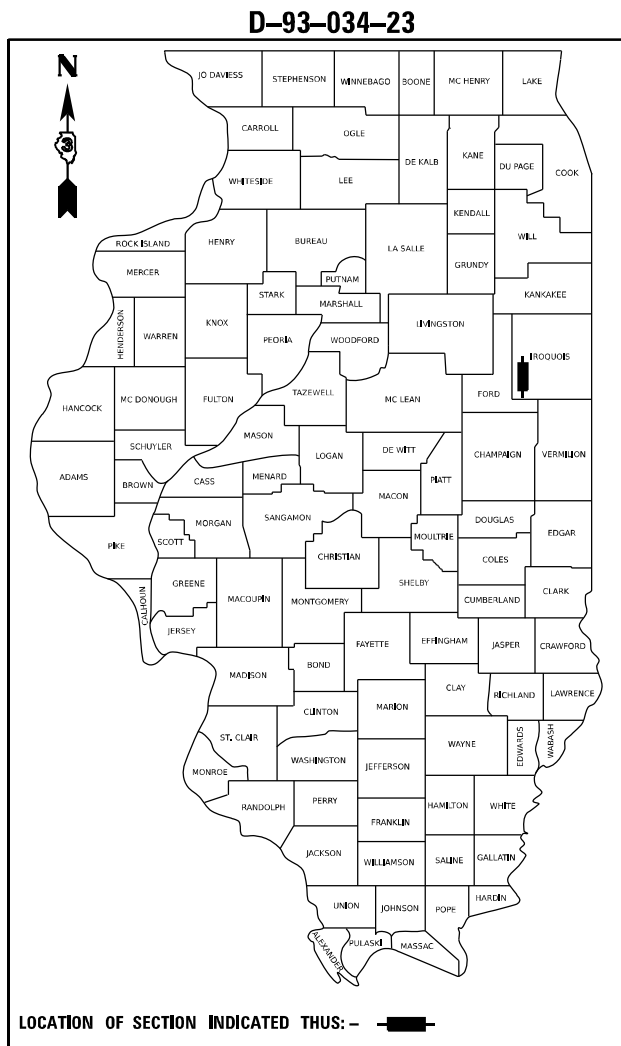
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-892-0123  
OR 811

PROJECT ENGINEER: JOE KANNEL, PE  
UNIT CHIEF: DARCY MITCHELL  
DISTRIT 3 NO. (815) 434-6131  
CONTRACT NO. 66E40



GROSS LENGTH = 1200.00 FT. = 0.227 MILE  
NET LENGTH = 1200.00 FT. = 0.227 MILE



I-57 - INTERSTATE 2021 ADT = 17400  
P.V. = 57.0% S.U. = 4.5% M.U. = 38.5%  
CH 9 - RURAL MAJOR COLLECTOR 2021 ADT = 1050  
(NO TRUCK INFO)

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED October 23, 2023

*James A. Arnold*  
REGIONAL ENGINEER

December 8, 2023

*Scott A. Etkin*  
ENGINEER OF DESIGN AND ENVIRONMENT

December 8, 2023

*Stephen M. Smith*  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

## HIGHWAY STANDARDS

000001-08	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
420401-13	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB
482001-02	HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
610001-09	SHOULDER INLET WITH CURB
630001-13	STEEL PLATE BEAM GUARDRAIL
631031-18	TRAFFIC BARRIER TERMINAL, TYPE 6
643001-02	SAND MODULE IMPACT ATTENUATORS
701306-04	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS $\geq$ 45 MPH
701321-18	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701400-12	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-13	LANE CLOSURE, FREEWAY/EXPRESSWAY
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OF EXIT RAMP, FOR SPEEDS $\geq$ 45 MPH
701901-09	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
821101-02	LUMINAIRE WIRING IN POLE
825016-04	LIGHTING CONTROLLER PEDESTAL MOUNTED, 480V
830001-03	LIGHT POLE ALUMINUM MAST ARM
836001-04	LIGHT POLE FOUNDATION
838001-01	BREAKAWAY DEVICES

## IDOT DISTRICT 3 DETAILS

HMA DETAIL AT BUTT JOINTS  
 BUTT JOINT DETAILS  
 PAVEMENT MARKING DETAILS  
 TEMPORARY INFORMATION SIGNING - ROAD WORK  
 TYPICAL ISLAND PAVEMENT MARKING  
 WIDTH RESTRICTION SIGN DETAIL  
 LINEAR DELINEATOR APPLICATION TO STANDARD GALVANIZED GUARDRAIL  
 LINEAR DELINEATOR PANELS FOR TEMPORARY CONCRETE BARRIER  
 SMART WORK ZONE DETAILS

## GENERAL NOTES

- EXCEPT AS NOTED ON THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.
- THE ENGINEER WILL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS HMA LIFTS.
- THE FINISHED EARTHWORK SHALL HAVE A VEGETATION SUSTAINING SOIL COVERING THE TOP FOUR INCHES (100 MILLIMETERS) IN AREAS TO BE SEEDED OR SODDED. THE VEGETATION SUSTAINING SOIL REQUIRED WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF EARTH EXCAVATION.
- SHORT TERM PAVEMENT MARKING SHALL BE USED TO OUTLINE EXIT AND ENTRANCE RAMPS FOR THE PRIME COAT APPLICATION AND EACH RESURFACING LIFT.
- THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

HMA RESURFACING	112 LBS / SQ YD / IN
AGGREGATE SHOULDERS	2.05 TONS / CU YD
SHORT TERM PAVEMENT MARKING	10 FT / 100 FT OF APPLICATION

THE MEMBERS OF JULIE KNOWN TO BE WITHIN THE PROJECT LIMITS ARE: CMS FIBER, EASTERN ILLINI ELECTRIC CO-OP, FRONTIER, METRO COMMUNICATIONS, AND WINDSTREAM

## HMA MIXTUE REQUIREMENT TABLE

LOCATIONS:	ENTIRE PROJECT	ENTIRE PROJECT	ENTIRE PROJECT	ENTIRE PROJECT
MIXTURE USE(S):	HMA BINDER	HMA SURFACE	HMA SHOULDER BOTTOM LIFT	HMA SHOULDER TOP LIFT
BINDER GRADE (PG):	SBS PG 70-22	PG 64-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS:	4.0% @ N50	4.0% @ N50	4.0% @ N50	4.0% @ N50
MIXTURE COMPOSITION: (MIXTURE GRADATION)	IL 4.75	IL 9.5	IL 19.0	IL 9.5
FRICTION AGGREGATE:		MIXTURE C		
MIXTURE WEIGHT:	112.0 LB/SY/IN	112.0 LB/SY/IN	112.0 LB/SY/IN	112.0 LB/SY/IN
QUALITY MANAGEMENT PROGRAM:	QCQA	QCQA	QCQA	QCQA
SUBLOT SIZE:	N/A	N/A	N/A	N/A
DENSITY TEST METHOD:	CORES/NUCLEAR	CORES/NUCLEAR	CORES/NUCLEAR	CORES/NUCLEAR
MATERIAL TRANSFER DEVICE (REQUIRED):	NO	NO	NO	NO
THICKNESS:	1" MIN VAR TO 1 1/4"	MIN 1 1/2" VAR TO 2 1/4"	3"	1.5"

66E40 - CO. HWY 9 OVER I-57

## COMMITMENTS:

NONE

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 DISTRICT THREE  
 AS BUILT INFORMATION

\_\_\_\_\_  
 SUPERVISING CONSTRUCTION FIELD ENGINEER

\_\_\_\_\_  
 RESIDENT ENGINEER / TECHNICIAN

START & END DATES  
 OF CONSTRUCTION: \_\_\_\_\_

INSPECTORS: \_\_\_\_\_

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

GENERAL NOTES  
 AND COMMITMENTS

SCALE: SHEET 2 OF 104 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-7HB-2)D	IROQUOIS	104	2
CONTRACT NO. 66E40				
ILLINOIS   FED. AID PROJECT				



MODEL\_S00\_1 (Sheet)  
 FILE NAME: \\c:\p\m\h\h-s02-pw\cently.com\pw\_ext\Documents\20381728015510\_Transportation\02\_Engineering\_Services\01\_Roadway\10\_BIM\_CADD\5HT\366E40-SHT-S00.dgn

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				90% FED 10% STATE
				BRIDGE
				0013 038-0076
20200100	EARTH EXCAVATION	CU YD	380	380
20400800	FURNISHED EXCAVATION	CU YD	70	70
25000210	SEEDING, CLASS 2A	ACRE	0.75	0.75
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	68	68
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	68	68
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	68	68
25100630	EROSION CONTROL BLANKET	SQ YD	2836	2836
28000400	PERIMETER EROSION BARRIER	FOOT	1077	1077
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	738	738
40600370	LONGITUDINAL JOINT SEALANT	FOOT	1200	1200
40603200	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50	TON	127	127
40604050	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50	TON	190	190
42000080	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB	SQ YD	234	234
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SQ YD	2261	2261

USER NAME = JUEJ	DESIGNED - JJ	REVISED -
	DRAWN - JJ	REVISED -
PLOT SCALE = 0.16666633 1 / in.	CHECKED - AAC	REVISED -
PLOT DATE = 10/23/2023	DATE - 10-13-23	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
SCALE:	SHEET 3	OF 104 SHEETS	STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-7HB-2)D	IROQUOIS	104	3
			CONTRACT NO. 66E40	
ILLINOIS FED. AID PROJECT				

MODEL: SDO\_3 (Sheet)  
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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				90% FED 10% STATE
				BRIDGE
				0013 038-0076
44000167	HOT-MIX ASPHALT SURFACE REMOVAL, 4 1/2"	SQ YD	978	978
48203015	HOT-MIX ASPHALT SHOULDERS, 4 1/2"	SQ YD	940	940
50102400	CONCRETE REMOVAL	CU YD	46	46
50104701	REMOVAL OF EXISTING CONCRETE DECK NO. 1	EACH	1	1
50157300	PROTECTIVE SHIELD	SQ YD	114	114
50200100	STRUCTURE EXCAVATION	CU YD	132	132
50300225	CONCRETE STRUCTURES	CU YD	63	63
50300255	CONCRETE SUPERSTRUCTURE	CU YD	403	403
50300260	BRIDGE DECK GROOVING	SQ YD	1253	1253
50300300	PROTECTIVE COAT	SQ YD	1628	1628
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	100	100
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	3510	3510
50500505	STUD SHEAR CONNECTORS	EACH	2136	2136
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	148890	148890

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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SCALE: SHEET 4 OF 104 SHEETS STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-7HB-2)D	IROQUOIS	104	4
CONTRACT NO. 66E40			ILLINOIS FED. AID PROJECT	

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				90% FED 10% STATE
				BRIDGE
				0013 038-0076
50800515	BAR SPLICERS	EACH	1156	1156
51201600	FURNISHING STEEL PILES HP12X53	FOOT	366	366
51202305	DRIVING PILES	FOOT	366	366
51203600	TEST PILE STEEL HP12X53	EACH	2	2
51204650	PILE SHOES	EACH	8	8
51500100	NAME PLATES	EACH	1	1
52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	12	12
52100020	ELASTOMERIC BEARING ASSEMBLY, TYPE II	EACH	12	12
52100520	ANCHOR BOLTS, 1"	EACH	72	72
52200020	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	144	144
58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	132	132
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	78	78
60146304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	138	138
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	1063	1063

\*= SPECIALTY ITEM

USER NAME = JUEJ	DESIGNED - JJ	REVISED -
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SCALE: SHEET 5 OF 104 SHEETS STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-7HB-2)D	IROQUOIS	104	5
			CONTRACT NO. 66E40	
ILLINOIS FED. AID PROJECT				



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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				90% FED 10% STATE
				BRIDGE 0013 038-0076
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	120	120
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	1437	1437
70307120	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE	FOOT	9092	9092
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1700	1700
70400125	PINNING TEMPORARY CONCRETE BARRIER	EACH	112	112
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1700	1700
70600251	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	4	4
70600352	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	4	4
* 72000300	SIGN PANEL - TYPE 3	SQ FT	351	351
* 72400330	REMOVE SIGN PANEL - TYPE 3	SQ FT	126	126
72700100	STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY	POUND	3200	3200
73400100	CONCRETE FOUNDATIONS	CU YD	9.6	9.6

\*= SPECIALTY ITEM

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SCALE: SHEET 7 OF 104 SHEETS STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-7HB-2)D	IROQUOIS	104	7
CONTRACT NO. 66E40			ILLINOIS FED. AID PROJECT	

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE	
				90% FED 10% STATE	
				BRIDGE	
				0013 038-0076	
* 78004600	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - LETTERS AND SYMBOLS	SQ FT	256	256	
* 78004720	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - LINE 24"	FOOT	68	68	
* 78005110	EPOXY PAVEMENT MARKING - LINE 4"	FOOT	6475	6475	
* 78005130	EPOXY PAVEMENT MARKING - LINE 6"	FOOT	1509	1509	
* 78005140	EPOXY PAVEMENT MARKING - LINE 8"	FOOT	294	294	
* 78005150	EPOXY PAVEMENT MARKING - LINE 12"	FOOT	199	199	
* 78011000	GROOVING FOR RECESSED PAVEMENT MARKING, LETTERS AND SYMBOLS	SQ FT	256	256	
* 78011125	GROOVING FOR RECESSED PAVEMENT MARKING 25"	FOOT	68	68	
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	12	12	
* 78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	104	104	
	78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	4310	4310
* 80500100	SERVICE INSTALLATION, TYPE A	EACH	1	1	
* 81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	1160	1160	
* 81100600	CONDUIT ATTACHED TO STRUCTURE, 2" DIA., GALVANIZED STEEL	FOOT	300	300	

\*= SPECIALTY ITEM

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PLOT SCALE = 0.16666633 1 / in.	DRAWN - JJ	REVISED -					57	(38-7HB-2)D	IROQUOIS	104	8
PLOT DATE = 10/23/2023	CHECKED - AAC	REVISED -		SCALE:	SHEET 8	OF 104 SHEETS	STA.	TO STA.	CONTRACT NO. 66E40		
DATE - 10-13-23	DATE - 10-13-23	REVISED -		ILLINOIS FED. AID PROJECT							

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				90% FED 10% STATE
				BRIDGE
				0013 038-0076
* 81400700	HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	3	3
* 81603112	UNIT DUCT, 600V, 2-1C NO.6, 1/C NO.8 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	7922	7922
* 81702120	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 8	FOOT	1484	1484
* 81702130	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	2968	2968
* 82110008	LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H	EACH	24	24
* 82500330	LIGHTING CONTROLLER, PEDESTAL MOUNTED, 240VOLT, 60AMP	EACH	1	1
* 83009400	LIGHT POLE, ALUMINUM, 45 FT. M.H., 10 FT. MAST ARM	EACH	22	22
* 83600300	LIGHT POLE FOUNDATION, 30" DIAMETER	FOOT	143	143
* 83800506	BREAKAWAY DEVICE, COUPLING WITH ALUMINUM SKIRT OVER STAINLESS STEEL SCREEN	EACH	88	88
* 84200600	REMOVAL OF LIGHTING UNIT, NO SALVAGE	EACH	16	16
* 84200804	REMOVAL OF POLE FOUNDATION	EACH	16	16
* 84500110	REMOVAL OF LIGHTING CONTROLLER	EACH	1	1
* 84500120	REMOVAL OF ELECTRIC SERVICE INSTALLATION	EACH	1	1
* 84500130	REMOVAL OF LIGHTING CONTROLLER FOUNDATION	EACH	1	1

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PLOT DATE = 10/23/2023	CHECKED - AAC	REVISED -		SCALE:	SHEET 9	OF 104 SHEETS	STA.	TO STA.	CONTRACT NO. 66E40		
DATE - 10-13-23	DATE - 10-13-23	REVISED -		ILLINOIS FED. AID PROJECT							

MODEL: SDO 8 (Sheet)  
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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				90% FED 10% STATE
				BRIDGE
				0013
				038-0076
* 89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	300	300
* X0328004	REAL-TIME TRAFFIC CONTROL SENSOR UNIT	WEEK	70	70
X2700001	TEMPORARY RUMBLE STRIPS (SPECIAL)	EACH	6	6
X5067500	BRIDGE CLEANING AND PAINTING WARRANTY	L SUM	1	1
X6350204	LINEAR DELINEATOR PANELS, 4 INCH	EACH	16	16
X6350206	LINEAR DELINEATOR PANELS, 6 INCH	EACH	8	8
X7010239	CHANGEABLE MESSAGE SIGN (SPECIAL)	CAL WK	560	560
* X8110105	REMOVE CONDUIT ATTACHED TO STRUCTURE	FOOT	300	300
* X8570002	SMART TRAFFIC MONITORING SYSTEM	CAL WK	70	70
* X8570004	SMART TRAFFIC MONITORING DEVICE	CAL WK	350	350
Z0001899	JACK AND REMOVE EXISTING BEARINGS	EACH	24	24
Z0004552	APPROACH SLAB REMOVAL	SQ YD	230	230
Z0005216	HOT-MIX ASPHALT STABILIZATION 6" AT STEEL PLATE BEAM GUARD RAIL	SQ YD	363	363
Z0007101	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 1	L SUM	1	1

\*= SPECIALTY ITEM

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	DRAWN - JJ	REVISED -
PLOT SCALE = 0.16666633' / in.	CHECKED - AAC	REVISED -
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SCALE: SHEET 10 OF 104 SHEETS STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-7HB-2)D	IROQUOIS	104	10
CONTRACT NO. 66E40			ILLINOIS FED. AID PROJECT	



CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				90% FED 10% STATE
				BRIDGE
				0013 038-0076
Z0010501	CLEANING AND PAINTING STEEL BRIDGE NO. 1	L SUM	1	1
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	62	62
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	1	1
Z0076600	TRAINEES	HOUR	1,000	1,000
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	42	42
Z0076604	TRAINEES - TRAINING PROGRAM GRADUATE	HOUR	1,000	1,000
Z0065700	SLOPE WALL REPAIR	SQ YD	8	8

∅

∅

∅ 0042

MODEL: SDO\_0\_1Sheet1  
FILE NAME: \\csm\anth-s02-pw\cently.com\pw.ext\Documents\20381728015510\_Transportation\02\_Engineering\_Services\01\_Roadway\10\_BIM\_CADD\5HT\0366E40-5HT-500.dgn

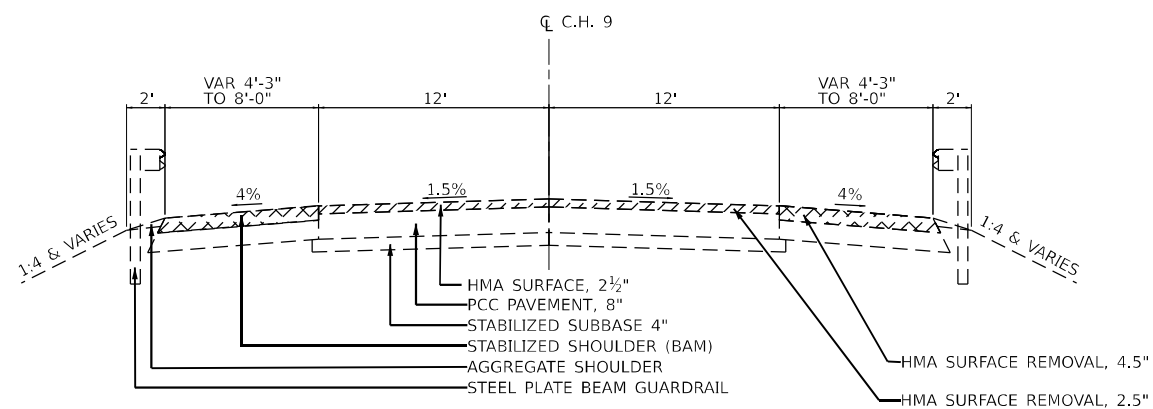
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	DRAWN - JJ	REVISED -
PLOT SCALE = 0.16666633 1 / in.	CHECKED - AAC	REVISED -
PLOT DATE = 10/23/2023	DATE - 10-13-23	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

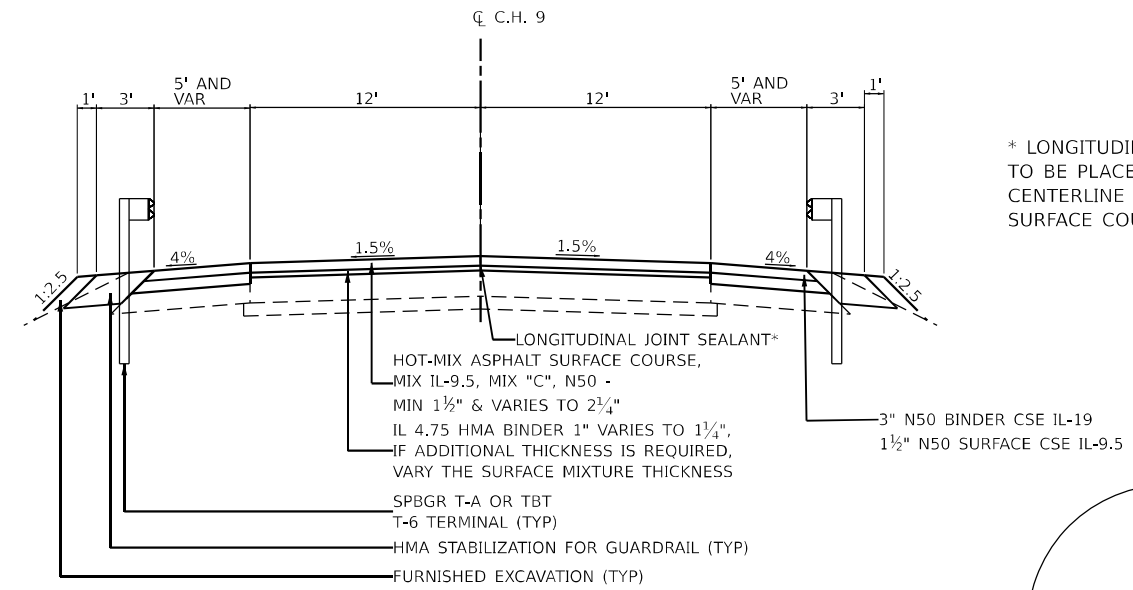
SCALE: SHEET 11 OF 104 SHEETS STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-7HB-2)D	IROQUOIS	104	11
			CONTRACT NO. 66E40	
ILLINOIS FED. AID PROJECT				



**EXISTING TYPICAL CROSS SECTION**

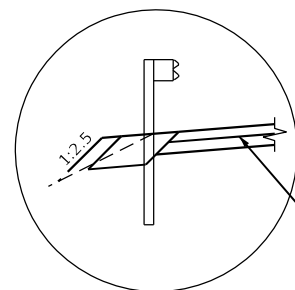
C.H. 9  
 LOOKING WEST  
 STA 24+00.00 TO STA 28+24.36  
 STA 31+83.29 TO STA 36+00.00  
 BRIDGE OMISSION STA 28+24.36 TO STA 31+83.29



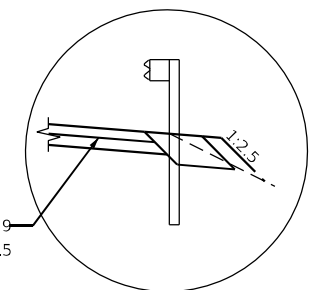
**PROPOSED TYPICAL CROSS SECTION**

C.H. 9  
 LOOKING WEST  
 STA 24+00.00 TO STA 28+24.91  
 STA 31+77.00 TO STA 36+00.00  
 BRIDGE OMISSION STA 28+24.36 TO STA 31+83.29

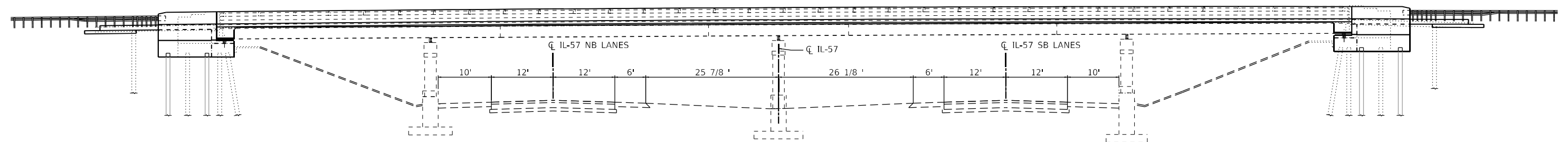
\* LONGITUDINAL JOINT SEALANT TO BE PLACED FOR THE CENTERLINE UNDER THE HMA SURFACE COURSE.



HMA SHOULDER DETAIL  
 STA 25+35.86 TO STA 28+35.38  
 STA 31+91.83 TO STA 34+58.43



HMA SHOULDER DETAIL  
 STA 25+47.17 TO STA 28+14.42  
 STA 31+66.54 TO STA 34+55.73



**EXISTING TYPICAL CROSS SECTION**

IL-57  
 LOOKING SOUTHBOUND

MODEL: Typical (Sheet)  
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DRAWN - JGC	CHECKED - AAC	REVISED -
PLOT SCALE = 0.16666633 1 / in.	DATE - 10-13-23	REVISED -
PLOT DATE = 10/17/2023		

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>TYPICAL SECTIONS C.H. 9</b>			
SCALE:	SHEET 12	OF 104 SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-7HB-2)D	IROQUOIS	104	12
CONTRACT NO. 66E40			ILLINOIS FED. AID PROJECT	

MAINTENANCE OF TRAFFIC SCHEDULE													
STA.	TO	STA.	SIDE	STAGE NO.	TEMP CONC BARRIER	PIN TEMP CONC BARRIER	REL TEMP CONC BARRIER	BARR WALL REF TYPE C	MP ATTN TEMP NRN TL3	IMP ATTN REL NRN TL3	TMP PVT MK L4 T4 TAP	TMP PVT MK L6 T4 TAP	TMP PVT MK L24 T4 TAP
					FT	EACH	FT	EACH	EACH	EACH	FOOT	FOOT	FOOT
COUNTY HIGHWAY 9 (CH 9) / E 800 NORTH RD													
25+62.50		26+50.00	RT	1	90			6					
26+50.00		33+50.00	LT	1	700	56		20					
33+50.00		34+37.50	RT	1	90			6					
25+62.50		26+50.00	LT	2			90						
26+50.00		33+50.00	RT	2		56	700						
33+50.00		34+37.50	LT	2			90						
25+62.50			LT	1					1				
34+37.50			LT	1					1				
25+62.50			RT	2					1				
34+37.50			RT	2					1				
28+22.30		31+45.18	RT					10					
28+56.75		31+74.83	LT					10					
25+47.17		34+55.73	RT	1									
24+15.41		34+37.50	RT	1									
25+35.86		34+58.43	RT	2									
24+04.36		36+00.00	LT	2									
22+61.94			RT	1/2									12
37+24.14			LT	1/2									12
CH 9 SUBTOTAL					880	112	880	52	2	2	0	0	24
I - 57													
1222+95.01		1227+33.07	LT	1	440			14					
1224+49.15		1228+26.24	RT	1	380			12					
1222+95.20		1227+33.84	LT	2			440						
1224+16.47		1227+98.68	RT	2			380						
1224+49.15			RT	1					1				
1227+33.07			LT	1					1				
1224+16.47			RT	2					1				
1227+33.84			LT	2					1				
1211+92.38		1229+26.00	RT	1							1734		
1221+96.05		1237+81.35	LT	1							1586		
1220+90.71		1231+25.75	RT	2							2036		
1220+60.95		1230+26.18	RT	2							966		
1219+61.63		1237+48.39	LT	2							1782		
1220+61.63		1230+48.94	LT	2							988		
I - 57 SUBTOTAL					820	0	820	26	2	2	9092	0	0
GRAND TOTAL					1700	112	1700	78	4	4	9092	0	24

GUARDRAIL SCHEDULE									
STA.	TO	STA.	SIDE	SPBGR TY A 6FT POSTS	TRAF BAR TERM TYPE 6	GUARDRAIL REMOV	GRDRAIL REF TYPE A	LENGTH OF NEED (LON)	
				FT	EACH	FT	EACH	FT	
COUNTY HIGHWAY 9 (CH 9) / E 800 NORTH RD									
31+80.73		34+55.73	RT	275		275	3		
25+47.17		27+97.17	RT	250		250	3		
32+08.43		34+58.43	LT	250		250	3		
25+35.86		28+23.36	LT	287.5		287.5	3		
30+92.78		31+30.28	RT		1				
28+42.31		28+79.81	RT		1				
31+22.53		31+60.03	LT		1				
28+71.89		28+56.43	LT		1				
26+87.50		33+12.50	RT						625
26+87.50		33+12.50	LT						625
TOTAL				1062.5	4	1062.5	12		1250

DELINEATORS SCHEDULE						
STA.	TO	STA.	SIDE	LINEAR DELIN PANELS 4	LINEAR DELIN PANELS 6	LENGTH OF NEED (LON)
				EACH	EACH	
COUNTY HIGHWAY 9 (CH 9) / E 800 NORTH RD						
31+84.29		34+55.73	RT	4		
25+47.17		27+87.91	RT	4		
31+61.42		34+58.43	LT	4		
25+35.86		28+17.62	LT	4		
28+24.36		31+83.29	LT		4	
28+24.36		31+83.29	RT		4	
TOTAL				16	8	

PAVING SCHEDULE										
STA.	TO	STA.	SIDE	STAGE	HMA SC IL-9.5 C N50	P HMA BC IL-4.75 N50	HMA SHOULDERS 4 1/2	BITUMINOUS MATERIALS	LONG JOINT SEALANT	HMA STAB 6 AT SPBGR
					TON	TON	SQ YD	POUND	FOOT	SQ YD
COUNTY HIGHWAY 9 (CH 9) / E 800 NORTH RD										
24+00.00		36+00.00							1200	
24+00.00		28+24.91			95	64	470	255		181
31+77.00		36+00.00			95	63	470	254		182
25+35.86		28+39.37						63		
25+47.17		28+14.55						52		
31+93.66		34+58.43						55		
31+68.58		34+55.73						59		
TOTALS					190	127	940	738	1200	363

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	DRAWN - JJ	REVISED -
PLOT SCALE = 0.16666633' / in.	CHECKED - AAC	REVISED -
PLOT DATE = 10/20/2023	DATE - 10-13-23	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES			
SCALE:	SHEET 13	OF 104 SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-7HB-2)D	IROQUOIS	104	13
CONTRACT NO. 66E40				
ILLINOIS FED. AID PROJECT				

PAVEMENT MARKING SCHEDULE														
STA.	TO	STA.	SIDE	STAGE NO.	PAVMT	SHRT TRM	PREF PL PM	PREF PL PM	EPOXY PVT	EPOXY PVT	EPOXY PVT	EPOXY PVT	GRV RCSD	GRV RCSD
					MRKG REM	PAVT MK							TD STD L&S	TD STD L24
					FT	SQ FT	SQ FT	FT	FT	FT	FT	FT	SQ FT	FT
COUNTY HIGHWAY 9 (CH 9) / E 800 NORTH RD														
25+83.95		34+46.28	RT	1	862	287								
24+49.28		25+83.95		1	285	95								
34+46.28		35+73.09		1	290	97								
25+35.86		34+15.99	LT	2	880	293								
22+63.06		22+78.00	RT				37						37	
24+29.78		24+44.72	LT				37						37	
35+53.49		35+69.43	RT				43						43	
37+10.91		37+25.85	LT				37						37	
22+45.71		37+51.29							3017					
22+45.71		36+78.88								1509				
23+99.95		36+00.10	LT						1200					
23+95.39		36+00.12	RT						1205					
CH 9 SUBTOTAL					2317	772	155	0	5422	1509	0	0	155	0
I - 57														
1208+33.15		1211+33.15	RT	1	993	331								
1213+10.48		1228+10.80	RT	1	1000	333								
I- 57 SUBTOTAL					1993	664								
SUBTOTAL					4310	1437	155	0	5422	1509	0	0	155	0
RAMP A														
22+45.71		19+71.72	RT						162					
01+09.97		23+95.39	RT						87					
RAMP B														
20+25.69		20+15.69	LT				25						25	
20+10.22		20+18.38	LT				25						25	
22+45.71		01+09.97	LT						167					
19+71.72		23+99.95	LT						113					
23+21.11		23+74.41									147	99		
20+46.02		20+50.35	RT					16						16
20+19.19		20+33.44	LT					18						18
RAMP C														
19+83.21		19+91.83	RT				25						25	
19+87.35		19+97.33	RT				25						25	
19+42.99		37+54.29	RT						162					
36+00.10		01+03.30	LT						100					
36+25.61		36+78.88									147	100		
19+92.07		20+14.73	RT					18						18
20+15.41		20+20.24	LT					16						16
RAMP D														
01+03.30		37+54.29	LT						173					
36+00.12		19+42.99	RT						87					
RAMP SUBTOTAL					0	0	101	68	1053	0	294	199	101	68
GRAND TOTAL					4310	1437	256	68	6475	1509	294	199	256	68

SIGNING SCHEDULE											
STA.	SIDE	SIGN ID	REMOV SIGN PANEL	SIGN PANEL T3	STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY						CONCRETE FOUNDATION
					NO. OF POST	SIZE	STUB POSTS	LEFT POST	RIGHT POST	TOTAL POST WEIGHT	
COUNTY HIGHWAY / E 800 NORTH RD											
22+55.17	RT	SIGN A		110.0	2	W10X22	3'-0"	19'-0"	20'-8"	873	2.4
24+66.85	LT	SIGN B	59.5	59.5	2	W10X22	3'-0"	15'-9"	17'-2"	724	2.4
35+39.16	RT	SIGN C	66.5	66.5	2	W10X22	3'-0"	15'-9"	17'-5"	730	2.4
37+35.01	LT	SIGN D		115.0	2	W10X22	3'-0"	19'-0"	20'-8"	873	2.4
TOTAL			126	351.0	8					3200	9.6

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DRAWN - JJ	REVISIONS -	
PLOT SCALE = 0.16666633 1 / in.	CHECKED - AAC	REVISED -
PLOT DATE = 10/18/2023	DATE - 10-13-23	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES**

SCALE: 1"=50' SHEET 14 OF 104 SHEETS STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-7HB-2)D	IROQUOIS	104	14
CONTRACT NO. 66E40				
ILLINOIS FED. AID PROJECT				

EARTHWORK SCHEDULE (SHRINKAGE = 25%)							
STATION			LENGTH	CUT VOLUMES		FILL VOLUMES	BALANCE
				CUT BETWEEN END AREAS	SHRINKAGE ADJUSTMENT	EMBANKMENT BETWEEN END AREAS	WASTE (+) OR SHORTAGE (-)
STA	TO	STA	FT	CU YD	CU YD	CU YD	CU YD
24+00.00		24+50.00	50	18.6	14.0	0.5	13.5
24+50.00		25+00.00	50	21.2	15.9	1.0	14.9
25+00.00		25+50.00	50	21.0	15.8	1.6	14.2
25+50.00		26+00.00	50	20.8	15.6	2.5	13.1
26+00.00		26+50.00	50	20.7	15.5	3.4	12.1
26+50.00		27+00.00	50	21.5	16.1	5.6	10.5
27+00.00		27+50.00	50	21.3	16.0	3.6	12.4
27+50.00		28+00.00	50	25.4	19.1	0.8	18.3
28+00.00		28+24.90	24.9	14.3	10.7	1.2	9.5
31+77.01		32+00.00	22.99	6.2	4.7	11.1	-6.5
32+00.00		32+50.00	50	19.7	14.8	2.5	12.3
32+50.00		33+00.00	50	29.8	22.4	5.8	16.6
33+00.00		33+50.00	50	28.8	21.6	10.2	11.4
33+50.00		34+00.00	50	23.0	17.3	8.5	8.8
34+00.00		34+50.00	50	21.7	16.3	3.4	12.9
34+50.00		35+00.00	50	21.7	16.3	2.7	13.6
35+00.00		35+50.00	50	22.8	17.1	2.5	14.6
35+50.00		36+00.00	50	17.3	13.0	1.1	11.9
TOTAL				375.8	281.9	68.0	213.9

SEEDING AND EROSION CONTROL SCHEDULE									
STA.	TO	STA	SIDE	SEEDING	NITROGEN	PHOSPHORUS	POTASSIUM	EROSION	PERIMETER
				CL 2A	FERT NUTR	FERT NUTR	FERT NUTR	CONTR BLANKET	EROS BAR
				ACRE	POUND	POUND	POUND	SQ YD	FOOT
COUNTY HIGHWAY 9 (CH 9) / E 800 NORTH RD									
26+99.86		29+70.02	LT	0.19	16.9	16.9	16.9	992	297
31+10.16		33+30.32	LT	0.19	16.9	16.9	16.9	538	237
26+66.69		28+86.99	RT	0.19	16.9	16.9	16.9	633	240
30+44.07		32+96.69	RT	0.19	16.9	16.9	16.9	673	303
TOTAL				0.75	68	68	68	2836	1077

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	DRAWN - JJ	REVISED -
PLOT SCALE = 0.16666633' / in.	CHECKED - AAC	REVISED -
PLOT DATE = 10/18/2023	DATE - 10-13-23	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES			
SCALE:	SHEET 15	OF 104 SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-7HB-2)D	IROQUOIS	104	15
CONTRACT NO. 66E40				
ILLINOIS FED. AID PROJECT				

**BENCHMARK #4**

CHISELED X IN CONC MEDIAN  
STA. 23+50.72, 29.72' LT.  
ELEV. 712.53

**BENCHMARK #5**

CHISELED SQUARE IN TOP  
OF NORTH EAST WINGWALL  
STA. 28+41.20, 17.73' RT.  
ELEV. 723.27

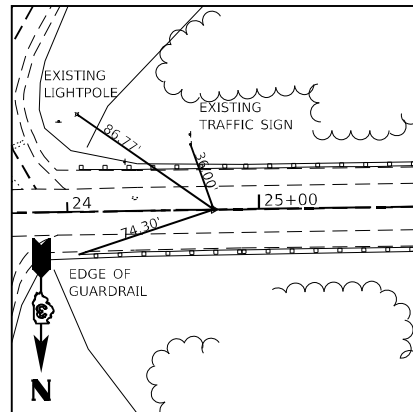
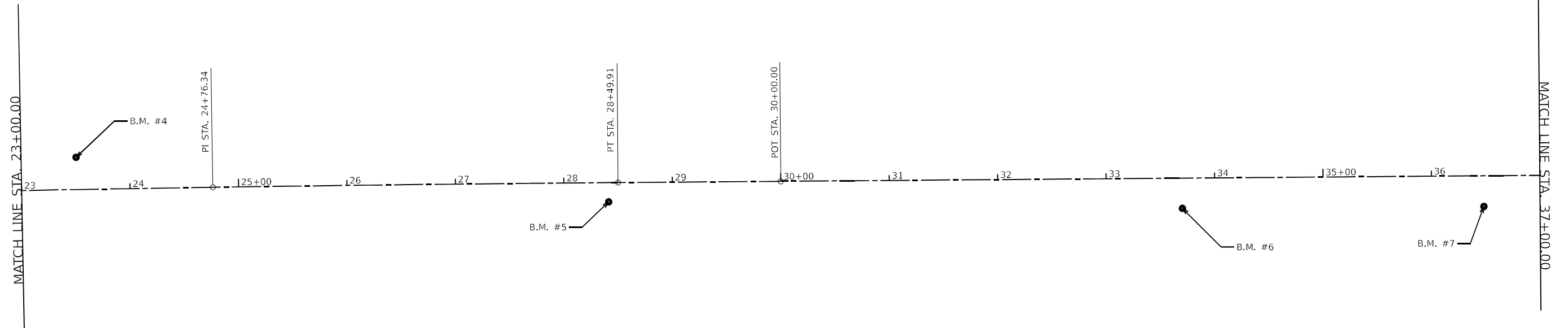
**BENCHMARK #6**

CHISELED X IN SE BOLT  
LIGHT POLE BASE  
STA. 33+70.13, 27.92' RT  
ELEV. 720.95

**BENCHMARK #7**

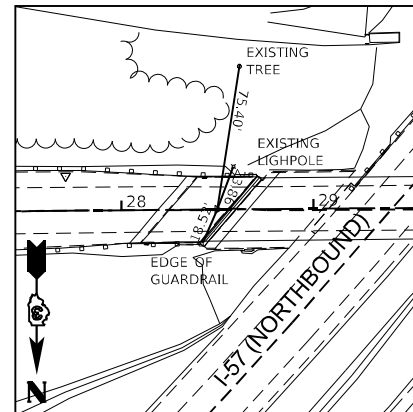
CHISELED X IN CONC MEDIAN  
STA. 36+48.21, 28.33' RT.  
ELEV. 719.04

ALIGNMENT COORDINATES - HC 9			
HC 9	STATION	N	E
P1	24+76.34	1434260.273	1061857.165
PT	28+49.91	1434257.324	1061483.596
POT	30+00.00	1434256.139	1061333.511



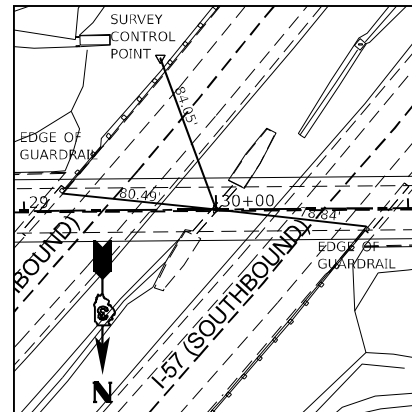
**CONTROL POINT #47**

STA. 24+76.34  
N 1434260.2730  
E 1061857.1647  
ELEV. 715.1879



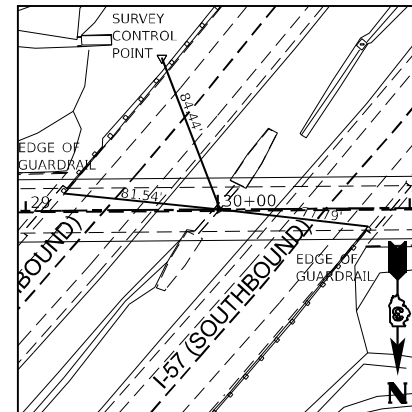
**CONTROL POINT #112**

STA. 28+49.91  
N 1434257.3236  
E 1061483.5964  
ELEV. 720.3343



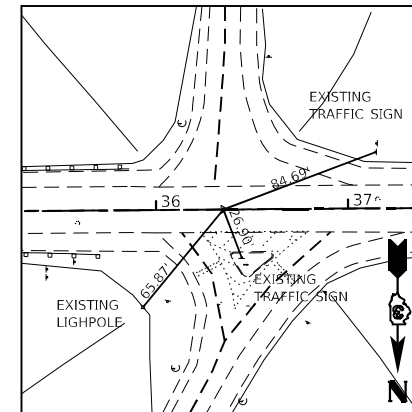
**CONTROL POINT #151**

STA. 30+00.00  
N 1434256.1387  
E 1061333.5111  
ELEV. 698.5169



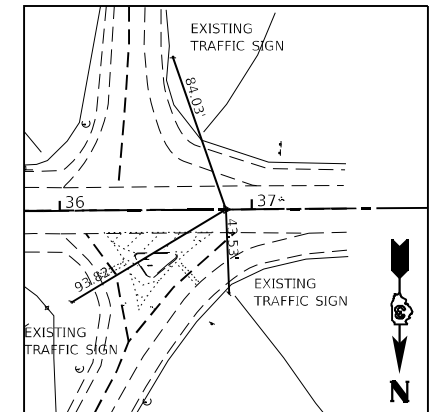
**CONTROL POINT #152**

STA. 30+01.05  
N 1434256.31304  
E 1061332.4650  
ELEV. 698.5505



**CONTROL POINT #248**

STA. 36+35.16  
N 1434251.1243  
E 1060698.3709  
ELEV. 719.2778



**CONTROL POINT #255**

STA. 36+86.52  
N 1434250.7188  
E 1060647.0125  
ELEV. 718.7237

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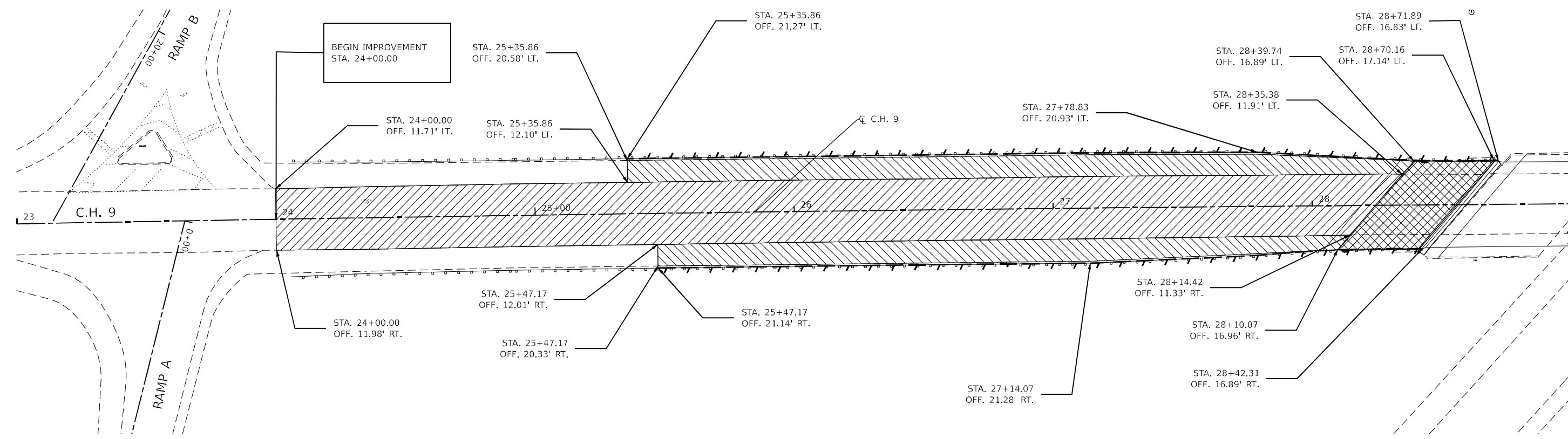
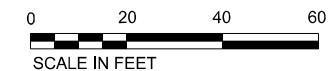
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DRAWN - JGC	REVISIONS -	
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PLOT DATE = 10/17/2023	DATE - 10-13-23	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**




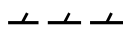
SCALE: 1"=50' SHEET 16 OF 104 SHEETS STA. 23+00.00 TO STA. 37+00.00

**ALIGNMENT, TIES,  
AND BENCHMARKS**

F.A.1 RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-7HB-2)D	IROQUOIS	104	16
CONTRACT NO. 66E40			ILLINOIS FED. AID PROJECT	



**REMOVAL LEGEND**

	HMA SURFACE REMOVAL, 2.5"
	HMA SURFACE REMOVAL, 4.5"
	APPROACH SLAB REMOVAL
	GUARDRAIL REMOVAL

MODEL: Removal Plans\_1 (Sheet)  
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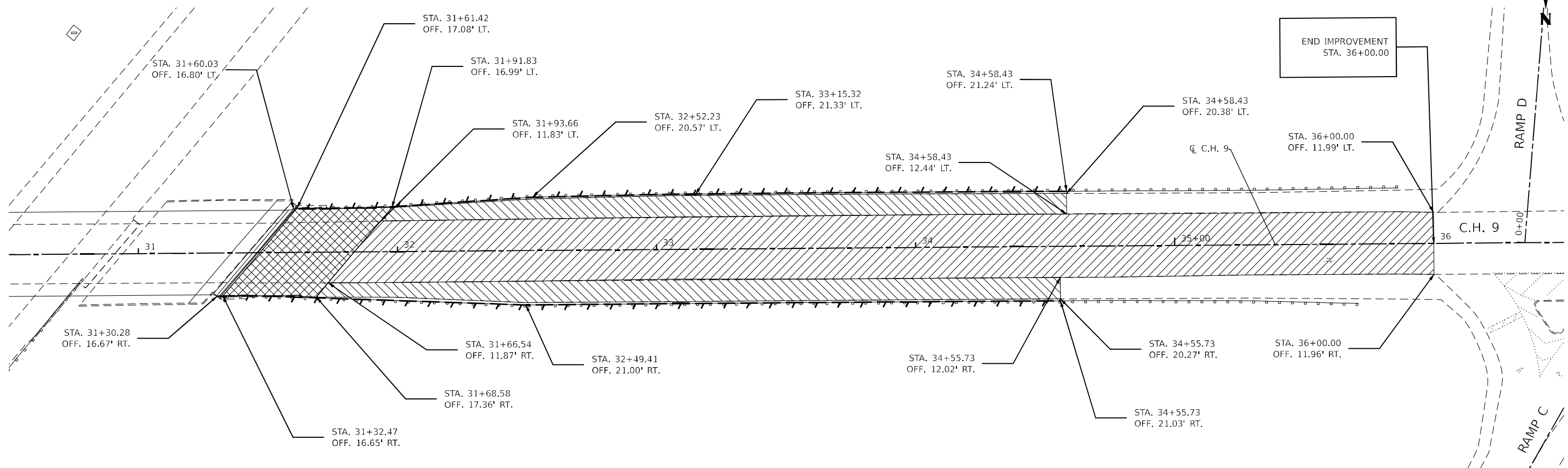
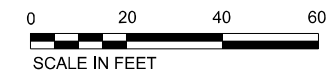
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	DRAWN - JGC	REVISED - _____
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PLOT DATE = 10/18/2023	DATE - 10-13-23	REVISED - _____

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**





**REMOVAL PLANS**

SCALE: 1"=20'    SHEET 17    OF 104 SHEETS    STA. 23+00.00    TO STA. 29+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-7HB-2)D	IROQUOIS	104	17
CONTRACT NO. 66E40			ILLINOIS FED. AID PROJECT	



**REMOVAL LEGEND**

	HMA SURFACE REMOVAL, 2.5"
	HMA SURFACE REMOVAL, 4.5"
	APPROACH SLAB REMOVAL
	GUARDRAIL REMOVAL

MODEL: Removal Plans 2 (Sheet)  
 FILE NAME: g:\c:\program files\autodesk\lisp\compw\ext\documents\203817280185\10\_Transportation\02\_Engineering\_Services\01\_Roadway\10\_BIM\_CADD\571D36E4D-SHT-REM.dgn

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PLOT DATE = 10/18/2023		

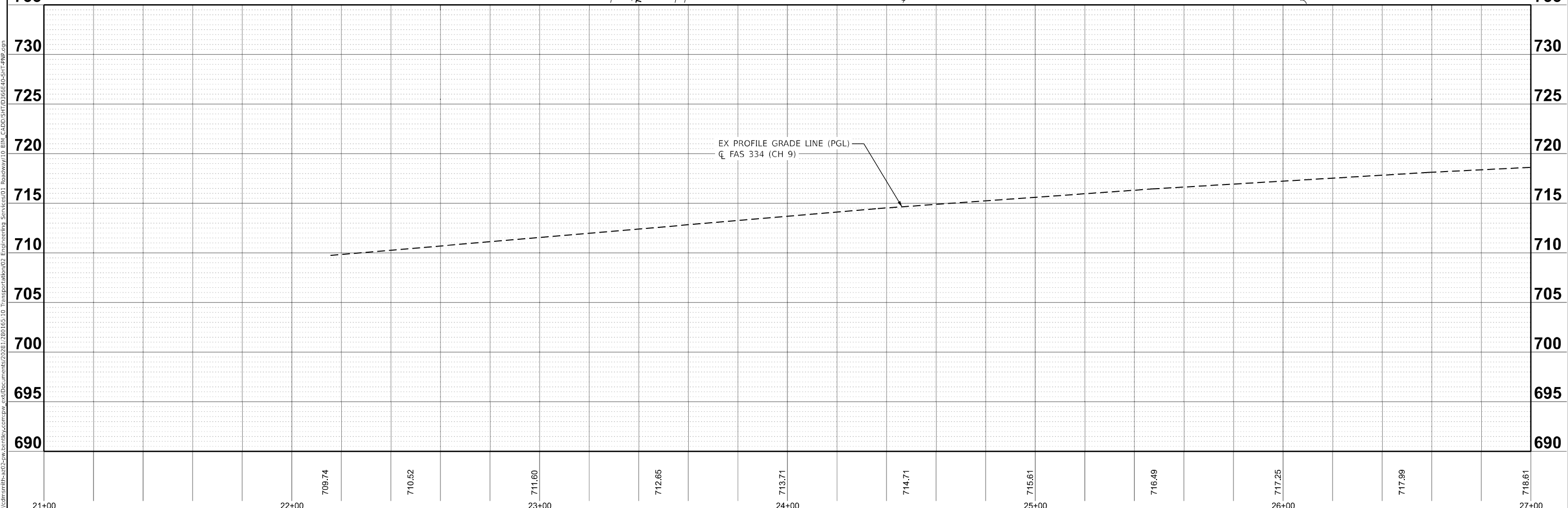
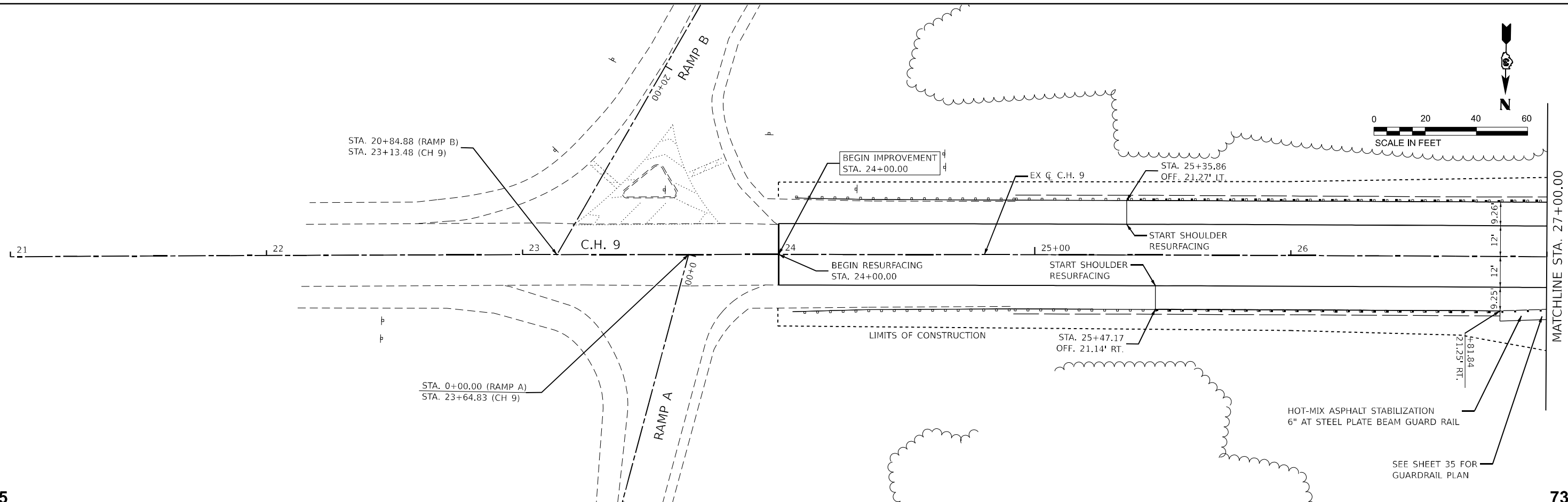
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**REMOVAL PLANS**

SCALE: 1"=20'    SHEET 18    OF 104 SHEETS    STA. 30+50.00    TO STA. 36+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-7HB-2)D	IROQUOIS	104	18
CONTRACT NO. 66E40				
ILLINOIS   FED. AID PROJECT				





USER NAME = CONNOLLYJG	DESIGNED - JJ	REVISED - _____
	DRAWN - JJ	REVISED - _____
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PLOT DATE = 10/17/2023	DATE - 10-13-23	REVISED - _____

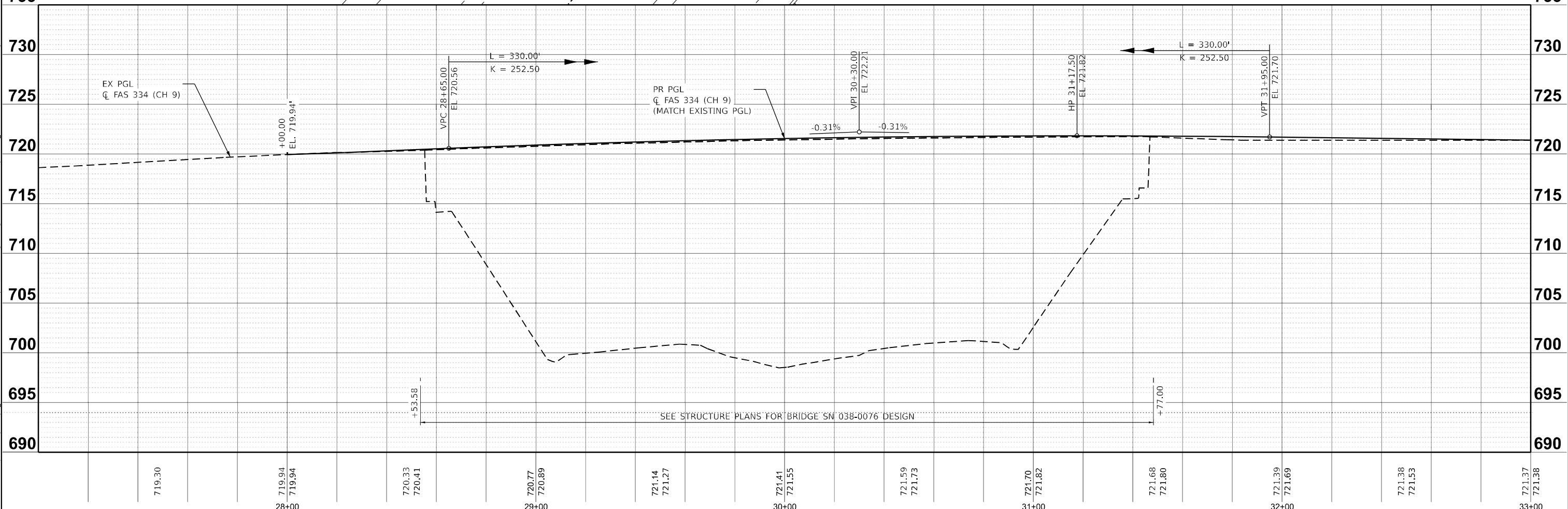
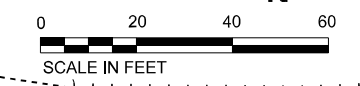
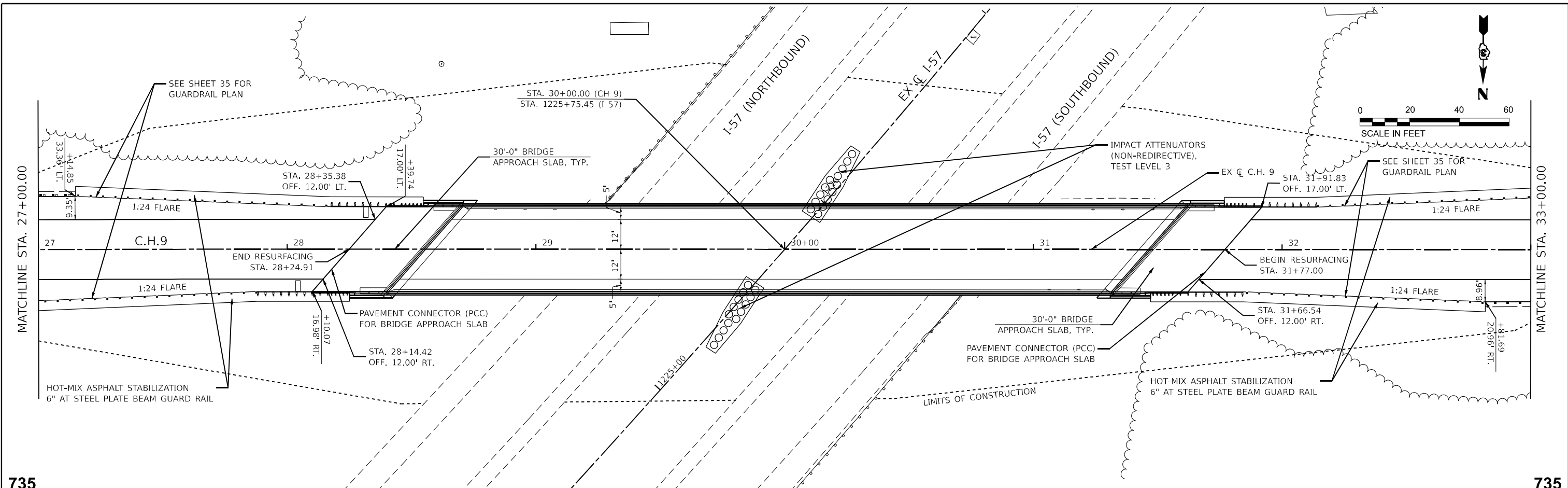
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PLAN AND PROFILE**

SCALE: 1"=20'    SHEET 19 OF 104 SHEETS    STA. 21+00.00 TO STA. 27+00.00

F.A.I. RTE. 57	SECTION (38-7HB-2)D	COUNTY IROQUOIS	TOTAL SHEETS 104	SHEET NO. 19
			CONTRACT NO. 66E40	
ILLINOIS FED. AID PROJECT				

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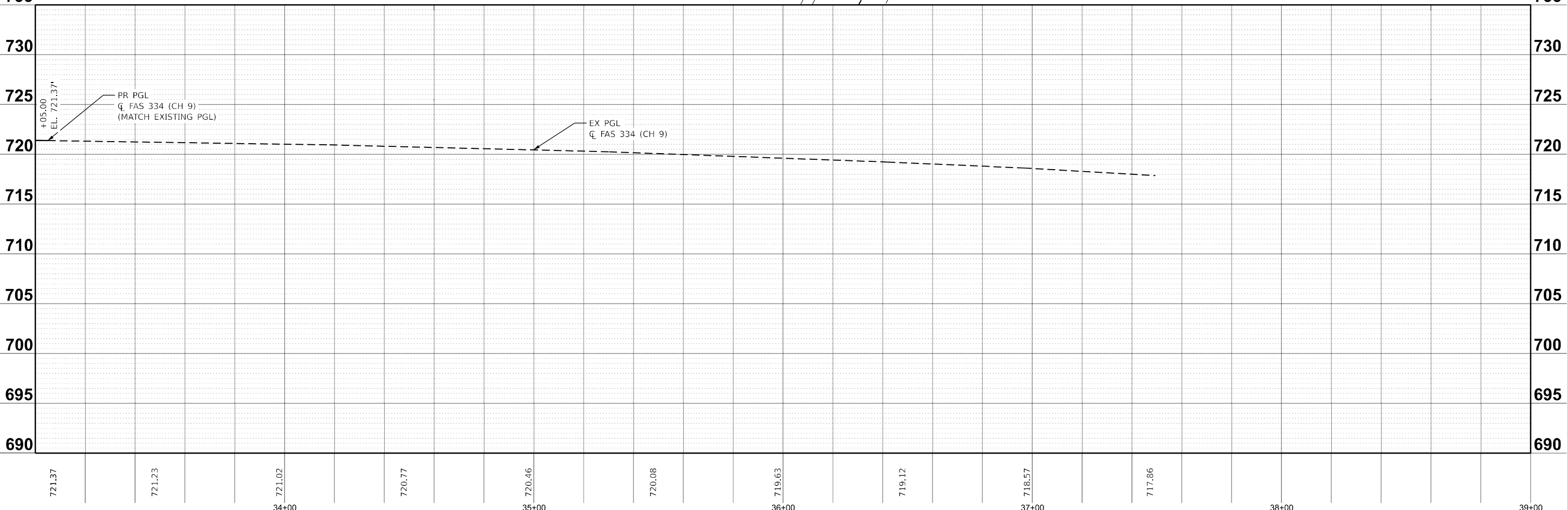
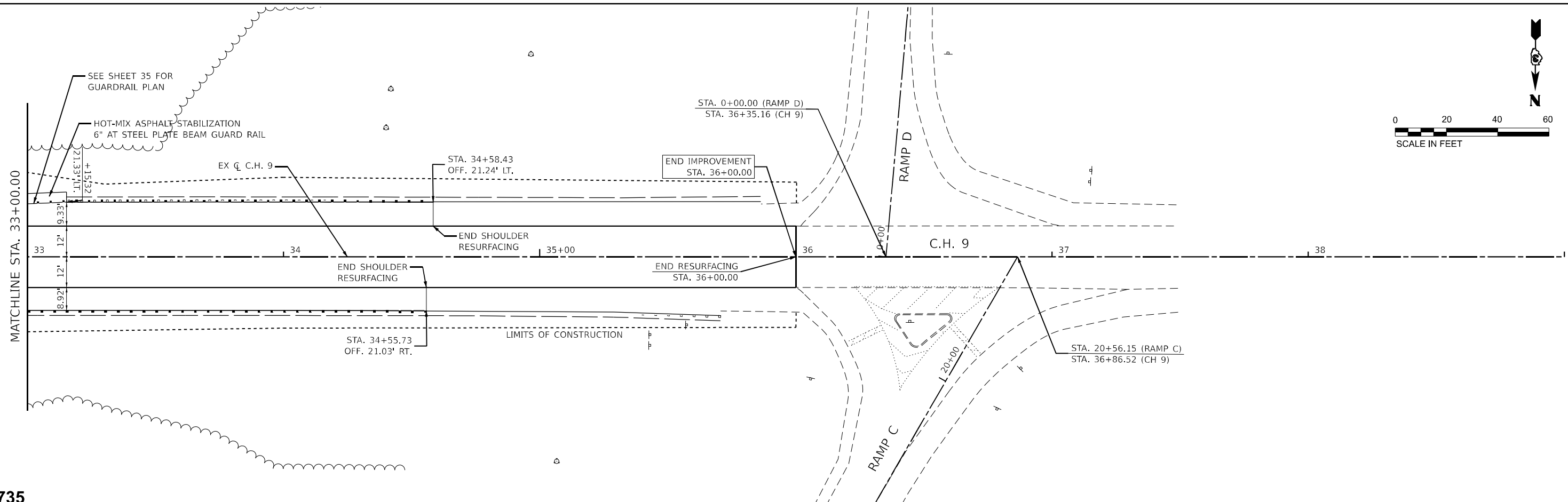
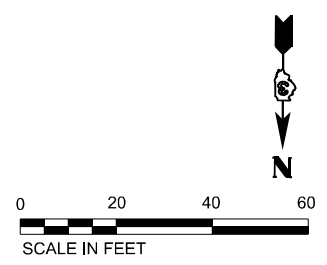
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 DRAWN BY: JJ  
 CHECKED BY: AAC  
 DATE: 10-13-23

USER NAME = CONNOLLYJG	DESIGNED - JJ	REVISED -
DRAWN - JJ	REVISOR -	
PLOT SCALE = 0.16666633' / in.	CHECKED - AAC	REVISED -
PLOT DATE = 10/18/2023	DATE - 10-13-23	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>PLAN AND PROFILE</b>			
SCALE: 1"=20'	SHEET 20	OF 104 SHEETS	STA. 27+00.00 TO STA. 33+00.00

F.A.1 RTE. 57	SECTION (38-7HB-2)D	COUNTY IROQUOIS	TOTAL SHEETS 104	SHEET NO. 20
CONTRACT NO. 66E40			ILLINOIS FED. AID PROJECT	



MODEL: I:\PROJECTS\C11\_0 - FHWA 3 (Sheet)  
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 ENGINEERING SERVICES: I:\PROJECTS\C11\_0 - FHWA 3 (Sheet)\CADD\SHR\0366E40-SHT-PPR.dwg  
 TRANSPORTATION: I:\PROJECTS\C11\_0 - FHWA 3 (Sheet)\CADD\SHR\0366E40-SHT-PPR.dwg

USER NAME = CONNOLLYJG	DESIGNED - JJ	REVISED -
DRAWN - JJ	REVISED -	
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PLOT DATE = 10/17/2023	DATE - 10-13-23	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PLAN AND PROFILE**

SCALE: 1"=20'    SHEET 21 OF 104 SHEETS    STA. 33+00.00 TO STA. 39+00.00

F.A.I. RTE. 57	SECTION (38-7HB-2)D	COUNTY IROQUOIS	TOTAL SHEETS 104	SHEET NO. 21
CONTRACT NO. 66E40			ILLINOIS FED. AID PROJECT	

**NOTES**

① SEE TYPICAL SECTIONS FOR PAVEMENT AND GUARDRAIL DETAILS

**PRE-STAGE CONSTRUCTION:**

CH 9

1. REMOVE WESTBOUND SHOULDER AND GUARDRAIL FROM STA. 25+47.17 TO STA. 27+62.91 AND FROM STA. 32+09.32 TO STA. 34+55.73. MAINTAIN EXISTING TRAFFIC BARRIER TERMINALS AT BRIDGE.
2. CONSTRUCT PERMANENT HMA SHOULDERS FROM STA. 25+47.17 TO STA. 27+62.91 AND FROM STA. 32+09.32 TO STA. 34+55.73.
3. CONSTRUCT WESTBOUND GUARDRAIL INSTALLATION AND TIE TO EXISTING FROM STA. 25+47.17 TO STA. 27+62.91 AND FROM STA. 32+09.32 TO STA. 34+55.73.

I-57

1. INSTALL PROTECTIVE SHIELDING (SEE BRIDGE PLANS FOR LIMITS OF PROTECTIVE SHIELDING)

**PRE-STAGE TRAFFIC:**

CH 9

PROVIDE ONE TWELVE-FOOT LANE THROUGH THE PROJECT LIMITS ON EXISTING EASTBOUND PAVEMENT AND EXISTING BRIDGE STRUCTURE. USE HIGHWAY STANDARD 701321 AND TEMPORARY TRAFFIC SIGNALS FOR TRAFFIC CONTROL AND PROTECTION.

I-57

PROVIDE ONE TWELVE FOOT LANE THROUGH THE PROJECT LIMITS ON EXISTING INSIDE LANES. USE HIGHWAY STANDARD 701401 AND 701411 AND DISTRICT 3 DETAIL 701-12.

**STAGE 1 CONSTRUCTION:**

CH 9

1. REMOVE EASTBOUND SHOULDER AND GUARDRAIL FROM STA. 25+35.86 TO STA 27+92.60 AND FROM STA. 32+38.98 TO STA. 34+58.43.
2. CONSTRUCT PERMANENT HMA SHOULDERS FROM STA. 25+35.86 TO STA 27+92.60 AND FROM STA. 32+38.98 TO STA. 34+58.43.
3. CONSTRUCT EASTBOUND GUARDRAIL FROM STA. 25+35.86 TO STA 27+92.60 AND FROM STA. 32+38.98 TO STA. 34+58.43.
4. REMOVE AND REPLACE SOUTHERN HALF OF BRIDGE DECK OVER I-57 (SEE STRUCTURE PLANS).

I-57

1. COMPLETE SUBSTRUCTURE WORK AT ABUTMENTS AND SLOPE WALLS.

**STAGE 1 TRAFFIC:**

CH 9

PROVIDE ONE TWELVE-FOOT LANE THROUGH THE PROJECT LIMITS ON EXISTING WESTBOUND PAVEMENT AND EXISTING BRIDGE STRUCTURE. USE HIGHWAY STANDARD 701321 AND TEMPORARY TRAFFIC SIGNALS FOR TRAFFIC CONTROL AND PROTECTION.

I-57

PROVIDE ONE TWELVE FOOT LANE THROUGH THE PROJECT LIMITS ON EXISTING INSIDE LANES. USE HIGHWAY STANDARD 701401 AND 701411 AND DISTRICT 3 DETAIL 701-12.

**STAGE 2 CONSTRUCTION:**

CH 9

1. REMOVE REMAINDER OF EXISTING WESTBOUND SHOULDER, GUARDRAIL, AND BARRIER TERMINAL AT BRIDGE.
2. CONSTRUCT REMAINDER OF WESTBOUND SHOULDER AND GUARDRAIL.
3. REMOVE AND REPLACE NORTHERN HALF OF BRIDGE DECK OVER I-57 (SEE STRUCTURE PLANS).

I-57

1. COMPLETE BRIDGE WORK ON NORTHERN PORTION OF STRUCTURE.
2. COMPLETE REMAINING SUBSTRUCTURE WORK AT ABUTMENTS AND SLOPE WALLS AND OUTSIDE PIERS.
3. BEGIN PAINTING FINISHED PORTIONS OF CH 9 BRIDGE.

**STAGE 2 TRAFFIC:**

CH 9

PROVIDE ONE TWELVE-FOOT LANE THROUGH THE PROJECT LIMITS ON EXISTING EASTBOUND PAVEMENT AND NEW BRIDGE DECK. USE HIGHWAY STANDARD 701321 AND TEMPORARY TRAFFIC SIGNALS FOR TRAFFIC CONTROL AND PROTECTION.

I-57

PROVIDE ONE TWELVE FOOT LANE THROUGH PROJECT LIMITS ON EXISTING OUTSIDE SHOULDER WHEN BRIDGE PIER AND ABUTMENT OPERATIONS ARE COMPLETE. USE HIGHWAY STANDARD 701401 AND 701411 AND DISTRICT 3 DETAIL 701-12.

**FINAL STAGE CONSTRUCTION:**

CH 9

MILL & OVERLAY ROADWAY WITHIN PROJECT LIMITS.

I-57

COMPLETE WORK ON MEDIAN PIER AND BRIDGE PAINTING

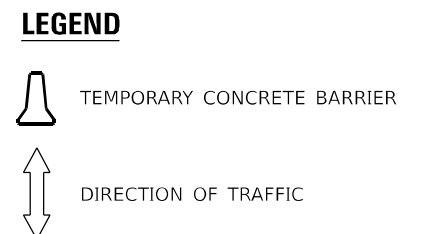
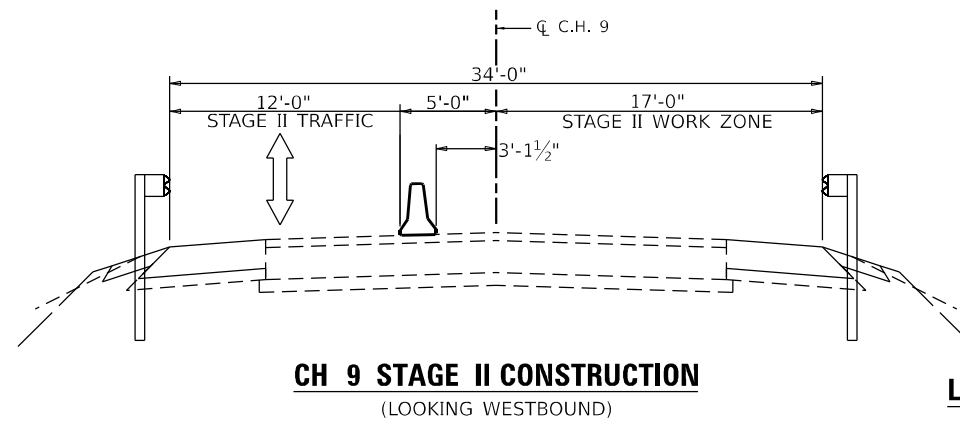
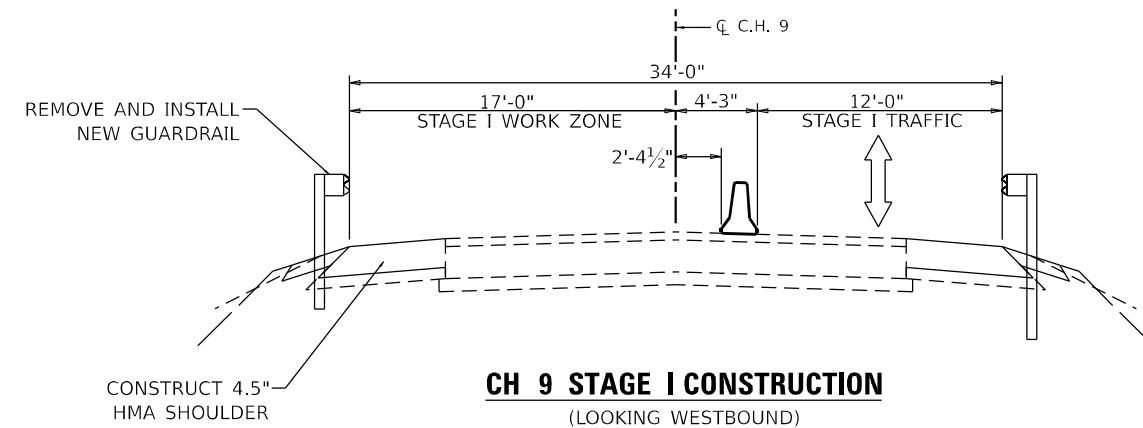
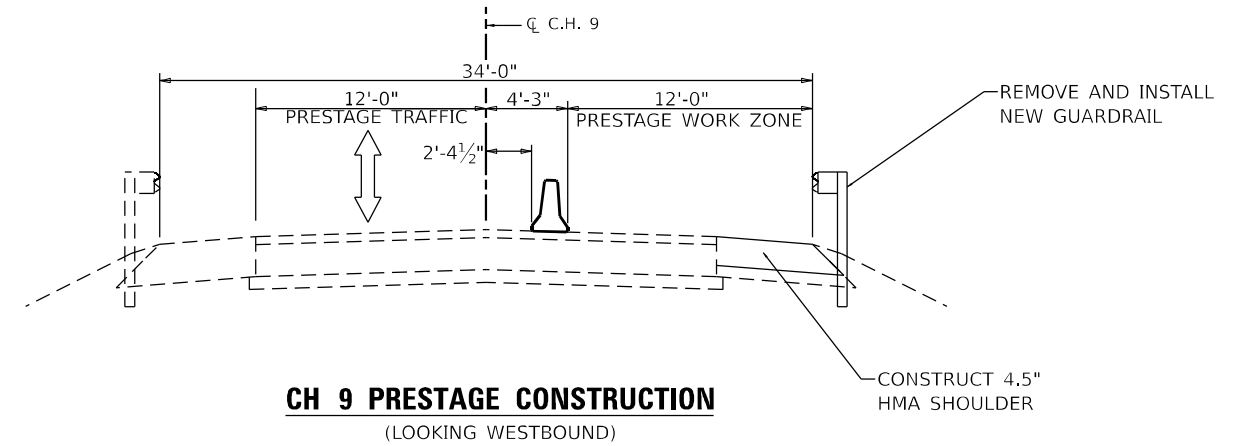
**FINAL STAGE TRAFFIC:**

CH 9

UTILIZE HIGHWAY STANDARD 701306 TO MAINTAIN ONE TWELVE-FOOT LANE DURING THE MILLING AND RESURFACING OPERATIONS ON CH 9.

I-57

PROVIDE ONE TWELVE-FOOT LANE THROUGH THE PROJECT LIMITS ON EXISTING SHOULDERS. USE HIGHWAY STANDARD 701401 AND 701411 AND DISTRICT 3 DETAIL 701-12.



MODEL: Typical (Sheet)  
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DRAWN - JJ	REVISIONS - _____	
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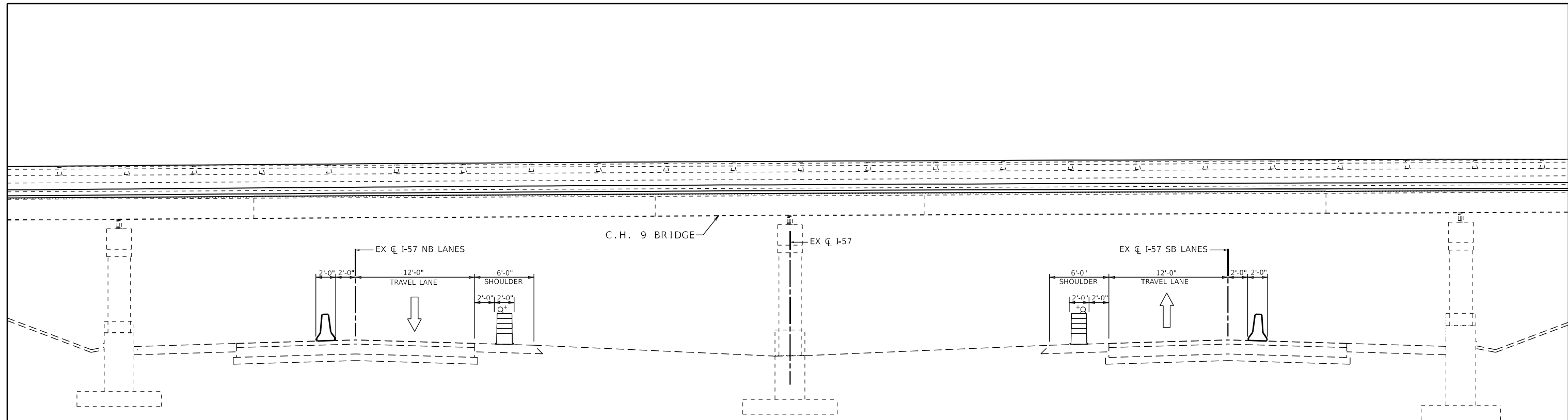
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC  
TYPICAL SECTIONS**

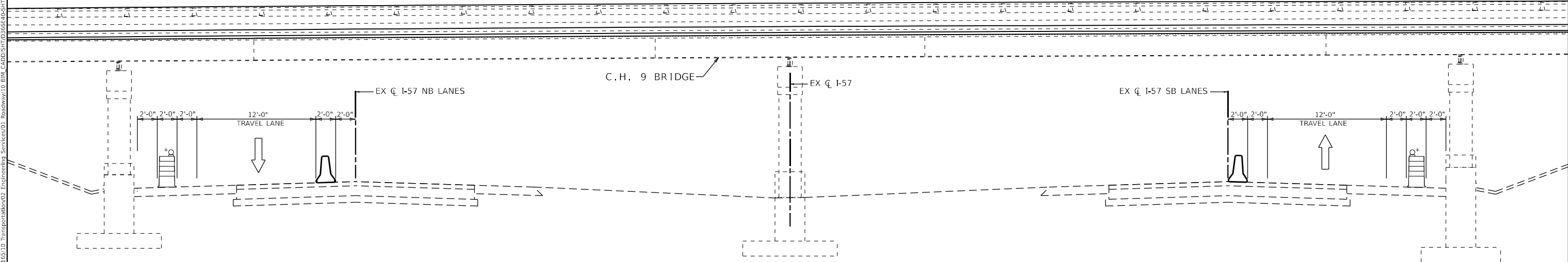
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-7HB-2)D	IROQUOIS	104	22
CONTRACT NO. 66E40			ILLINOIS FED. AID PROJECT	

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


**I-57 STAGE I CONSTRUCTION**  
 (LOOKING SOUTHBOUND)  
 NTS



**I-57 STAGE II CONSTRUCTION**  
 (LOOKING SOUTHBOUND)  
 NTS

**LEGEND**

-  TEMPORARY CONCRETE BARRIER
-  DIRECTION OF TRAFFIC
-  DRUM (SEE NOTE)

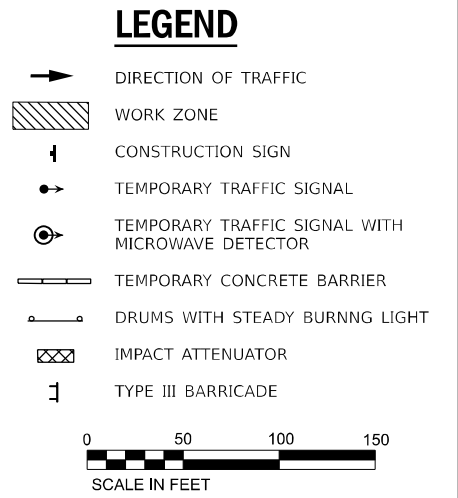
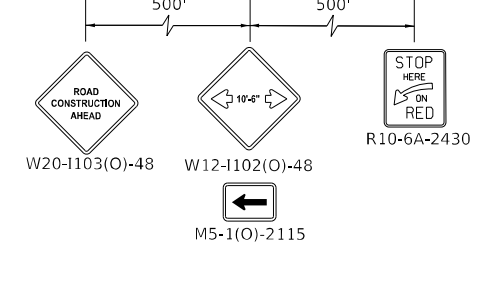
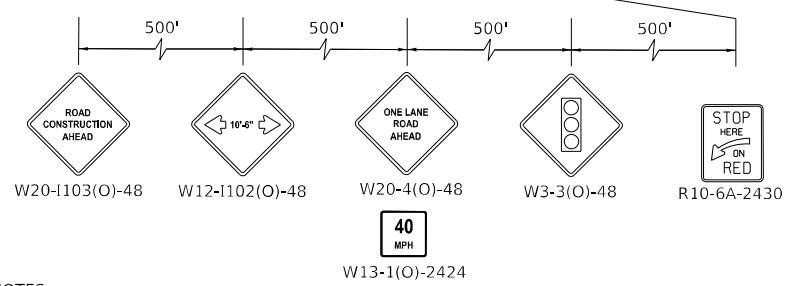
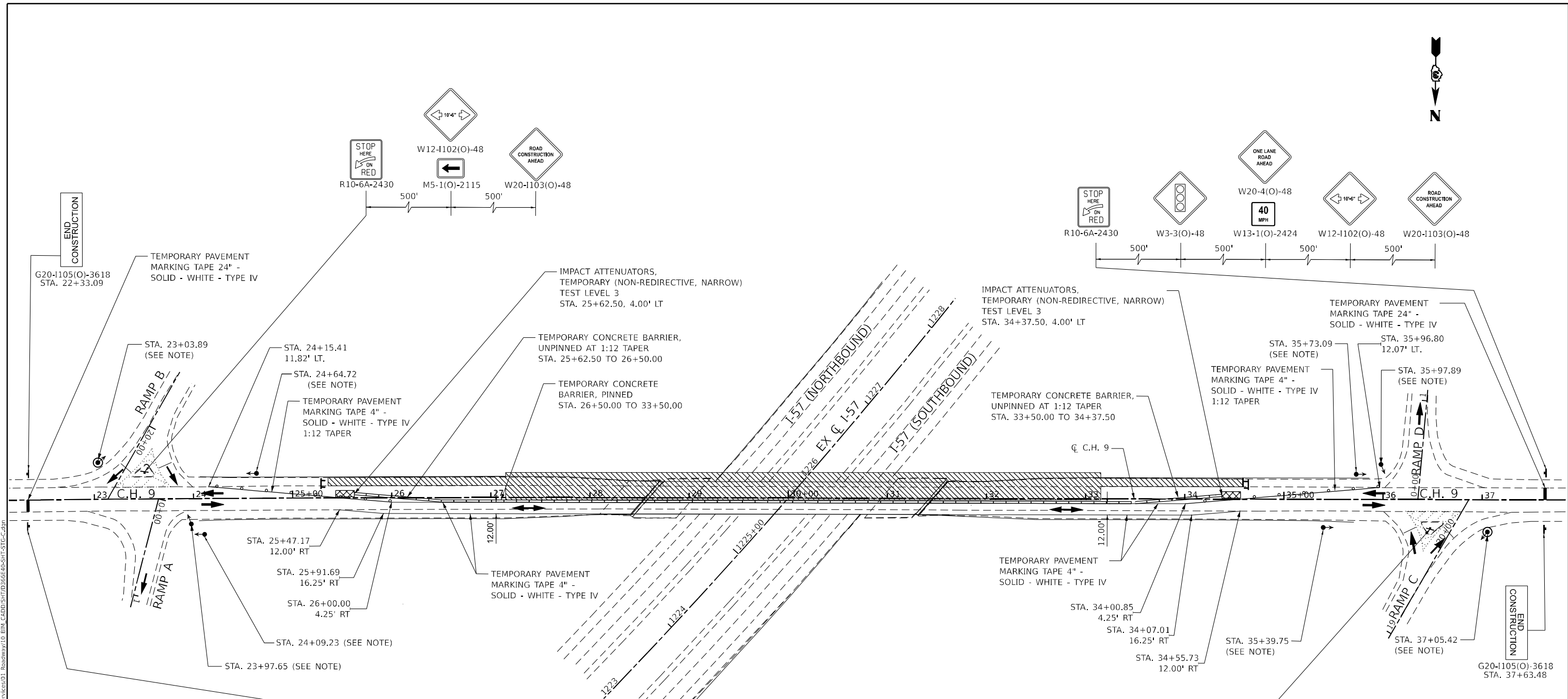
**NOTE:**  
 \* STEADY BURNING LIGHTS NOT NEEDED ON TANGENT SECTIONS.

USER NAME = CONNOLLYJG	DESIGNED - JJ	REVISED - _____
DRAWN - JJ	CHECKED - AAC	REVISED - _____
PLOT SCALE = 0.16666633 1 / in.	DATE - 10-13-23	REVISED - _____
PLOT DATE = 10/18/2023		

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>MAINTENANCE OF TRAFFIC TYPICAL SECTIONS</b>			
SCALE: N.T.S.	SHEET 23	OF 104 SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-7HB-2)D	IROQUOIS	104	23
CONTRACT NO. 66E40				
ILLINOIS FED. AID PROJECT				



- NOTES:**
- SEE HIGHWAY STANDARD 701321 AND SPECIAL PROVISIONS FOR TEMPORARY BRIDGE SIGNAL DETAILS. EXACT LOCATION AND LAYOUT OF TEMPORARY SIGNALS TO BE DETERMINED IN THE FIELD.
  - MICROWAVE DETECTORS SHALL BE INSTALLED 14 TO 18 FEET HIGH ON THE NEAR RIGHT POST FOR THE SIDE ROAD.
  - TEMPORARY INFORMATION SIGNING SHALL BE PLACED AT EACH END OF C.H. 9 FOR THE DURATION OF THE PROJECT. (SEE SHT 92 FOR TEMPORARY INFORMATION SIGN DETAIL)
  - ALL ORANGE CONSTRUCTION SIGNS SHALL BE BLACK ON FLUORESCENT ORANGE SHEETING.

USER NAME = CONNOLLYJG	DESIGNED - JJ	REVISED -
DRAWN - JJ	REVISIONS -	
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PLOT DATE = 10/17/2023	DATE - 10-13-23	REVISED -

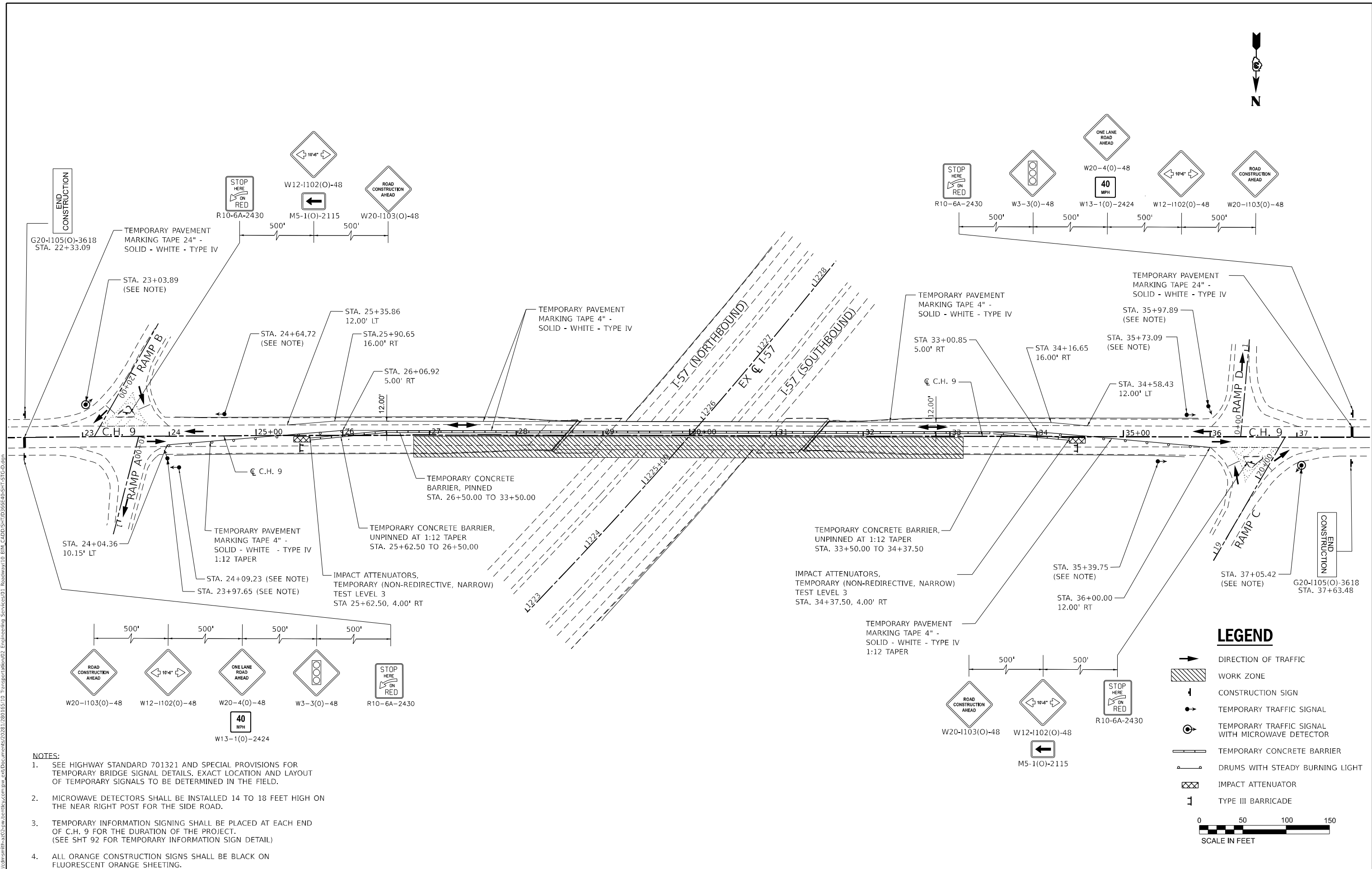
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC  
STAGE 1 - COUNTY HIGHWAY 9**

SCALE: 1"=50' SHEET 24 OF 104 SHEETS STA. XX+XX.XX TO STA. XX+XX.XX

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-7HB-2)D	IROQUOIS	104	24
CONTRACT NO. 66E40				
ILLINOIS FED. AID PROJECT				

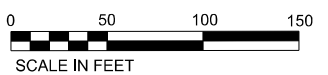
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- NOTES:**
- SEE HIGHWAY STANDARD 701321 AND SPECIAL PROVISIONS FOR TEMPORARY BRIDGE SIGNAL DETAILS. EXACT LOCATION AND LAYOUT OF TEMPORARY SIGNALS TO BE DETERMINED IN THE FIELD.
  - MICROWAVE DETECTORS SHALL BE INSTALLED 14 TO 18 FEET HIGH ON THE NEAR RIGHT POST FOR THE SIDE ROAD.
  - TEMPORARY INFORMATION SIGNING SHALL BE PLACED AT EACH END OF C.H. 9 FOR THE DURATION OF THE PROJECT. (SEE SHT 92 FOR TEMPORARY INFORMATION SIGN DETAIL)
  - ALL ORANGE CONSTRUCTION SIGNS SHALL BE BLACK ON FLUORESCENT ORANGE SHEETING.

**LEGEND**

- DIRECTION OF TRAFFIC
- WORK ZONE
- CONSTRUCTION SIGN
- TEMPORARY TRAFFIC SIGNAL
- TEMPORARY TRAFFIC SIGNAL WITH MICROWAVE DETECTOR
- TEMPORARY CONCRETE BARRIER
- DRUMS WITH STEADY BURNING LIGHT
- IMPACT ATTENUATOR
- TYPE III BARRICADE



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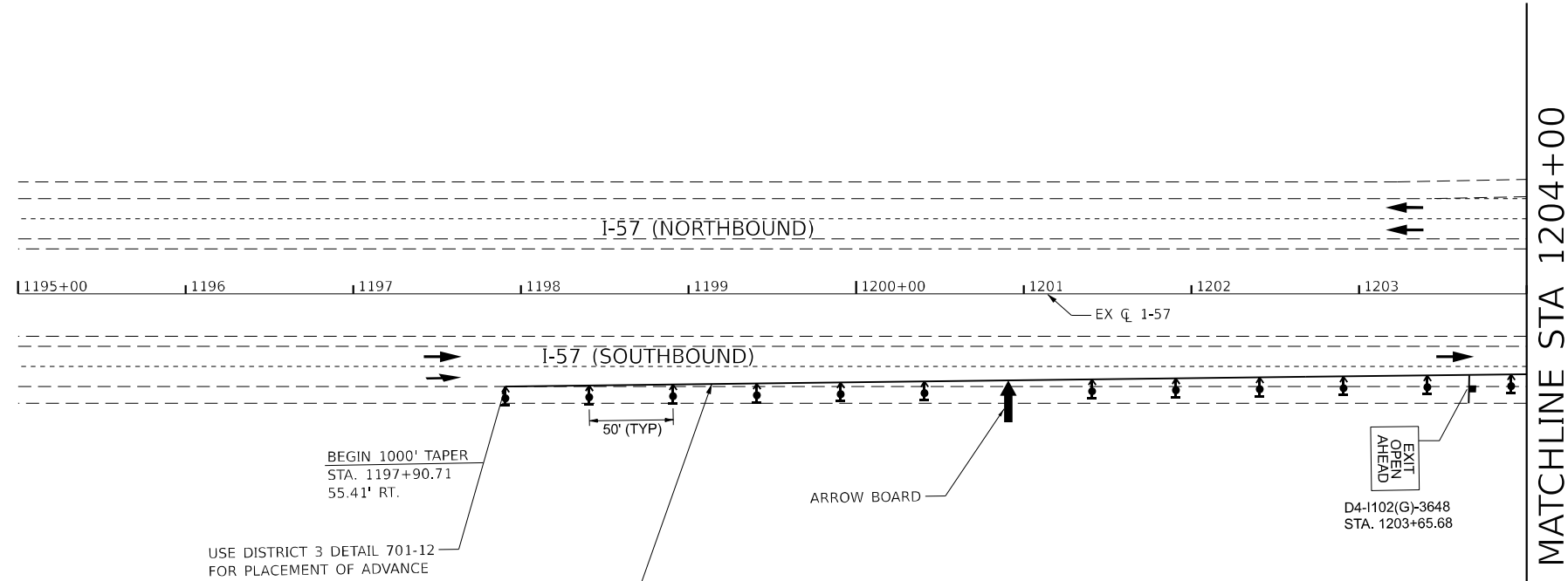
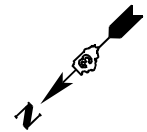
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DRAWN - JJ	REVISIONS - _____	
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PLOT DATE = 10/17/2023	DATE - 10-13-23	REVISIONS - _____

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

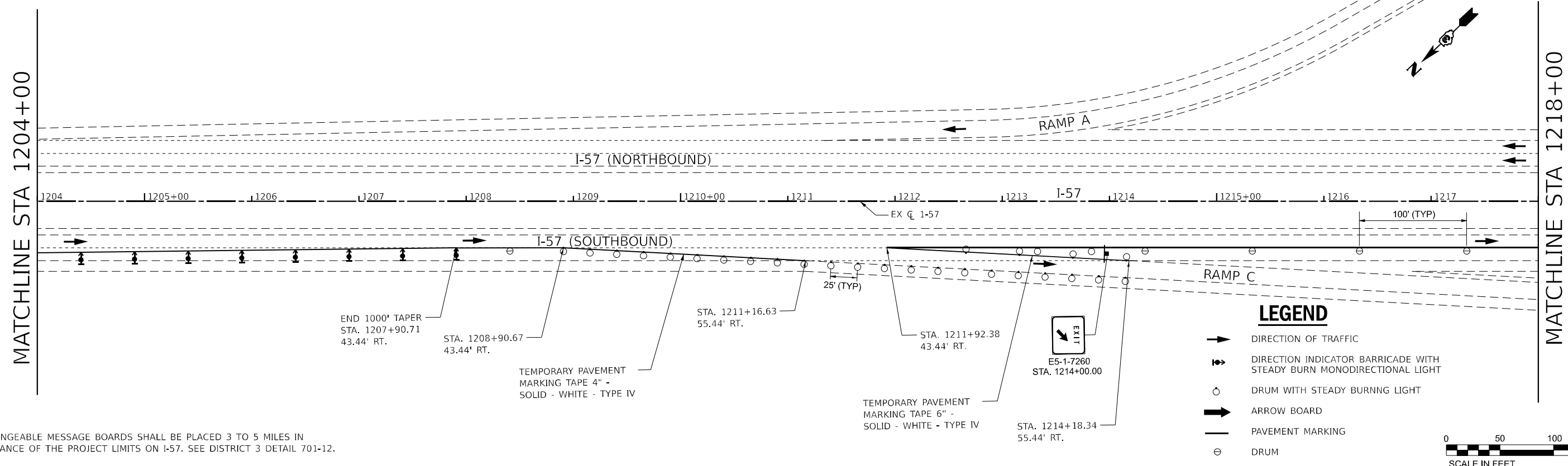
**MAINTENANCE OF TRAFFIC  
STAGE 2 - COUNTY HIGHWAY 9**

SCALE: 1"=50' SHEET 25 OF 104 SHEETS STA. XX+XX.XX TO STA. XX+XX.XX

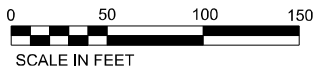
F.A.1 RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-7HB-2)D	IROQUOIS	104	25
CONTRACT NO. 66E40			ILLINOIS FED. AID PROJECT	



- LEGEND**
- DIRECTION OF TRAFFIC
  - DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
  - DRUMS WITH STEADY BURNING LIGHT
  - ARROW BOARD
  - PAVEMENT MARKING



- LEGEND**
- DIRECTION OF TRAFFIC
  - DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
  - DRUM WITH STEADY BURNING LIGHT
  - ARROW BOARD
  - PAVEMENT MARKING
  - DRUM



**NOTE:**

- CHANGEABLE MESSAGE BOARDS SHALL BE PLACED 3 TO 5 MILES IN ADVANCE OF THE PROJECT LIMITS ON I-57. SEE DISTRICT 3 DETAIL 701-12.

MODEL: I75\_SEC\_387 - STG\_Rhin\_C10 - 2 (Sheet)  
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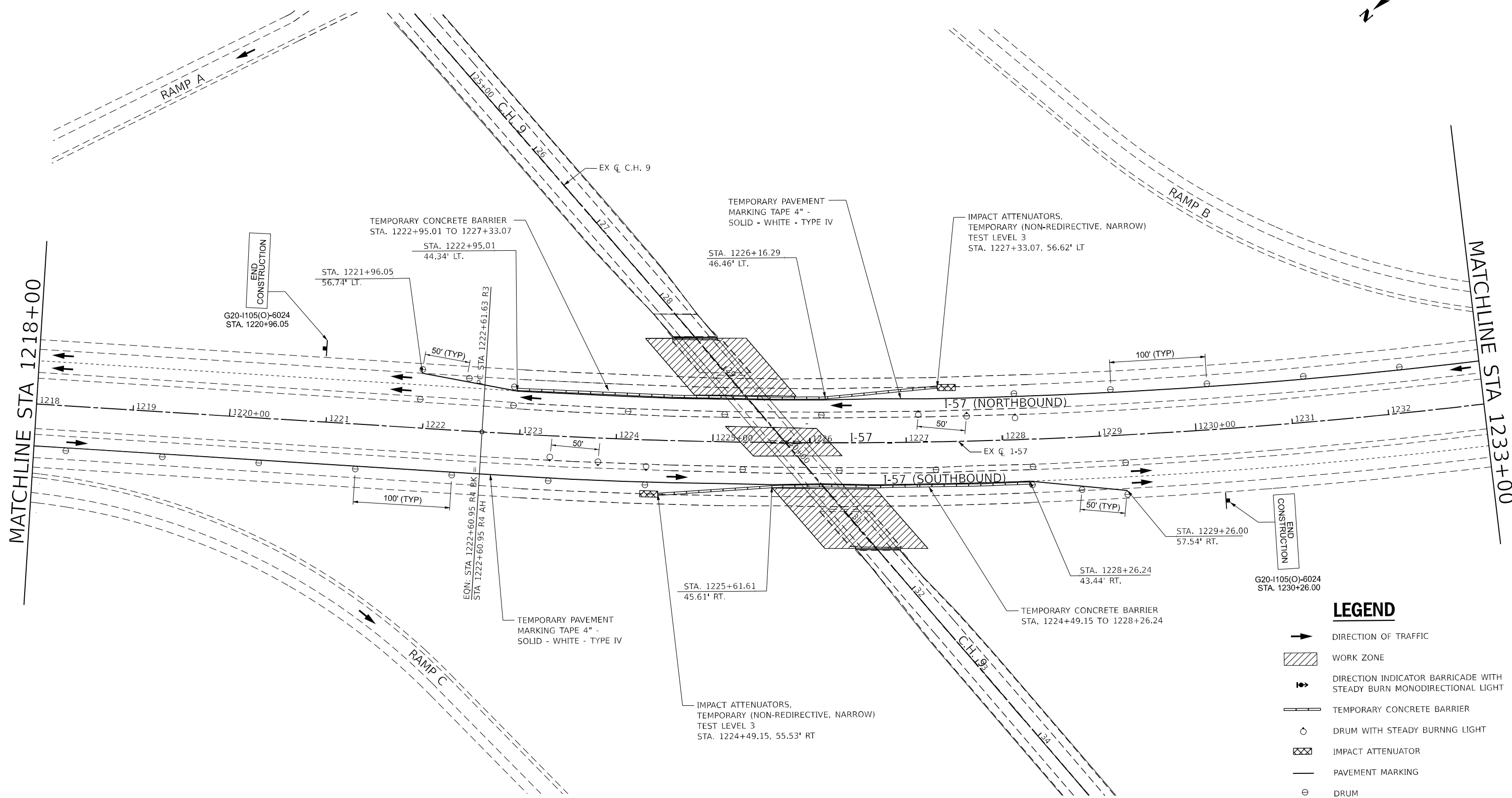
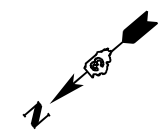
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DRAWN - JJ	REVISOR - _____	
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PLOT DATE = 10/17/2023	DATE - 10-13-23	REVISOR - _____

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>MAINTENANCE OF TRAFFIC STAGE 1 - I-57</b>			
SCALE: 1"=50'	SHEET 26	OF 104 SHEETS	STA. 1195+00.00 TO STA. 1218+00.00

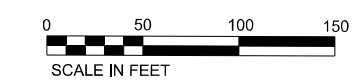
F.A.1 RTE. 57	SECTION (38-7HB-2)D	COUNTY IROQUOIS	TOTAL SHEETS 104	SHEET NO. 26
			CONTRACT NO. 66E40	
ILLINOIS FED. AID PROJECT				





**LEGEND**

- DIRECTION OF TRAFFIC
- WORK ZONE
- DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- TEMPORARY CONCRETE BARRIER
- DRUM WITH STEADY BURNING LIGHT
- IMPACT ATTENUATOR
- PAVEMENT MARKING
- DRUM



- NOTE:**
- CHANGEABLE MESSAGE BOARDS SHALL BE PLACED 3 TO 5 MILES IN ADVANCE OF THE PROJECT LIMITS ON I-57. SEE DISTRICT 3 DETAIL 701-12.

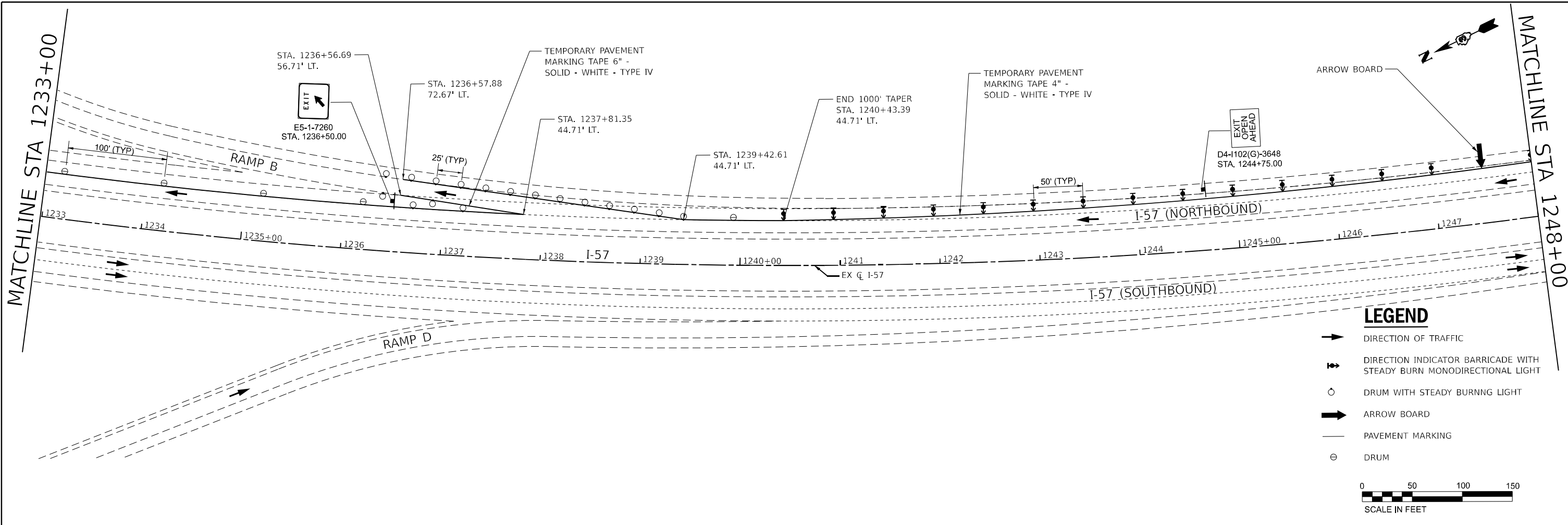
MODEL: I-57\_SEC\_3B7 - STG\_Rln\_C10 - 3 (Sheet)  
 FILE NAME: \\c:\p\m\h\p\2023\120115\10\_Transportation\02\_Engineering\_Services\01\_Roadway\10\_BIM\_CADD\57\7D36E40-SHT-57C-E.dgn

USER NAME = CONNOLLYJG	DESIGNED - JJ	REVISED - _____
DRAWN - JJ	REVISED - _____	
PLOT SCALE = 0.16666633 1 / in.	CHECKED - AAC	REVISED - _____
PLOT DATE = 10/17/2023	DATE - 10-13-23	REVISED - _____

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

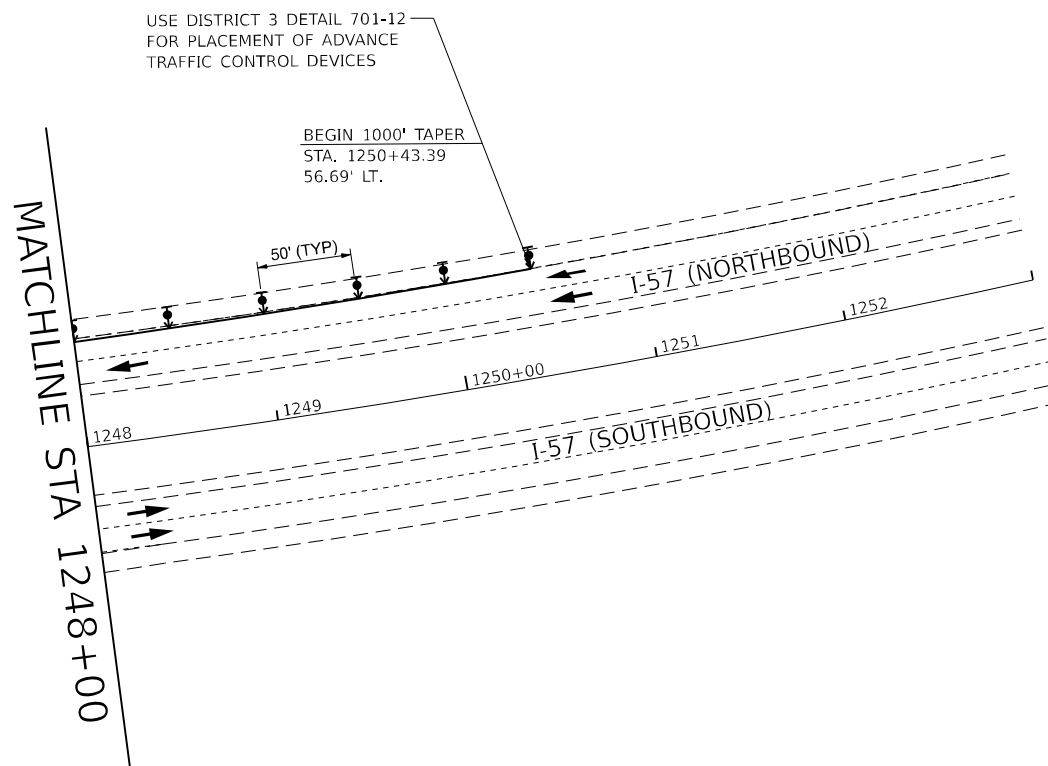
<b>MAINTENANCE OF TRAFFIC</b> <b>STAGE 1 - I-57</b>			
SCALE: 1"=50'	SHEET 27	OF 104 SHEETS	STA. 1218+00.00 TO STA. 1233+00.00

F.A.1 RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-7HB-2)D	IROQUOIS	104	27
CONTRACT NO. 66E40			ILLINOIS FED. AID PROJECT	



**LEGEND**

- ➔ DIRECTION OF TRAFFIC
- ➔➔ DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- DRUM WITH STEADY BURNING LIGHT
- ➔➔ ARROW BOARD
- PAVEMENT MARKING
- ⊖ DRUM



**LEGEND**

- ➔ DIRECTION OF TRAFFIC
- ➔➔ DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- DRUMS WITH STEADY BURNING LIGHT
- ➔➔ ARROW BOARD
- PAVEMENT MARKING



- NOTE:**
- CHANGEABLE MESSAGE BOARDS SHALL BE PLACED 3 TO 5 MILES IN ADVANCE OF THE PROJECT LIMITS ON I-57. SEE DISTRICT 3 DETAIL 701-12.

MODEL: I7\_SFC\_387 - STG\_Rln\_C10 - 4 (Sheet)  
 FILE NAME: \\c:\p\m\h\p\2023\1280165\10\_Transportation\02\_Engineering\_Services\01\_Roadway\10\_BIM\_CADD\57\1236E40-SHT-57C-E.dgn

USER NAME = CONNOLLYJG	DESIGNED - JJ	REVISED - _____
DRAWN - JJ	CHECKED - AAC	REVISED - _____
PLOT SCALE = 0.16666633 1 / in.	DATE - 10-13-23	REVISED - _____
PLOT DATE = 10/17/2023		

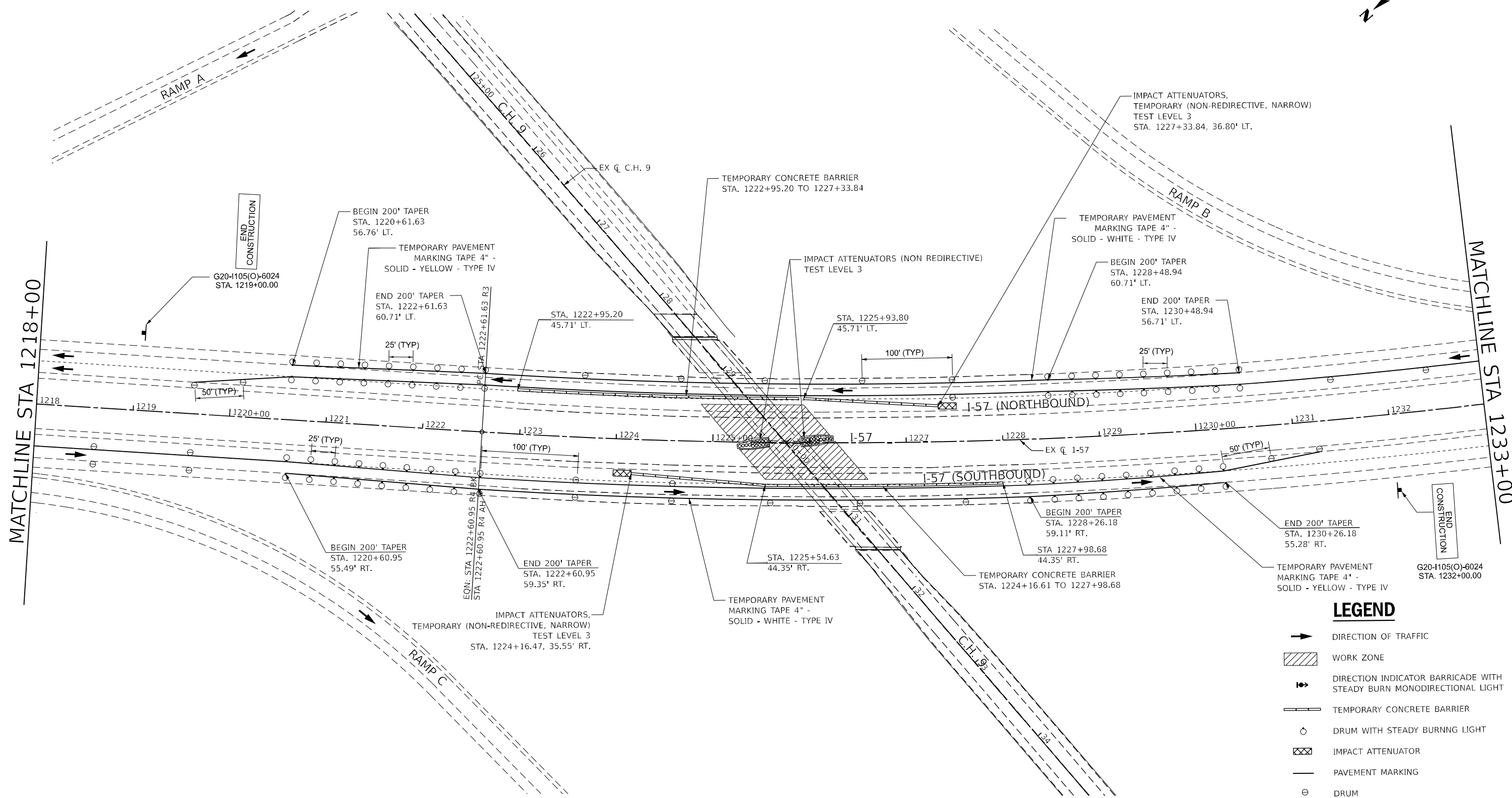
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC  
STAGE 1 - I-57**

SCALE: 1"=50' SHEET 28 OF 104 SHEETS STA. 1233+00.00 TO STA. 1253+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-7HB-2)D	IROQUOIS	104	28
CONTRACT NO. 66E40			ILLINOIS FED. AID PROJECT	





MATCHLINE STA 1218+00

MATCHLINE STA 1233+00

MODEL I-57\_SEC\_3B-7 - STG\_Rln\_C10 - 3 (Sheet)  
FILE NAME: \\c:\p\m\h\p\2023\120115\10\_Transportation\02\_Engineering\_Services\01\_Roadway\10\_BIM\_CADD\57\I-57\3B-7-1-57.dgn

- NOTE:**
- CHANGEABLE MESSAGE BOARDS SHALL BE PLACED 3 TO 5 MILES IN ADVANCE OF THE PROJECT LIMITS ON I-57. SEE DISTRICT 3 DETAIL 701-12.

**LEGEND**

- DIRECTION OF TRAFFIC
- WORK ZONE
- DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- TEMPORARY CONCRETE BARRIER
- DRUM WITH STEADY BURNING LIGHT
- IMPACT ATTENUATOR
- PAVEMENT MARKING
- DRUM

0 50 100 150  
SCALE IN FEET

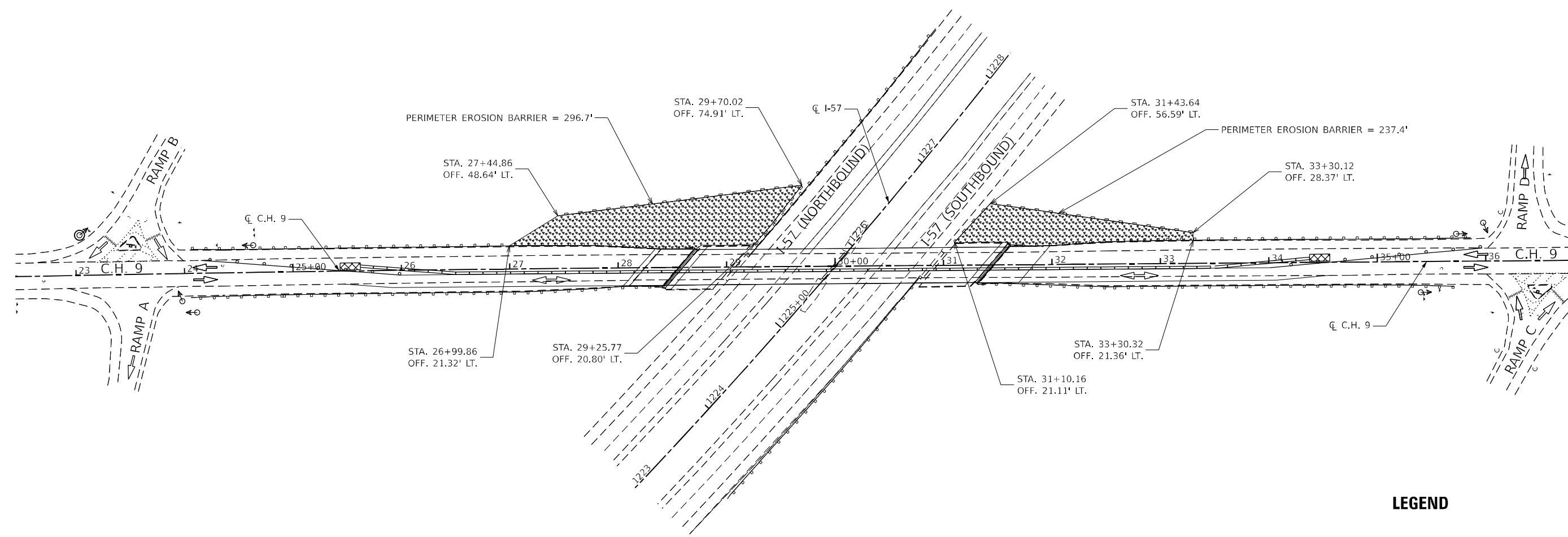
USER NAME = CONNOLLYJG	DESIGNED - JJ	REVISED -
DRAWN - JJ	REVISOR -	
PLOT SCALE = 0.16666633 1 / in.	CHECKED - AAC	REVISOR -
PLOT DATE = 10/18/2023	DATE - 10-13-23	REVISOR -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>MAINTENANCE OF TRAFFIC STAGE 2 - I-57</b>			
SCALE: 1"=50'	SHEET 30	OF 104 SHEETS	STA. 1218+00.00 TO STA. 1233+00.00

F.A.1 RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-7HB-2)D	IROQUOIS	104	30
CONTRACT NO. 66E40			ILLINOIS FED. AID PROJECT	





**LEGEND**

- SEEDING CLASS 2A  
FERTILIZER NUTRIENTS  
AND EROSION CONTROL BLANKET
- PERIMETER EROSION BARRIER

MODEL: Erosion\_1 (Sheet)  
 FILE NAME: \\csm\m\h-s02-pw\cently.com\pw\_ext\Documents\203817280165\10\_Transportation\02\_Engineering\_Services\01\_Roadway\10\_BIM\_CADD\57\7D36E40-SHT-ES1.dgn

USER NAME = CONNOLLYJG	DESIGNED - JGC	REVISED - _____
	DRAWN - JGC	REVISED - _____
PLOT SCALE = 99.99980000 ' / in.	CHECKED - AAC	REVISED - _____
PLOT DATE = 10/17/2023	DATE - 10-13-23	REVISED - _____

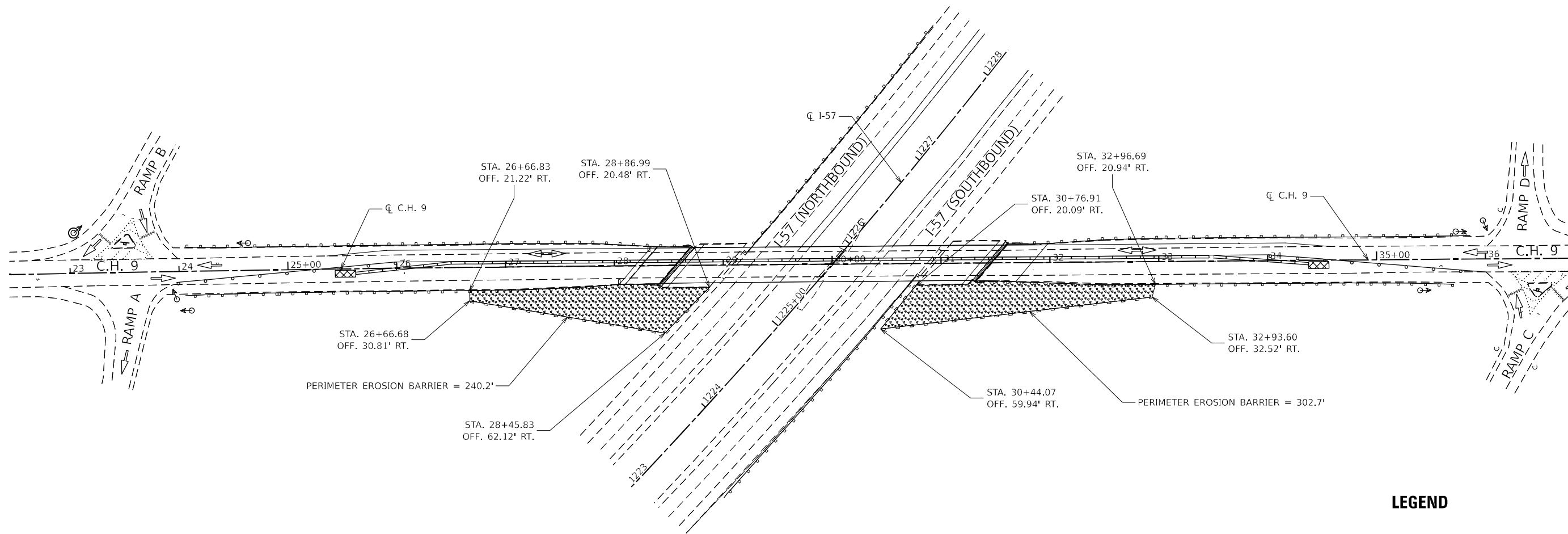
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**EROSION AND SEDIMENT CONTROL PLANS**  
**STAGE 1**

SCALE: 1"=50'    SHEET 32    OF    104    SHEETS    STA. 22+44.15    TO    STA. 36+76.11

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-7HB-2)D	IROQUOIS	104	32
CONTRACT NO. 66E40				

ILLINOIS FED. AID PROJECT



**LEGEND**

- SEEDING CLASS 2A FERTILIZER NUTRIENTS AND EROSION CONTROL BLANKET
- PERIMETER EROSION BARRIER

MODEL: Erosion 2 (Sheet)  
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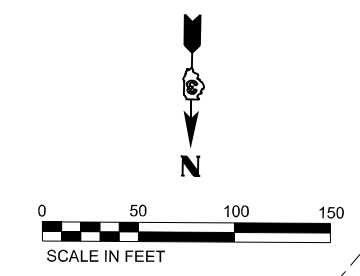
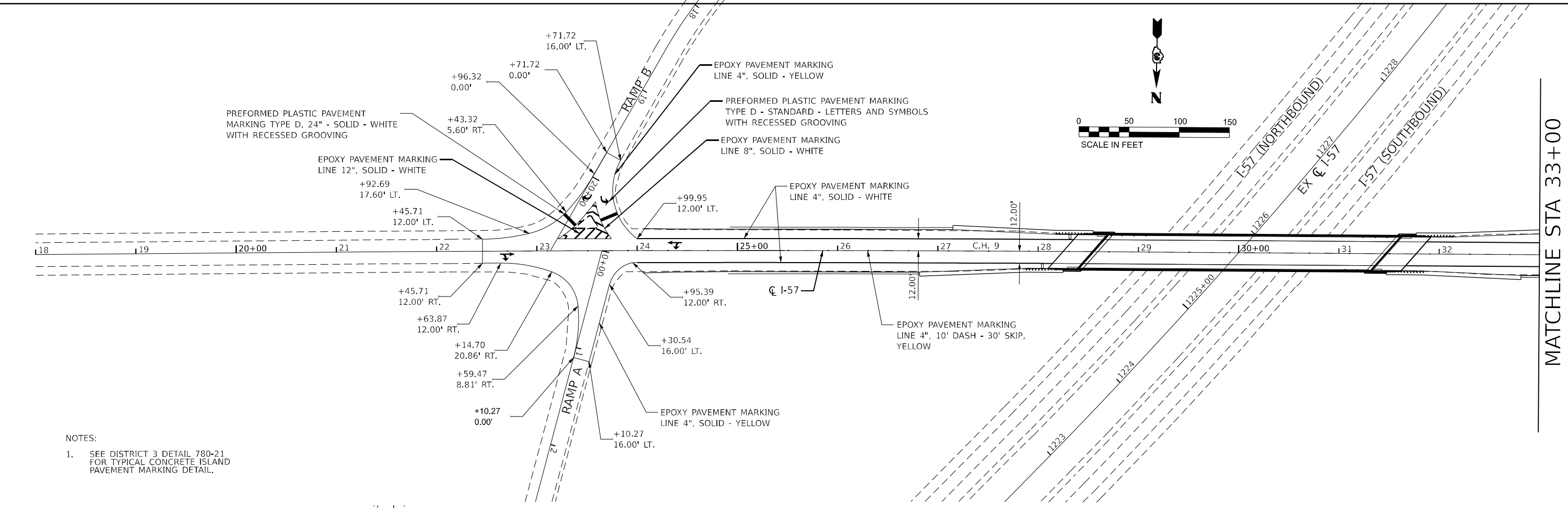
USER NAME = CONNOLLYJG	DESIGNED - JGC	REVISED - _____
	DRAWN - JGC	REVISED - _____
PLOT SCALE = 99.99980000 ' / in.	CHECKED - AAC	REVISED - _____
PLOT DATE = 10/17/2023	DATE - 10-13-23	REVISED - _____

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

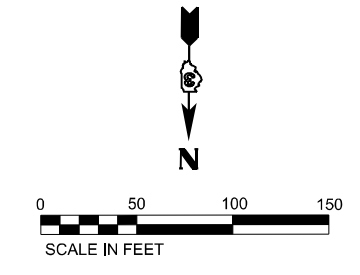
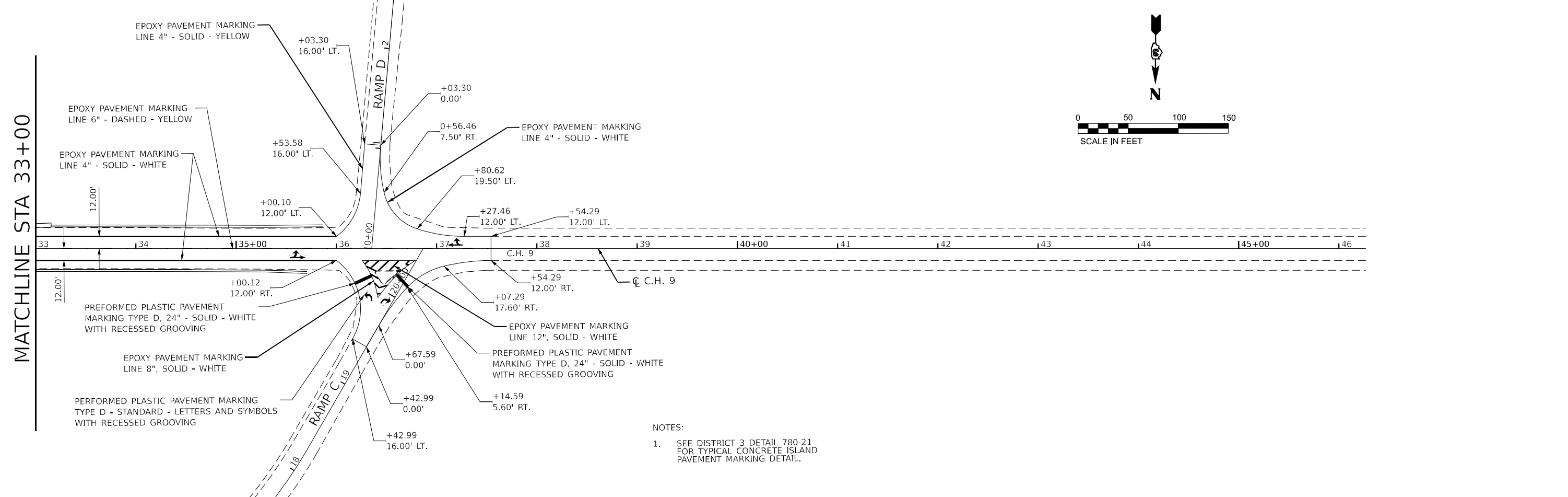
<b>EROSION AND SEDIMENT CONTROL PLANS</b>			
<b>STAGE 2</b>			
SCALE: 1"=50'	SHEET 33	OF 104 SHEETS	STA. 22+44.15 TO STA. 36+76.11

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-7HB-2)D	IROQUOIS	104	33
			CONTRACT NO. 66E40	
ILLINOIS FED. AID PROJECT				

MODEL: I:\PROJECTS\CAD\PLAN\PLAN (Sheet)  
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 PROJECT: I:\PROJECTS\CAD\PLAN\PLAN.dwg  
 USER: JJ  
 DATE: 10/18/2023



NOTES:  
 1. SEE DISTRICT 3 DETAIL 780-21 FOR TYPICAL CONCRETE ISLAND PAVEMENT MARKING DETAIL.



NOTES:  
 1. SEE DISTRICT 3 DETAIL 780-21 FOR TYPICAL CONCRETE ISLAND PAVEMENT MARKING DETAIL.

MATCHLINE STA 33+00

MATCHLINE STA 33+00

USER NAME = CONNOLLYJG	DESIGNED - JJ	REVISED - _____
DRAWN - JJ	REVISOR - _____	
PLOT SCALE = 0.16666633 1 / in.	CHECKED - AAC	REVISOR - _____
PLOT DATE = 10/18/2023	DATE - 10-13-23	REVISOR - _____

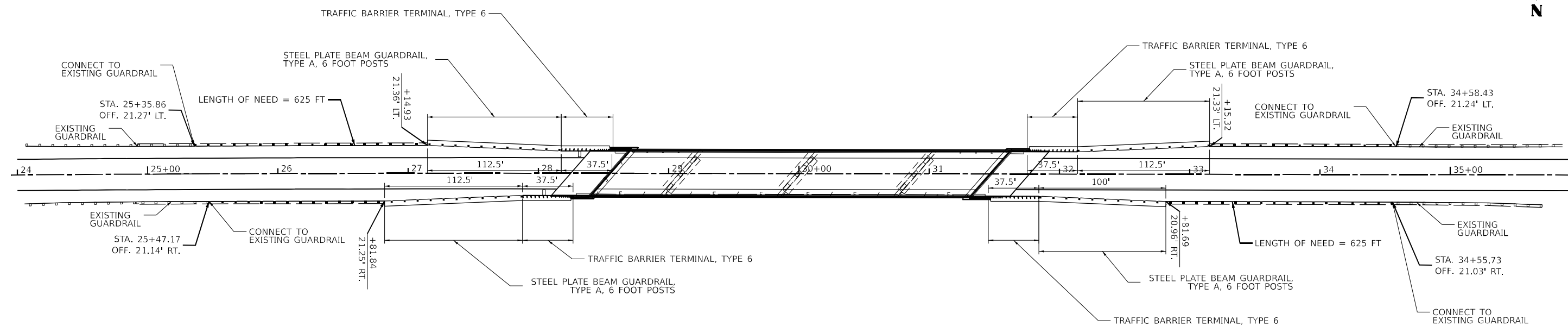
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN**

SCALE: 1"=50'    SHEET 34 OF 104 SHEETS    STA. 22+45.71 TO STA. 37+54.29

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-7HB-2)D	IROQUOIS	104	34
CONTRACT NO. 66E40				
ILLINOIS FED. AID PROJECT				





MODEL: I:\B\B\B\C\1\_0\_01.dwg, 1 (Sheet)  
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 MODEL: I:\B\B\B\C\1\_0\_01.dwg, 1 (Sheet)  
 FILE: I:\B\B\B\C\1\_0\_01.dwg, 1 (Sheet)

USER NAME = CONNOLLYJG	DESIGNED - JJ	REVISED - _____
DRAWN - JJ	CHECKED - AAC	REVISED - _____
PLOT SCALE = 0.16666633 1 / in.	DATE - 10-13-23	REVISED - _____
PLOT DATE = 10/18/2023		

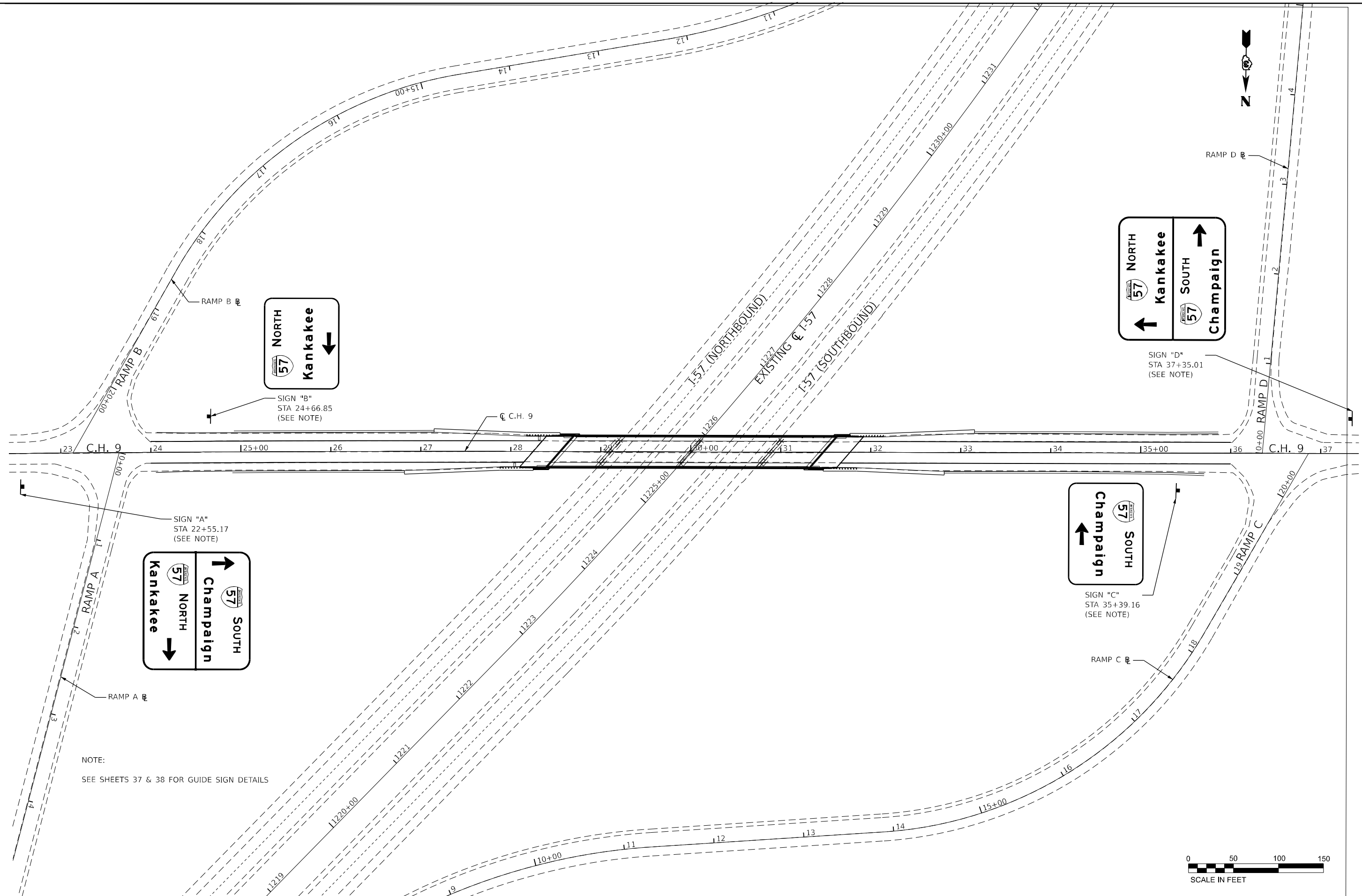
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GUARDRAIL PLAN**

SCALE: 1"=50'    SHEET 35    OF 104 SHEETS    STA. XX+XX.XX    TO STA. XX+XX.XX

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-7HB-2)D	IROQUOIS	104	35
CONTRACT NO. 66E40			ILLINOIS FED. AID PROJECT	

MODEL: I:\PROJECTS\C11\_9 - SIGNING PLAN  
 FILE NAME: \\g:\comm\h3\302\project\signing\comp\pw\_ext\Documents\2023\17280165\10 - Transportation\02 - Engineering Services\01 - Roadway\10 - BIM\_CADD\57\7D\36E40-SHT-36.dgn



NOTE:  
 SEE SHEETS 37 & 38 FOR GUIDE SIGN DETAILS

USER NAME =	CONNOLLYJG
DESIGNED -	JJ
DRAWN -	JJ
PLOT SCALE =	0.16666633 1 / in.
CHECKED -	AAC
DATE -	10-13-23
PLOT DATE =	10/17/2023

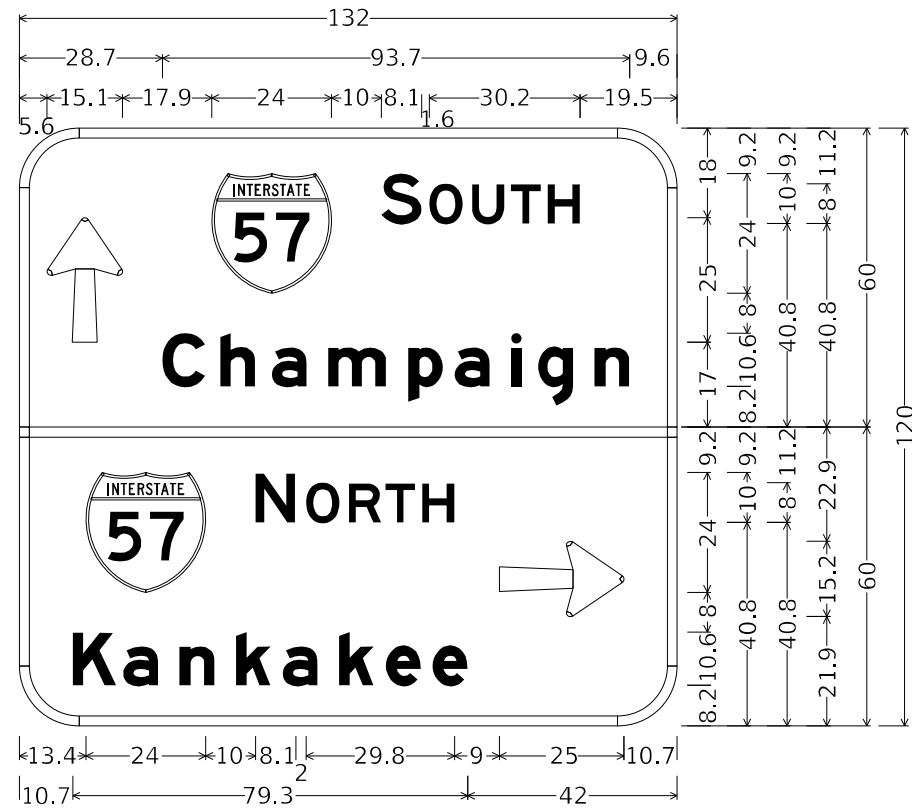
REVISD -	
REVISD -	
REVISD -	
REVISD -	

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SIGNAGE PLAN**

SCALE: 1"=50' SHEET 36 OF 104 SHEETS STA. 22+55.17 TO STA. 37+35.01

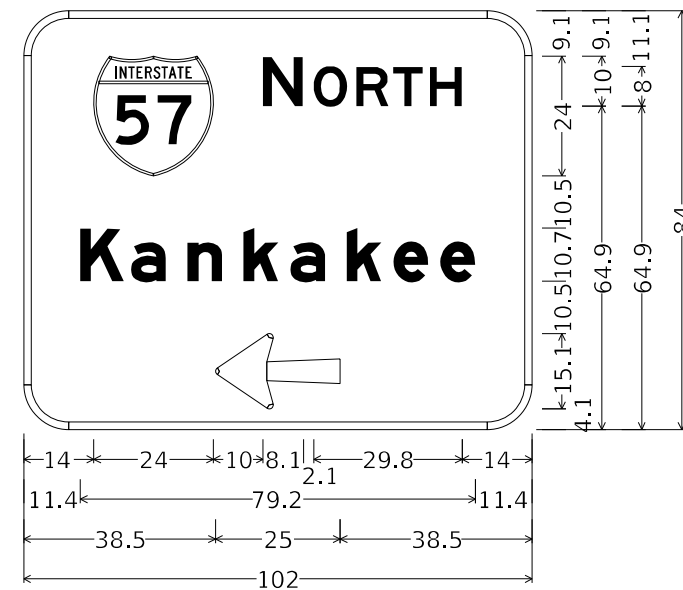
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-7HB-2)D	IROQUOIS	104	36
CONTRACT NO. 66E40			ILLINOIS FED. AID PROJECT	



12.0" Radius, 2.0" Border, White on, Green;  
 Arrow 80 - 25.0" 90'; "SOUTH", E 2K;  
 "Champaign", E Mod 2K;  
 12.0" Radius, 2.0" Border, White on, Green;  
 "NORTH", E 2K; "Kankakee", E Mod 2K;  
 Arrow 80 - 25.0" 0';  
 Table of letter and object lefts

↑	57	S	O	U	T	H			
5.6	38.6	72.6	82.3	90.8	98.7	106.0			
C	h	a	m	p	a	i	g	n	
28.7	40.3	50.7	62.0	78.0	87.3	98.7	104.1	115.4	
57	N	O	R	T	H	⇒			
13.4	47.4	57.5	66.1	73.5	80.8	96.3			
K	a	n	k	a	k	e	e		
10.7	20.8	32.1	43.5	52.8	64.1	73.5	82.9		

**SIGN "A"**



9.0" Radius, 1.5" Border, White on, Green;  
 "NORTH", E 2K; "Kankakee", E Mod 2K;  
 Arrow 80 - 25.0" 180';  
 Table of letter and object lefts

57	N	O	R	T	H		
14.0	48.0	58.2	66.8	74.1	81.5		
K	a	n	k	a	k	e	e
11.4	21.5	32.8	44.1	53.5	64.8	74.2	83.6
←							
38.5							

**SIGN "B"**

MODEL: Typical (Sheet)  
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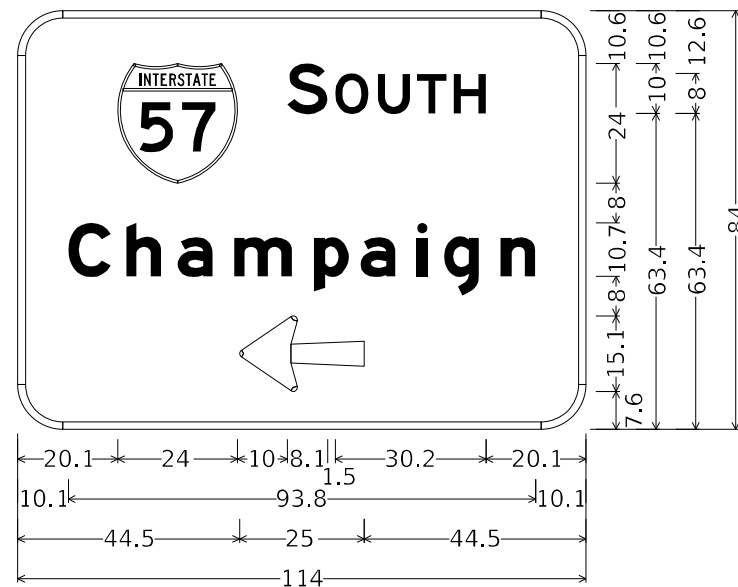
USER NAME = CONNOLLYG	DESIGNED - JJ	REVISED -
DRAWN - JJ	CHECKED - AAC	REVISED -
PLOT SCALE = 0.16666633 1 / in.	DATE - 10-13-23	REVISED -
PLOT DATE = 10/17/2023		

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

SIGNING DETAILS			
SCALE: N.T.S.	SHEET 37	OF 104 SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-7HB-2)D	IROQUOIS	104	37
CONTRACT NO. 66E40				
ILLINOIS FED. AID PROJECT				

MODEL: T:\p1\c1\1\Sheet1  
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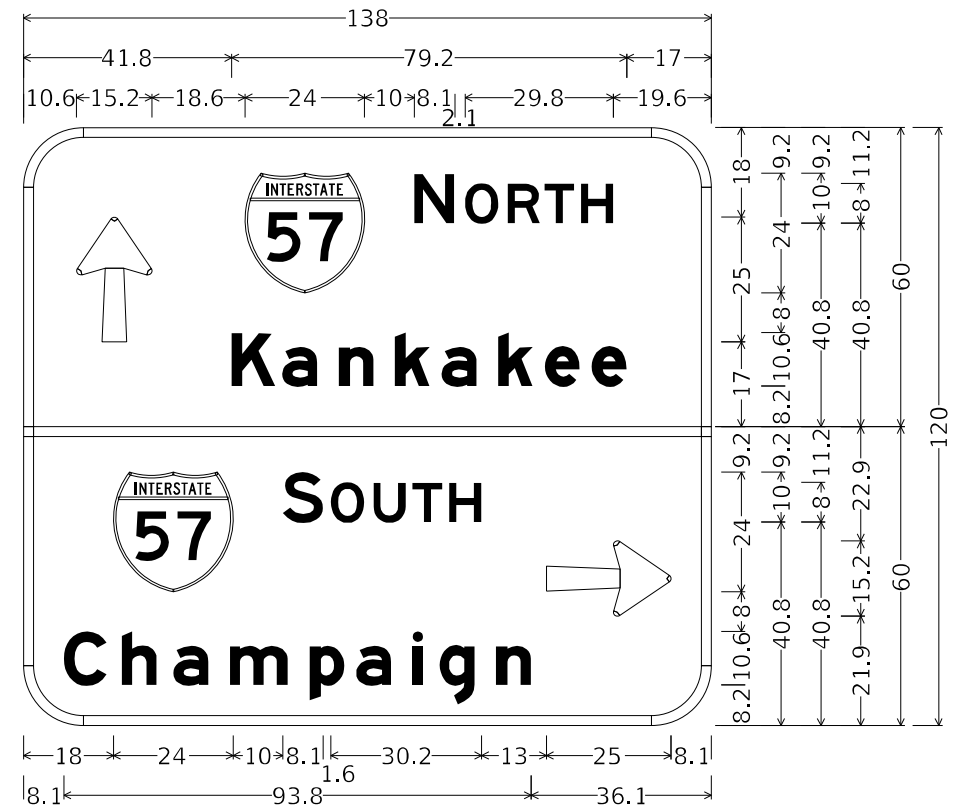


9.0" Radius, 1.5" Border, White on, Green;  
 "SOUTH", E 2K; "Champaign", E Mod 2K;  
 Arrow 80 - 25.0" 180°;

Table of letter and object lefts

57	S	O	U	T	H			
20.1	54.1	63.7	72.3	80.1	87.5			
C	h	a	m	p	a	i	g	n
10.1	21.7	32.1	43.4	59.4	68.8	80.1	85.5	96.8
←	44.5							

**SIGN "C"**



12.0" Radius, 2.0" Border, White on, Green;  
 Arrow 80 - 25.0" 90°; "NORTH", E 2K;  
 "Kankakee", E Mod 2K;

12.0" Radius, 2.0" Border, White on, Green;  
 "SOUTH", E 2K; "Champaign", E Mod 2K;  
 Arrow 80 - 25.0" 0°;

Table of letter and object lefts

↑	57	N	O	R	T	H		
10.6	44.4	78.4	88.6	97.2	104.5	111.9		
K	a	n	k	a	k	e	e	
41.8	51.9	63.2	74.5	83.9	95.2	104.6	114.0	
57	S	O	U	T	H	⇒		
18.0	52.0	61.7	70.2	78.1	85.4	104.9		
C	h	a	m	p	a	i	g	n
8.1	19.7	30.1	41.4	57.4	66.8	78.1	83.5	94.8

**SIGN "D"**

USER NAME = CONNOLLYJG	DESIGNED - JJ	REVISED -
	DRAWN - JJ	REVISED -
PLOT SCALE = 0.16666633 1 / in.	CHECKED - AAC	REVISED -
PLOT DATE = 10/17/2023	DATE - 10-13-23	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SIGNING DETAILS**

SCALE: N.T.S. SHEET 38 OF 104 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-7HB-2)D	IROQUOIS	104	38
CONTRACT NO. 66E40				
ILLINOIS FED. AID PROJECT				



**LIGHTING GENERAL NOTES**

- CONDUIT DUCTS SHALL BE INSTALLED AT A MINIMUM 30" DEPTH BELOW GRADE AND POSITIONED IN THE FIELD TO AVOID CONFLICT WITH ROADWAY UNDERDRAINS AND OTHER EXISTING AND PROPOSED UTILITIES. THE CONTRACTOR SHALL INCREASE DEPTH OF UNIT DUCT AND CONDUIT AS REQUIRED AT NO ADDITIONAL COST. THE CONTRACTOR SHALL COORDINATE RACEWAY DEPTH WITH THE ELECTRICAL DETAILS AND THE ENGINEER.
- WHERE THE CONTRACTOR'S EXCAVATION MEETS AN OBSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR DIRECTION IN WRITING PRIOR TO EXCAVATION. IF DAMAGE OCCURS, THE CONTRACTOR SHALL RESTORE THE DAMAGE TO EXISTING SYSTEMS OR UTILITIES AND REMOVE EXISTING OBSTRUCTIONS AND FOUNDATIONS TO THE SATISFACTION OF THE ENGINEER. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE COST OF THE APPROPRIATE PAY ITEM.
- ALL UTILITIES SHALL BE LOCATED IN THE FIELD PRIOR TO ANY ATTEMPT TO CONSTRUCT ANY COMPONENT OF THE LIGHTING SYSTEMS.
- STATE OF ILLINOIS REQUIRES A 48 HOUR NOTICE BE GIVEN TO UTILITIES BEFORE DIGGING FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING JOINT UTILITY LOCATING INFORMATION (J.U.L.I.E) OR FOR NON-MEMBERS, THE UTILITY COMPANY DIRECTLY. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:

AMEREN ILLINOIS  
FRONTIER COMMUNICATIONS  
STATE OF ILLINOIS

**LIGHTING HIGHWAY STANDARDS**

- 805001-01 ELECTRICAL SERVICE INSTALLATION DETAILS (TYPE A)
- 821101-02 LUMINAIRE WIRING IN POLE
- 825011-04 LIGHTING CONTROLLER PEDESTAL MOUNTED, 240V
- 830001-03 LIGHT POLE ALUMINUM MAST ARM
- 836001-04 LIGHT POLE FOUNDATION
- 838001-01 BREAKAWAY DEVICES

**LIGHTING SCHEDULE OF QUANTITIES**

LOCATION/ LIGHT POLE NUMBER	STATION	OFFSET	SIDE	SERV INSTALL TYA	LUM LED RDWYH	HANDHO LE PCC	LT CONT PEDM 240V 60	LT P A 45MH 10MA	LIGHT POLE FDN 30D	BKWY DEV COU AL SKIRT
90		FT		EACH	EACH	EACH	EACH	EACH	FOOT	EACH
COUNTY HIGHWAY 9 / E 800 NORTH RD										
	18+68.88	156.9	RIGHT	1						
13	18+90.00	42.0	LEFT		1			1	6.5	4
CONTROLLER	18+94.93	137.2	RIGHT				1			
12	21+40.00	42.0	LEFT		1			1	6.5	4
	22+45.27	31.8	RIGHT			1				
	22+70.37	40.2	LEFT			1				
11	22+95.00	50.0	LEFT		2			1	6.5	4
10	26+15.00	30.0	LEFT		1			1	6.5	4
9	28+40.00	25.0	LEFT		1			1	6.5	4
8	31+50.00	25.0	RIGHT		1			1	6.5	4
7	33+80.00	30.0	RIGHT		1			1	6.5	4
4	36+95.00	50.0	RIGHT		2			1	6.5	4
5	38+60.00	42.0	RIGHT		1			1	6.5	4
6	41+10.00	42.0	RIGHT		1			1	6.5	4
RAMP A										
17	06+90.00	25.0	RIGHT		1			1	6.5	4
18	08+90.00	25.0	RIGHT		1			1	6.5	4
19	10+90.00	25.0	RIGHT		1			1	6.5	4
RAMP B										
16	02+80.00	35.0	RIGHT		1			1	6.5	4
15	05+30.00	30.0	RIGHT		1			1	6.5	4
14	07+80.00	25.0	RIGHT		1			1	6.5	4
RAMP C										
1	02+80.00	35.0	RIGHT		1			1	6.5	4
2	05+30.00	30.0	RIGHT		1			1	6.5	4
3	07+80.00	25.0	RIGHT		1			1	6.5	4
	19+90.38	26.1	RIGHT			1				
RAMP D										
22	09+95.00	25.0	RIGHT		1			1	6.5	4
21	07+95.00	25.0	RIGHT		1			1	6.5	4
20	05+95.00	25.0	RIGHT		1			1	6.5	4
TOTAL										
				1	24	3	1	22	143	88

**LIGHTING SCHEDULE OF QUANTITIES**

FROM STA	TO STA	SIDE	UNDRGRD C GALVS 2	CON AT ST 2 GALVS	EC C XLP USE 1C 8	EC C XLP USE 1C 6	UD2#6#8G XLP USE 1.25P
			FCOT	FOOT	FOOT	FOOT	FOOT
COUNTY HIGHWAY 9 / E 800 NORTH RD							
18+90.00	21+40.00	LEFT					250
18+94.93	22+45.27	RIGHT					355
18+94.93	31+50.00	RIGHT	976	300	1300	2600	
21+40.00	22+95.00	LEFT					156
22+46.00	26+15.00	LEFT	40		40	80	358
22+46.00			52		52	104	
26+15.00	28+48.15	LEFT					234
31+50.00	33+80.00	RIGHT					221
33+80.00	36+95.00	RIGHT	41		41	82	302
36+95.00	38+60.00	RIGHT					167
36+95.00	37+36.27	RIGHT					48
37+36.27			51		51	102	
38+60.00	41+10.00	RIGHT					250
RAMP A							
00+60.98	06+90.00	RIGHT					677
06+90.00	08+90.00	RIGHT					192
08+90.00	10+90.00	RIGHT					198
RAMP B							
02+80.00	05+30.00	RIGHT					248
05+30.00	07+80.00	RIGHT					243
07+80.00	20+51.24	RIGHT					1282
RAMP C							
02+80.00	05+30.00	RIGHT					250
05+30.00	07+80.00	RIGHT					246
07+80.00	20+17.10	RIGHT					1252
RAMP D							
0+32.74	05+95.00	RIGHT					604
05+95.00	07+95.00	RIGHT					197
07+95.00	09+95.00	RIGHT					192
TOTAL			1160	300	1484	2968	7922

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
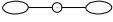



**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

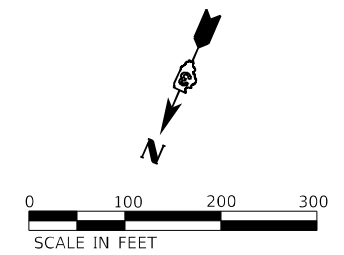
**LIGHTING GENERAL NOTES, HIGHWAY STANDARDS  
& SCHEDULE OF QUANTITIES**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.1 RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-7HB-2)D	IROQUOIS		
CONTRACT NO. 66E40				
ILLINOIS FED. AID PROJECT				

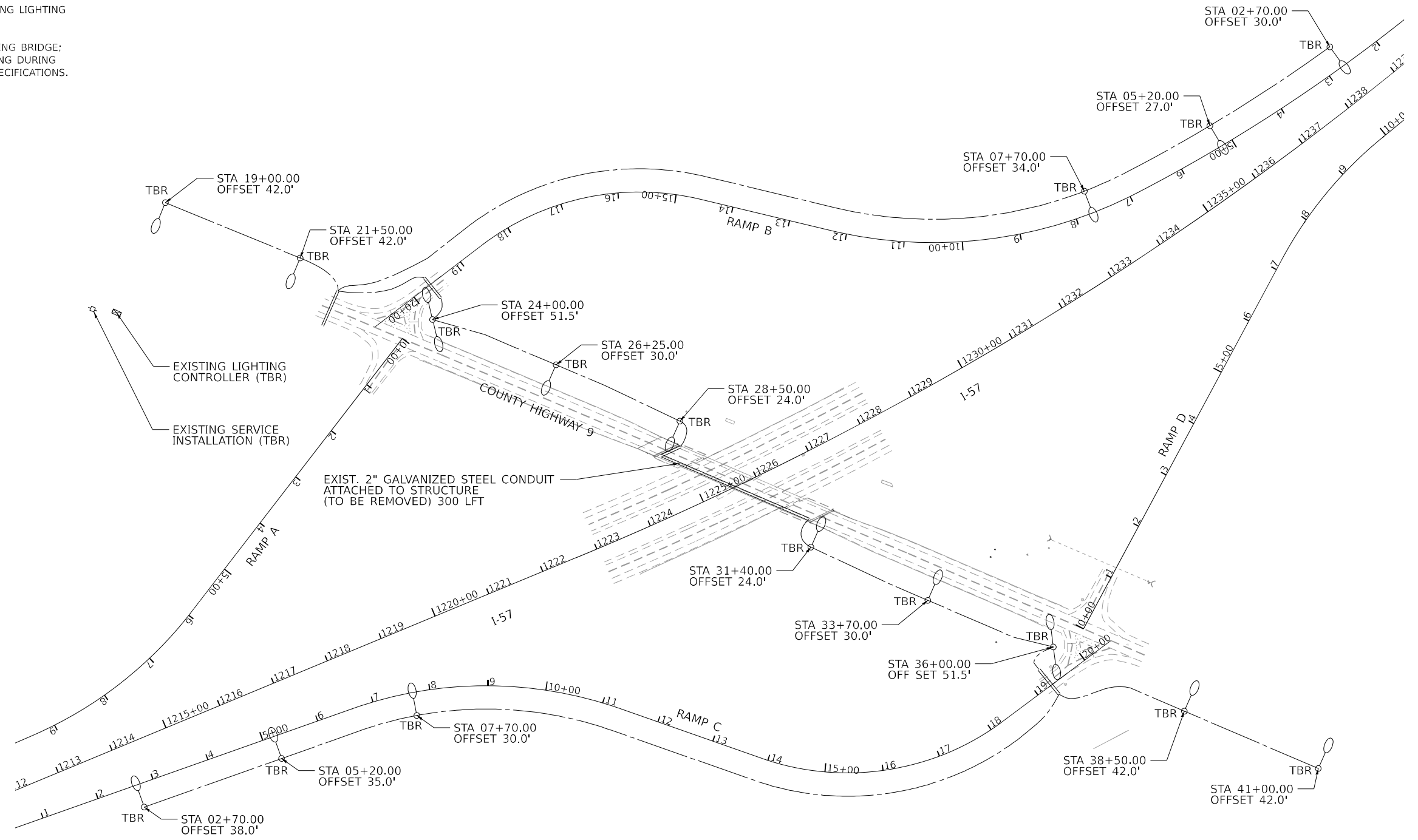
**LEGEND**

-  EXIST. TENON MOUNT LIGHT POLE (TO BE REMOVED)
-  EXIST. TWIN TENON MOUNT LIGHT POLE (TO BE REMOVED)
-  EXIST. LIGHTING CONTROLLER (TO BE REMOVED)
-  EXIST. UNIT DUCT
-  EXIST. INTERMEDIATE METAL CONDUIT (PUSHED)




**NOTE**

1. ALL EXISTING LIGHT POLE FOUNDATIONS AND THE EXISTING LIGHTING CONTROLLER FOUNDATION ARE TO BE REMOVED.
2. EXISTING LIGHTING CONDUIT IS ATTACHED TO THE EXISTING BRIDGE; THE CONTRACTOR SHALL MAINTAIN THE EXISTING LIGHTING DURING THE PROJECT PER ARTICLE 801.11 OF THE STANDARD SPECIFICATIONS.



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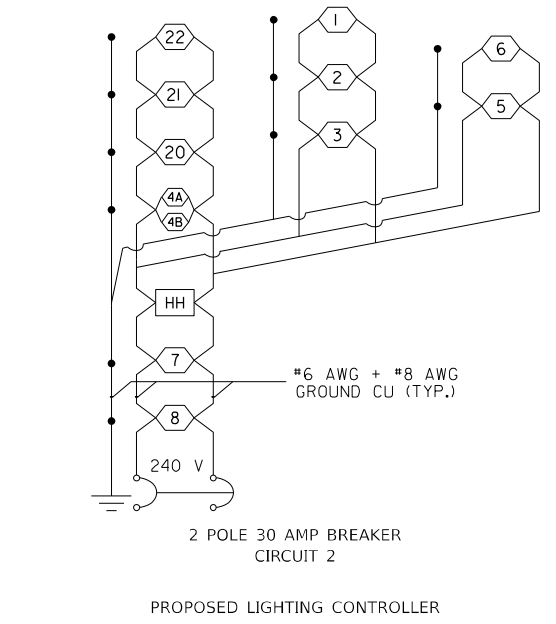
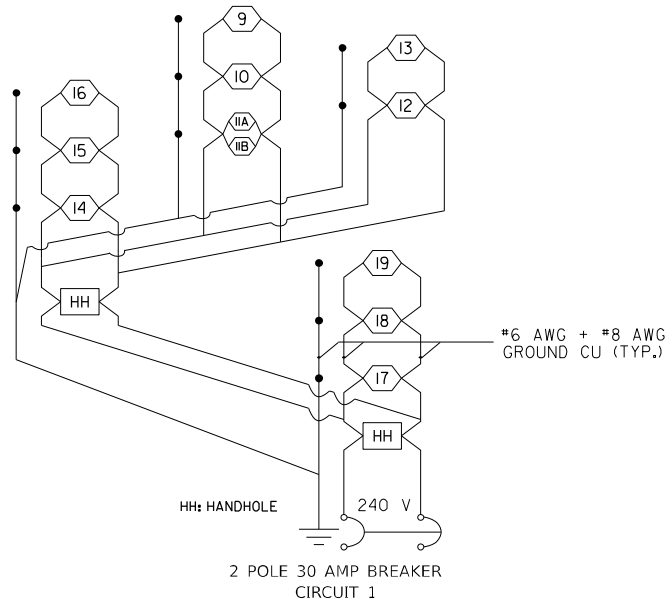
ABNA ENGINEERING, INC.  
 745 McClintock Drive,  
 Suite 210  
 Barr Ridge, IL 62527  
 Office: (773) 881-4788

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PLOT SCALE = 200,0000' / in.	DRAWN - MSU	REVISED -
PLOT DATE = 10/17/2023	CHECKED -	REVISED -
	DATE - 07/28/2023	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>LIGHTING REMOVAL</b>				
SCALE:	SHEET	OF	SHEETS	STA. TO STA.

F.A.1 RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-7HB-2)D	IROQUOIS		
CONTRACT NO. 66E40				
ILLINOIS FED. AID PROJECT				



**WIRING DIAGRAM**

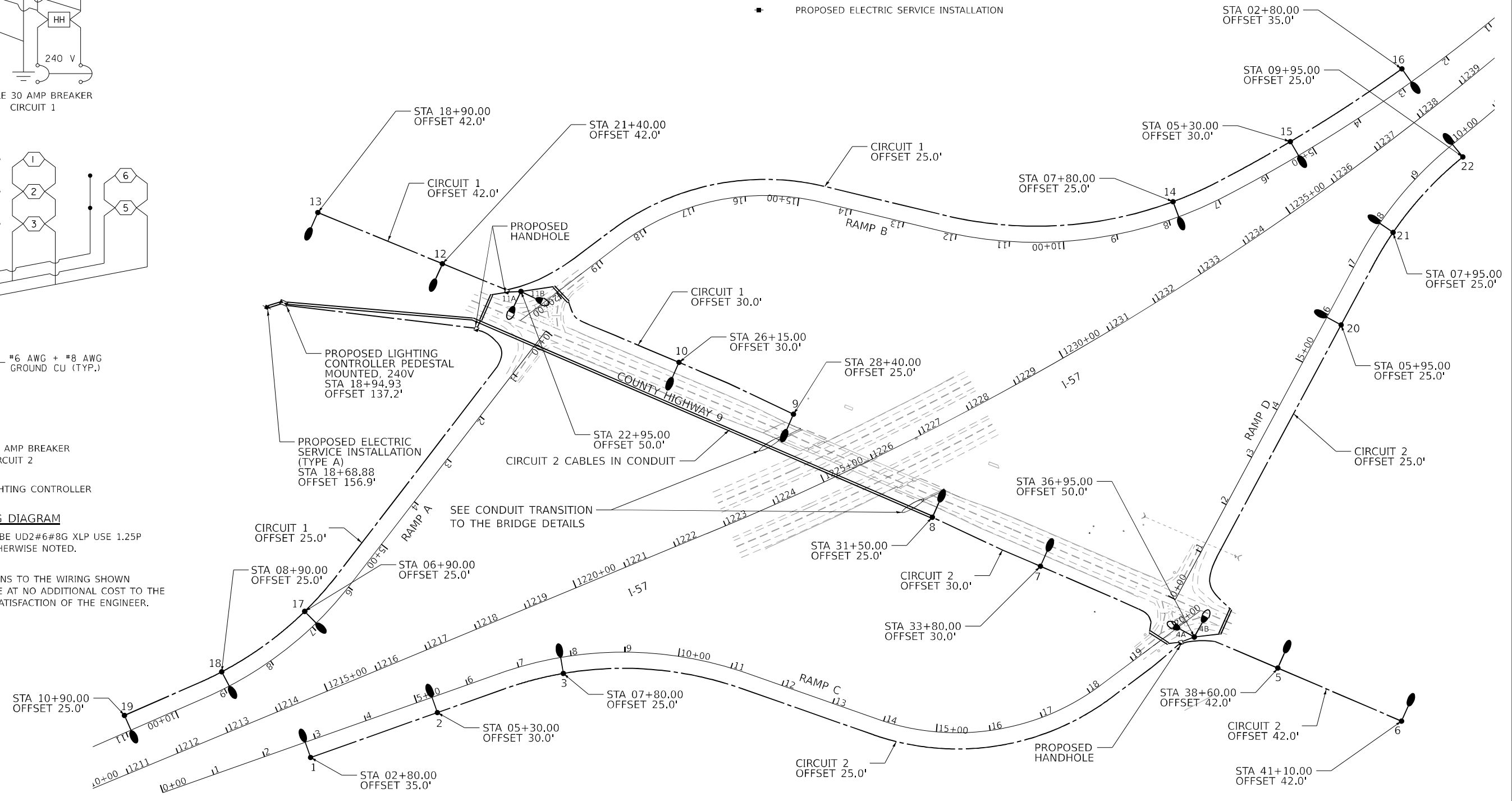
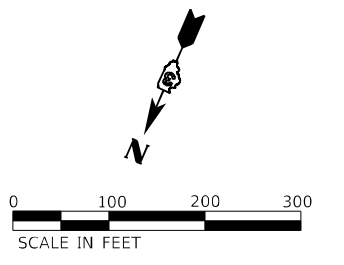
NOTE: ALL CABLE SHALL BE UD2#6#8G XLP USE 1.25P UNLESS OTHERWISE NOTED.

ALL NECESSARY REVISIONS TO THE WIRING SHOWN ON THIS SHEET SHALL BE MADE AT NO ADDITIONAL COST TO THE DEPARTMENT AND TO THE SATISFACTION OF THE ENGINEER.

**NOTE**  
EXISTING LIGHTING CONDUIT IS ATTACHED TO THE EXISTING BRIDGE; THE CONTRACTOR SHALL MAINTAIN THE EXISTING LIGHTING DURING THE PROJECT PER ARTICLE 801.11 OF THE STANDARD SPECIFICATIONS.

**LEGEND**

- X — PROPOSED LIGHTING UNIT (OUTPUT DESIGNATION H), 45' MOUNTING HEIGHT, LUMINAIRE LED, MOUNTED ON 10' MAST ARM. NUMBER AT X IS POLE NUMBER.
- X — PROPOSED TWIN LIGHTING UNIT (OUTPUT DESIGNATION H), 45' MOUNTING HEIGHT, LUMINAIRE LED, MOUNTED ON 10' MAST ARM. NUMBER AT X IS POLE NUMBER.
- — PROPOSED LIGHTING CONTROLLER, PEDESTAL MOUNTED, 240VOLT, 60AMP
- UNIT DUCT, 600V, 2-1C NO.6, 1/C NO.8 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE
- UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.
- PROPOSED HANDHOLE
- PROPOSED ELECTRIC SERVICE INSTALLATION



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**ABNA**  
ABNA ENGINEERING, INC.  
745 McClintock Drive,  
Suite 210  
Barr Ridge, IL 62527  
Office: (773) 881-4788

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PLOT DATE = 10/17/2023	CHECKED -	REVISED -
	DATE - 07/28/2023	REVISED -

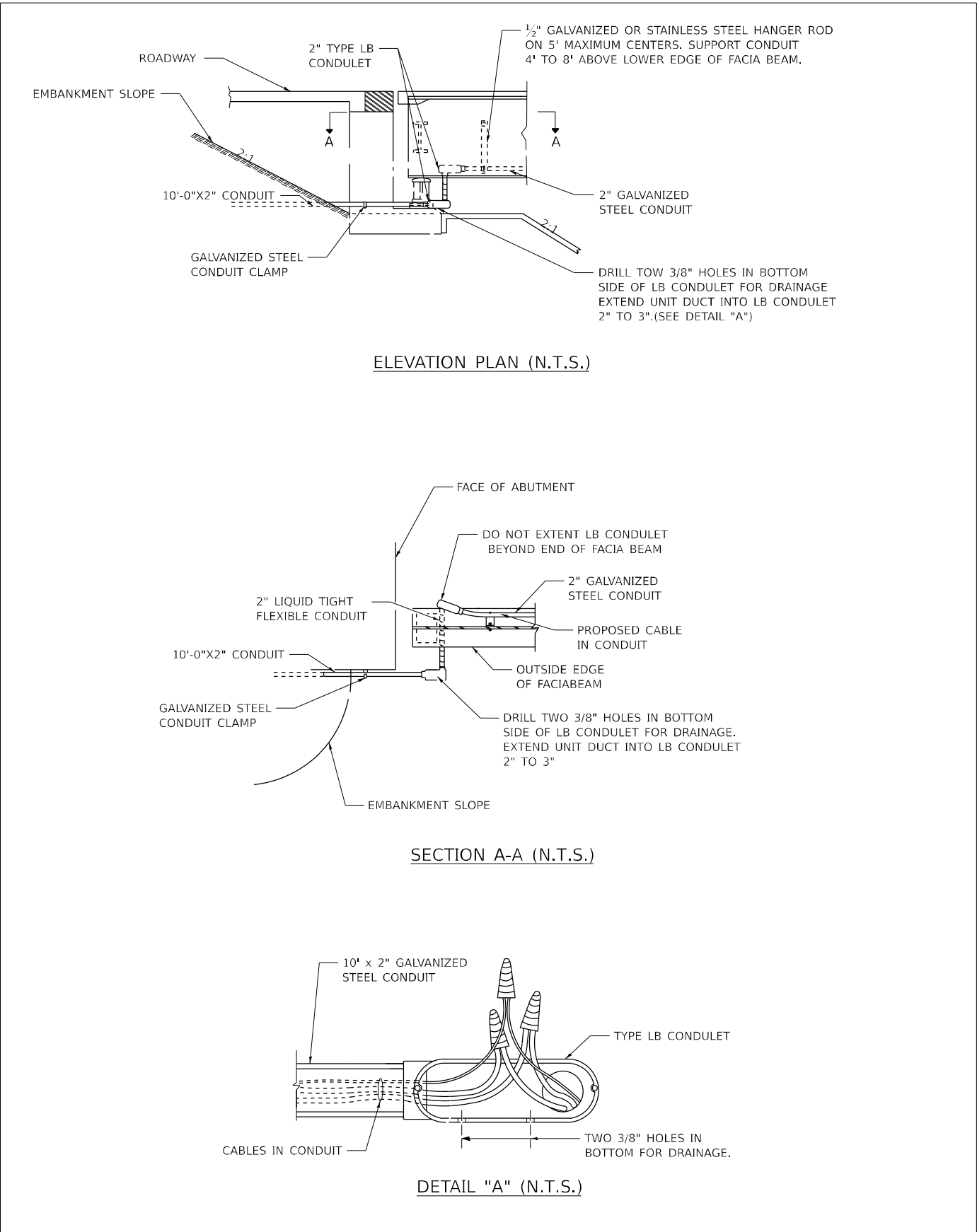
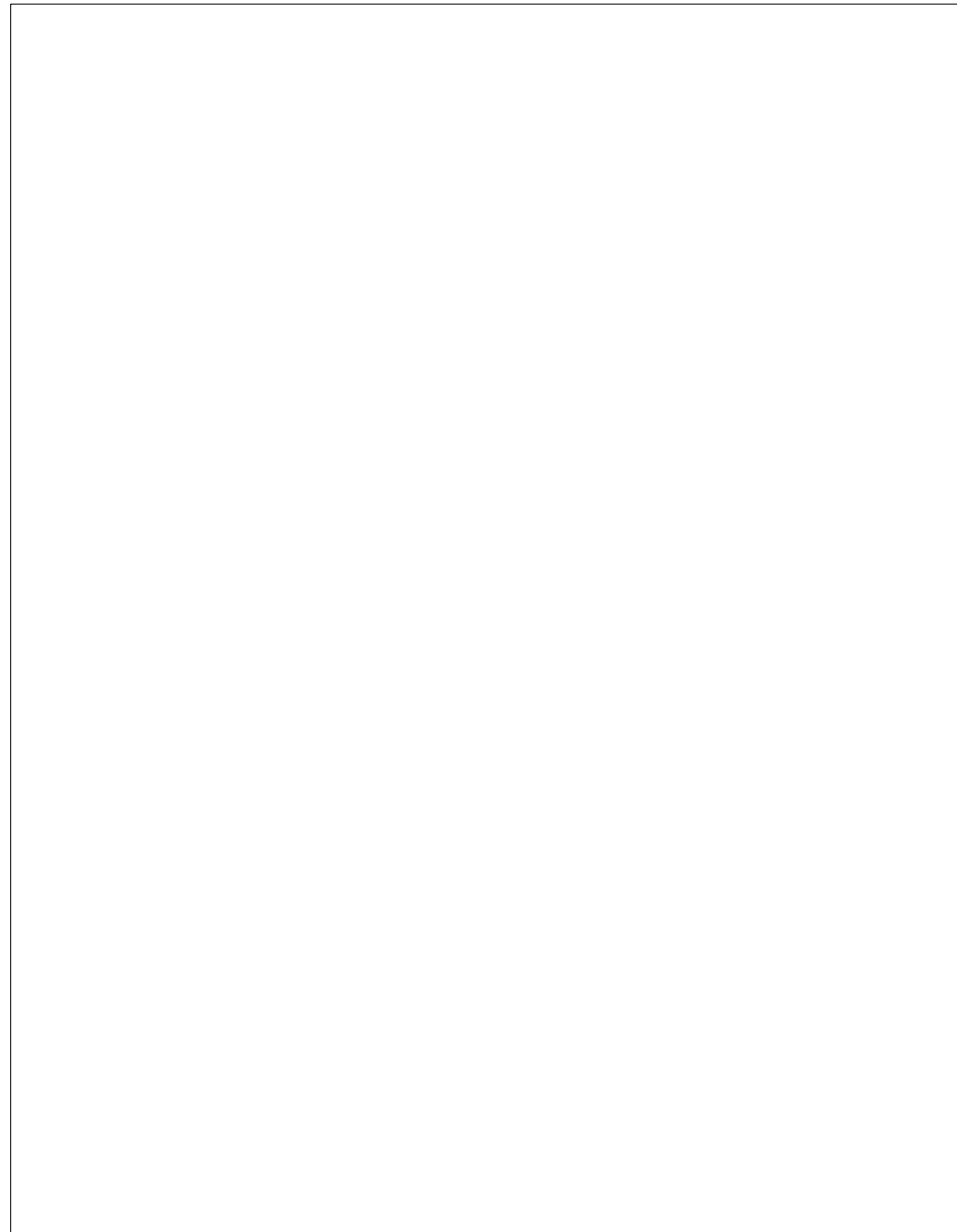
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**LIGHTING PLAN**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.1 RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-7HB-2)D	IROQUOIS		
CONTRACT NO. 66E40				
ILLINOIS FED. AID PROJECT				





CONDUIT TRANSITION FROM ROADWAY TO BRIDGE DETAILS

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PLOT DATE = 10/17/2023	DATE - 07/28/2023	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

LUMINAIRE PERFORMANCE TABLE & CONDUIT TRANSITION DETAILS			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-7HB-2)D	IROQUOIS		
				CONTRACT NO. 66E40
ILLINOIS FED. AID PROJECT				

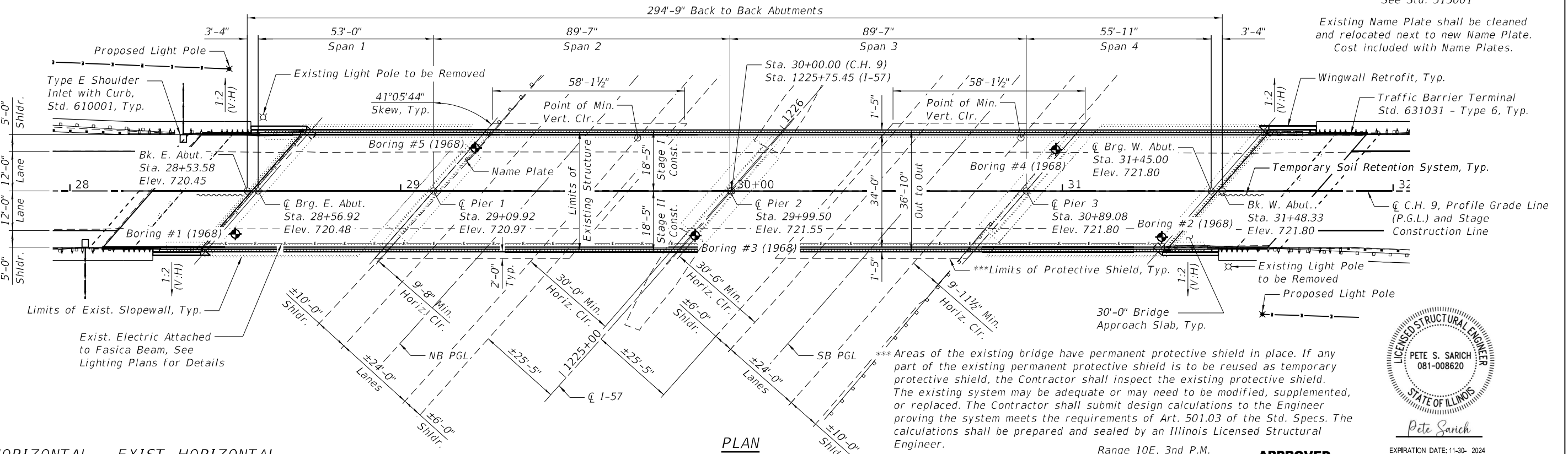
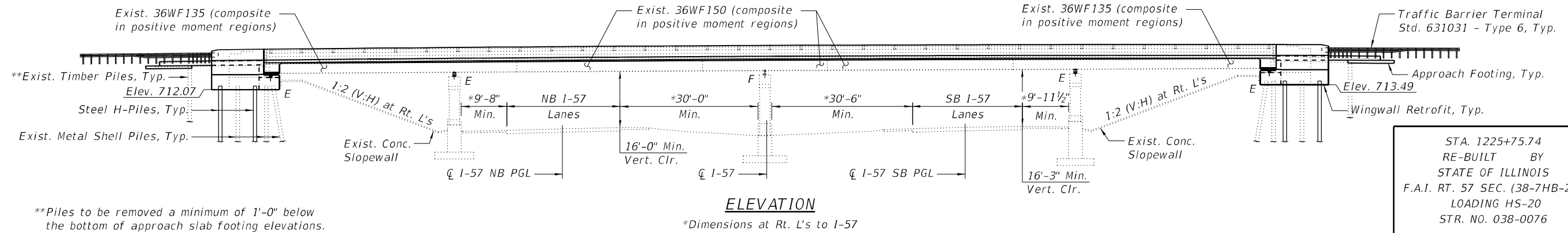
Benchmarks: BM #5, Chiseled "□" in top of northeast wingwall. Elevation = 723.27, Station 28+41.20, 17.73' Rt.  
 BM #6, Chiseled "X" in southeast bolt light pole base. Elevation = 720.95, Station 33+70.13, 27.92' Rt.

Existing Structure: Structure No. 038-0076 was originally constructed in 1968 with FAI 57, Section 38-7HB-2. Crash walls were added to the piers in 1994. In 2000, bridge repairs were completed, including deck repairs, bearing replacement at the abutments, steel repair at the end of Beam 6 at the West Abutment, expansion joint reconstruction, approach slab construction, crash wall extensions, and placement of an HMA overlay with waterproofing membrane. The superstructure is a four span continuous steel beam bridge with a 7" concrete deck and a 2 5/8" to 3" HMA overlay. The substructure consists of stub abutments supported by metal shell piles and multi-column piers supported by spread footings bearing on clay till. The back-to-back of abutments length measures 294'-9", and the out-to-out of deck width measures 36'-0". The span lengths are 53'-0", 89'-7", 89'-7", and 55'-11". The structure is skewed 41°05'44" left-forward. One lane of traffic will be maintained utilizing stage construction.

No Salvage.

**SCOPE OF WORK**

1. Remove and replace existing concrete deck and bridge approach slabs.
2. Remove and replace existing bearings at both abutments, pier 1 and pier 3 with elastomeric bearings.
3. Convert existing stub abutments to semi-integral.
4. Retrofit existing wingwalls to accommodate semi-integral diaphragm and approach parapet.
5. Concrete repairs to substructure units and slopewalls.
6. Clean and paint existing structural steel and Pier 2 bearings.



**EXIST. HORIZONTAL**

**CURVE DATA**  
(I-57)

P.I. Sta. = 1246+17.35  
 $\Delta = 44^\circ 42' 37''$  (Lt.)  
 $D = 1^\circ 00' 00''$   
 $R = 5,729.80'$   
 $T = 2,356.40'$   
 $L = 4,471.19'$   
 $E = 465.62'$   
 $e = 2.80\%$   
 P.C. Sta. = 1222+60.95  
 P.T. Sta. = 1267+32.14

**EXIST. HORIZONTAL**

**CURVE DATA**  
(C.H. 9)

P.I. Sta. = 24+76.34  
 $\Delta = 0^\circ 51' 26''$  (Rt.)  
 $D = 0^\circ 06' 53''$   
 $R = 49,944.40'$   
 $T = 373.58'$   
 $L = 747.15'$   
 $E = 1.40'$   
 P.C. Sta. = 21+02.76  
 P.T. Sta. = 28+49.91

**EXISTING DESIGN STRESSES**

**FIELD UNITS**

$f_c = 1,400$  psi  
 $f_s = 20,000$  psi (Reinforcement)  
 $f_s = 20,000$  psi (Structural Steel, A36)  
 $n = 10$

**PROPOSED DESIGN STRESSES**

**FIELD UNITS**

$f_c = 3,500$  psi  
 $f_c = 4,000$  psi (Superstructure Concrete)  
 $f_y = 60,000$  psi (Reinforcement)

**DESIGN SPECIFICATIONS**

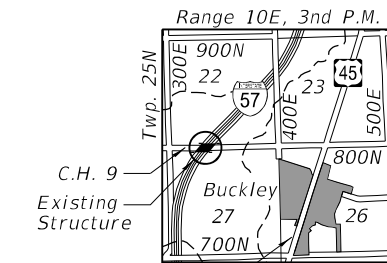
2002 AASHTO Standard Specifications for Highway Bridges, 17th Edition

**LOADING HS20-44**

No allowance for future wearing surface.

**SEISMIC DATA**

Seismic Performance Category (SPC) = A  
 Bedrock Acceleration Coefficient (A) = 0.044  
 Site Coefficient (S) = 1.0



Pete Sarich

EXPIRATION DATE: 11-30-2024  
 DATE: 10/13/2023

**APPROVED**  
 For Structural Adequacy Only  
 Engineer of Bridges & Structures

**C.H. 9 (F.A.S. 334)  
 OVER INTERSTATE 57  
 F.A.I. ROUTE 57  
 SECTION (38-7HB-2)D  
 IROQUOIS COUNTY  
 STATION 30+00.00  
 STRUCTURE NO. 038-0076**

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PLOT SCALE = N.T.S.	CHECKED - I. LOPEZ	REVISED -
PLOT DATE = 08/10/2023	DRAWN - P. SARICH	REVISED -
	CHECKED - I. LOPEZ	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN AND ELEVATION  
 STRUCTURE NO. 038-0076**

SHEET 1 OF 35 SHEETS

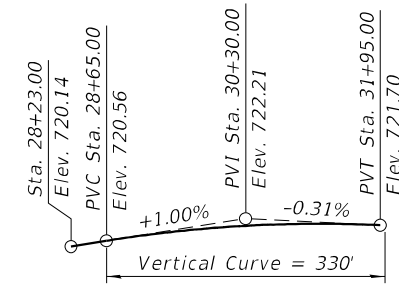
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57	(38-7HB-2)D	IROQUOIS	104	44
CONTRACT NO. 66E40				
ILLINOIS FED. AID PROJECT				

**GENERAL NOTES**

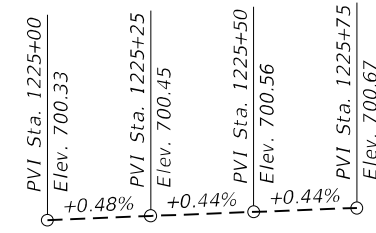
- No field welding is permitted except as specified in the contract documents.
  - The Contractor shall test the existing welds by non-destructive methods within 2 ft. of the end of the existing cover plates for cracks after removal of the existing concrete deck. Dye penetrant (PT), magnetic particle (MT), or other approved testing methods shall be performed by qualified personal approved by the Engineer. If cracks are found, report them to the Bureau of Bridges and Structures for disposition. The cost of testing is included in the Removal of Existing Concrete Deck. The cost of crack repair, if necessary, will be paid for according to Article 109.04 of the Standard Specifications.
  - 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 detrimental foreign material shall be removed from the surfaces in contact with concrete (SSPC-SP3 Standards). 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 paid for according to Article 109.04 of the Standard Specifications.
- As directed by the Engineer, existing construction accessories welded to the top of 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 can not be removed by grinding 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 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.
  - Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.
  - 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 5 ft. minimum or as required to repair damaged coating (measured along the beam) of either side of deck joints shall be cleaned per Near White Blast Cleaning (SSPC-SP10). The exterior surfaces and bottom of 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 (SSPC-SP10) and per Commercial Grade Power Tool Cleaning (SSPC-SP15) 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 exterior and bottom flange of the fascia beams shall be Reddish Brown, Munsell No. 2.5YR 3/4.
- SSPC QP1 and SSPC QP2 certification is required for this contract.
  - The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to address the presence of lead in this project.
  - Quantity for Deck Slab Repair (Full Depth, Type II) is included for emergency purposes only and shall be used to repair areas of major concern, as determined by the Engineer, on the existing deck to safely carry traffic across bridge during Stage I before the Contractor is able to reroute traffic to the completed portion of the new bridge deck for the Stage II roadway configuration.
  - A minimum of 1 air monitor will be required to monitor abrasive blasting operations at this site. See special provision for "Containment and Disposal of Lead Paint Cleaning Residues."

**INDEX OF SHEETS**

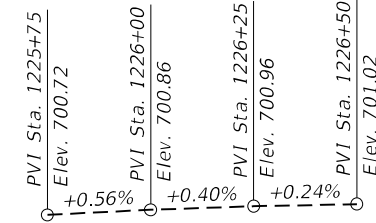
- General Plan and Elevation
- General Notes, Index of Sheets and Total Bill of Material
- Stage I Construction Details
- Stage II Construction Details
- Temporary Concrete Barrier Details
- Substructure Layout
- Temporary Soil Retention System
- Top of Slab Elevations Plan
- Top of Slab Elevations Tables I
- Top of Slab Elevations Tables II
- Top of Slab Elevations Tables III
- Top of East Approach Slab Elevations
- Top of West Approach Slab Elevations
- Superstructure Plan I
- Superstructure Plan II
- Superstructure Details I
- Superstructure Details II
- Diaphragm Details
- Approach Slab Plan
- Approach Slab Details
- Structural Steel
- Abutment Elastomeric Bearing Details
- Pier Elastomeric Bearing Details
- Substructure Removal Details I
- Substructure Removal Details II
- Abutment Plan
- Abutment Wingwall Details
- Abutment Details
- Substructure Repairs I
- Substructure Repairs II
- Substructure Repairs III
- Sloped Repair Details
- HP Pile Details
- Bar Splicer Details
- Concrete Parapet Slipforming Option



**C.H. 9 PROFILE GRADE**  
(Along C Roadway)



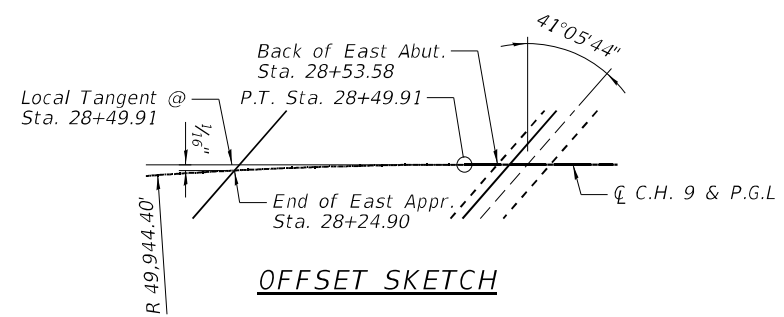
**I-57 NB PROFILE GRADE**  
(Along C NB Lanes)



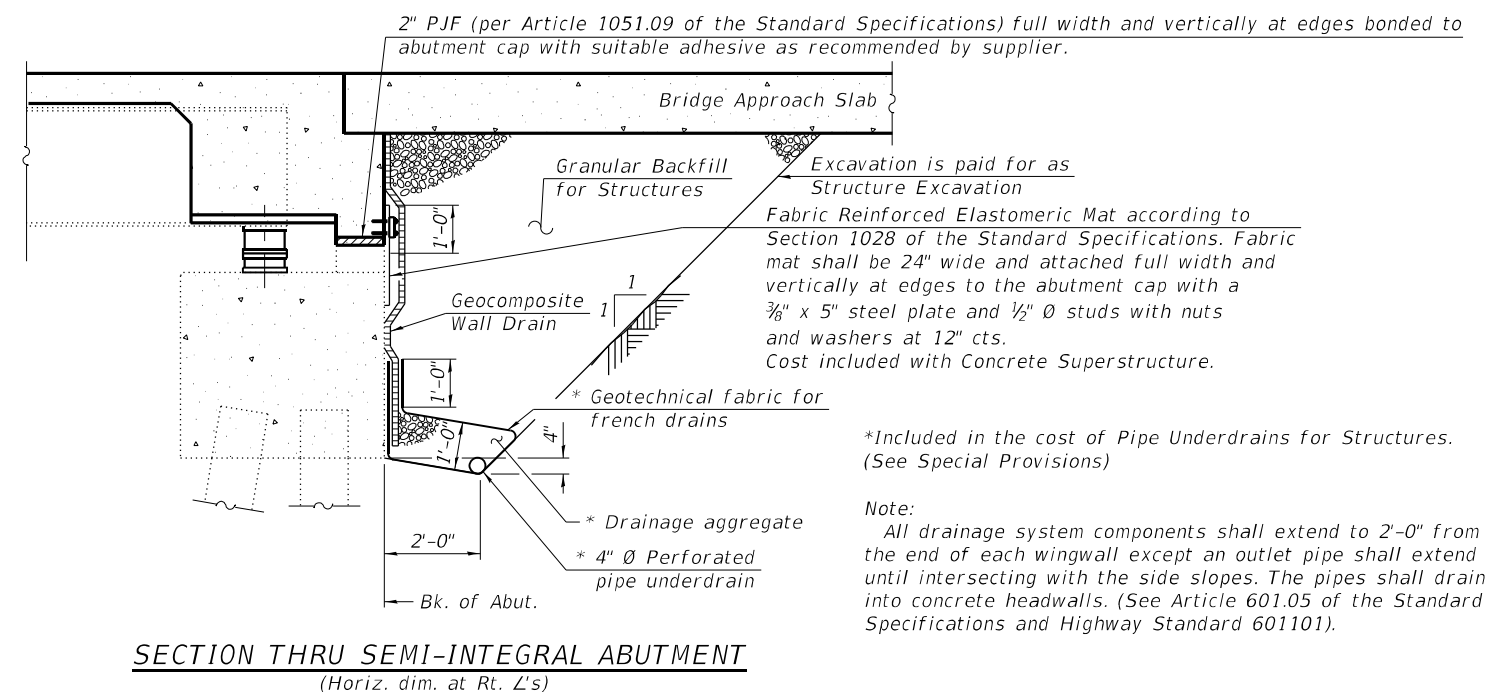
**I-57 SB PROFILE GRADE**  
(Along C SB Lanes)

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	SUPER	SUB	TOTAL
Concrete Removal	Cu Yd	-	46	46
Removal of Existing Concrete Deck No. 1	Each	1	-	1
Protective Shield	Sq Yd	114	-	114
Structure Excavation	Cu Yd	-	132	132
Concrete Structures	Cu Yd	-	63.0	63.0
Concrete Superstructure	Cu Yd	403.0	-	403.0
Bridge Deck Grooving	Sq Yd	1,253	-	1,253
Protective Coat	Sq Yd	1,628	-	1,628
Concrete Superstructure (Approach Slab)	Cu Yd	100.0	-	100.0
Furnishing and Erecting Structural Steel	Pound	3,510	-	3,510
Stud Shear Connectors	Each	2,136	-	2,136
Reinforcement Bars, Epoxy Coated	Pound	144,140	4,750	148,890
Bar Splicers	Each	1,076	80	1,156
Furnishing Steel Piles HP12x53	Foot	-	366	366
Driving Piles	Foot	-	366	366
Test Pile Steel HP12x53	Each	-	2	2
Pile Shoes	Each	-	8	8
Name Plates	Each	1	-	1
Elastomeric Bearing Assembly, Type I	Each	12	-	12
Elastomeric Bearing Assembly, Type II	Each	12	-	12
Anchor Bolts, 1"	Each	72	-	72
Temporary Soil Retention System	Sq Ft	-	144	144
Granular Backfill for Structures	Cu Yd	-	132	132
Geocomposite Wall Drain	Sq Yd	-	78	78
Bridge Cleaning and Painting Warranty	L Sum	1	-	1
Jack and Remove Existing Bearings	Each	24	-	24
Containment and Disposal of Lead Paint Cleaning Residues No. 1	L Sum	1	-	1
Cleaning and Painting Steel Bridge No. 1	L Sum	1	-	1
Structural Repair of Concrete (Depth Equal to or Less Than 5")	Sq Ft	-	62	62
Deck Slab Repair (Full Depth, Type II)	Sq Yd	1	-	1
Pipe Underdrains for Structures 4"	Foot	-	138	138
Slope Wall Repair	Sq Yd	-	8	8



**OFFSET SKETCH**



**SECTION THRU SEMI-INTEGRAL ABUTMENT**  
(Horiz. dim. at Rt. L's)

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PLOT DATE = 08/10/2023	DRAWN - P. SARICH	REVISED -
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

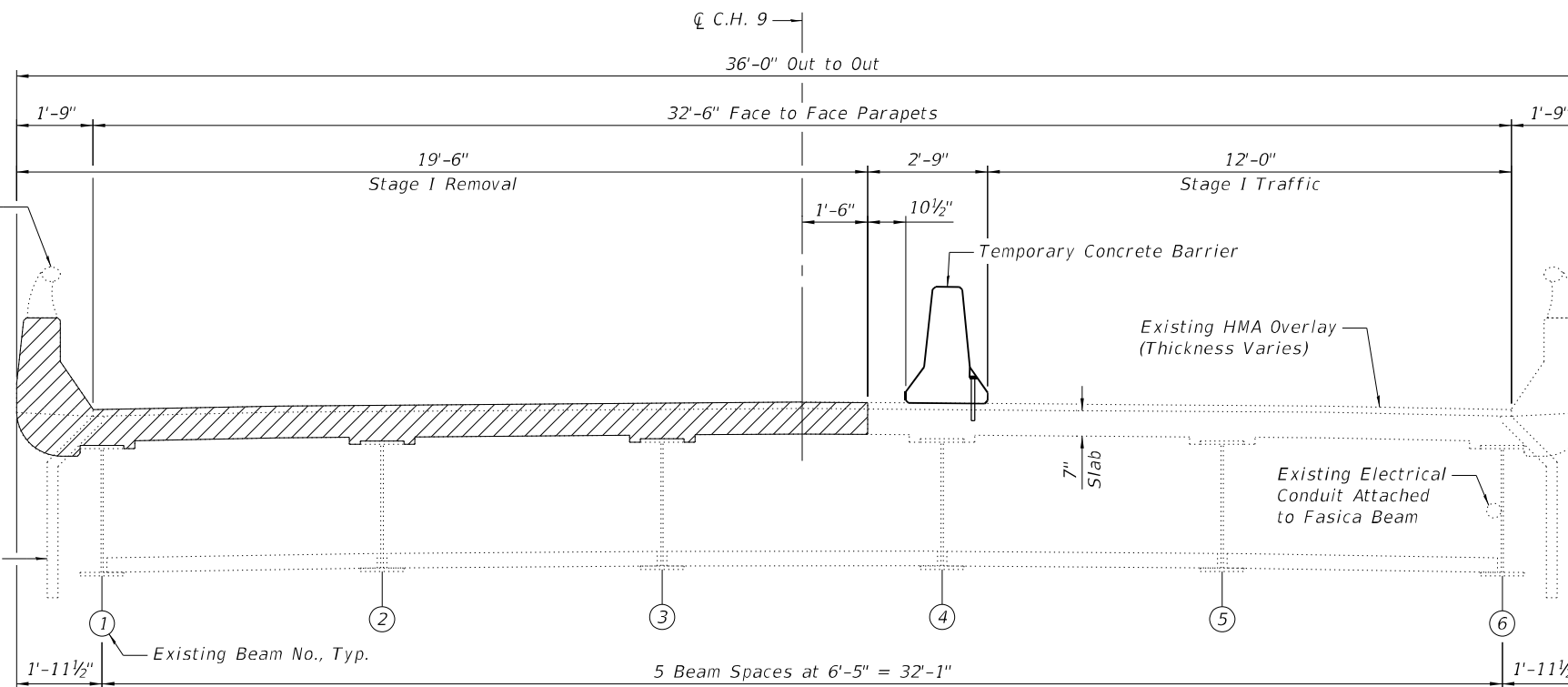
**GENERAL NOTES, INDEX OF SHEETS AND TOTAL BILL OF MATERIAL**  
**STRUCTURE NO. 038-0076**  
SHEET 2 OF 35 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-7HB-2)D	IROQUOIS	104	45
CONTRACT NO. 66E40				
		ILLINOIS	FED. AID PROJECT	

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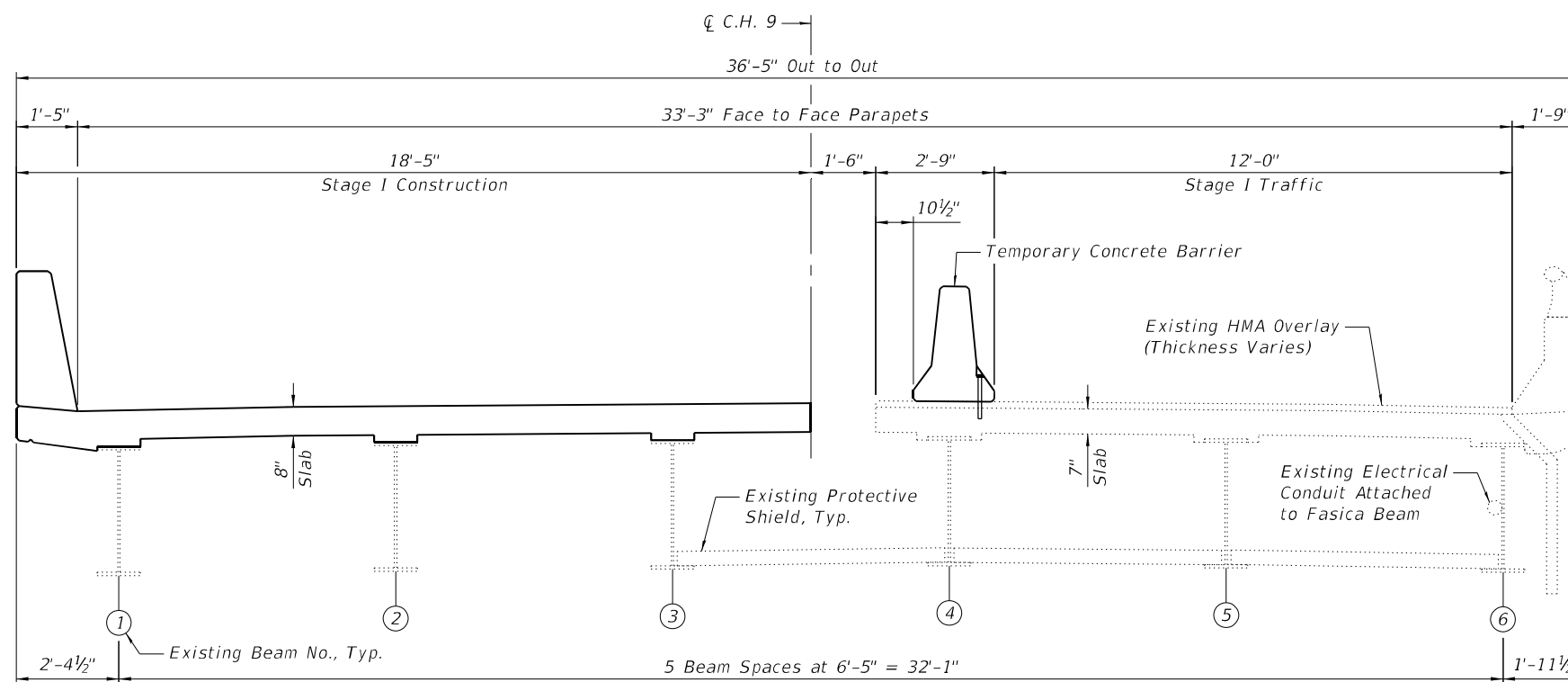
Existing Aluminum Rail to be Removed.  
 Cost Included with Removal of Existing Concrete Deck No. 1

Existing Deck Drains to be Removed.  
 Cost Included with Removal of Existing Concrete Deck No. 1, Typ.



**STAGE I REMOVAL**


(Looking Upstation)



**STAGE I CONSTRUCTION**

(Looking Upstation)

**LEGEND**

 Limits of Removal of Existing Concrete Deck No. 1

**NOTES**

1. Horizontal dimensions are measured perpendicular to centerline of C.H. 9
2. For substructure stage construction removal limits, see sheets 24 and 25 of 35.
3. See roadway plans for quantity and payment of Temporary Concrete Barrier.
4. See note on sheet 1 of 35 regarding potential reuse of existing protective shield.



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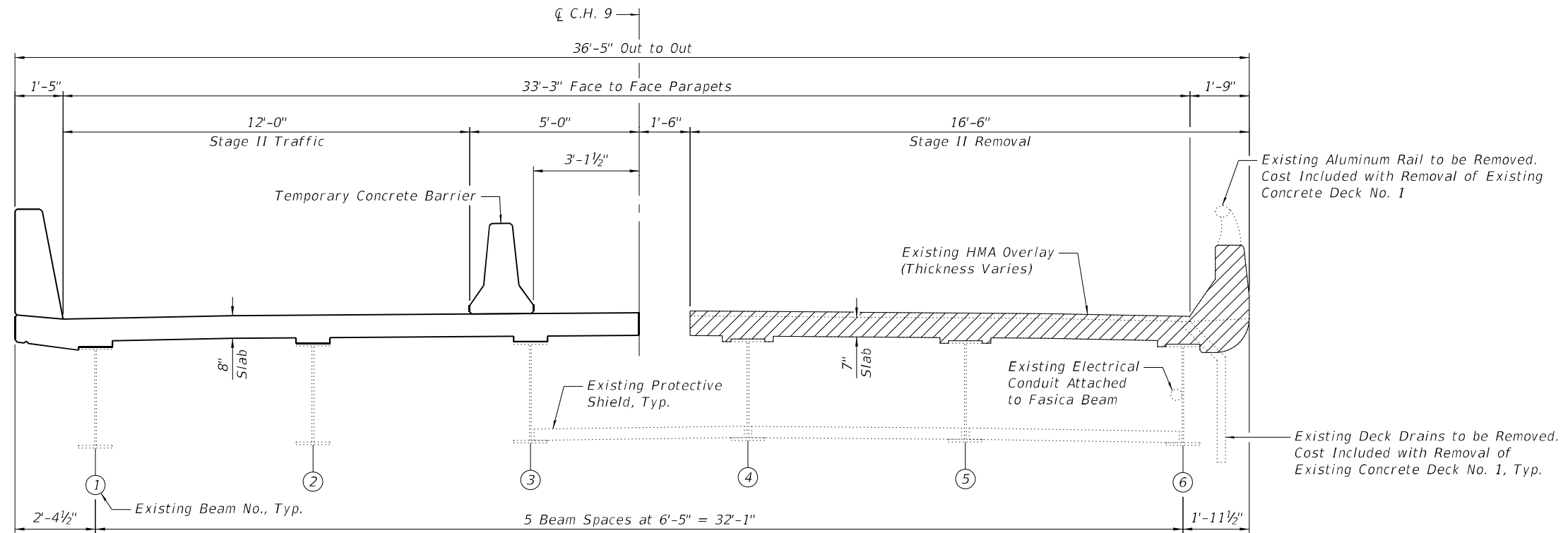
STATE OF ILLINOIS  
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STAGE I CONSTRUCTION DETAILS  
 STRUCTURE NO. 038-0076

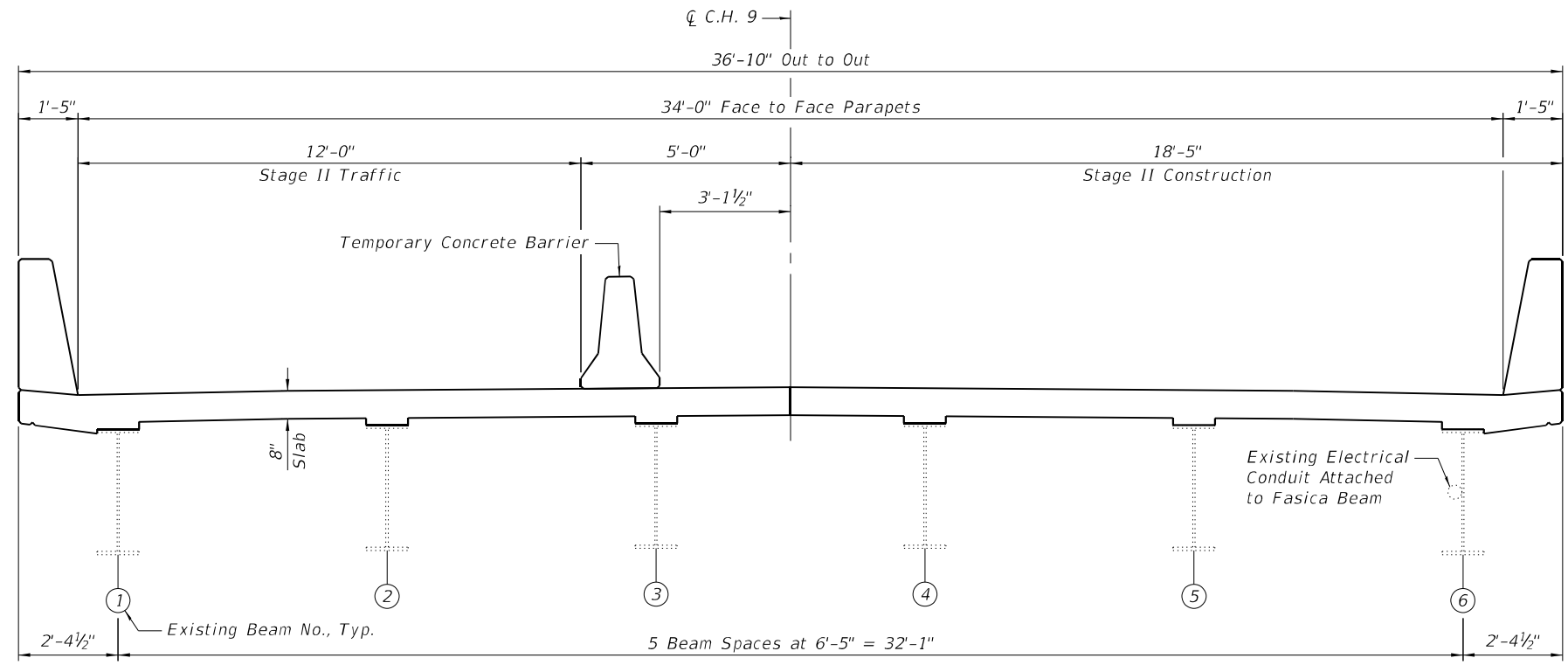
SHEET 3 OF 35 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-7HB-2)D	IROQUOIS	104	46
CONTRACT NO. 66E40				
ILLINOIS FED. AID PROJECT				

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


**STAGE II REMOVAL**  
 (Looking Upstation)



**STAGE II CONSTRUCTION**  
 (Looking Upstation)

**LEGEND**

 Limits of Removal of Existing Concrete Deck No. 1

**NOTES**

1. Horizontal dimensions are measured perpendicular to centerline of C.H. 9
2. For substructure stage construction removal limits, see sheets 24 and 25 of 35.
3. See roadway plans for quantity and payment of Temporary Concrete Barrier.
4. See note on sheet 1 of 35 regarding potential reuse of existing protective shield.



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	CHECKED - I. LOPEZ	REVISED -

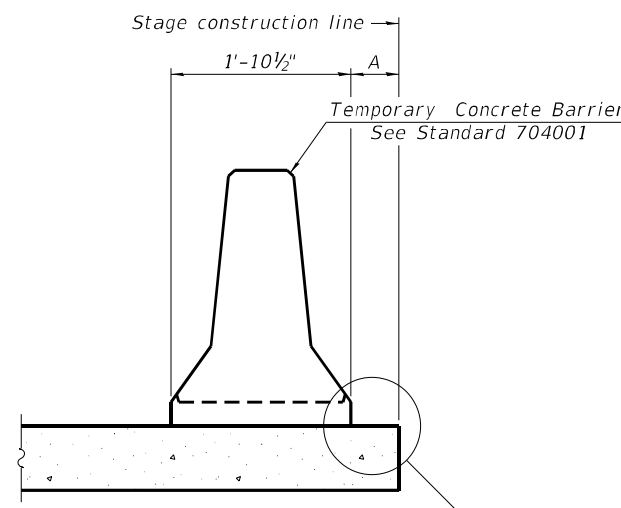
**STATE OF ILLINOIS  
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**STAGE II CONSTRUCTION DETAILS  
 STRUCTURE NO. 038-0076**

SHEET 4 OF 35 SHEETS

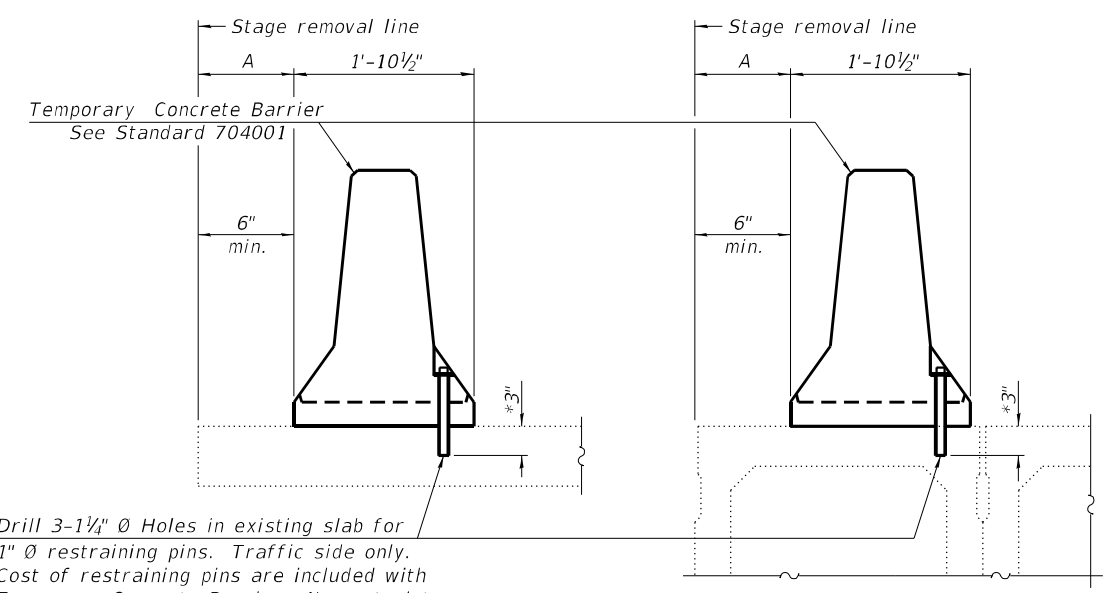
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-7HB-2)D	IROQUOIS	104	47
CONTRACT NO. 66E40				
ILLINOIS FED. AID PROJECT				

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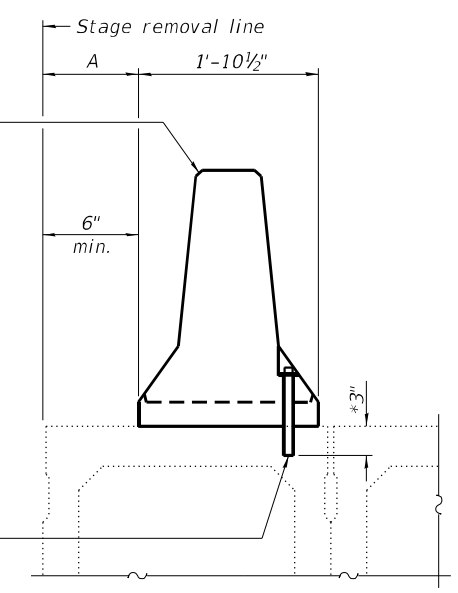
When "A" is 3'-1" or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I, II or III. No restraint is required when "A" is greater than 3'-1".

**NEW SLAB OR NEW DECK BEAM**



Drill 3-1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

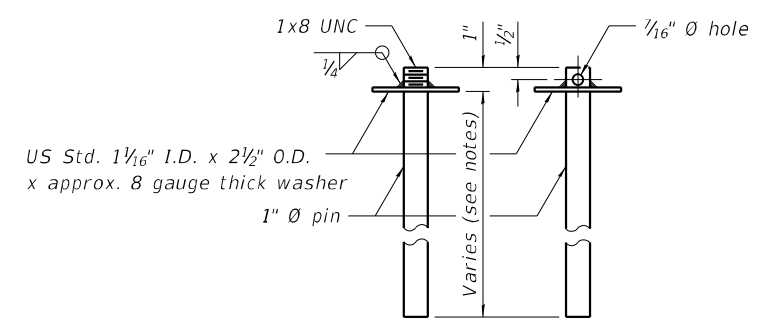
**EXISTING SLAB**



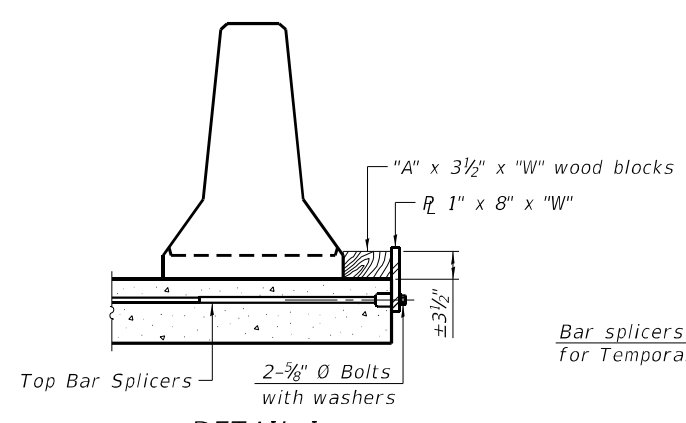
\* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.

**EXISTING DECK BEAM**

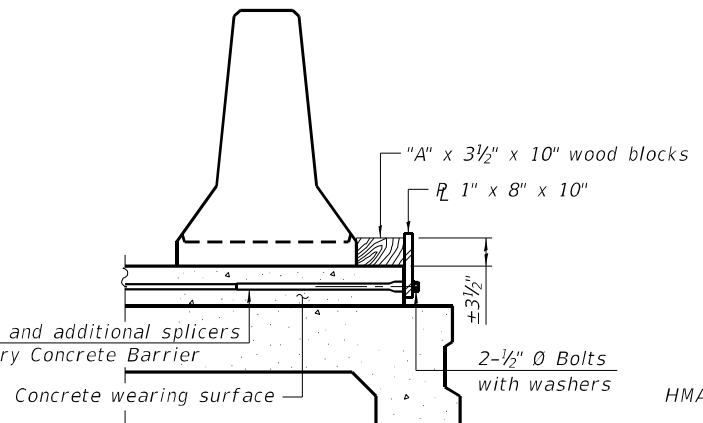
**SECTIONS THRU SLAB OR DECK BEAM**



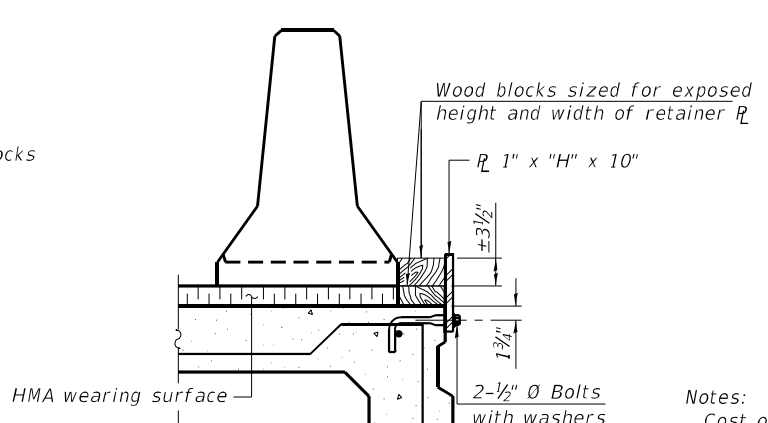
**RESTRAINING PIN**



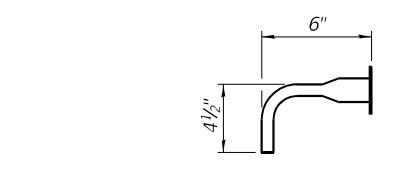
**DETAIL I**



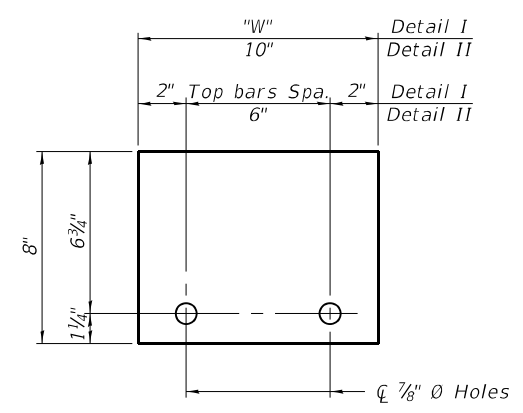
**DETAIL II**



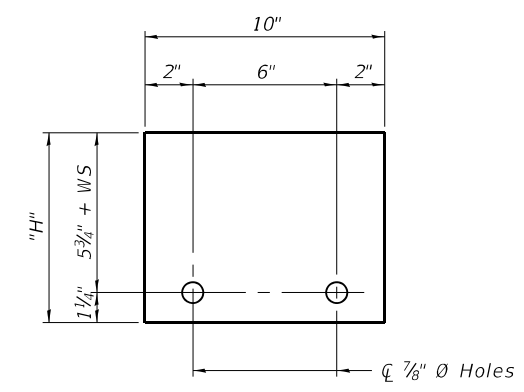
**DETAIL III**



**BAR SPLICER FOR #4 BAR - DETAIL III**



**STEEL RETAINER R 1" x 8" x "W"**  
(Detail I and II)



**STEEL RETAINER R 1" x "H" x 10"**  
(Detail III)

**Notes:**  
 Cost of retainer assembly is included with Temporary Concrete Barrier.  
 A retainer assembly shall be located at the approximate  $\bar{c}$  of each temporary concrete barrier.  
 The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.  
 When the 'A' dimension is less than 1 1/2', the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate. For deck beam applications the minimum required 'A' distance is 6" to accommodate the shear key clamping device.  
**Detail I** - Installation for a new bridge deck or bridge slab.  
**Detail II** - Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.  
**Detail III** - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart, shall be placed at 6'-0" centers along the length of the beam. The cost of the bar splicers is included with the deck beam.

**RAILING CRITERIA**

NCHRP 350 Test Level	3
Railing Weight (plf)	440

R-27 10-12-2021



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	CHECKED - I. LOPEZ	REVISED -

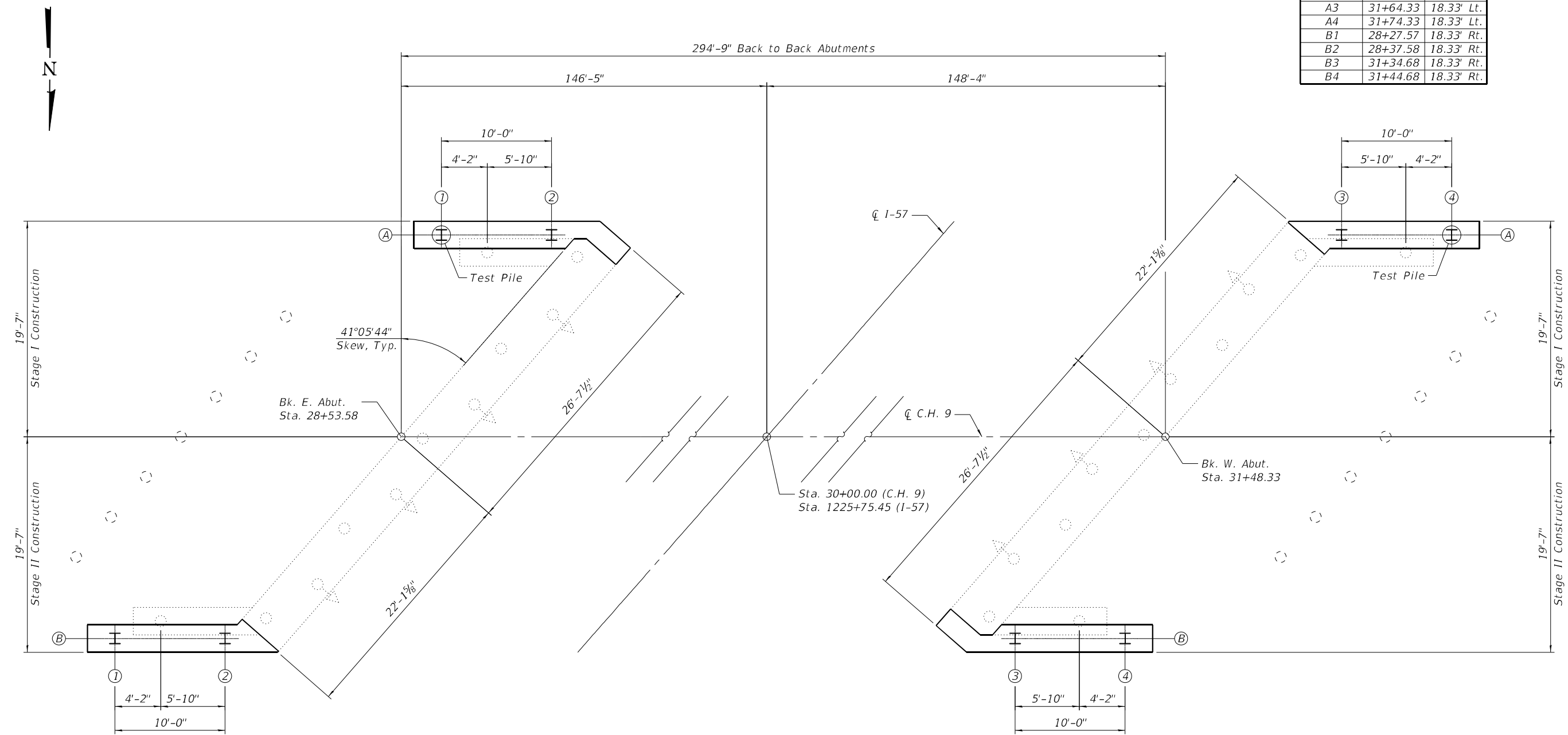
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DEPARTMENT OF TRANSPORTATION**

**TEMPORARY CONCRETE BARRIER DETAILS  
STRUCTURE NO. 038-0076**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-7HB-2)D	IROQUOIS	104	48
CONTRACT NO. 66E40				
ILLINOIS FED. AID PROJECT				





**PILE LOCATION TABLE**

Station	Station	Offset
A1	28+57.24	18.33' Lt.
A2	28+67.24	18.33' Lt.
A3	31+64.33	18.33' Lt.
A4	31+74.33	18.33' Lt.
B1	28+27.57	18.33' Rt.
B2	28+37.58	18.33' Rt.
B3	31+34.68	18.33' Rt.
B4	31+44.68	18.33' Rt.



**FOOTING LAYOUT**

**LEGEND**

-  Proposed Steel H-Pile
-  Existing Timber Piles
-  Existing Metal Shell Pile (Vertical)
-  Existing Metal Shell Pile (Battered)

MODEL: Default  
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REVISD -	REVISD -

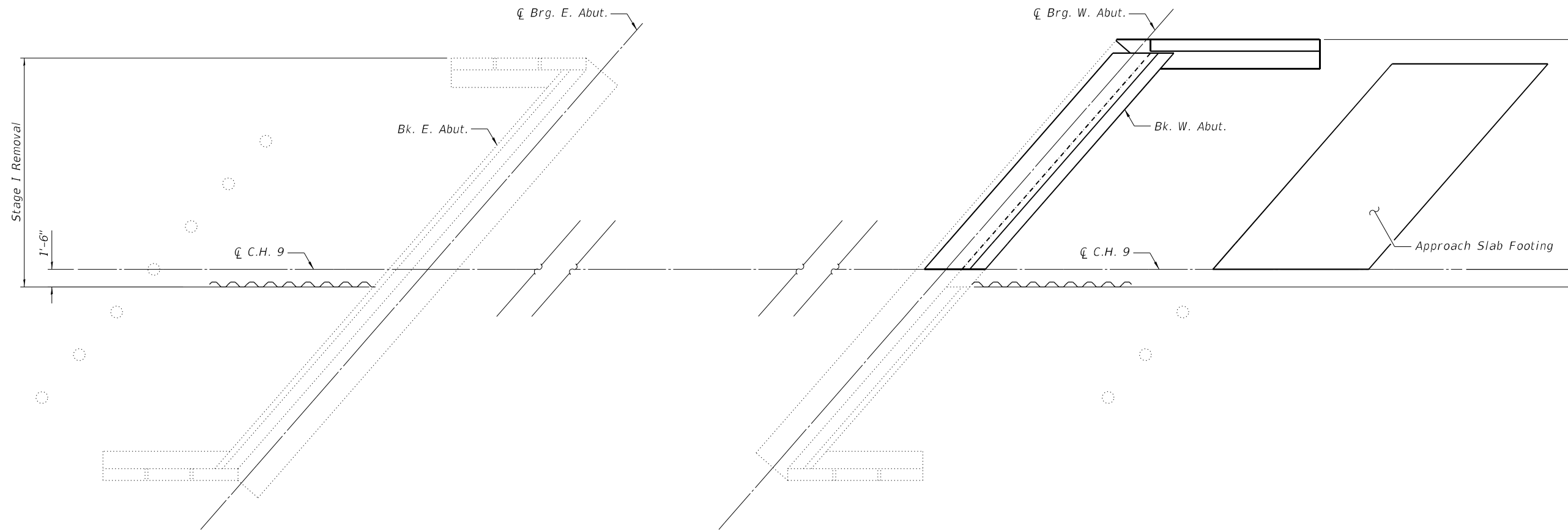
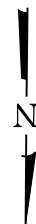
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**SUBSTRUCTURE LAYOUT  
STRUCTURE NO. 038-0076**

SHEET 6 OF 35 SHEETS

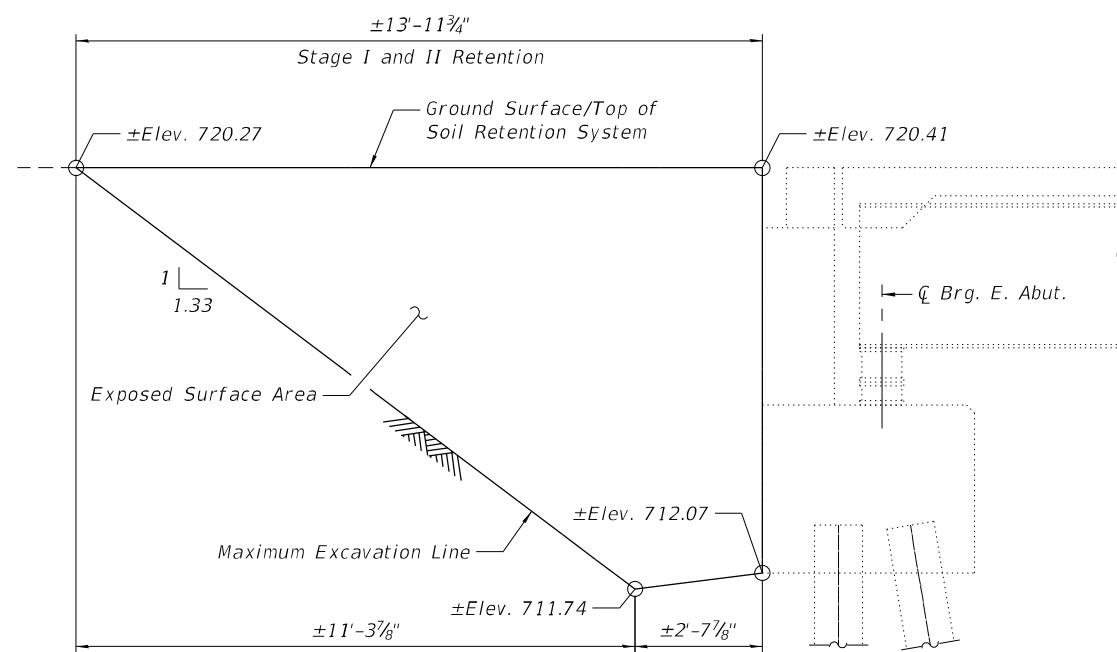
F.A.I. RTE. 57	SECTION (38-7HB-2)D	COUNTY IROQUOIS	TOTAL SHEETS 104	SHEET NO. 49
CONTRACT NO. 66E40				
ILLINOIS FED. AID PROJECT				

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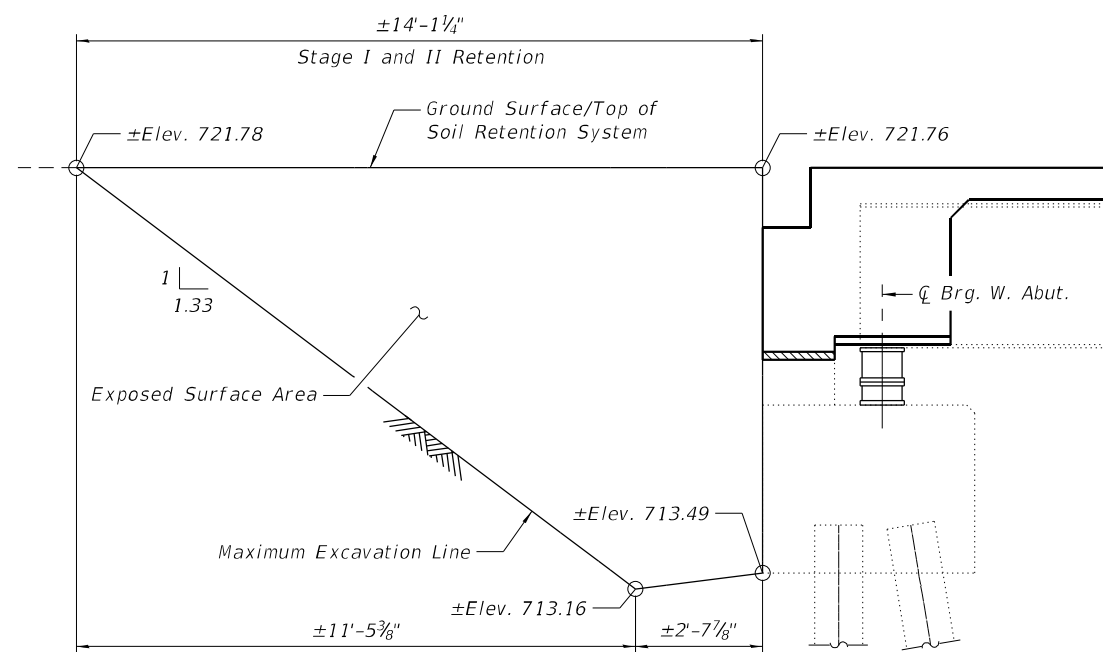


**PLAN - EAST ABUTMENT**  
 (Showing Condition for Stage I Removal)

**PLAN - WEST ABUTMENT**  
 (Showing Condition for Stage I Construction)



**ELEVATION - EAST ABUTMENT**  
 (Dimensions Measured Along  $\zeta$  TSRS)



**ELEVATION - WEST ABUTMENT**  
 (Dimensions Measured Along  $\zeta$  TSRS)

**NOTE**

A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.

**TEMPORARY SOIL RETENTION SYSTEM**

**BILL OF MATERIAL**

Item	Unit	Total
Temporary Soil Retention System	Sq. Ft.	144



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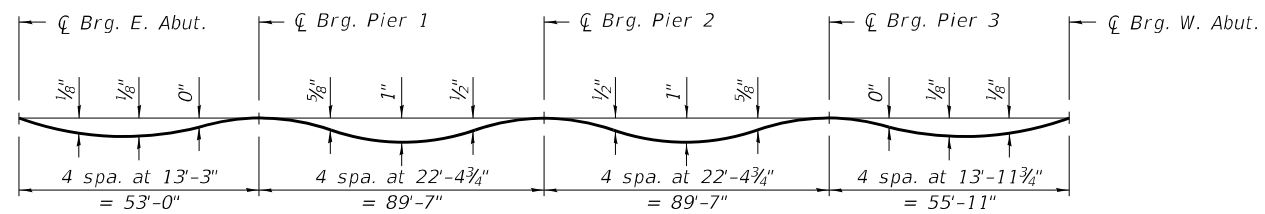
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TEMPORARY SOIL RETENTION SYSTEM  
 STRUCTURE NO. 038-0076

SHEET 7 OF 35 SHEETS

F.A.I. RTE. 57	SECTION (38-7HB-2)D	COUNTY IROQUOIS	TOTAL SHEETS 104	SHEET NO. 50
CONTRACT NO. 66E40				
ILLINOIS FED. AID PROJECT				



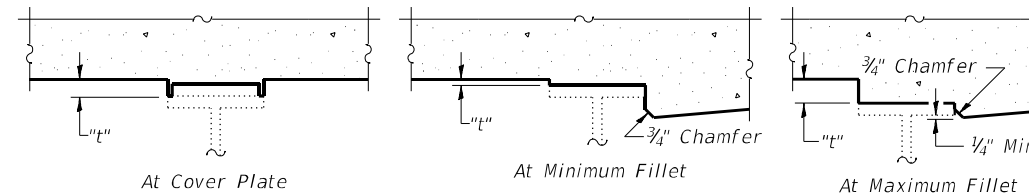


**DEAD LOAD DEFLECTION DIAGRAM**

(Includes weight of concrete only)

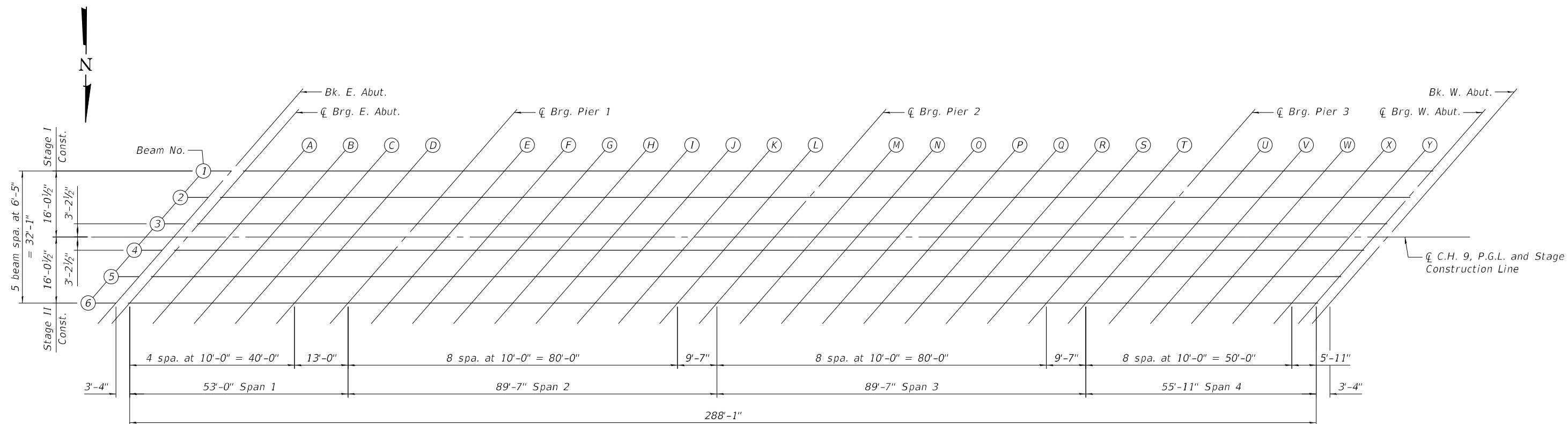
Note:

The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on sheets 9 thru 11 of 35.



To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown in tables, minus slab thickness, equals the fillet heights "t" above top flange of beams.

**FILLET HEIGHTS**



**PLAN**

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TOP OF SLAB ELEVATION PLAN  
 STRUCTURE NO. 038-0076

SHEET 8 OF 35 SHEETS

F.A.I. RTE. 57	SECTION (38-7HB-2)D	COUNTY IROQUOIS	TOTAL SHEETS 104	SHEET NO. 51
CONTRACT NO. 66E40				
ILLINOIS FED. AID PROJECT				

MODEL: Default  
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**BEAM 1**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. E. Abut.	28+67.58	-16.04	720.32	720.32
☉ Brg. E. Abut.	28+70.91	-16.04	720.36	720.36
A	28+80.91	-16.04	720.45	720.46
B	28+90.91	-16.04	720.54	720.55
C	29+00.91	-16.04	720.63	720.64
D	29+10.91	-16.04	720.72	720.71
☉ Brg. Pier 1	29+23.91	-16.04	720.82	720.82
E	29+33.91	-16.04	720.89	720.91
F	29+43.91	-16.04	720.96	721.01
G	29+53.91	-16.04	721.03	721.09
H	29+63.91	-16.04	721.09	721.16
I	29+73.91	-16.04	721.15	721.22
J	29+83.91	-16.04	721.21	721.26
K	29+93.91	-16.04	721.26	721.29
L	30+03.91	-16.04	721.31	721.31
☉ Brg. Pier 2	30+13.49	-16.04	721.35	721.35
M	30+23.49	-16.04	721.39	721.39
N	30+33.49	-16.04	721.42	721.45
O	30+43.49	-16.04	721.45	721.50
P	30+53.49	-16.04	721.48	721.54
Q	30+63.49	-16.04	721.50	721.57
R	30+73.49	-16.04	721.52	721.58
S	30+83.49	-16.04	721.54	721.57
T	30+93.49	-16.04	721.55	721.56
☉ Brg. Pier 3	31+03.08	-16.04	721.55	721.55
U	31+13.08	-16.04	721.56	721.56
V	31+23.08	-16.04	721.56	721.56
W	31+33.08	-16.04	721.55	721.56
X	31+43.08	-16.04	721.55	721.56
Y	31+53.08	-16.04	721.53	721.54
☉ Brg. W. Abut.	31+58.99	-16.04	721.52	721.52
Bk. W. Abut.	31+62.33	-16.04	721.52	721.52

**BEAM 2**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. E. Abut.	28+61.98	-9.63	720.39	720.39
☉ Brg. E. Abut.	28+65.31	-9.63	720.42	720.42
A	28+75.31	-9.63	720.52	720.52
B	28+85.31	-9.63	720.61	720.62
C	28+95.31	-9.63	720.70	720.70
D	29+05.31	-9.63	720.79	720.78
☉ Brg. Pier 1	29+18.31	-9.63	720.89	720.89
E	29+28.31	-9.63	720.97	720.99
F	29+38.31	-9.63	721.04	721.09
G	29+48.31	-9.63	721.11	721.18
H	29+58.31	-9.63	721.18	721.25
I	29+68.31	-9.63	721.24	721.31
J	29+78.31	-9.63	721.29	721.35
K	29+88.31	-9.63	721.35	721.38
L	29+98.31	-9.63	721.40	721.40
☉ Brg. Pier 2	30+07.90	-9.63	721.44	721.44
M	30+17.90	-9.63	721.48	721.49
N	30+27.90	-9.63	721.52	721.55
O	30+37.90	-9.63	721.55	721.61
P	30+47.90	-9.63	721.58	721.65
Q	30+57.90	-9.63	721.61	721.68
R	30+67.90	-9.63	721.63	721.69
S	30+77.90	-9.63	721.64	721.69
T	30+87.90	-9.63	721.66	721.68
☉ Brg. Pier 3	30+97.48	-9.63	721.67	721.67
U	31+07.48	-9.63	721.67	721.67
V	31+17.48	-9.63	721.68	721.68
W	31+27.48	-9.63	721.67	721.68
X	31+37.48	-9.63	721.67	721.68
Y	31+47.48	-9.63	721.66	721.66
☉ Brg. W. Abut.	31+53.40	-9.63	721.65	721.65
Bk. W. Abut.	31+56.73	-9.63	721.64	721.64

**BEAM 3**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. E. Abut.	28+56.38	-3.21	720.43	720.43
☉ Brg. E. Abut.	28+59.72	-3.21	720.46	720.46
A	28+69.72	-3.21	720.56	720.57
B	28+79.72	-3.21	720.65	720.66
C	28+89.72	-3.21	720.75	720.75
D	28+99.72	-3.21	720.84	720.83
☉ Brg. Pier 1	29+12.72	-3.21	720.94	720.94
E	29+22.72	-3.21	721.02	721.04
F	29+32.72	-3.21	721.10	721.14
G	29+42.72	-3.21	721.17	721.24
H	29+52.72	-3.21	721.24	721.32
I	29+62.72	-3.21	721.30	721.37
J	29+72.72	-3.21	721.36	721.42
K	29+82.72	-3.21	721.41	721.45
L	29+92.72	-3.21	721.47	721.47
☉ Brg. Pier 2	30+02.30	-3.21	721.51	721.51
M	30+12.30	-3.21	721.55	721.56
N	30+22.30	-3.21	721.59	721.63
O	30+32.30	-3.21	721.63	721.69
P	30+42.30	-3.21	721.66	721.73
Q	30+52.30	-3.21	721.69	721.76
R	30+62.30	-3.21	721.71	721.78
S	30+72.30	-3.21	721.73	721.77
T	30+82.30	-3.21	721.75	721.76
☉ Brg. Pier 3	30+91.88	-3.21	721.76	721.76
U	31+01.88	-3.21	721.77	721.76
V	31+11.88	-3.21	721.77	721.78
W	31+21.88	-3.21	721.77	721.78
X	31+31.88	-3.21	721.77	721.78
Y	31+41.88	-3.21	721.76	721.77
☉ Brg. W. Abut.	31+47.80	-3.21	721.75	721.75
Bk. W. Abut.	31+51.13	-3.21	721.75	721.75



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**TOP OF SLAB ELEVATION TABLES I  
 STRUCTURE NO. 038-0076**

SHEET 9 OF 35 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-7HB-2)D	IROQUOIS	104	52
CONTRACT NO. 66E40				
ILLINOIS FED. AID PROJECT				

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**☉ C.H. 9, P.G.L. AND STAGE CONSTRUCTION LINE**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. E. Abut.	28+53.58	0.00	720.45	720.45
☉ Brg. E. Abut.	28+56.92	0.00	720.48	720.48
A	28+66.92	0.00	720.58	720.59
B	28+76.92	0.00	720.68	720.68
C	28+86.92	0.00	720.77	720.77
D	28+96.92	0.00	720.86	720.86
☉ Brg. Pier 1	29+09.92	0.00	720.97	720.97
E	29+19.92	0.00	721.05	721.07
F	29+29.92	0.00	721.13	721.17
G	29+39.92	0.00	721.20	721.27
H	29+49.92	0.00	721.27	721.34
I	29+59.92	0.00	721.33	721.41
J	29+69.92	0.00	721.39	721.45
K	29+79.92	0.00	721.45	721.48
L	29+89.92	0.00	721.50	721.51
☉ Brg. Pier 2	29+99.50	0.00	721.55	721.55
M	30+09.50	0.00	721.59	721.60
N	30+19.50	0.00	721.63	721.66
O	30+29.50	0.00	721.67	721.72
P	30+39.50	0.00	721.70	721.77
Q	30+49.50	0.00	721.73	721.81
R	30+59.50	0.00	721.75	721.82
S	30+69.50	0.00	721.77	721.82
T	30+79.50	0.00	721.79	721.81
☉ Brg. Pier 3	30+89.08	0.00	721.80	721.80
U	30+99.08	0.00	721.81	721.81
V	31+09.08	0.00	721.82	721.82
W	31+19.08	0.00	721.82	721.83
X	31+29.08	0.00	721.82	721.83
Y	31+39.08	0.00	721.81	721.82
☉ Brg. W. Abut.	31+45.00	0.00	721.80	721.80
Bk. W. Abut.	31+48.33	0.00	721.80	721.80

**BEAM 4**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. E. Abut.	28+50.78	3.21	720.37	720.37
☉ Brg. E. Abut.	28+54.12	3.21	720.40	720.40
A	28+64.12	3.21	720.50	720.51
B	28+74.12	3.21	720.60	720.61
C	28+84.12	3.21	720.70	720.70
D	28+94.12	3.21	720.79	720.78
☉ Brg. Pier 1	29+07.12	3.21	720.90	720.90
E	29+17.12	3.21	720.98	721.00
F	29+27.12	3.21	721.06	721.10
G	29+37.12	3.21	721.13	721.20
H	29+47.12	3.21	721.20	721.28
I	29+57.12	3.21	721.26	721.34
J	29+67.12	3.21	721.33	721.38
K	29+77.12	3.21	721.38	721.42
L	29+87.12	3.21	721.44	721.45
☉ Brg. Pier 2	29+96.70	3.21	721.48	721.48
M	30+06.70	3.21	721.53	721.54
N	30+16.70	3.21	721.57	721.60
O	30+26.70	3.21	721.61	721.67
P	30+36.70	3.21	721.64	721.72
Q	30+46.70	3.21	721.67	721.75
R	30+56.70	3.21	721.70	721.76
S	30+66.70	3.21	721.72	721.76
T	30+76.70	3.21	721.74	721.76
☉ Brg. Pier 3	30+86.28	3.21	721.75	721.75
U	30+96.28	3.21	721.76	721.76
V	31+06.28	3.21	721.77	721.77
W	31+16.28	3.21	721.77	721.78
X	31+26.28	3.21	721.77	721.78
Y	31+36.28	3.21	721.76	721.77
☉ Brg. W. Abut.	31+42.20	3.21	721.76	721.76
Bk. W. Abut.	31+45.53	3.21	721.76	721.76

**BEAM 5**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. E. Abut.	28+45.19	9.63	720.22	720.22
☉ Brg. E. Abut.	28+48.52	9.63	720.25	720.25
A	28+58.52	9.63	720.35	720.36
B	28+68.52	9.63	720.45	720.46
C	28+78.52	9.63	720.55	720.55
D	28+88.52	9.63	720.64	720.64
☉ Brg. Pier 1	29+01.52	9.63	720.75	720.75
E	29+11.52	9.63	720.84	720.86
F	29+21.52	9.63	720.92	720.96
G	29+31.52	9.63	720.99	721.06
H	29+41.52	9.63	721.06	721.14
I	29+51.52	9.63	721.13	721.21
J	29+61.52	9.63	721.20	721.25
K	29+71.52	9.63	721.26	721.29
L	29+81.52	9.63	721.31	721.32
☉ Brg. Pier 2	29+91.10	9.63	721.36	721.36
M	30+01.10	9.63	721.41	721.42
N	30+11.10	9.63	721.45	721.48
O	30+21.10	9.63	721.49	721.55
P	30+31.10	9.63	721.53	721.60
Q	30+41.10	9.63	721.56	721.64
R	30+51.10	9.63	721.59	721.65
S	30+61.10	9.63	721.61	721.66
T	30+71.10	9.63	721.63	721.65
☉ Brg. Pier 3	30+80.69	9.63	721.65	721.65
U	30+90.69	9.63	721.66	721.66
V	31+00.69	9.63	721.67	721.67
W	31+10.69	9.63	721.67	721.69
X	31+20.69	9.63	721.67	721.69
Y	31+30.69	9.63	721.67	721.68
☉ Brg. W. Abut.	31+36.60	9.63	721.67	721.67
Bk. W. Abut.	31+39.94	9.63	721.66	721.66



USER NAME =	_____
PLOT SCALE =	N.T.S.
PLOT DATE =	08/10/2023

DESIGNED -	P. SARICH
CHECKED -	I. LOPEZ
DRAWN -	P. SARICH
CHECKED -	I. LOPEZ

REVISED -	_____
REVISED -	_____
REVISED -	_____
REVISED -	_____

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATION TABLES II  
 STRUCTURE NO. 038-0076**

SHEET 10 OF 35 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-7HB-2)D	IROQUOIS	104	53
CONTRACT NO. 66E40				
ILLINOIS FED. AID PROJECT				

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**BEAM 6**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. E. Abut.	28+39.59	16.04	720.05	720.05
☉ Brg. E. Abut.	28+42.92	16.04	720.08	720.08
A	28+52.92	16.04	720.18	720.18
B	28+62.92	16.04	720.28	720.29
C	28+72.92	16.04	720.38	720.38
D	28+82.92	16.04	720.47	720.47
☉ Brg. Pier 1	28+95.92	16.04	720.59	720.59
E	29+05.92	16.04	720.68	720.69
F	29+15.92	16.04	720.76	720.80
G	29+25.92	16.04	720.83	720.90
H	29+35.92	16.04	720.91	720.98
I	29+45.92	16.04	720.98	721.05
J	29+55.92	16.04	721.04	721.10
K	29+65.92	16.04	721.11	721.14
L	29+75.92	16.04	721.16	721.17
☉ Brg. Pier 2	29+85.51	16.04	721.22	721.22
M	29+95.51	16.04	721.27	721.27
N	30+05.51	16.04	721.31	721.34
O	30+15.51	16.04	721.35	721.41
P	30+25.51	16.04	721.39	721.46
Q	30+35.51	16.04	721.43	721.50
R	30+45.51	16.04	721.46	721.52
S	30+55.51	16.04	721.48	721.52
T	30+65.51	16.04	721.51	721.52
☉ Brg. Pier 3	30+75.09	16.04	721.52	721.52
U	30+85.09	16.04	721.54	721.54
V	30+95.09	16.04	721.55	721.55
W	31+05.09	16.04	721.56	721.57
X	31+15.09	16.04	721.56	721.57
Y	31+25.09	16.04	721.56	721.56
☉ Brg. W. Abut.	31+31.01	16.04	721.55	721.55
Bk. W. Abut.	31+34.34	16.04	721.55	721.55



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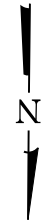
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATION TABLES III  
 STRUCTURE NO. 038-0076**

SHEET 11 OF 35 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-7HB-2)D	IROQUOIS	104	54
CONTRACT NO. 66E40				
ILLINOIS FED. AID PROJECT				

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SOUTH EDGE OF SHOULDER

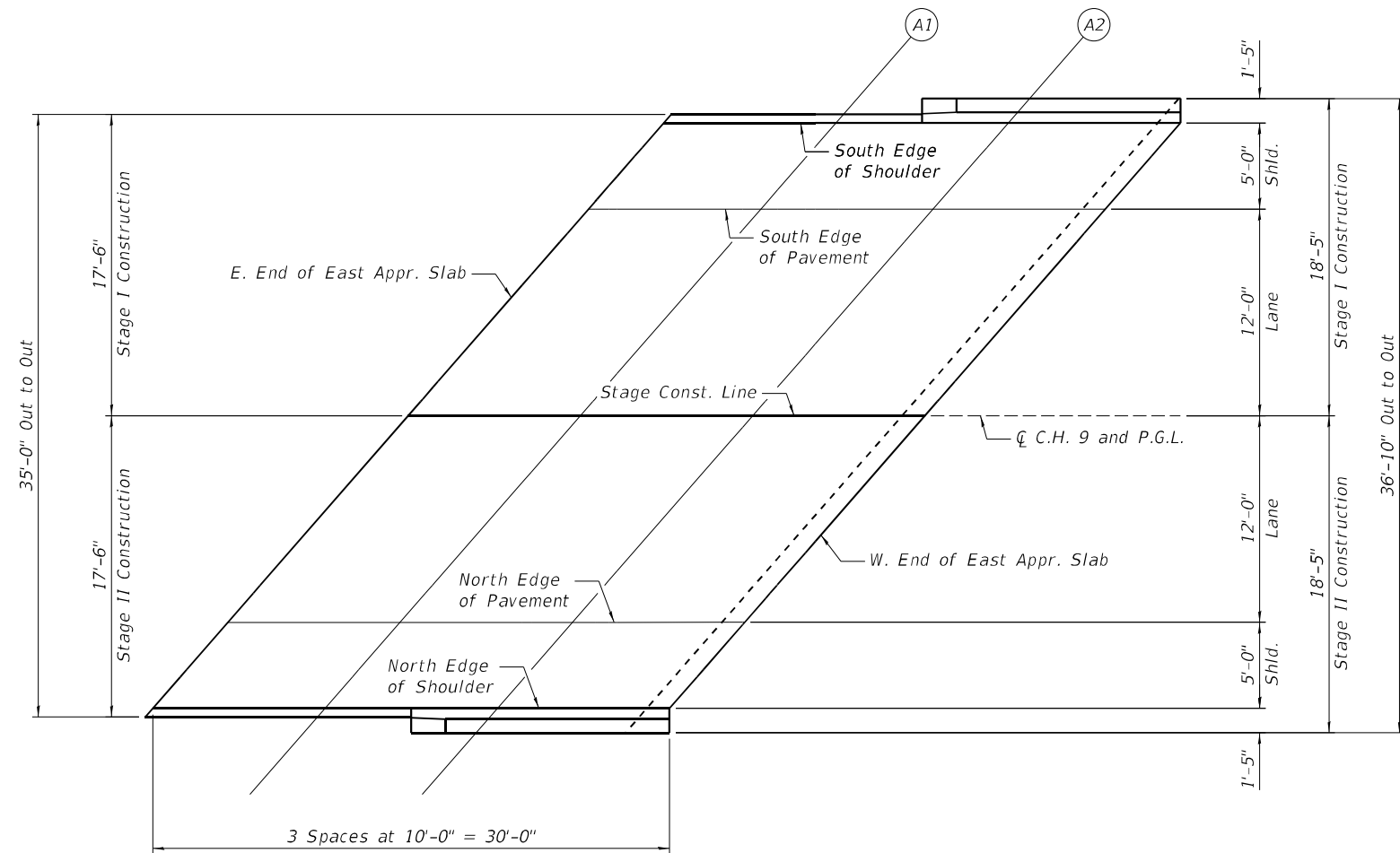
Location	Station	Offset	Theoretical Grade Elevations
E. End East Appr. Slab	28+39.74	-17.00	720.03
A1	28+49.74	-17.00	720.13
A2	28+59.74	-17.00	720.23
W. End East Appr. Slab	28+69.74	-17.00	720.33

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
E. End East Appr. Slab	28+35.38	-12.00	720.08
A1	28+45.38	-12.00	720.18
A2	28+55.38	-12.00	720.28
W. End East Appr. Slab	28+65.38	-12.00	720.38

∅ C.H. 9, P.G.L. AND STAGE CONSTRUCTION LINE

Location	Station	Offset	Theoretical Grade Elevations
E. End East Appr. Slab	28+24.91	0.00	720.16
A1	28+34.91	0.00	720.26
A2	28+44.91	0.00	720.36
W. End East Appr. Slab	28+54.91	0.00	720.46



PLAN

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
E. End East Appr. Slab	28+14.42	12.00	719.87
A1	28+24.43	12.00	719.97
A2	28+34.44	12.00	720.07
W. End East Appr. Slab	28+44.44	12.00	720.17

NORTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
E. End East Appr. Slab	28+10.07	16.98	719.73
A1	28+20.07	16.99	719.83
A2	28+30.08	17.00	719.93
W. End East Appr. Slab	28+40.08	17.00	720.03



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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

TOP OF EAST APPROACH SLAB ELEVATIONS  
 STRUCTURE NO. 038-0076

SHEET 12 OF 35 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-7HB-2)D	IROQUOIS	104	55
CONTRACT NO. 66E40				
ILLINOIS FED. AID PROJECT				

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
E. End West Appr. Slab	31+61.83	-17.00	721.50
B1	31+71.83	-17.00	721.48
B2	31+81.83	-17.00	721.46
W. End West Appr. Slab	31+91.83	-17.00	721.43

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
E. End West Appr. Slab	31+57.47	-12.00	721.61
B1	31+67.47	-12.00	721.59
B2	31+77.47	-12.00	721.57
W. End West Appr. Slab	31+87.47	-12.00	721.54

∅ C.H. 9, P.G.L. AND STAGE CONSTRUCTION LINE

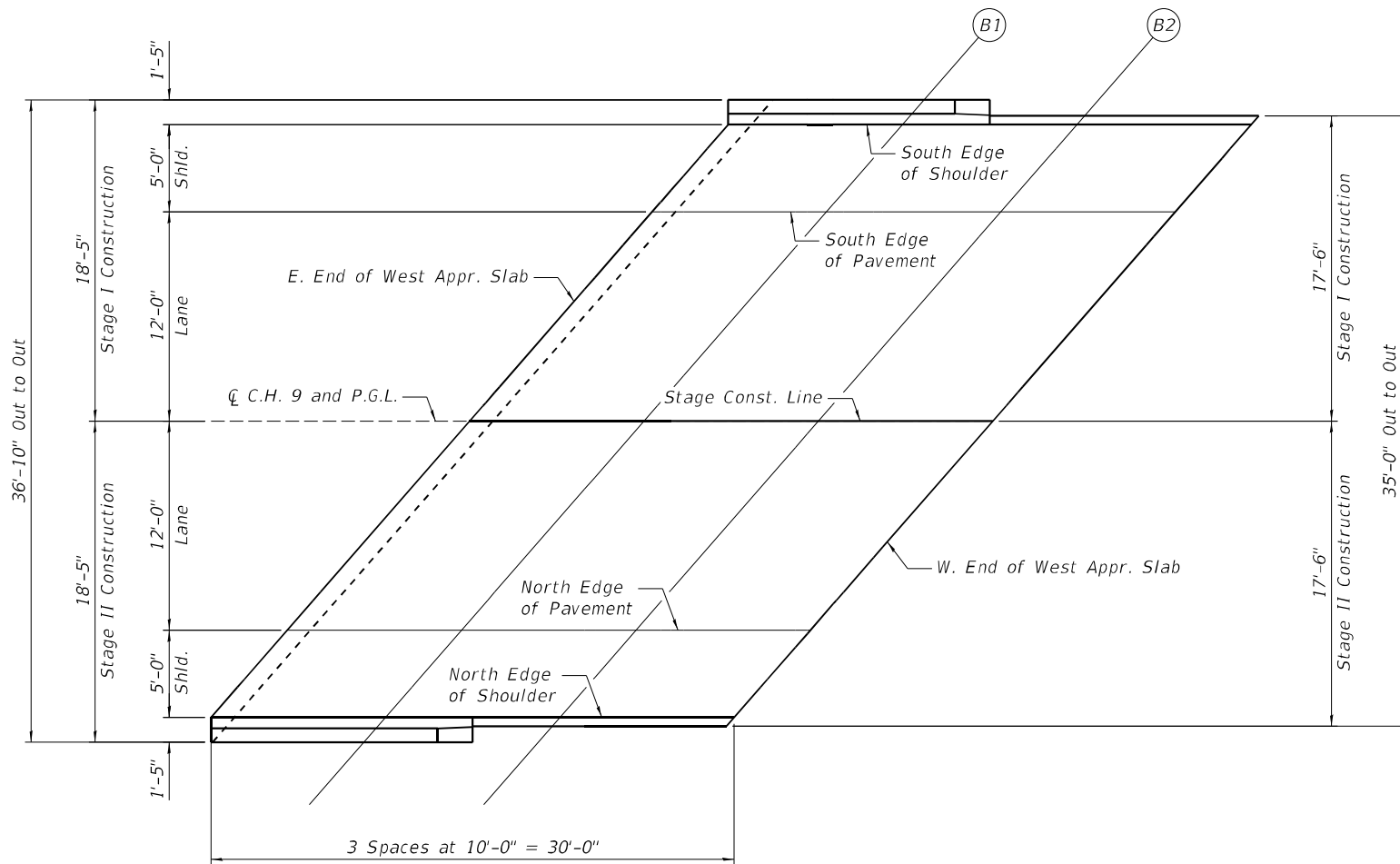
Location	Station	Offset	Theoretical Grade Elevations
E. End West Appr. Slab	31+47.01	00.00	721.80
B1	31+57.01	00.00	721.79
B2	31+67.01	00.00	721.77
W. End West Appr. Slab	31+77.01	00.00	721.75

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
E. End West Appr. Slab	31+36.54	12.00	721.63
B1	31+46.54	12.00	721.62
B2	31+56.54	12.00	721.61
W. End West Appr. Slab	31+66.54	12.00	721.59

NORTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
E. End West Appr. Slab	31+32.18	17.00	721.53
B1	31+42.18	17.00	721.53
B2	31+52.18	17.00	721.51
W. End West Appr. Slab	31+62.18	17.00	721.50



PLAN

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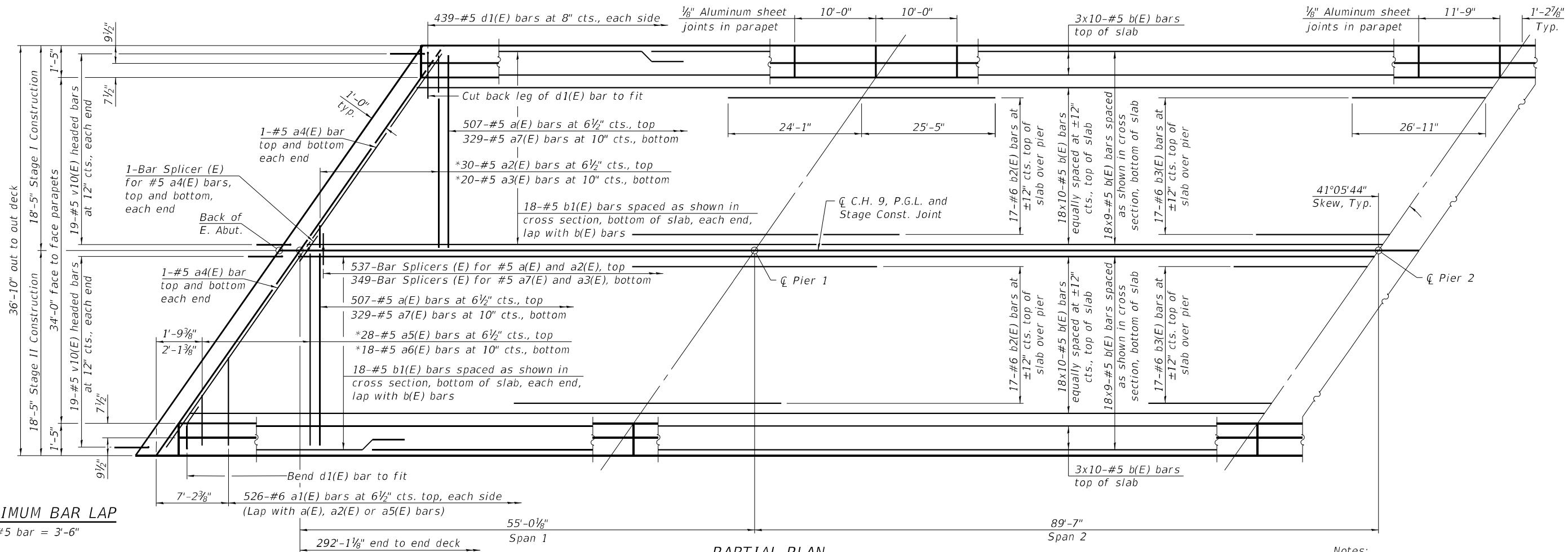
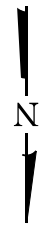
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TOP OF WEST APPROACH SLAB ELEVATIONS  
STRUCTURE NO. 038-0076

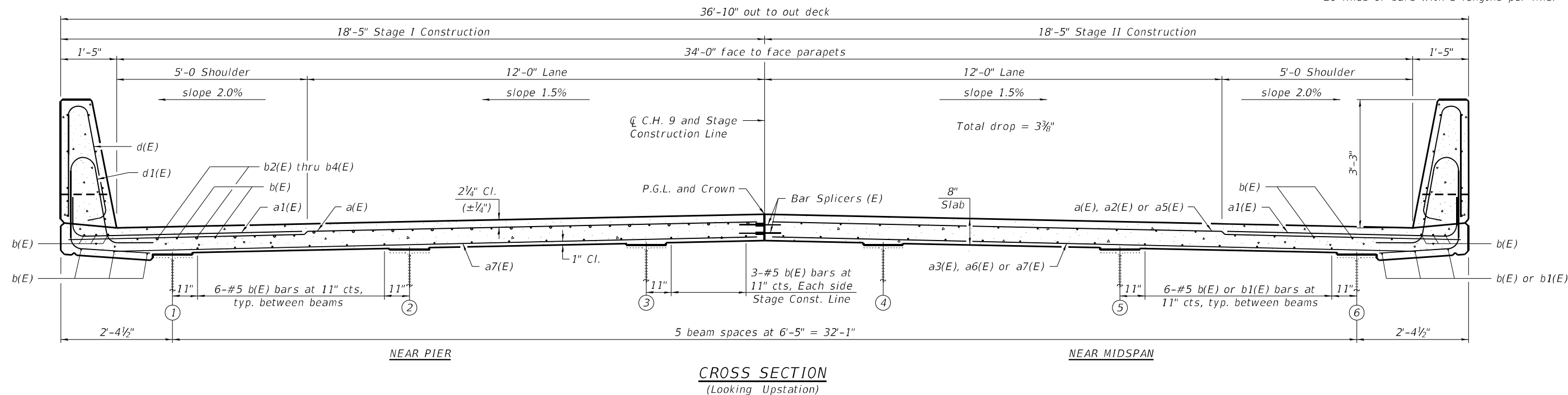
SHEET 13 OF 35 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-7HB-2)D	IROQUOIS	104	56
CONTRACT NO. 66E40				
ILLINOIS FED. AID PROJECT				



\* See Field Cutting Diagrams on sheet 19 of 35.

Notes:  
See sheet 19 of 35 for superstructure details and Bill of Material.  
Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.



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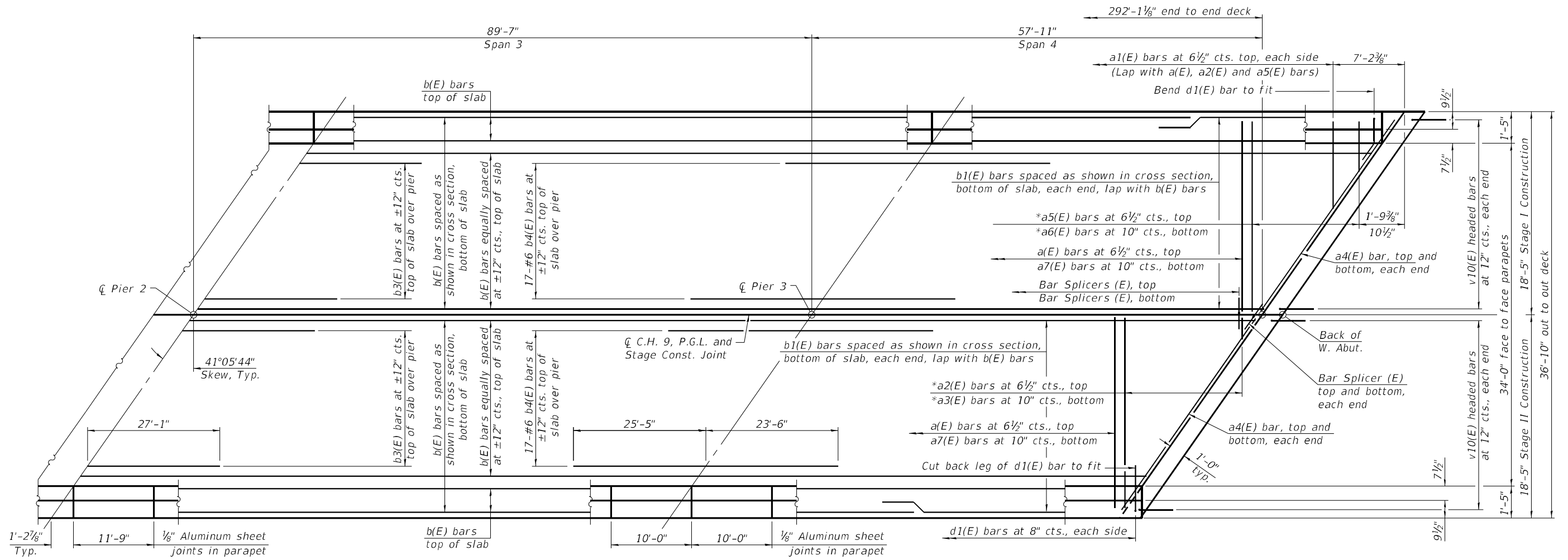
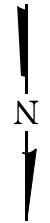
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SUPERSTRUCTURE PLAN I**  
**STRUCTURE NO. 038-0076**

SHEET 14 OF 35 SHEETS

F.A.I. RTE. 57	SECTION (38-7HB-2)D	COUNTY IROQUOIS	TOTAL SHEETS 104	SHEET NO. 57
CONTRACT NO. 66E40				
ILLINOIS FED. AID PROJECT				

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PARTIAL PLAN



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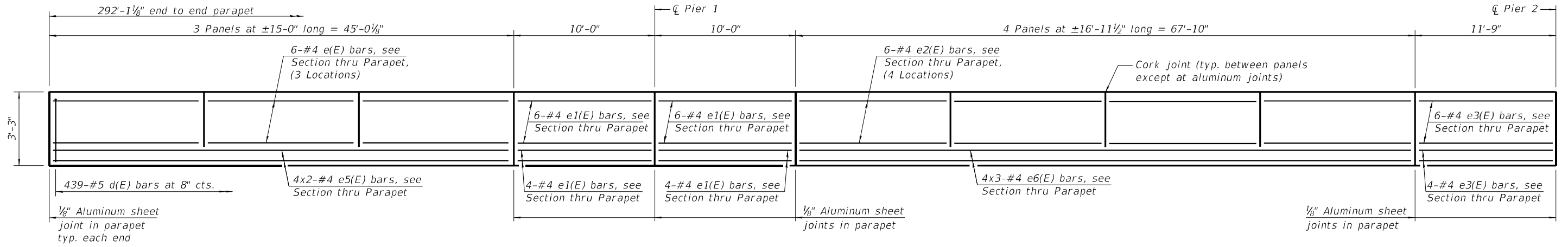
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE PLAN II  
 STRUCTURE NO. 038-0076

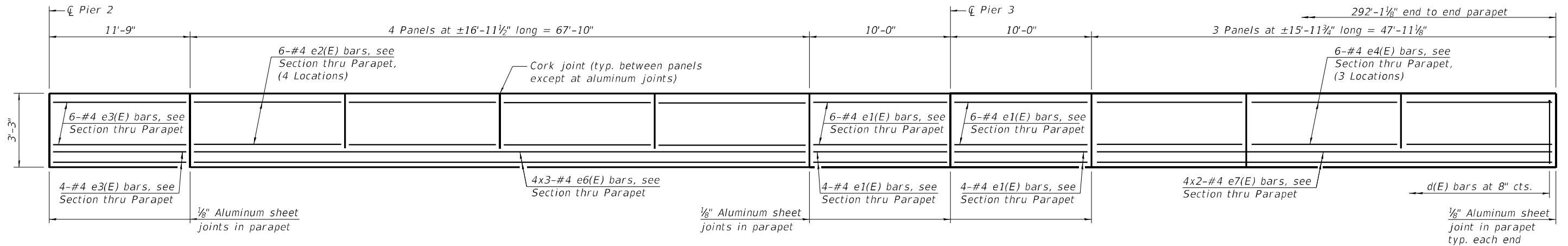
SHEET 15 OF 35 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-7HB-2)D	IROQUOIS	104	58
CONTRACT NO. 66E40				
ILLINOIS FED. AID PROJECT				





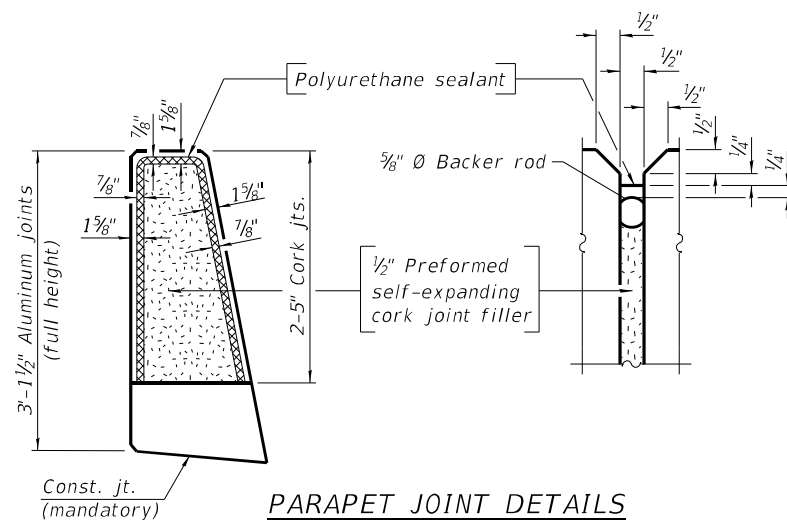
INSIDE ELEVATION OF PARAPET



INSIDE ELEVATION OF PARAPET

MINIMUM BAR LAP

#4 bar = 2'-5"



Notes:

The 1/8" aluminum sheet shall be ASTM B 209 alloy 3003-H14 and coated to minimize reaction with wet concrete. Cost included with Concrete Superstructure.  
The polyurethane sealant shall be according to Article 1050.04 of the Std. Spec. and the color shall be gray.

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PLOT DATE = 08/10/2023	DRAWN - P. SARICH	REVISED -
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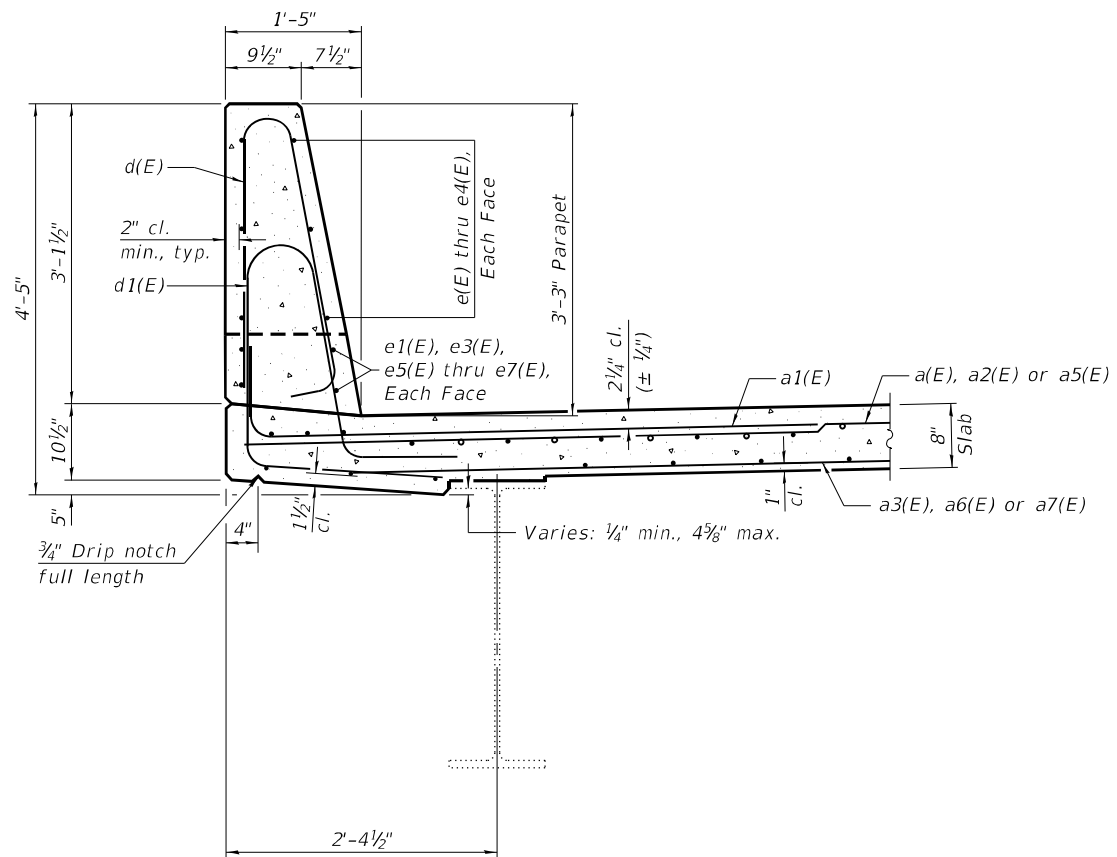
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS I  
STRUCTURE NO. 038-0076

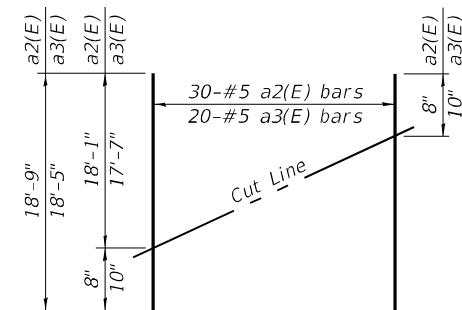
SHEET 16 OF 35 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-7HB-2)D	IROQUOIS	104	59
CONTRACT NO. 66E40				
ILLINOIS FED. AID PROJECT				

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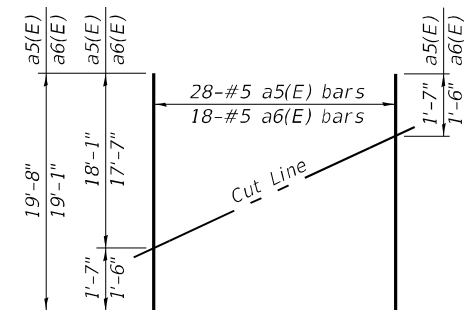


SECTION THRU PARAPET



FIELD CUTTING DIAGRAM

Order a2(E) and a3(E) bars full length.  
 Cut as shown and use remainder of bars in opposite end of deck.



FIELD CUTTING DIAGRAM

Order a5(E) and a6(E) bars full length.  
 Cut as shown and use remainder of bars in opposite end of deck.

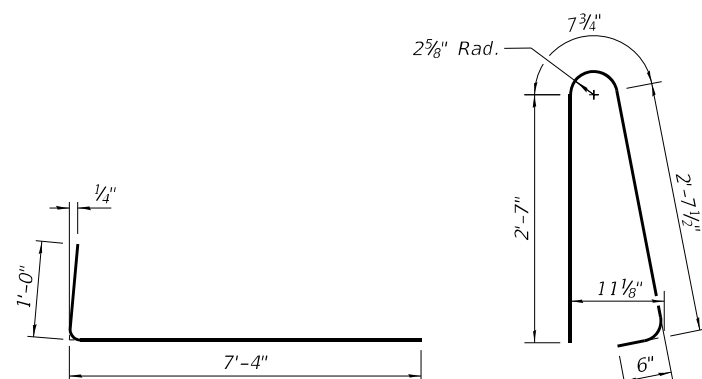
SUPERSTRUCTURE  
 BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	1014	#5	18'-1"	—
a1(E)	1052	#6	8'-4"	—
a2(E)	30	#5	18'-9"	—
a3(E)	20	#5	18'-5"	—
a4(E)	8	#5	24'-0"	—
a5(E)	28	#5	19'-8"	—
a6(E)	18	#5	19'-1"	—
a7(E)	658	#5	17'-7"	—
b(E)	744	#5	32'-4"	—
b1(E)	72	#5	19'-8"	—
b2(E)	34	#6	49'-6"	—
b3(E)	34	#6	54'-0"	—
b4(E)	34	#6	48'-11"	—
d(E)	878	#5	6'-5"	—
d1(E)	878	#5	7'-9"	—
e(E)	36	#4	14'-8"	—
e1(E)	80	#4	9'-8"	—
e2(E)	96	#4	16'-7"	—
e3(E)	40	#4	11'-5"	—
e4(E)	36	#4	15'-7"	—
e5(E)	16	#4	23'-7"	—
e6(E)	48	#4	24'-2"	—
e7(E)	16	#4	25'-1"	—
m10(E)	24	#6	24'-0"	—
m11(E)	32	#6	8'-0"	—
m12(E)	16	#6	2'-6"	—
m13(E)	16	#6	3'-10"	—
m14(E)	8	#4	24'-0"	—
s10(E)	84	#5	8'-8"	—
s11(E)	72	#5	12'-5"	—
u10(E)	84	#5	3'-10"	—
v10(E)	76	#5	3'-1"	—
Concrete Superstructure		Cu. Yd.	395.0	
Bridge Deck Grooving		Sq. Yd.	1,039	
Protective Coat		Sq. Yd.	1,370	
Reinforcement Bars, Epoxy Coated		Lbs.	101,500	

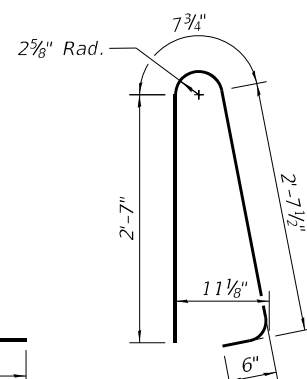
Bars indicated thus 1x2-#4 etc. indicates 1 line of bars with 2 lengths per line.

NOTE

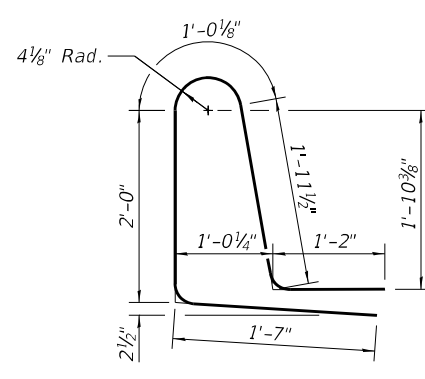
1. Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.



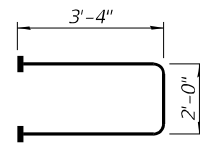
BAR a1(E)



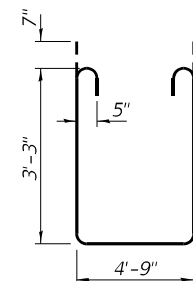
BAR d(E)



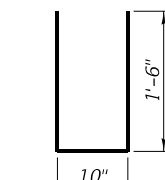
BAR d1(E)



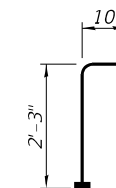
BAR s10(E)  
(Headed)



BAR s11(E)



BAR u10(E)



BAR v10(E)  
(Headed)



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 REVISED - \_\_\_\_\_  
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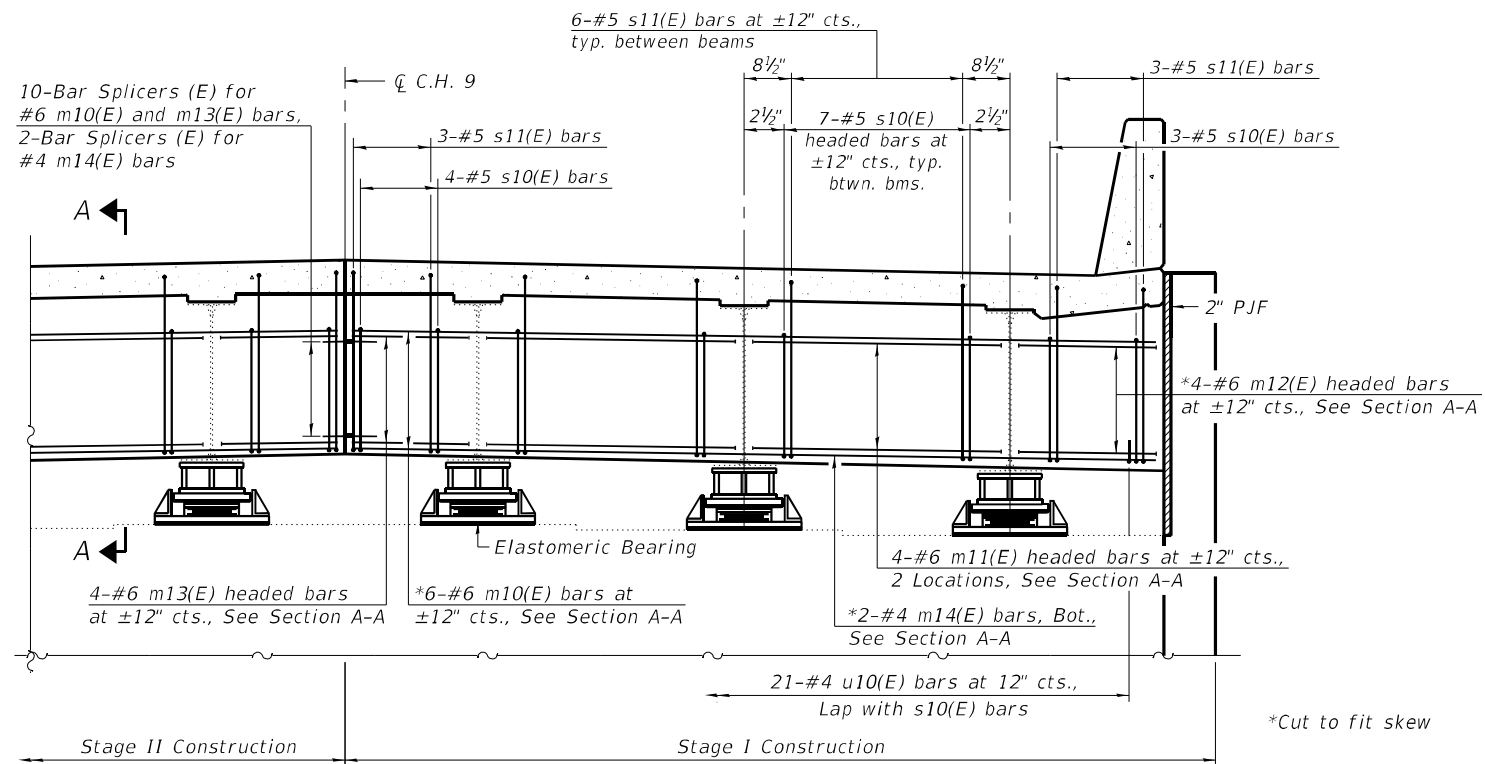
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS II  
 STRUCTURE NO. 038-0076

SHEET 17 OF 35 SHEETS

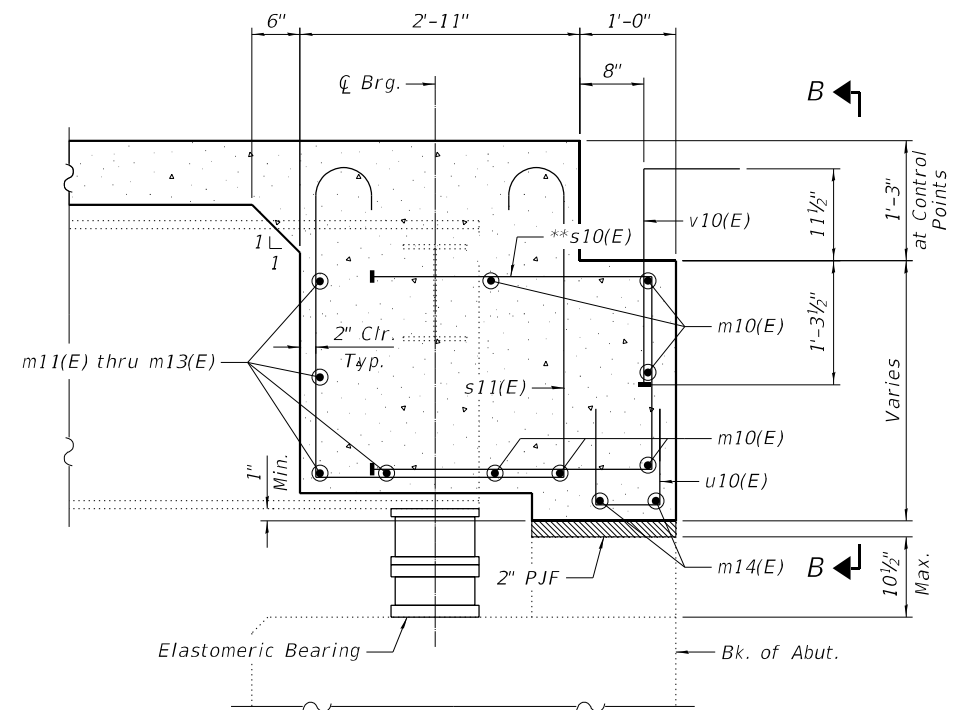
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-7HB-2)D	IROQUOIS	104	60
CONTRACT NO. 66E40				
ILLINOIS FED. AID PROJECT				

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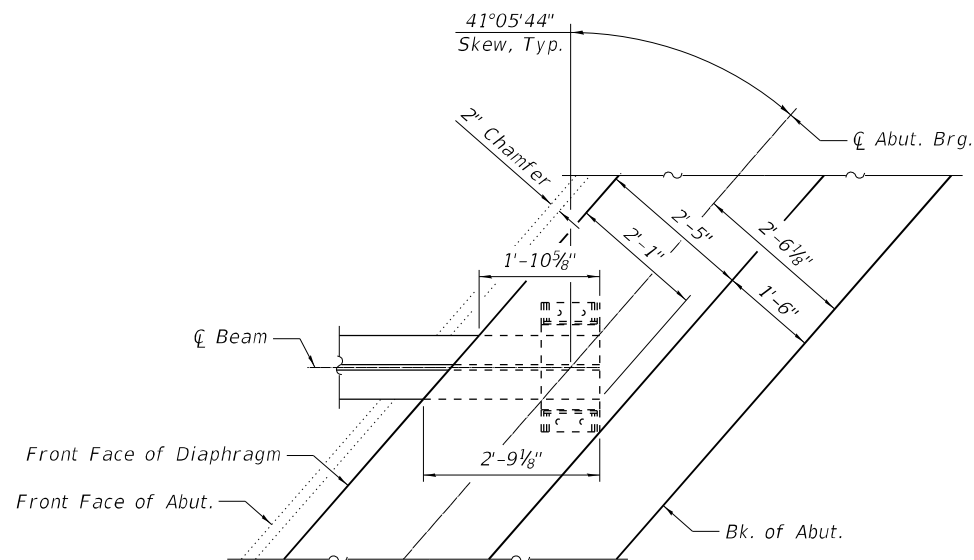
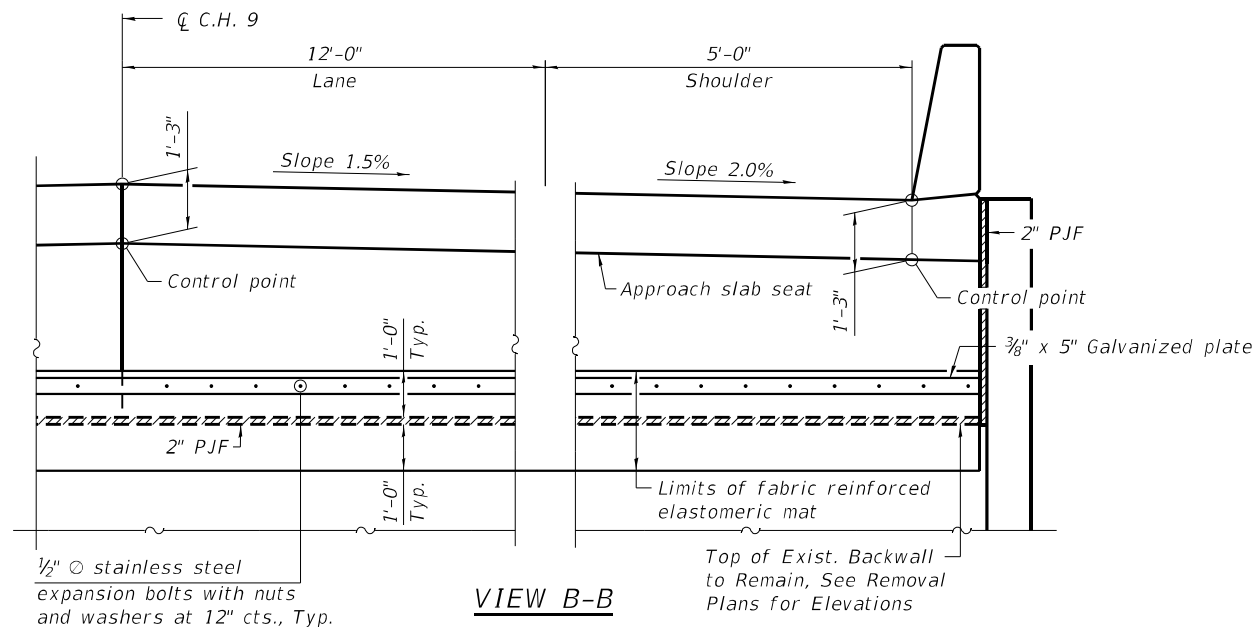
**DIAPHRAGM AT ABUTMENT**

(Stage I Reinforcement Shown, Stage II Similar but Mirrored)



**SECTION A-A**  
(Dimension at Rt. L's)

\*\*Drill holes in existing steel diaphragm for placement of s10(E) bars. Cost included with Reinforcement Bars, Epoxy Coated.



**PLAN AT ABUTMENT**  
(Showing bottom flange of beam)

**NOTES**

1. See sheet 17 of 35 for superstructure details and Bill of Material.
2. The s10(E), s11(E), u10(E) and v10(E) bars shall be placed parallel to the beams. Spacing for these bars shall be at right angles to the beams.
3. The approach slab seat shall have a constant slope determined from the control points shown.

DIA-SB-L

06-15-2019



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PLOT DATE = 08/10/2023	DRAWN - P. SARICH	REVISED -
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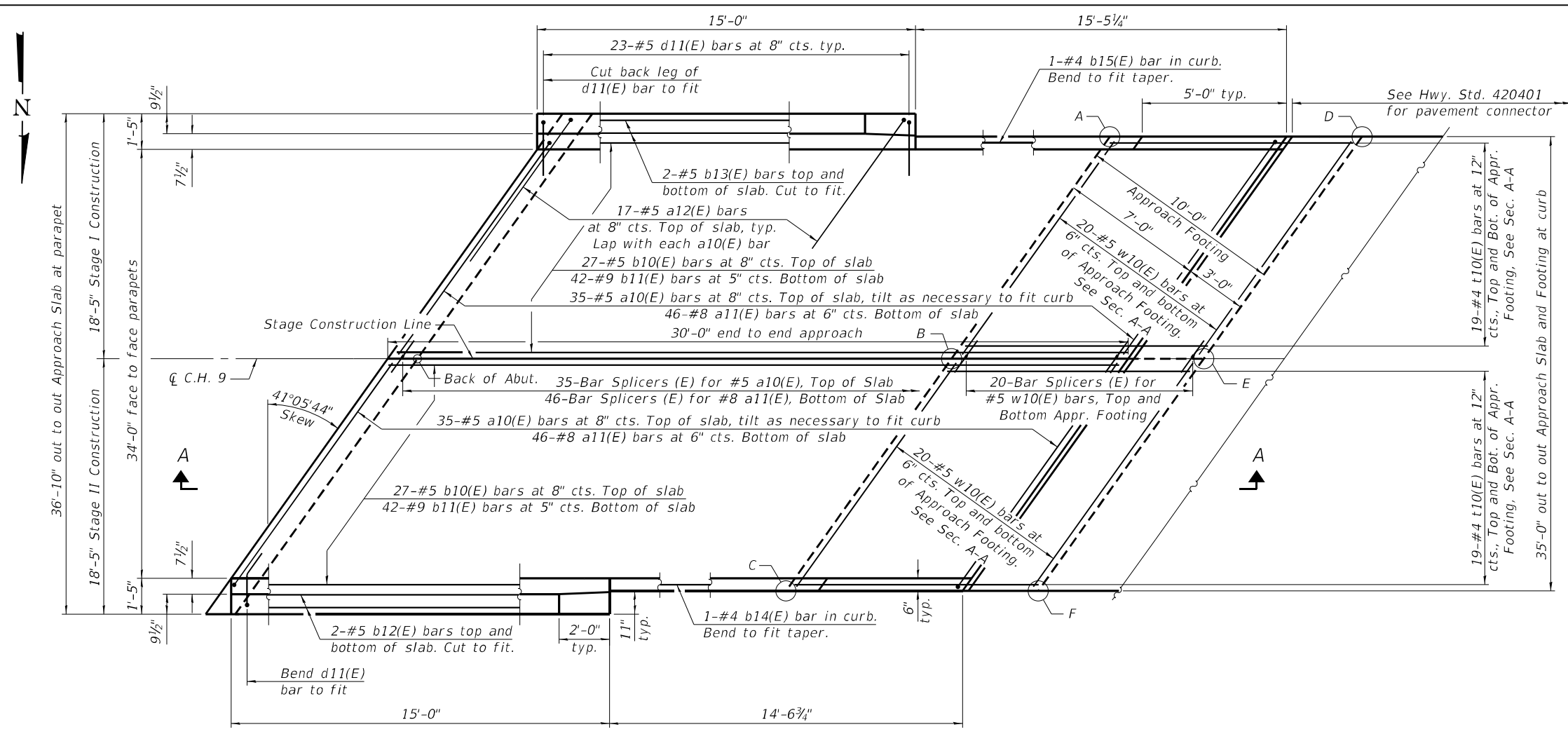
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DIAPHRAGM DETAILS  
STRUCTURE NO. 038-0076

SHEET 18 OF 35 SHEETS

F.A.I. RTE. 57	SECTION (38-7HB-2)D	COUNTY IROQUOIS	TOTAL SHEETS 104	SHEET NO. 61
CONTRACT NO. 66E40				
ILLINOIS FED. AID PROJECT				

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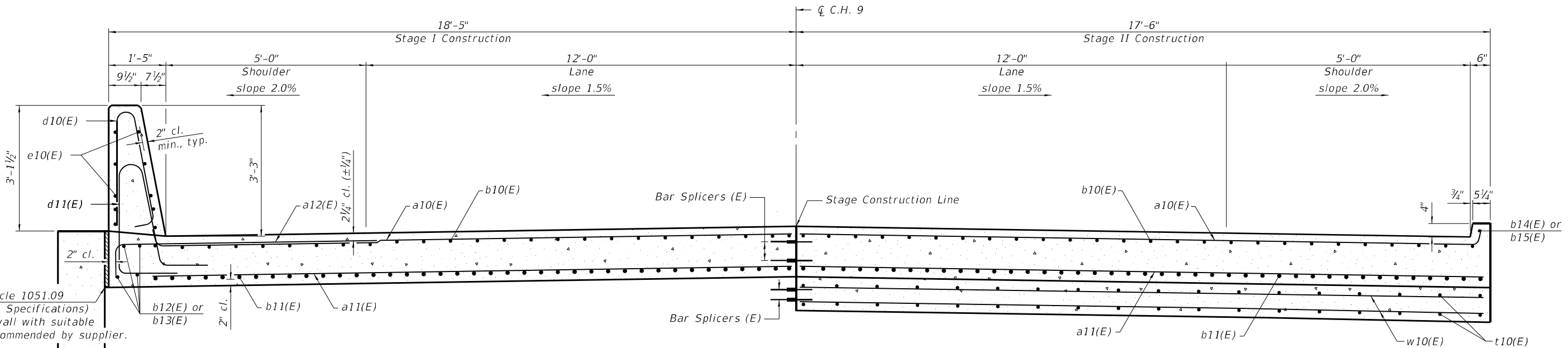


**PLAN**

(West Approach Slab Shown, East Approach Slab Similar by 180° Rotation)

**TOP AND BOTTOM ELEVATIONS FOR APPROACH FOOTINGS**

	East Approach		West Approach		
Point/Location	Top	Bottom	Point/Location	Top	Bottom
A	718.86	718.03	A	720.19	719.36
B	719.00	718.17	B	720.52	719.68
C	718.56	717.73	C	720.25	719.42
D	718.73	717.90	D	720.15	719.32
E	718.87	718.04	E	720.49	719.65
F	718.43	717.59	F	720.23	719.40



**CROSS SECTION**

(Looking Upstation)

AT APPROACH FOOTING



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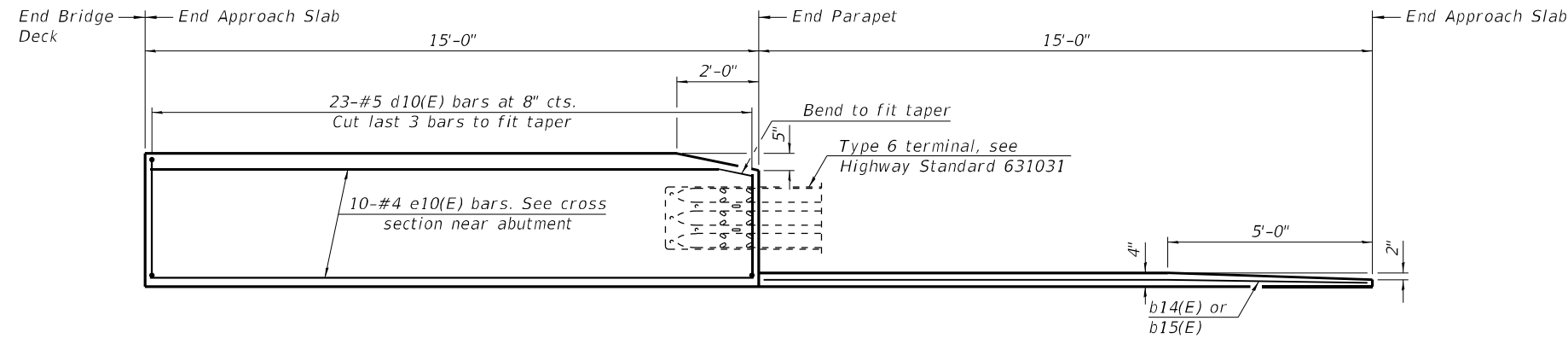
REVISED - \_\_\_\_\_  
 REVISED - \_\_\_\_\_  
 REVISED - \_\_\_\_\_  
 REVISED - \_\_\_\_\_

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 DEPARTMENT OF TRANSPORTATION**

**APPROACH SLAB PLAN  
 STRUCTURE NO. 038-0076**

SHEET 19 OF 35 SHEETS

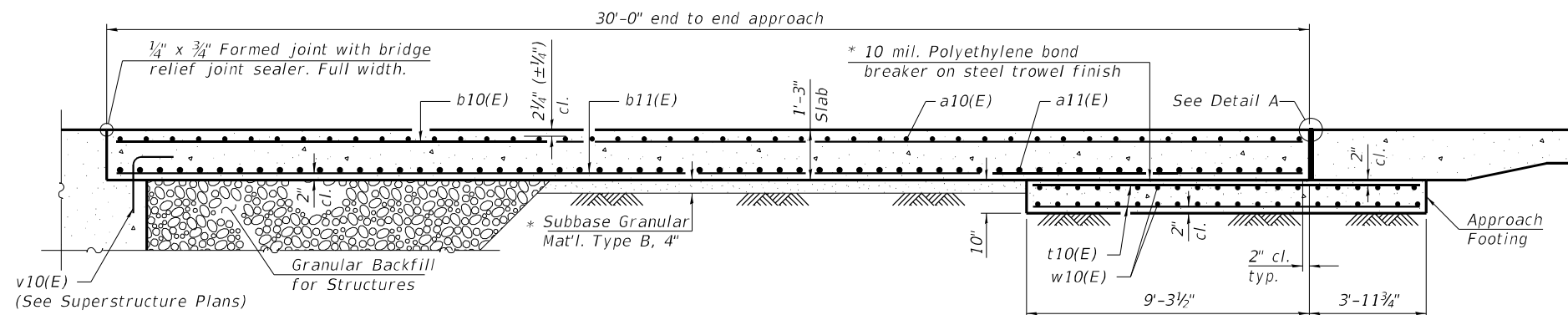
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-7HB-2)D	IROQUOIS	104	62
CONTRACT NO. 66E40				
ILLINOIS FED. AID PROJECT				



INSIDE ELEVATION OF PARAPET AND CURB

Notes:

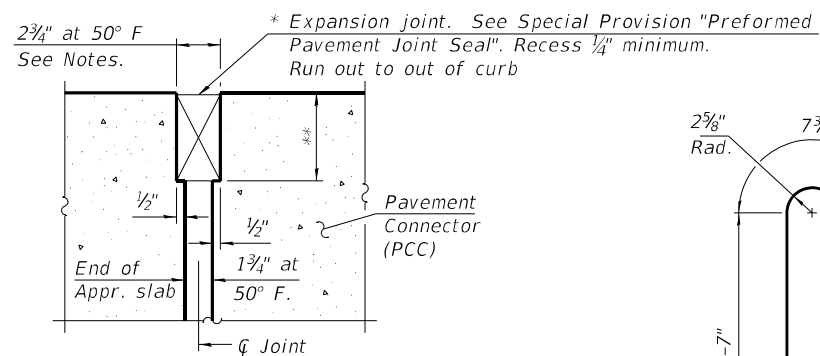
The joint opening shall be adjusted for temperature per Article 520.04 of the Standard Specifications. However, since this detail is for jointless structures, the length of bridge used to calculate the adjustment shall be equal to half the total bridge length plus the length of the bridge approach slab.  
 Parapet concrete shall be paid for as Concrete Superstructure.  
 Approach slab shall be paid for as Concrete Superstructure (Approach Slab).  
 Approach footing concrete shall be paid for as Concrete Structures.  
 The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.  
 Cost of excavation for approach footing included with Concrete Structures.  
 For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 35.



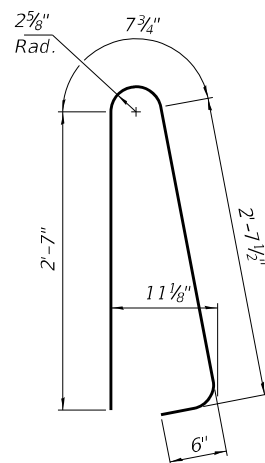
SECTION A-A

TWO APPROACHES  
BILL OF MATERIAL

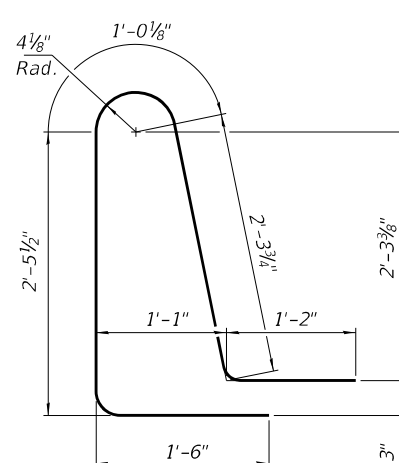
Bar	No.	Size	Length	Shape
a10(E)	140	#5	23'-3"	—
a11(E)	184	#8	22'-10"	—
a12(E)	68	#5	7'-4"	—
b10(E)	108	#5	29'-8"	—
b11(E)	168	#9	29'-8"	—
b12(E)	8	#5	15'-8"	—
b13(E)	8	#5	13'-6"	—
b14(E)	2	#4	14'-3"	—
b15(E)	2	#4	14'-10"	—
d10(E)	92	#5	6'-5"	⌋
d11(E)	92	#5	8'-6"	⌋
e10(E)	40	#4	14'-8"	—
t10(E)	152	#4	12'-10"	—
w10(E)	160	#5	22'-10"	—
Concrete Structures		Cu. Yd.	29.0	
Concrete Superstructure		Cu. Yd.	8.0	
Bridge Deck Grooving		Sq. Yd.	214	
Protective Coat		Sq. Yd.	258	
Concrete Superstructure (Approach Slab)		Cu. Yd.	100.0	
Reinforcement Bars, Epoxy Coated		Pound	42,640	



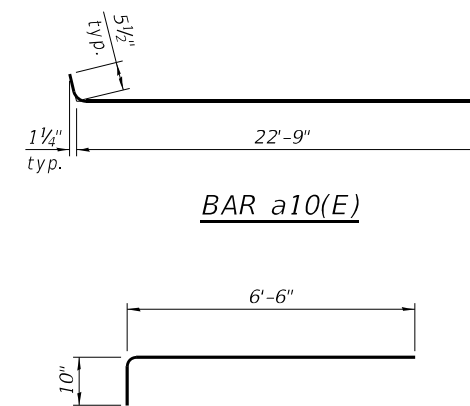
DETAIL A  
(@ Rt. L's)



BAR d10(E)



BAR d11(E)



BAR a12(E)

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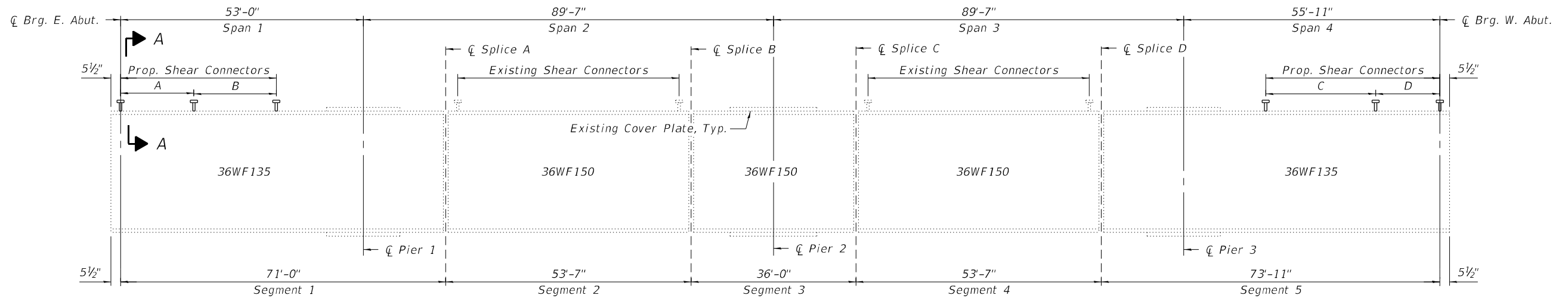
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 DEPARTMENT OF TRANSPORTATION

APPROACH SLAB DETAILS  
 STRUCTURE NO. 038-0076

SHEET 20 OF 35 SHEETS

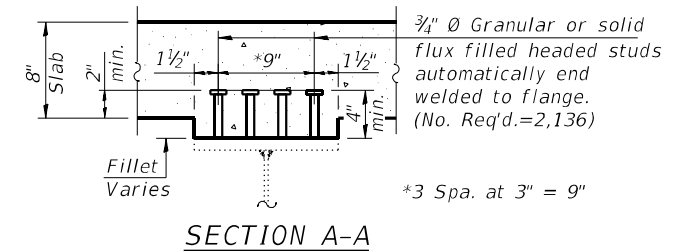
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-7HB-2)D	IROQUOIS	104	63
CONTRACT NO. 66E40				
ILLINOIS FED. AID PROJECT				



BEAM ELEVATION

SHEAR CONNECTOR SPACING	
Location	Spacing
A	24 Spa. at 8" = 16'-0"
B	18 Spa. at 12" = 18'-0"
C	24 Spa. at 12" = 24'-0"
D	21 Spa. at 8" = 14'-0"

SHEAR CONNECTOR TABLE



SECTION A-A

INTERIOR BEAM MOMENT TABLE								
		0.4 Span 1	Pier 1	0.5 Span 2	Pier 2	0.5 Span 3	Pier 3	0.6 Span 4
$I_s$	(in <sup>4</sup> )	7,800	11,374	9,040	15,550	9,040	11,374	7,800
$I_c(n)$	(in <sup>4</sup> )	21,774	-	24,130	-	24,130	-	21,774
$I_c(3n)$	(in <sup>4</sup> )	15,559	-	17,192	-	17,192	-	15,559
$S_s$	(in <sup>3</sup> )	439	623	504	826	504	623	439
$S_c(n)$	(in <sup>3</sup> )	676	-	757	-	757	-	676
$S_c(3n)$	(in <sup>3</sup> )	601	-	673	-	673	-	601
$Z$	(in <sup>3</sup> )	-	509	-	581	-	509	-
$\rho$	(k/')	0.80	0.98	0.82	0.98	0.82	0.98	0.80
$M \rho$	('k)	98.02	521.86	291.17	757.41	285.78	530.93	125.52
$s \rho$	(k/')	0.18	-	0.18	-	0.18	-	0.18
$M_s \rho$	('k)	24.62	-	69.63	-	68.99	-	30.97
$M_L$	('k)	343.58	321.37	526.99	400.05	528.55	323.39	368.26
$MIM$	('k)	96.52	80.81	122.79	95.67	123.16	80.83	101.78
$S_3 [M_L + i]$	('k)	734	670	1,083	826	1,086	674	783
$M_a$	('k)	1,113	1,550	1,877	2,059	1,873	1,566	1,222
$M_u$	('k)	2,175	-	3,063	-	3,077	-	2,157
$f_s \rho$ non-comp	(ksi)	2.68	10.06	6.94	11.00	6.81	10.23	3.43
$f_s \rho$ (comp)	(ksi)	0.49	-	1.24	-	1.23	-	0.62
$f_s S_3 [M_L + M_I]$	(ksi)	13.03	12.92	17.17	12.00	17.23	12.99	13.92
$f_s$ (Overload)	(ksi)	16.20	22.98	25.35	23.00	25.27	23.22	17.96
$f_s$ (Total)	(ksi)	-	29.87	-	29.90	-	30.19	-
$VR$	(k)	35.73	-	41.15	-	41.18	-	35.78

INTERIOR BEAM REACTION TABLE						
		E. Abut.	Pier 1	Pier 2	Pier 3	W. Abut.
$R \rho$	(k)	50.05	78.07	95.27	79.23	51.84
$R_L$	(k)	33.62	47.12	51.78	47.35	34.01
$R_i$	(k)	9.45	8.80	8.51	8.76	9.40
$R_{Total}$	(k)	93.12	133.99	155.56	135.34	95.25

\* Compact section  
 \*\* Braced non-compact and partially braced section

$I_s, S_s$ : Non-composite moment of inertia and section modulus of the steel section used for computing  $f_s$ (Total and Overload) due to non-composite dead loads (in<sup>4</sup> and in<sup>3</sup>).  
 $I_c(n), S_c(n)$ : Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing  $f_s$ (Total and Overload) due to short-term composite live loads (in<sup>4</sup> and in<sup>3</sup>).  
 $I_c(3n), S_c(3n)$ : Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing  $f_s$ (Total and Overload) due to long-term composite (superimposed) dead loads (in<sup>4</sup> and in<sup>3</sup>).  
 $Z$ : Plastic Section Modulus of the steel section in non-composite areas (in<sup>3</sup>).  
 $\rho$ : Un-factored non-composite dead load (kips/ft.).  
 $M \rho$ : Un-factored moment due to non-composite dead load (kip-ft.).  
 $s \rho$ : Un-factored long-term composite (superimposed) dead load (kips/ft.).  
 $M_s \rho$ : Un-factored moment due to long-term composite (superimposed) dead load (kip-ft.).  
 $M_L$ : Un-factored live load moment (kip-ft.).  
 $M_I$ : Un-factored moment due to impact (kip-ft.).  
 $M_a$ : Factored design moment (kip-ft.).  
 $1.3 [M \rho + M_s \rho + \frac{5}{3} (M_L + M_I)]$   
 $M_u$ : Compact composite moment capacity according to AASHTO LFD 10.50.1.1 or compact non-composite moment capacity according to AASHTO LFD 10.48.1 (kip-ft.).  
 $f_s$  (Overload): Sum of stresses as computed from the moments below (ksi).  
 $M \rho + M_s \rho + \frac{5}{3} (M_L + M_I)$   
 $f_s$  (Total): Sum of stresses as computed from the moments below on non-compact section (ksi).  
 $1.3 [M \rho + M_s \rho + \frac{5}{3} (M_L + M_I)]$   
 $VR$ : Maximum  $L + i$  impact shear range within the composite portion of the span for stud shear connector design (kips).

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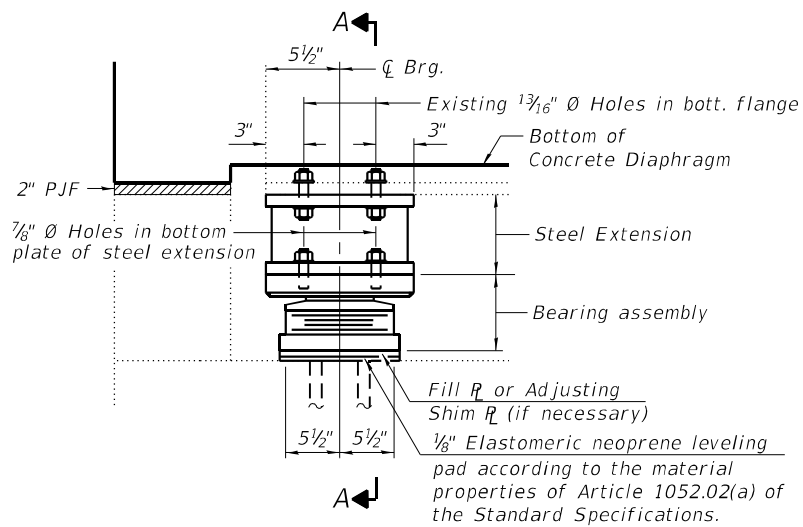
USER NAME =	DESIGNED - P. SARICH	REVISED -
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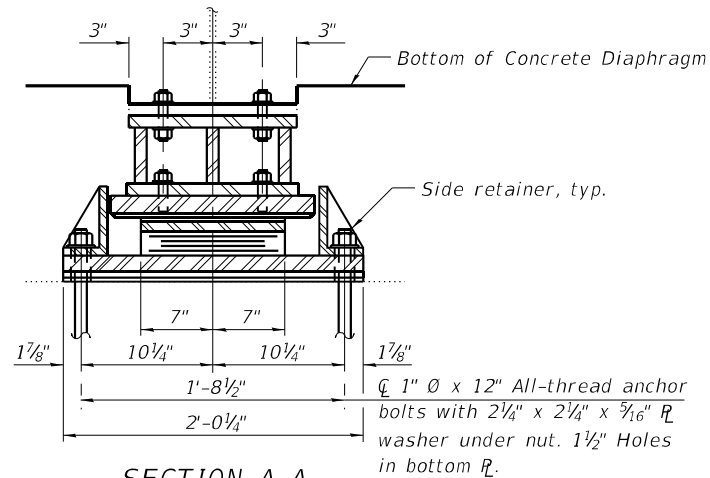
STRUCTURAL STEEL  
 STRUCTURE NO. 038-0076

SHEET 21 OF 35 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-7HB-2)D	IROQUOIS	104	64
CONTRACT NO. 66E40				
ILLINOIS FED. AID PROJECT				

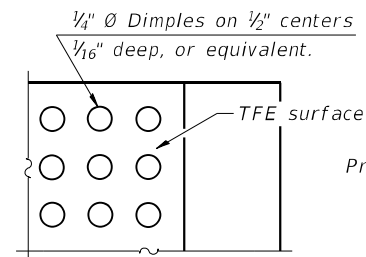


ELEVATION AT ABUT.

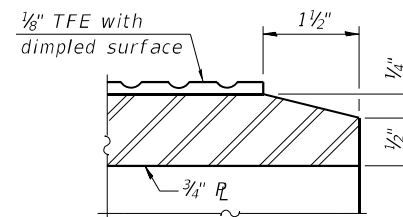


SECTION A-A

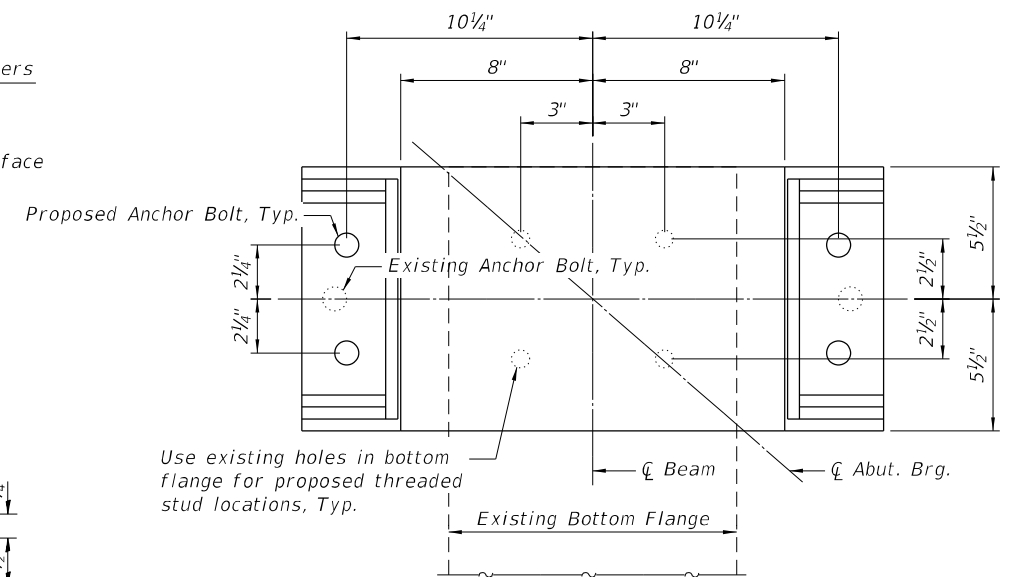
TYPE II ELASTOMERIC EXP. BRG.



PLAN-TFE SURFACE

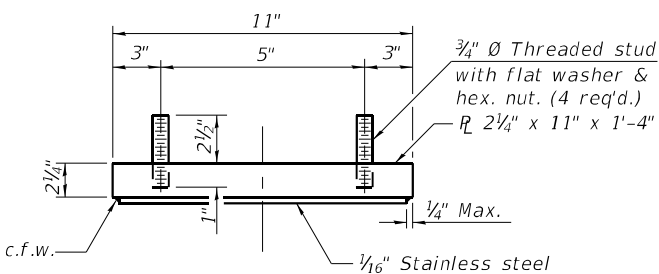


SECTION THRU TFE

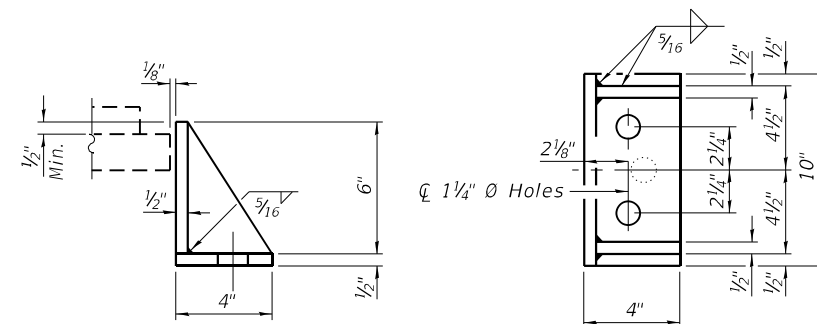


BEARING LAYOUT

(Steel extension not shown for clarity)

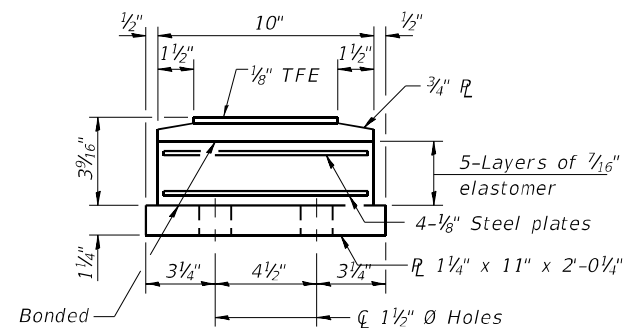


TOP BEARING ASSEMBLY



SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



BOTTOM BEARING ASSEMBLY

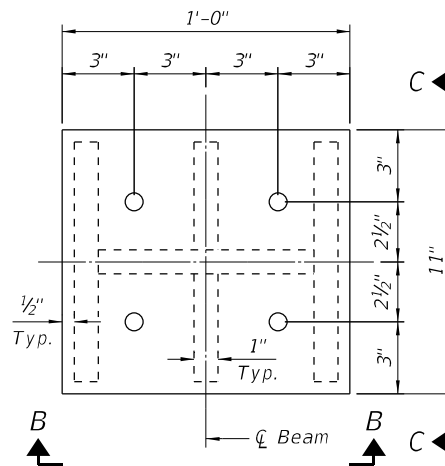
PROCEDURE FOR JACKING AND REMOVING EXISTING BEARINGS

- The Contractor shall submit, for approval, by the Engineer, plans for jacking and removing the existing bearings prior to commencing any work at the bearings.
- In each stage, jacking and removal of existing bearings shall be done after the existing deck is removed and before the new deck is poured.
- The new bearings and steel extensions shall be in place and the jacks lowered prior to pouring the new concrete deck in each stage. See Special Provision for Jack and Remove Existing Bearings.

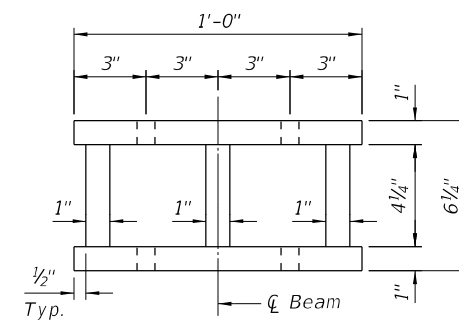
BEAM SERVICE JACKING LOADS		
	E. Abut.	W. Abut.
R <sub>DL</sub> (k)	2.28	2.55
R <sub>L</sub> (k)	0.00	0.00
R <sub>I</sub> (k)	0.00	0.00
R <sub>Total</sub> (k)	2.28	2.55

NOTES

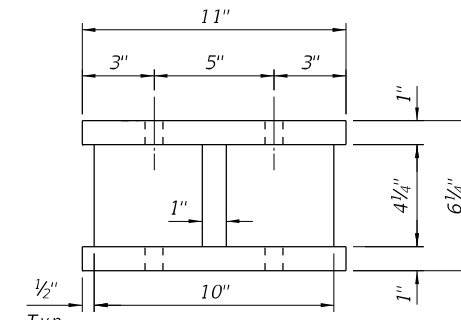
- Side retainers and stainless steel plates shall be included in the cost of Elastomeric Bearing Assembly, Type II. Steel Extensions shall be paid for as Furnishing and Erecting Structural Steel.
- The 1/8 inch TFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.
- Bonding of 1/8 inch TFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.
- Anchor bolts and side retainers at all supports shall be installed as each member is erected unless an equivalent temporary means of lateral restraint is used.
- Prior to ordering any material, the contractor shall verify in the field all bearing height and shim thickness dimensions.
- Minimum jack capacity per beam = 3 tons.
- Two 1/8 inch shims of the dimensions shown for the top bearing plate shall be provided for each bearing in addition to all other plates and shims shown. Cost included with Elastomeric Bearing Assembly, Type II.



PLAN



VIEW B-B



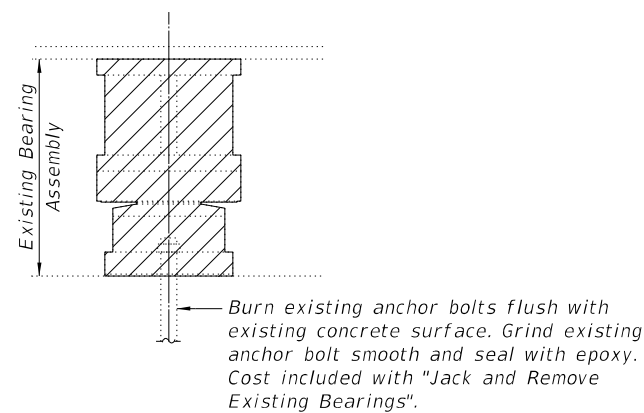
VIEW C-C

STEEL EXTENSION DETAILS

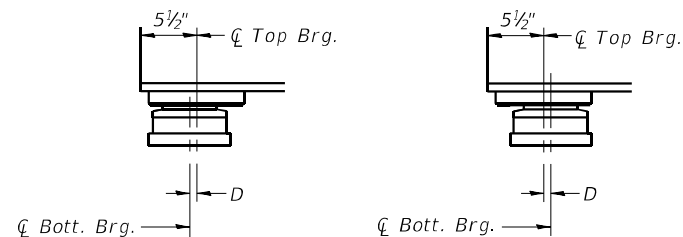
FILL PLATES REQUIRED		
Beam No.	E. Abut.	W. Abut.
1	-	-
2	-	-
3	1/2 inch	1/2 inch
4	1/8 inch	1/8 inch
5	-	-
6	-	-

ABUTMENT BEARINGS  
BILL OF MATERIAL

Item	Unit	Total
Furnishing and Erecting Structural Steel	Pound	1,480
Elastomeric Bearing Assembly Type II	Each	12
Anchor Bolts, 1"	Each	48
Jack and Remove Existing Bearings	Each	12



EXISTING BEARING REMOVAL



BELOW 50°F.  
D = 1/8 inch per each 100 feet of expansion for every 15°F temp. change from the normal temp. of 50°F.

ABOVE 50°F.

EXPANSION BEARING ORIENTATION

The above diagrams are for informational purposes only to show the amount of expected offset "D" for the current temperature in the field.

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11/13/2023 7:50:05 AM



USER NAME = \_\_\_\_\_  
DESIGNED - P. SARICH  
CHECKED - I. LOPEZ  
PLOT SCALE = N.T.S.  
DRAWN - P. SARICH  
PLOT DATE = 08/10/2023  
CHECKED - I. LOPEZ  
REVISED - \_\_\_\_\_

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DRAWN - P. SARICH  
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REVISED - \_\_\_\_\_

REVISED - \_\_\_\_\_  
REVISED - \_\_\_\_\_  
REVISED - \_\_\_\_\_  
REVISED - \_\_\_\_\_

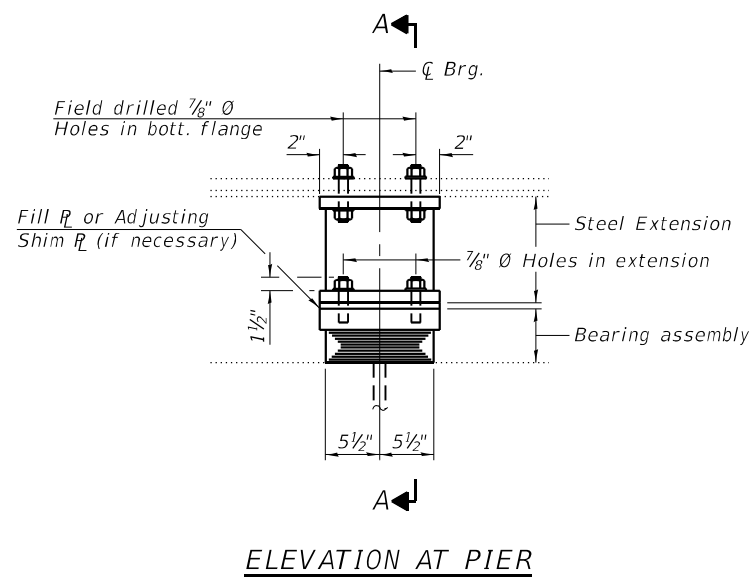
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ABUTMENT ELASTOMERIC BEARING DETAILS  
STRUCTURE NO. 038-0076

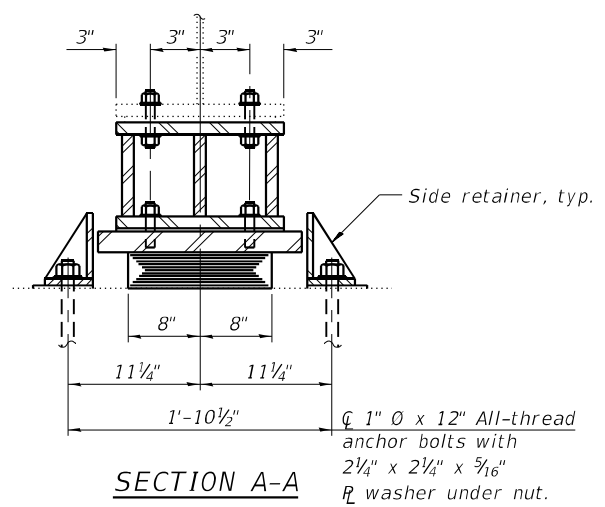
SHEET 22 OF 35 SHEETS

F.A.I. RTE. 57 SECTION (38-7HB-2)D COUNTY IROQUOIS TOTAL SHEETS 104 SHEET NO. 65  
CONTRACT NO. 66E40  
ILLINOIS FED. AID PROJECT

MODEL: Default  
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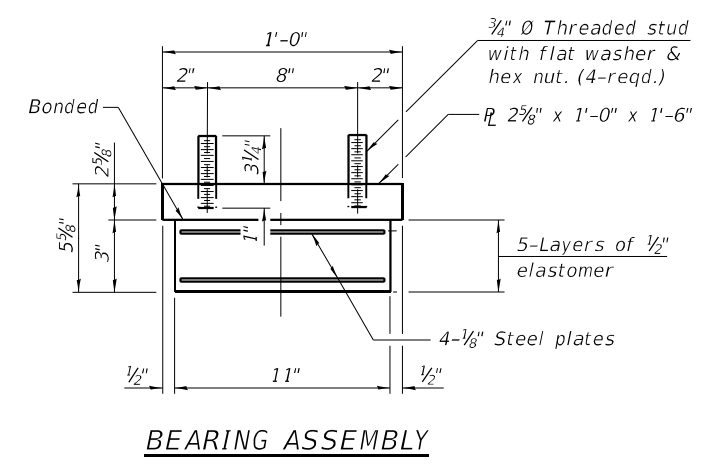
**ELEVATION AT PIER**



**SECTION A-A**

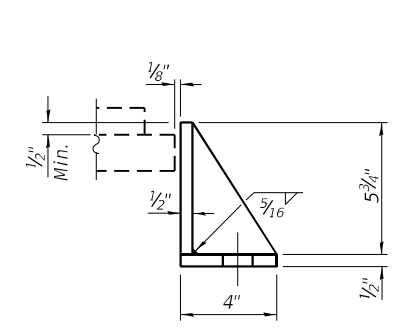
1" x 12" All-thread anchor bolts with 2 1/4" x 2 1/4" x 5/16" washer under nut.

**TYPE I ELASTOMERIC EXP. BRG.**



**BEARING ASSEMBLY**

Note: Shim plates shall not be placed under bearing assembly.



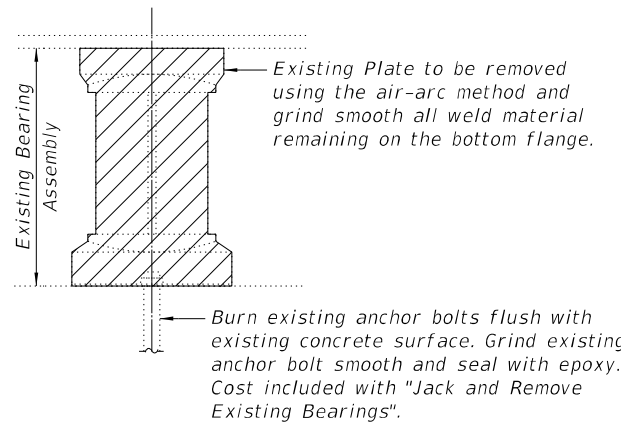
**SIDE RETAINER**

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

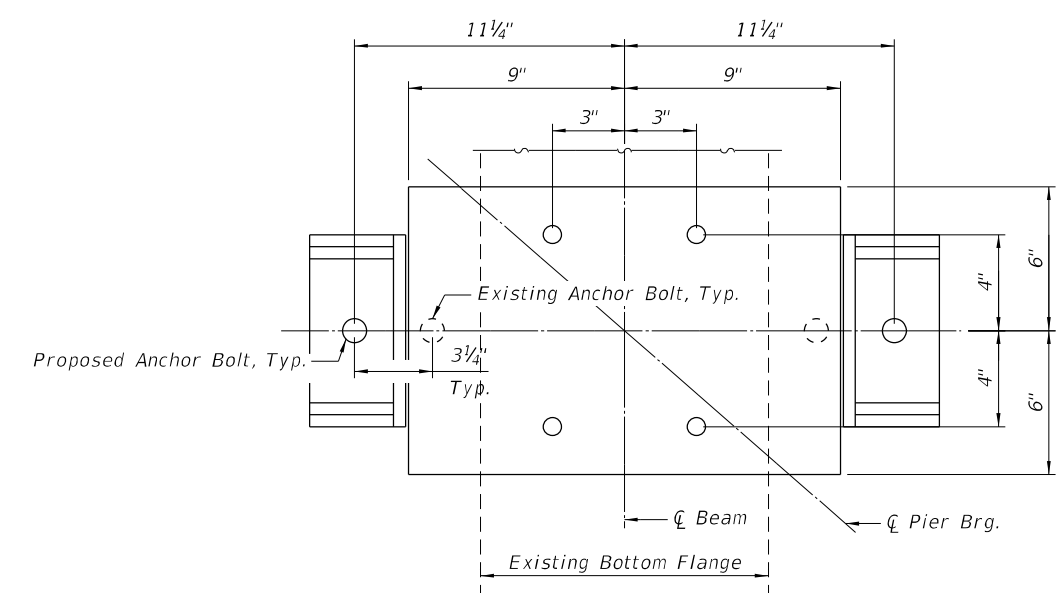
BEAM SERVICE JACKING LOADS		
	Pier 1	Pier 3
R <sub>DL</sub> (k)	11.51	11.63
R <sub>±</sub> (k)	0.00	0.00
R <sub>I</sub> (k)	0.00	0.00
R <sub>Total</sub> (k)	11.51	11.63

**PROCEDURE FOR JACKING AND REMOVING EXISTING BEARINGS**

- The Contractor shall submit, for approval, by the Engineer, plans for jacking and removing the existing bearings prior to commencing any work at the bearings.
- In each stage, jacking and removal of existing bearings shall be done after the existing deck is removed and before the new deck is poured.
- The new bearings and steel extensions shall be in place and the jacks lowered prior to pouring the new concrete deck in each stage. See Special Provision for Jack and Remove Existing Bearings.



**EXISTING BEARING REMOVAL**

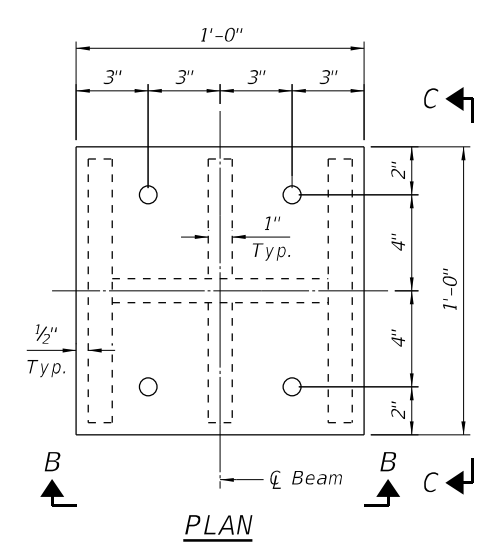


**BEARING LAYOUT**

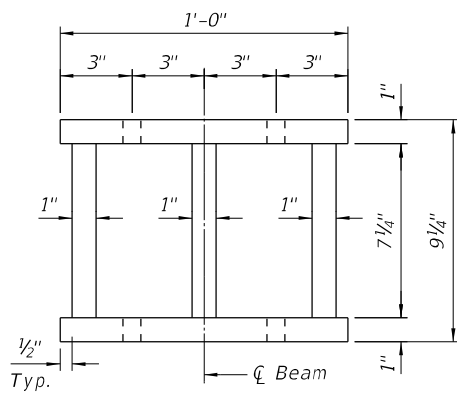
(Steel extension not shown for clarity)

**NOTES**

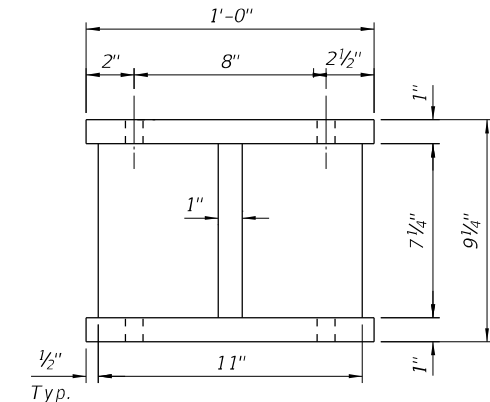
- Side retainers and stainless steel plates shall be included in the cost of Elastomeric Bearing Assembly, Type I. Steel Extensions shall be paid for as Furnishing and Erecting Structural Steel.
- Anchor bolts and side retainers at all supports shall be installed as each member is erected unless an equivalent temporary means of lateral restraint is used.
- Prior to ordering any material, the contractor shall verify in the field all bearing height and shim thickness dimensions.
- Minimum jack capacity per beam = 12 tons.
- Two 1/8 inch shims of the dimensions shown for the top bearing plate shall be provided for each bearing in addition to all other plates and shims shown. Cost included with Elastomeric Bearing Assembly, Type I.
- Cost of field drilling is included with Elastomeric Bearing Assembly, Type I.



**PLAN**



**VIEW B-B**



**VIEW C-C**

**STEEL EXTENSION DETAILS**

FILL PLATES REQUIRED		
Beam No.	Pier 1	Pier 3
1	-	-
2	-	-
3	1/2"	1/2"
4	1/8"	1/8"
5	-	-
6	-	-

**PIER BEARINGS BILL OF MATERIAL**

Item	Unit	Total
Furnishing and Erecting Structural Steel	Pound	2,030
Elastomeric Bearing Assembly Type I	Each	12
Anchor Bolts, 1"	Each	24
Jack and Remove Existing Bearings	Each	12



USER NAME = \_\_\_\_\_  
 DESIGNED - P. SARICH  
 CHECKED - I. LOPEZ  
 PLOT SCALE = N.T.S.  
 DRAWN - P. SARICH  
 PLOT DATE = 08/10/2023  
 CHECKED - I. LOPEZ  
 REVISED - \_\_\_\_\_

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

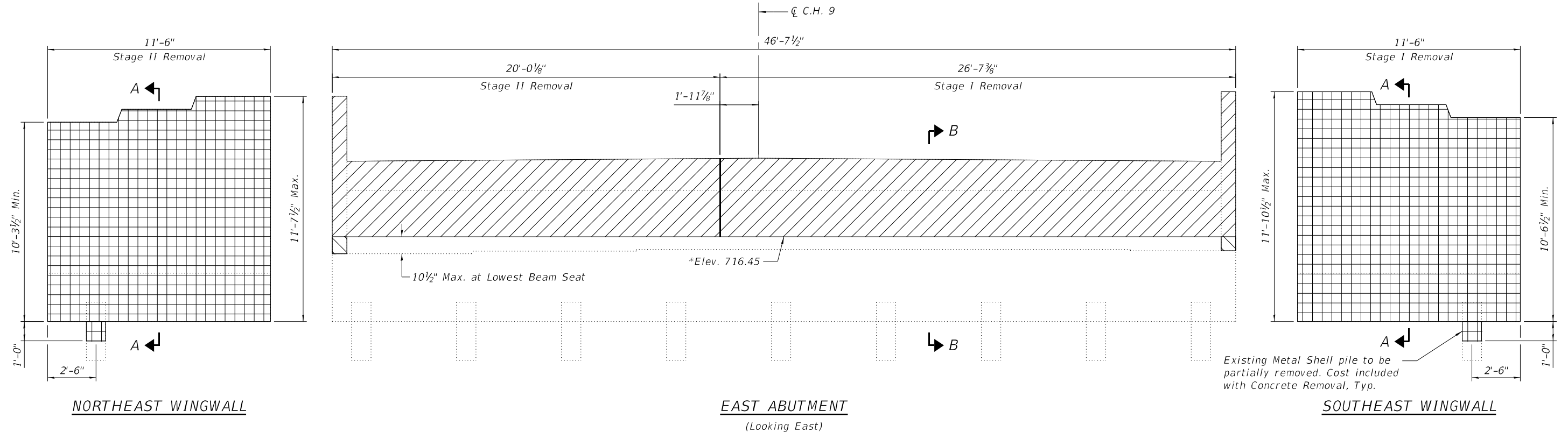
PIER ELASTOMERIC BEARING DETAILS  
 STRUCTURE NO. 038-0076

SHEET 23 OF 35 SHEETS

F.A.I. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.  
 57 (38-7HB-2)D IROQUOIS 104 66  
 ILLINOIS FED. AID PROJECT CONTRACT NO. 66E40

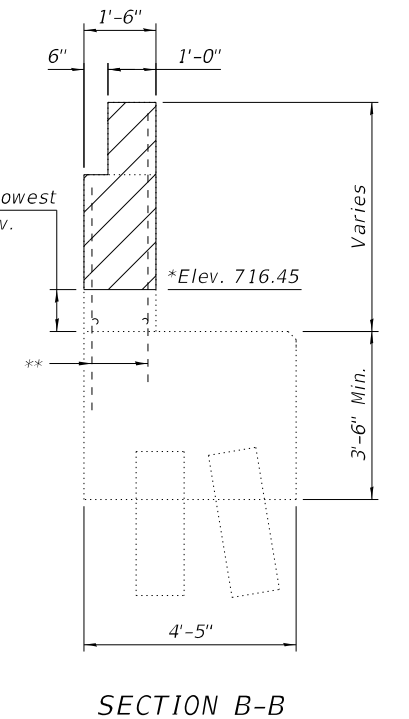
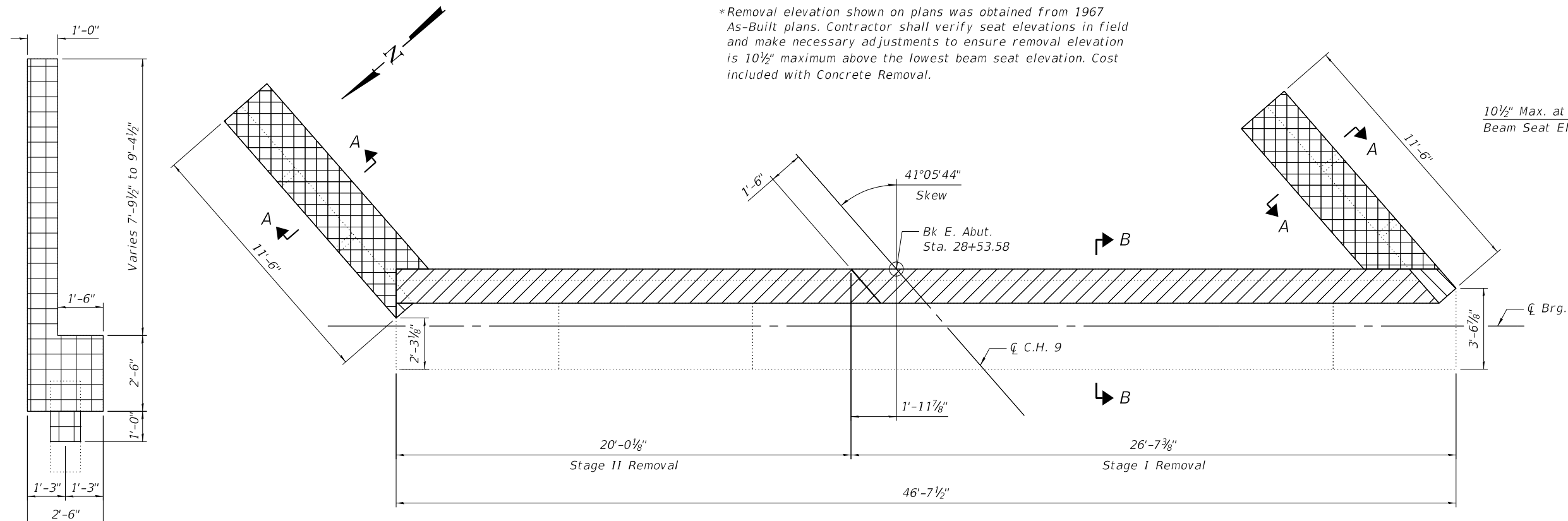


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Existing Metal Shell pile to be partially removed. Cost included with Concrete Removal, Typ.

\*Removal elevation shown on plans was obtained from 1967 As-Built plans. Contractor shall verify seat elevations in field and make necessary adjustments to ensure removal elevation is 10 1/2" maximum above the lowest beam seat elevation. Cost included with Concrete Removal.



SECTION A-A

LEGEND

- Partial Removal Limits (To Backwall Elevation)
- Partial Removal Limits (To Top of Beam Seat)
- Full Height Removal

EAST ABUTMENT BILL OF MATERIAL

Item	Unit	Total
Concrete Removal	Cu. Yd.	23

\*\*Existing vertical bars to be cut flush along removal line. Field apply epoxy coating to the cut rebar ends in accordance with Article 508.04 of the Standard Specifications. Cost included with Concrete Removal.



USER NAME =	DESIGNED - P. SARICH	REVISED -
PLOT SCALE = N.T.S.	CHECKED - I. LOPEZ	REVISED -
PLOT DATE = 08/10/2023	DRAWN - P. SARICH	REVISED -
	CHECKED - I. LOPEZ	REVISED -

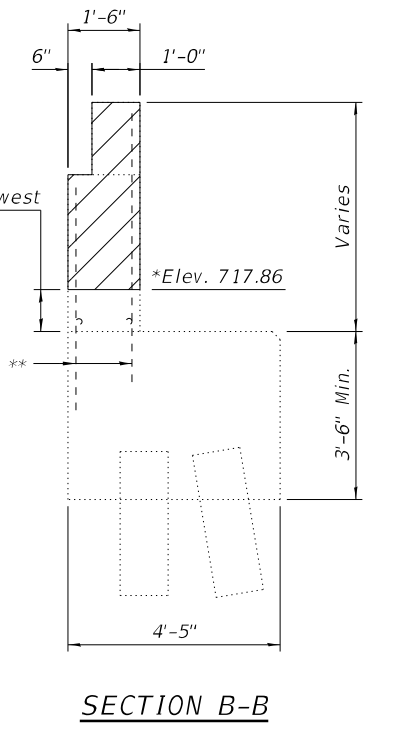
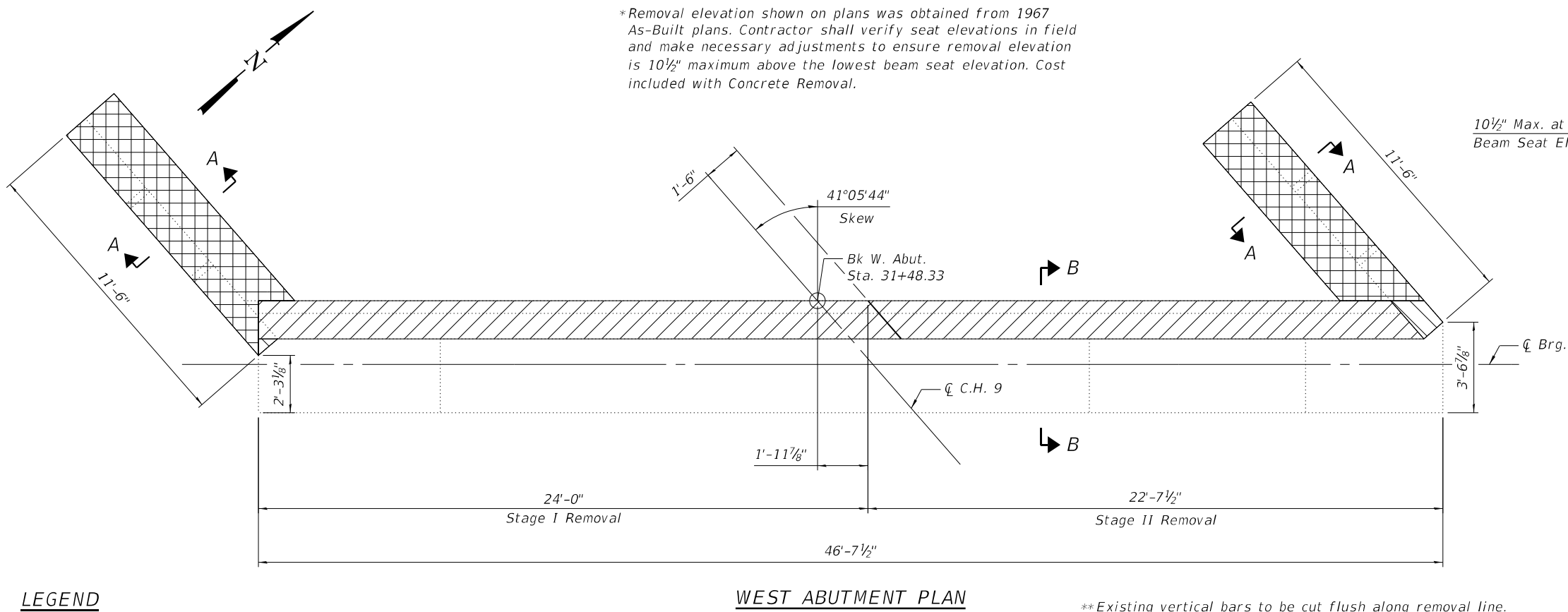
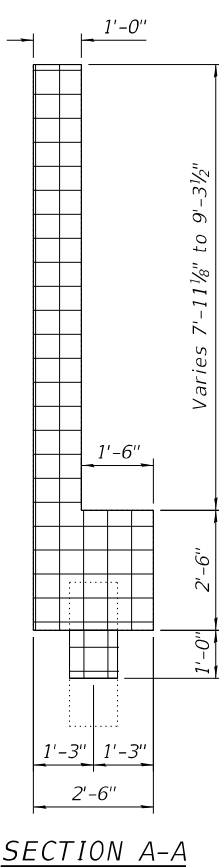
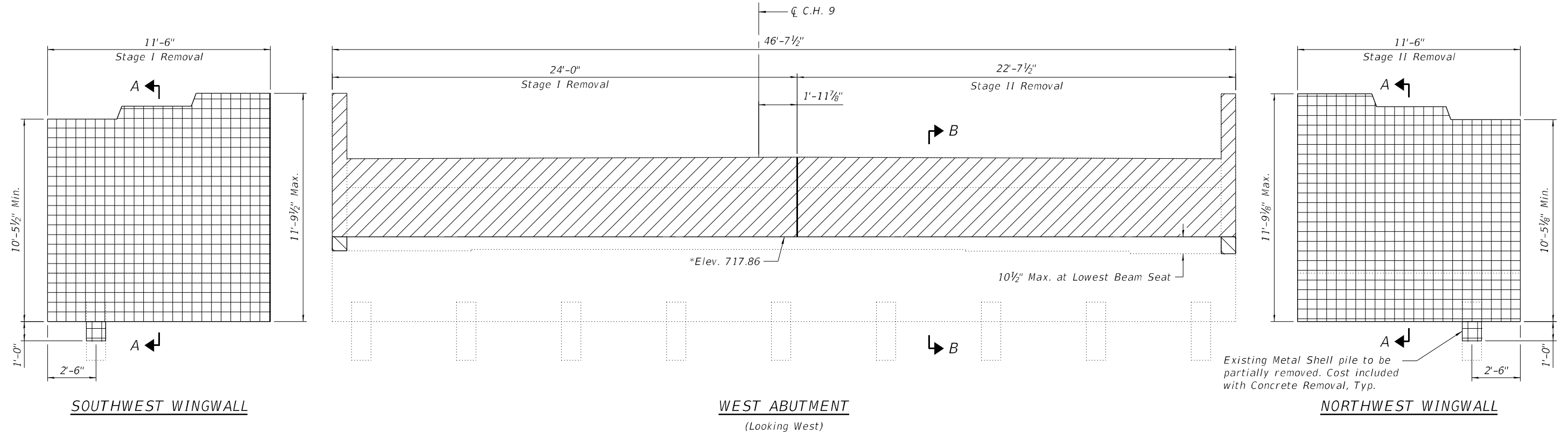
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUBSTRUCTURE REMOVAL DETAILS I  
 STRUCTURE NO. 038-0076

SHEET 24 OF 35 SHEETS

F.A.I. RTE. 57	SECTION (38-7HB-2)D	COUNTY IROQUOIS	TOTAL SHEETS 104	SHEET NO. 67
CONTRACT NO. 66E40				
ILLINOIS FED. AID PROJECT				

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**LEGEND**

- Partial Removal Limits (To Backwall Elevation)
- Partial Removal Limits (To Top of Beam Seat)
- Full Height Removal

\*Removal elevation shown on plans was obtained from 1967 As-Built plans. Contractor shall verify seat elevations in field and make necessary adjustments to ensure removal elevation is 10 1/2" maximum above the lowest beam seat elevation. Cost included with Concrete Removal.

Existing Metal Shell pile to be partially removed. Cost included with Concrete Removal, Typ.

\*\*Existing vertical bars to be cut flush along removal line. Field apply epoxy coating to the cut rebar ends in accordance with Article 508.04 of the Standard Specifications. Cost included with Concrete Removal.

**WEST ABUTMENT BILL OF MATERIAL**

Item	Unit	Total
Concrete Removal	Cu. Yd.	23



USER NAME =	DESIGNED - P. SARICH	REVISED -
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PLOT DATE = 08/10/2023	DRAWN - P. SARICH	REVISED -
	CHECKED - I. LOPEZ	REVISED -

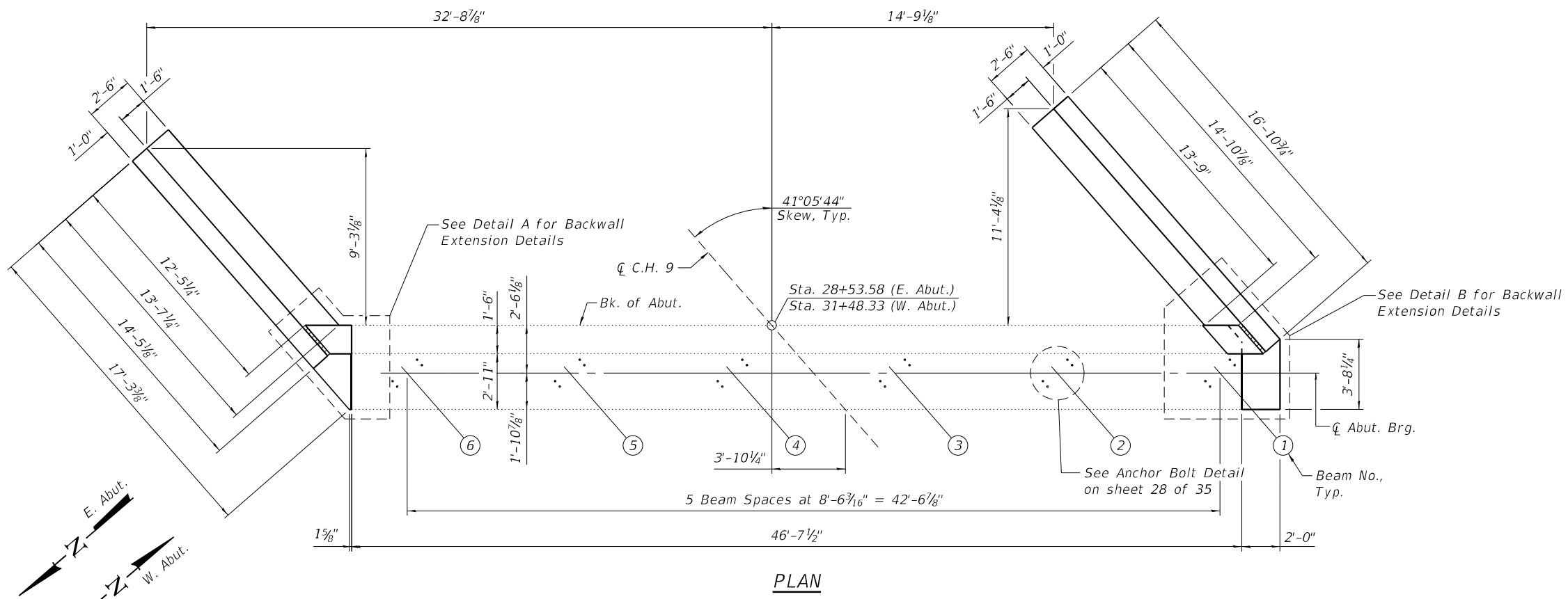
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SUBSTRUCTURE REMOVAL DETAILS II  
 STRUCTURE NO. 038-0076**

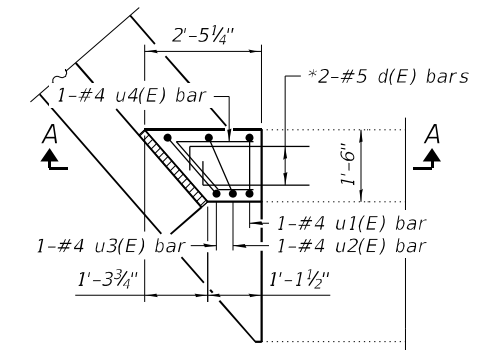
SHEET 25 OF 35 SHEETS

F.A.I. RTE. 57	SECTION (38-7HB-2)D	COUNTY IROQUOIS	TOTAL SHEETS 104	SHEET NO. 68
CONTRACT NO. 66E40				
ILLINOIS FED. AID PROJECT				

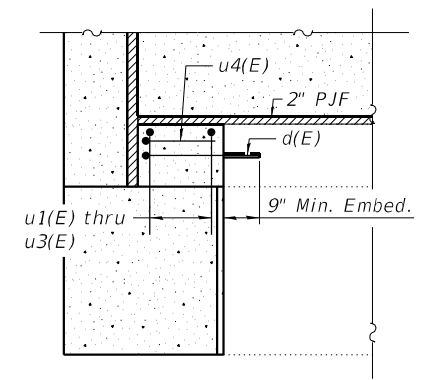
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PLAN

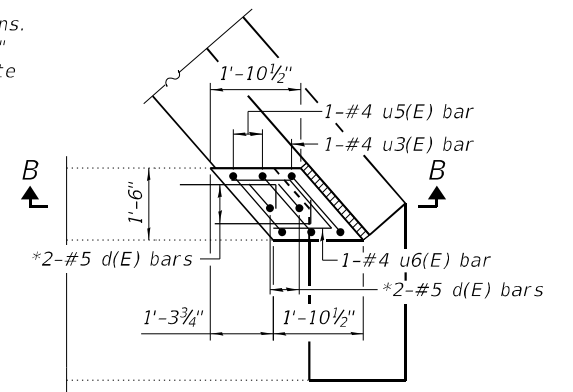


DETAIL A

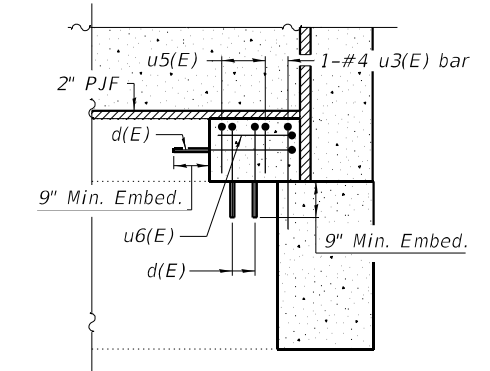


SECTION A-A

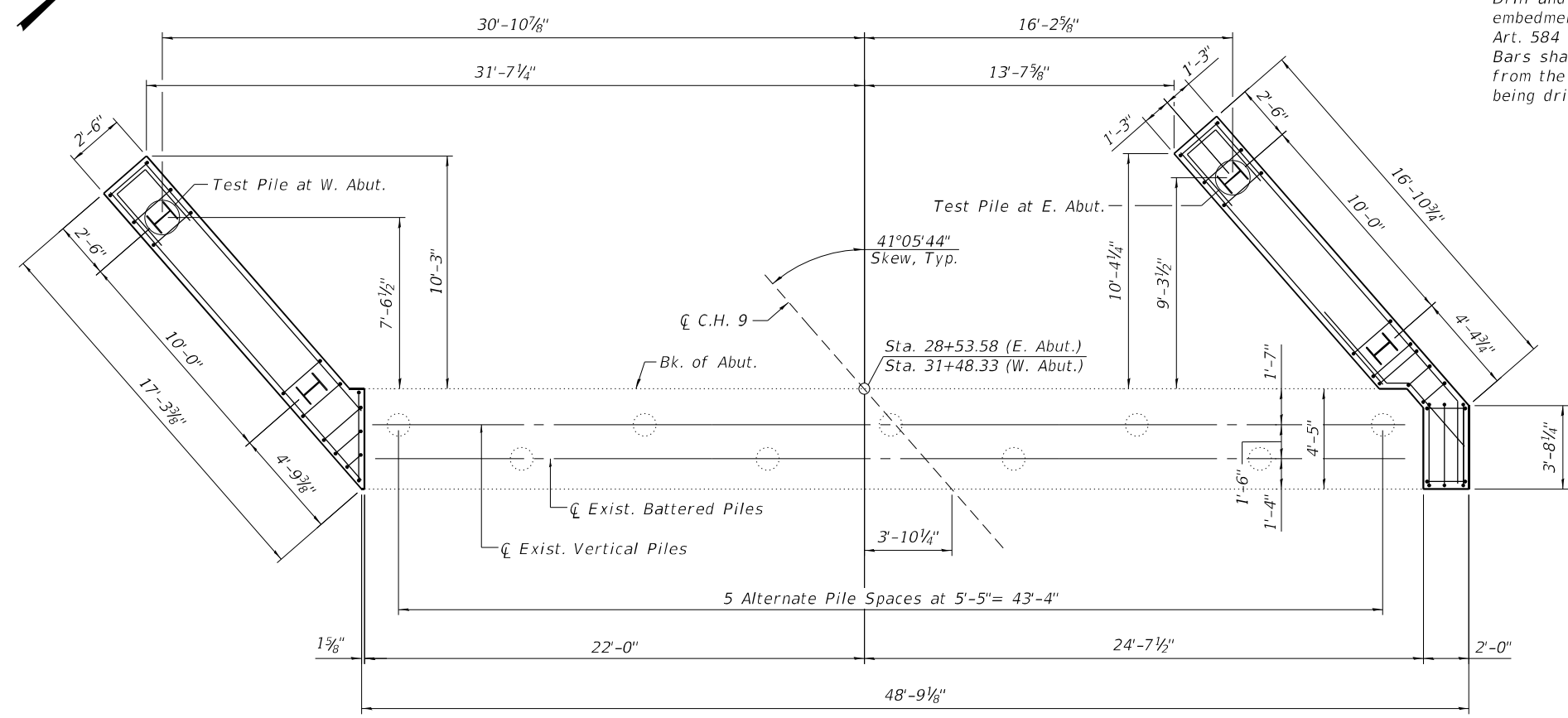
\*Drill and grout d(E) bars to minimum embedment depth shown according to Art. 584 of the Standard Specifications. Bars shall be located a minimum of 5" from the edge of any existing concrete being drilled into.



DETAIL B



SECTION B-B



PILE CAP PLAN



USER NAME =	DESIGNED - P. SARICH	REVISED -
PLOT SCALE = N.T.S.	CHECKED - I. LOPEZ	REVISED -
PLOT DATE = 08/10/2023	DRAWN - P. SARICH	REVISED -
	CHECKED - I. LOPEZ	REVISED -

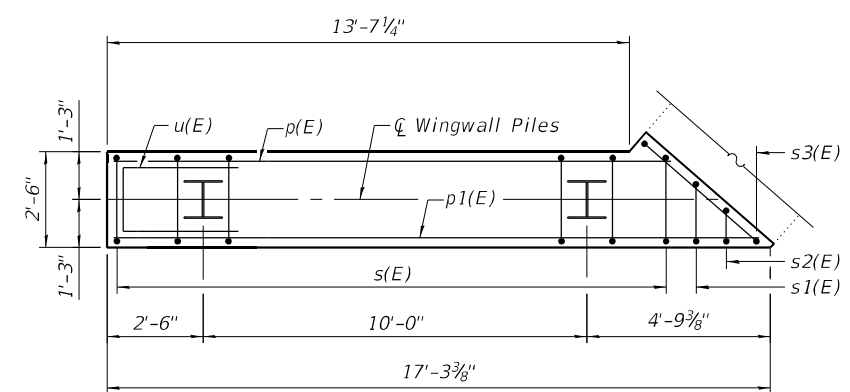
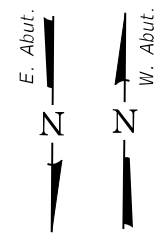
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

ABUTMENT PLAN  
 STRUCTURE NO. 038-0076

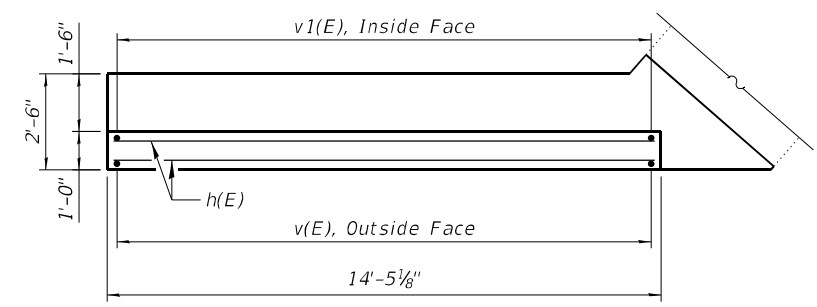
SHEET 26 OF 35 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-7HB-2)D	IROQUOIS	104	69
CONTRACT NO. 66E40				
ILLINOIS FED. AID PROJECT				

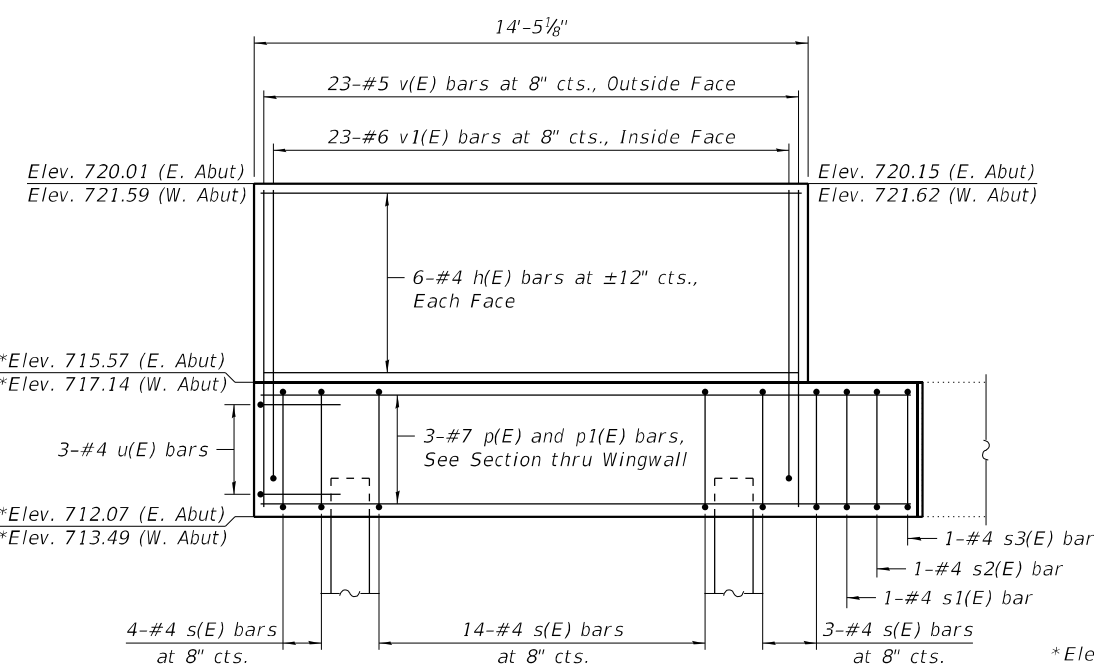
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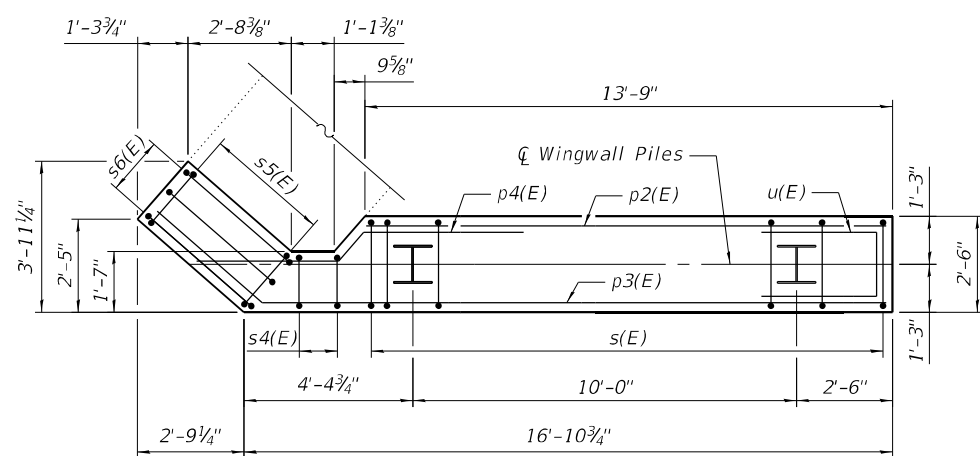
PILE CAP PLAN - OBTUSE CORNER



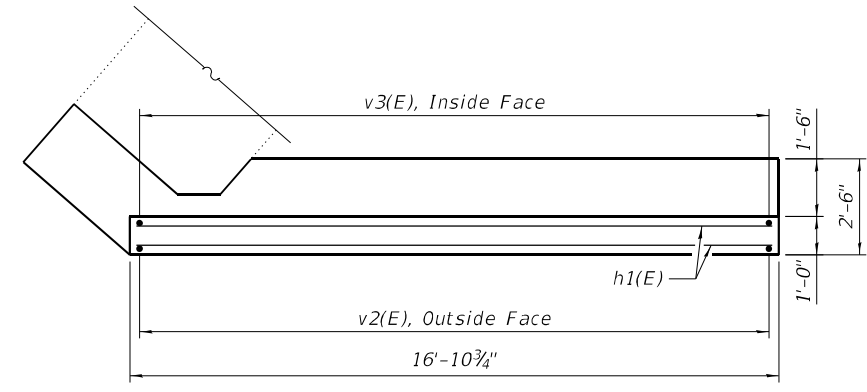
PLAN - OBTUSE CORNER  
 (Backwall extension not shown for clarity)



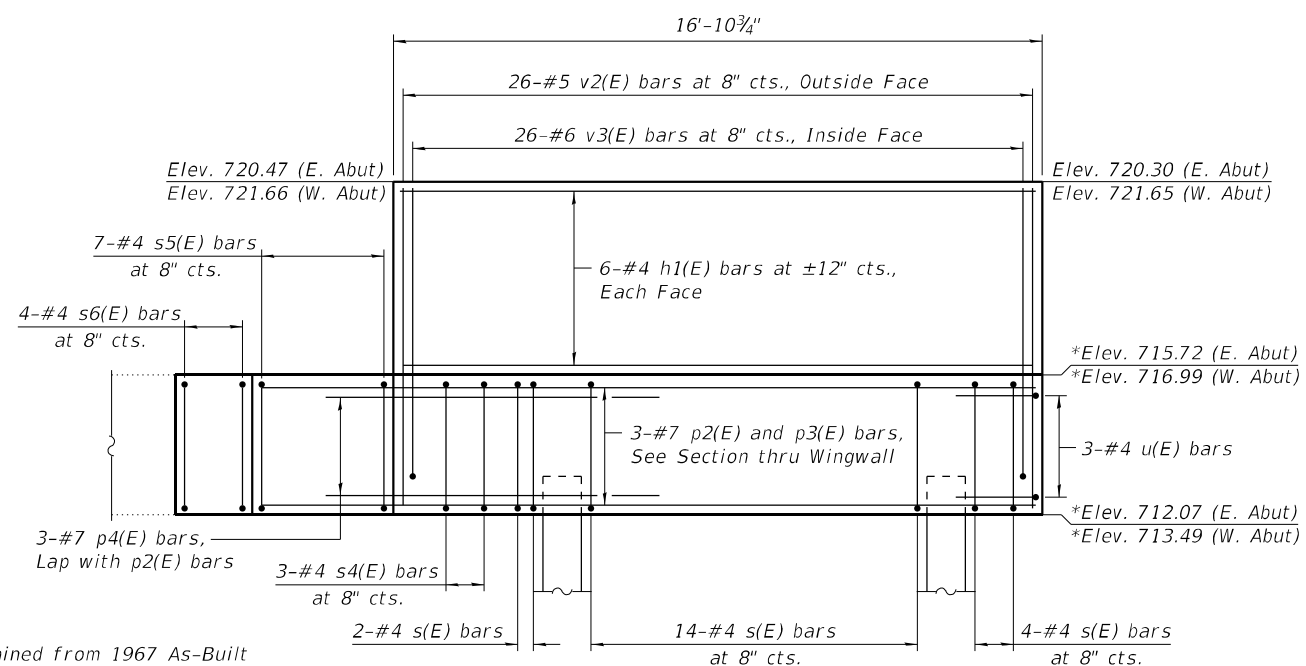
ELEVATION - OBTUSE CORNER



PILE CAP PLAN - ACUTE CORNER

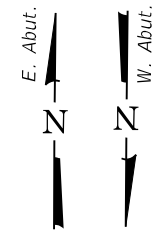


PLAN - ACUTE CORNER  
 (Backwall extension not shown for clarity)



ELEVATION - ACUTE CORNER

\*Elevations shown on plans were obtained from 1967 As-Built plans. Contractor shall verify elevations in field and make necessary adjustments to match existing seat elevations prior to ordering any material.



USER NAME =	DESIGNED - P. SARICH	REVISED -
PLOT SCALE = N.T.S.	CHECKED - I. LOPEZ	REVISED -
PLOT DATE = 08/10/2023	DRAWN - P. SARICH	REVISED -
	CHECKED - I. LOPEZ	REVISED -

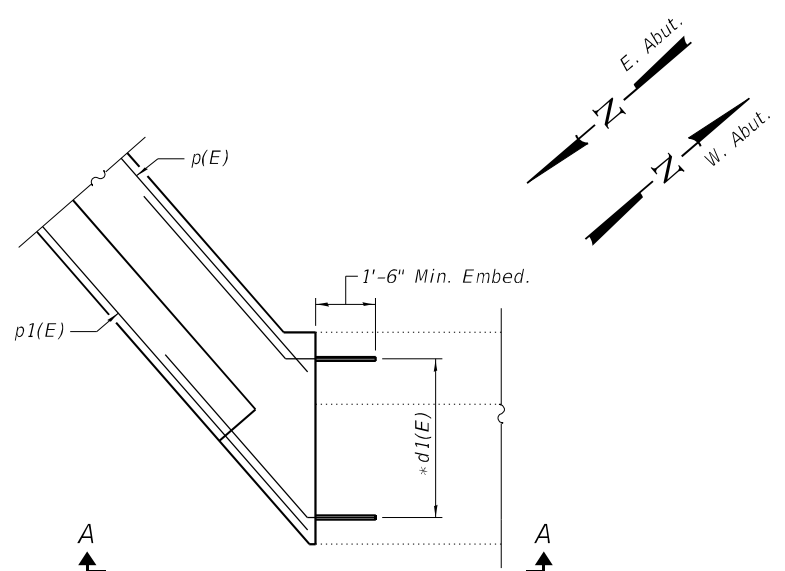
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

ABUTMENT WINGWALL DETAILS  
 STRUCTURE NO. 038-0076

SHEET 27 OF 35 SHEETS

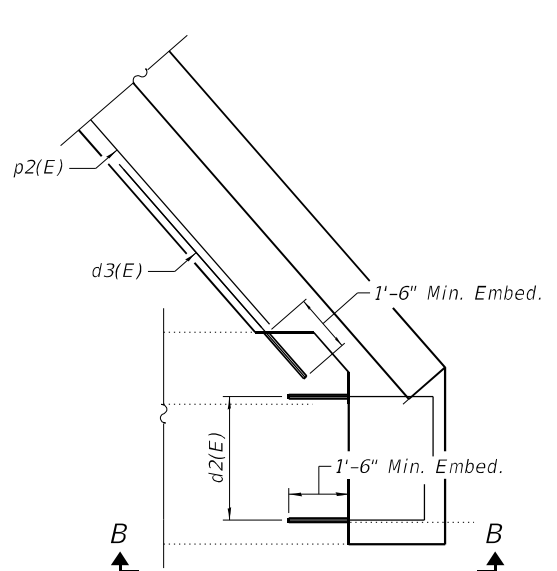
F.A.I. RTE. 57	SECTION (38-7HB-2)D	COUNTY IROQUOIS	TOTAL SHEETS 104	SHEET NO. 70
CONTRACT NO. 66E40				
ILLINOIS FED. AID PROJECT				

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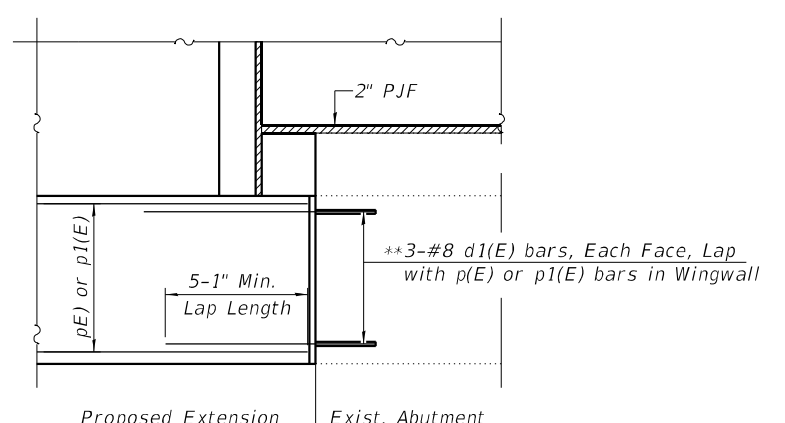
**OBTUSE CORNER CONNECTION DETAIL**

(Backwall extension not shown for clarity)

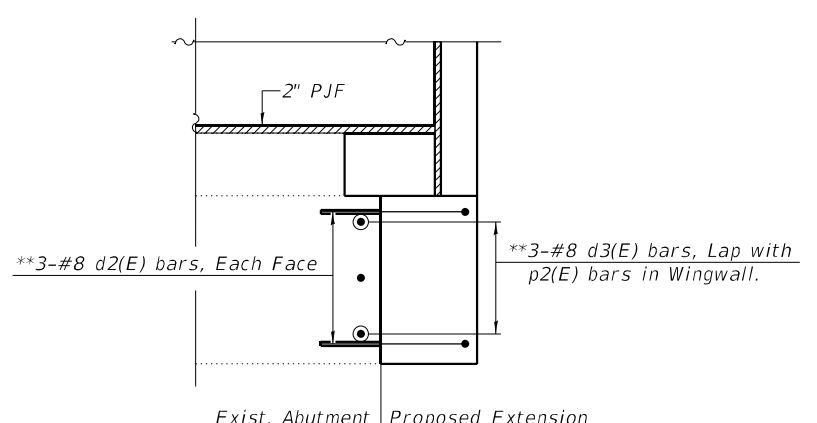


**ACUTE CORNER CONNECTION DETAIL**

(Backwall extension not shown for clarity)



**VIEW A-A**

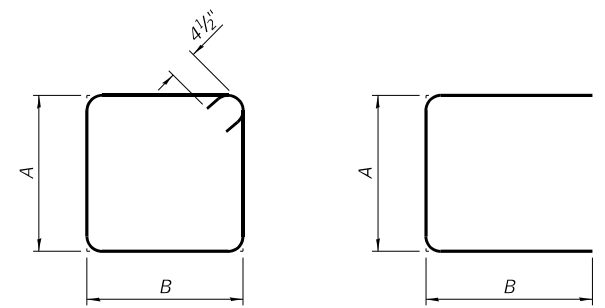


**VIEW B-B**

Bar	A	B
s(E)	3'-0"	2'-2"
s1(E)	3'-0"	1'-6"
s2(E)	3'-0"	9"
s3(E)	3'-0"	3'-4"
s4(E)	3'-0"	1'-3"
s5(E)	2'-11"	1'-8"
s6(E)	3'-0"	3'-5"

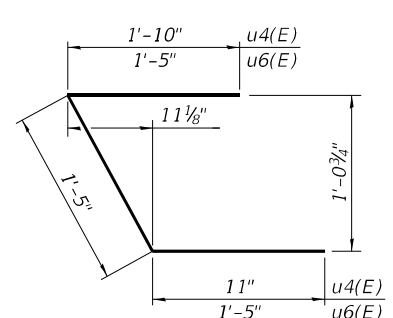
Bar	A	B
u(E)	2'-1"	2'-11"
u1(E)	1'-2"	2'-3"
u2(E)	1'-4"	2'-3"
u3(E)	1'-6"	2'-3"
u5(E)	1'-6"	6"

\*Cut bars to fit skew  
 \*\*Drill and grout d(E) bars to minimum embedment depth shown according to Art. 584 of the Standard Specifications. Bars shall be located a minimum of 5" from the edge of any existing concrete being drilled into.

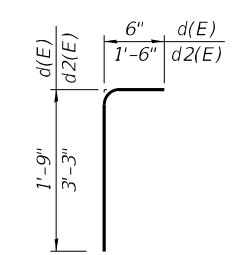


**BARS s(E)**  
(See Table)

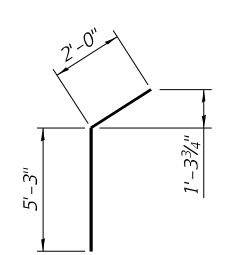
**BARS u(E)**  
(See Table)



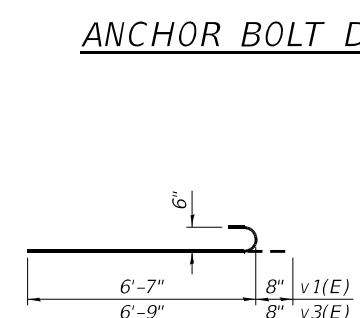
**BARS u4(E) AND u6(E)**



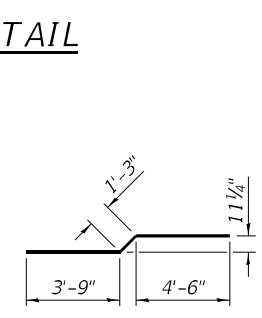
**BARS d(E) AND d2(E)**



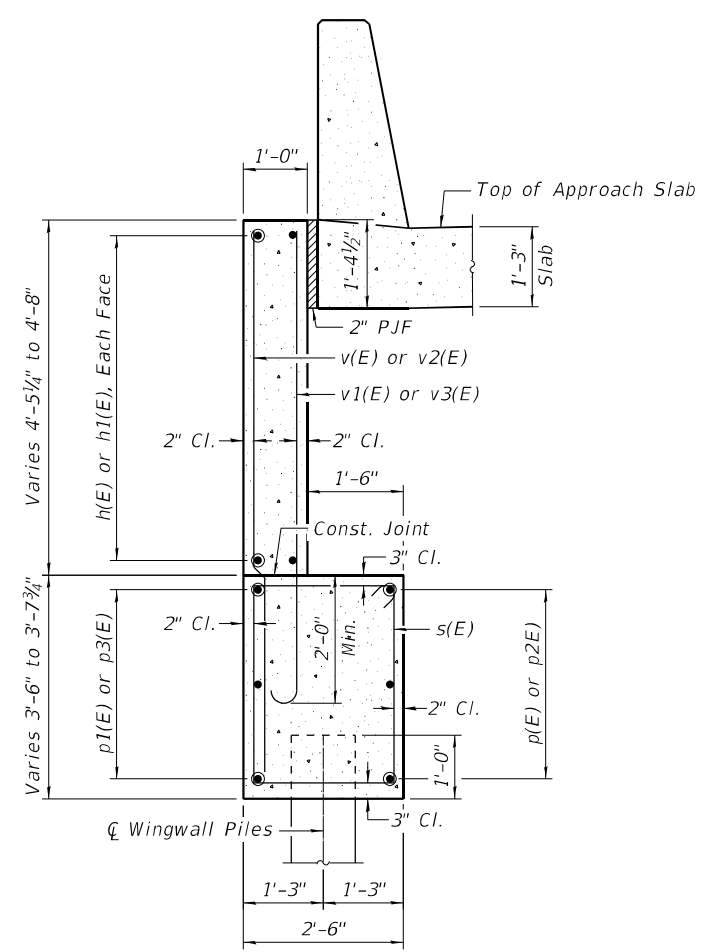
**BAR d1(E)**



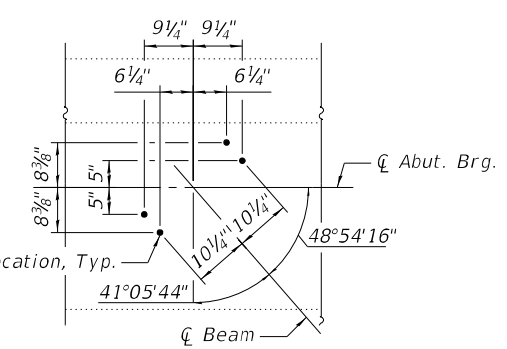
**BARS v1(E) AND v3(E)**



**BAR p4(E)**



**SECTION THRU WINGWALL**



**ANCHOR BOLT DETAIL**

**PILE DATA**  
 (East Abutment)  
 Type: HP12x53 with Pile Shoes  
 Nominal Required Bearing: 418 kips  
 Allowable Resistance Available: 107 kips  
 Est. Length: 52 feet  
 No. Production Piles: 3  
 No. Test Piles: 1

**PILE DATA**  
 (West Abutment)  
 Type: HP12x53 with Pile Shoes  
 Nominal Required Bearing: 418 kips  
 Allowable Resistance Available: 105 kips  
 Est. Length: 70 feet  
 No. Production Piles: 3  
 No. Test Piles: 1

**TWO ABUTMENTS BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
d1(E)	12	#5	2'-3"	┌───┐
d2(E)	12	#8	7'-3"	┌───┐
d3(E)	6	#8	6'-9"	┌───┐
h(E)	24	#4	14'-2"	┌───┐
h1(E)	24	#4	16'-6"	┌───┐
p(E)	6	#7	14'-3"	┌───┐
p1(E)	6	#7	16'-10"	┌───┐
p2(E)	6	#7	13'-6"	┌───┐
p3(E)	6	#7	20'-1"	┌───┐
p4(E)	6	#7	9'-6"	┌───┐
s(E)	82	#4	11'-1"	┌───┐
s1(E)	2	#4	9'-9"	┌───┐
s2(E)	2	#4	8'-3"	┌───┐
s3(E)	2	#4	13'-5"	┌───┐
s4(E)	6	#4	9'-3"	┌───┐
s5(E)	14	#4	9'-11"	┌───┐
s6(E)	8	#4	13'-7"	┌───┐
u(E)	12	#4	7'-11"	┌───┐
u1(E)	2	#4	5'-8"	┌───┐
u2(E)	2	#4	5'-10"	┌───┐
u3(E)	4	#4	6'-0"	┌───┐
u4(E)	2	#4	4'-2"	┌───┐
u5(E)	4	#4	2'-6"	┌───┐
u6(E)	2	#4	4'-3"	┌───┐
v(E)	46	#5	7'-6"	┌───┐
v1(E)	46	#6	7'-3"	┌───┐
v2(E)	52	#5	7'-9"	┌───┐
v3(E)	52	#6	7'-5"	┌───┐
Structure Excavation	Cu. Yd.	132		
Concrete Structures	Cu. Yd.	34.0		
Reinforcement Bars, Epoxy Coated	Lbs.	4,750		
Furnishing Steel Piles HP12x53	Foot	366		
Driving Piles	Foot	366		
Test Pile Steel HP12x53	Each	2		
Pile Shoes	Each	8		
Granular Backfill for Structures	Cu. Yd.	132		
Geocomposite Wall Drain	Sq. Yd.	78		
Pipe Underdrains for Structures, 4"	Foot	138		



USER NAME = \_\_\_\_\_  
 PLOT SCALE = N.T.S.  
 PLOT DATE = 08/10/2023

DESIGNED - P. SARICH  
 CHECKED - I. LOPEZ  
 DRAWN - P. SARICH  
 CHECKED - I. LOPEZ

REVISED - \_\_\_\_\_  
 REVISED - \_\_\_\_\_  
 REVISED - \_\_\_\_\_  
 REVISED - \_\_\_\_\_

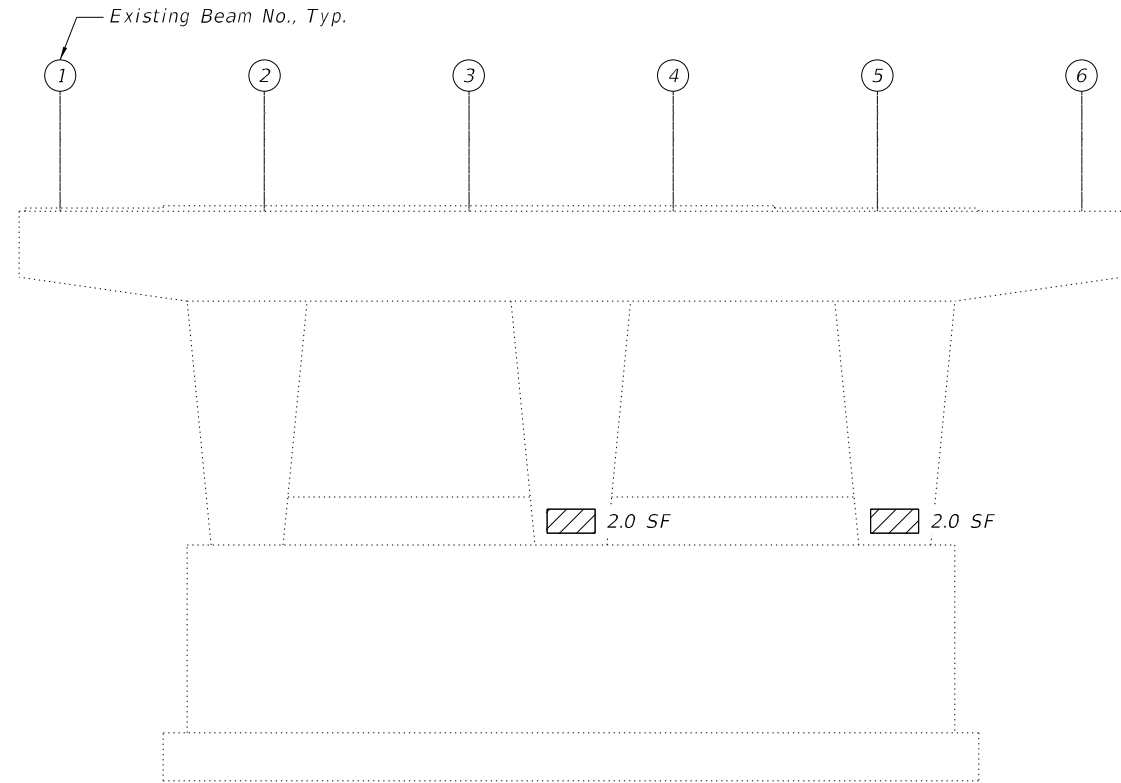
**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

**ABUTMENT DETAILS STRUCTURE NO. 038-0076**

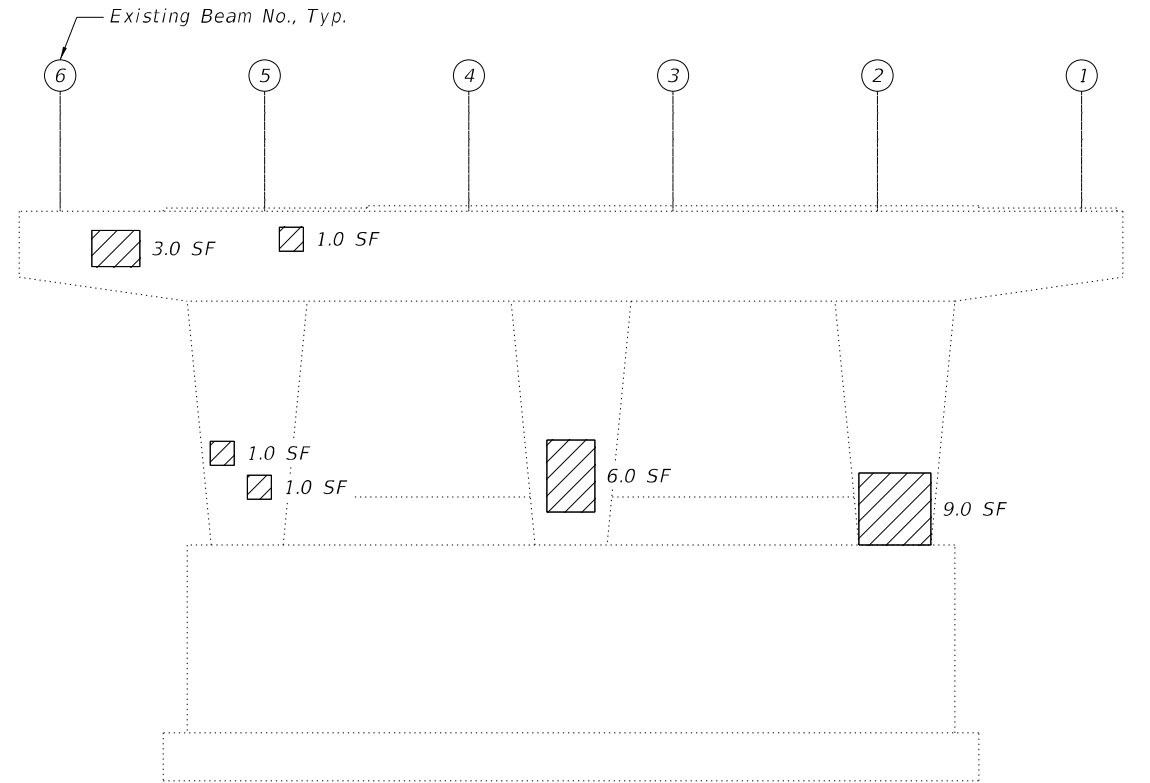
SHEET 28 OF 35 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-7B-2)D	IROQUOIS	104	71
CONTRACT NO. 66E40				
ILLINOIS FED. AID PROJECT				

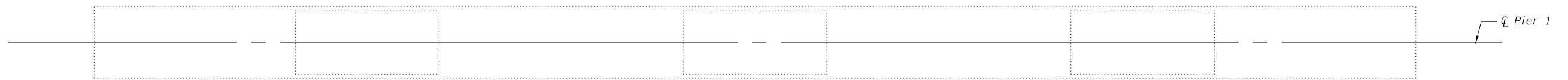
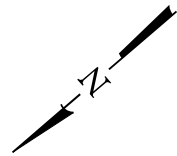
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**PIER 1 REPAIRS**  
 (Looking West)



**PIER 1 REPAIRS**  
 (Looking East)



**PIER 1 UNDERSIDE OF PIER CAP**

**PIER 1 REPAIRS**  
**BILL OF MATERIAL**

Item	Unit	Total
Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq. Ft.	25

**LEGEND**

Limits of Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)

**NOTE**

Areas of substructure repair are estimated based off the approved 2015 Bridge Condition Report. The engineer shall sound all exposed surfaces of the existing pier to determine exact limits of repairs.



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	CHECKED - I. LOPEZ	REVISED -

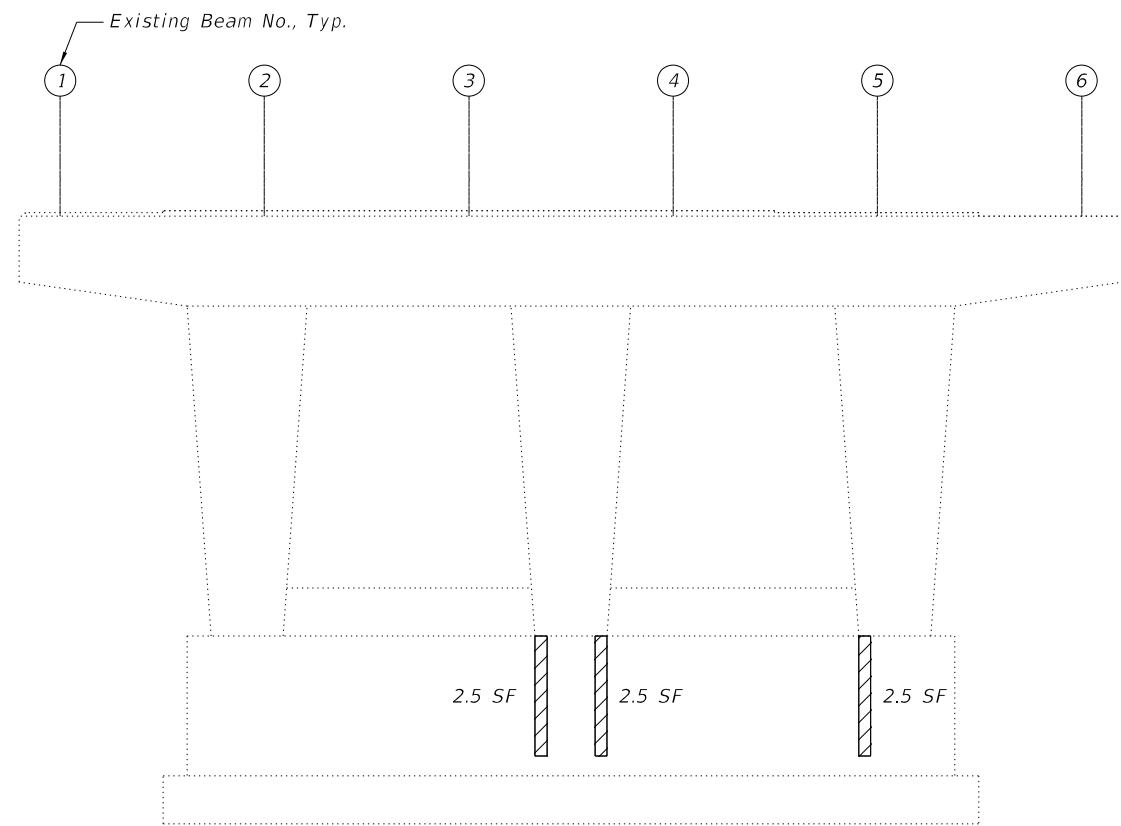
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SUBSTRUCTURE REPAIRS I**  
**STRUCTURE NO. 038-0076**

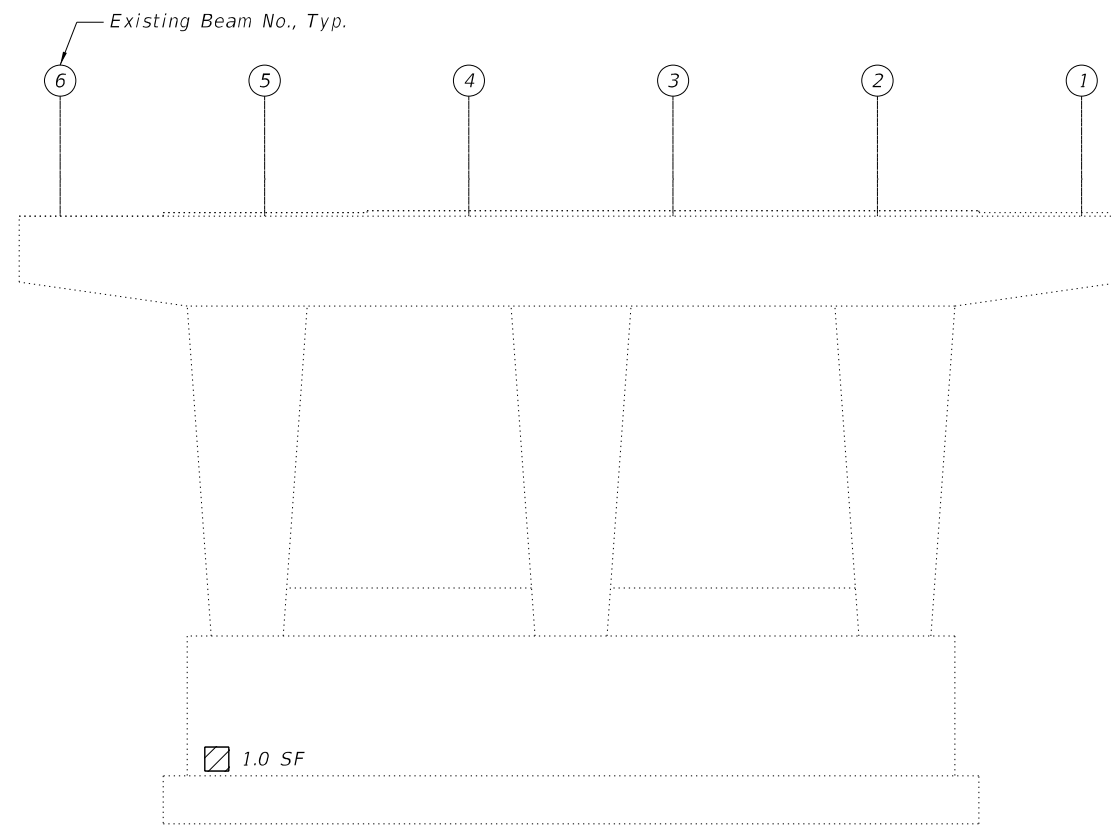
SHEET 29 OF 35 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-7HB-2)D	IROQUOIS	104	72
CONTRACT NO. 66E40				
ILLINOIS FED. AID PROJECT				

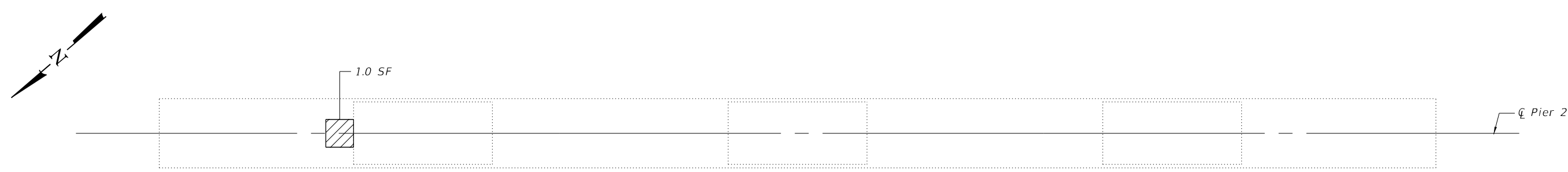
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**PIER 2 REPAIRS**  
 (Looking West)



**PIER 2 REPAIRS**  
 (Looking East)



**PIER 2 UNDERSIDE OF PIER CAP**

**PIER 2 REPAIRS**  
**BILL OF MATERIAL**

Item	Unit	Total
Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq. Ft.	10

**LEGEND**

Limits of Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)

**NOTE**

Areas of substructure repair are estimated based off the approved 2015 Bridge Condition Report. The engineer shall sound all exposed surfaces of the existing pier to determine exact limits of repairs.



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	CHECKED - I. LOPEZ	REVISED -

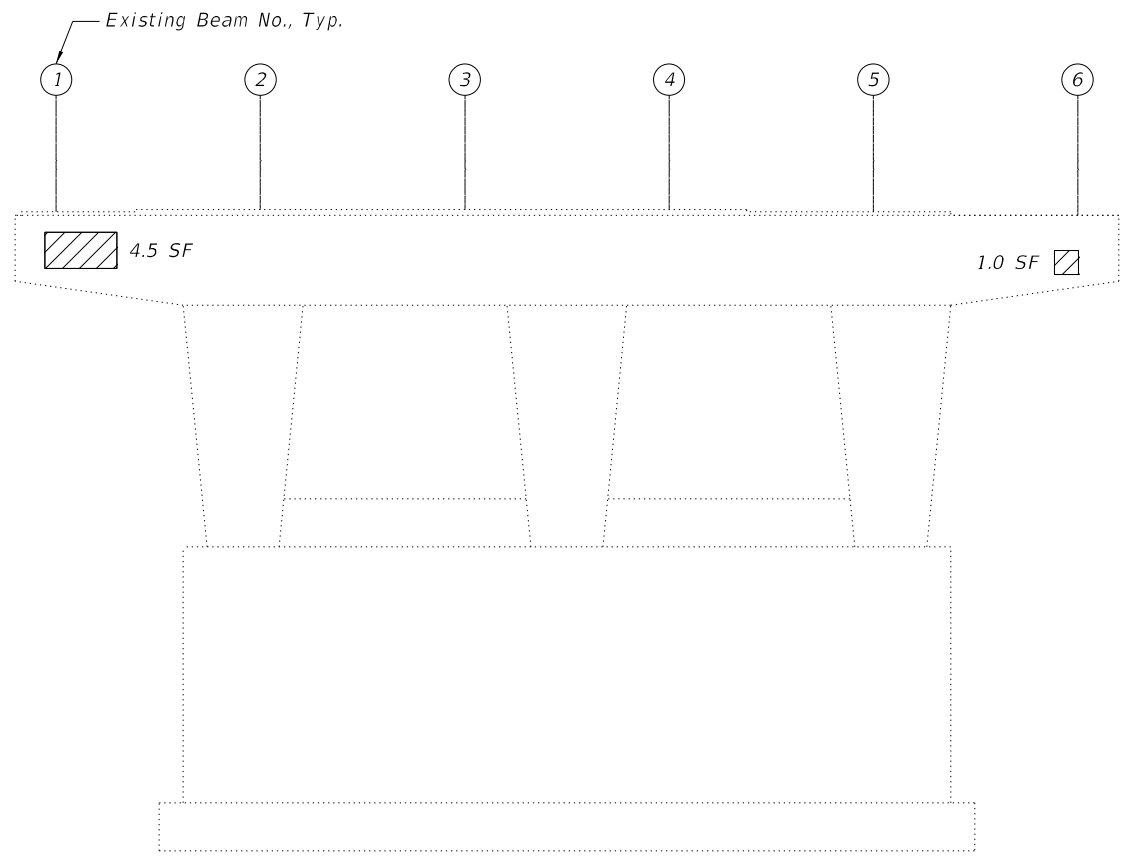
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SUBSTRUCTURE REPAIRS II**  
**STRUCTURE NO. 038-0076**

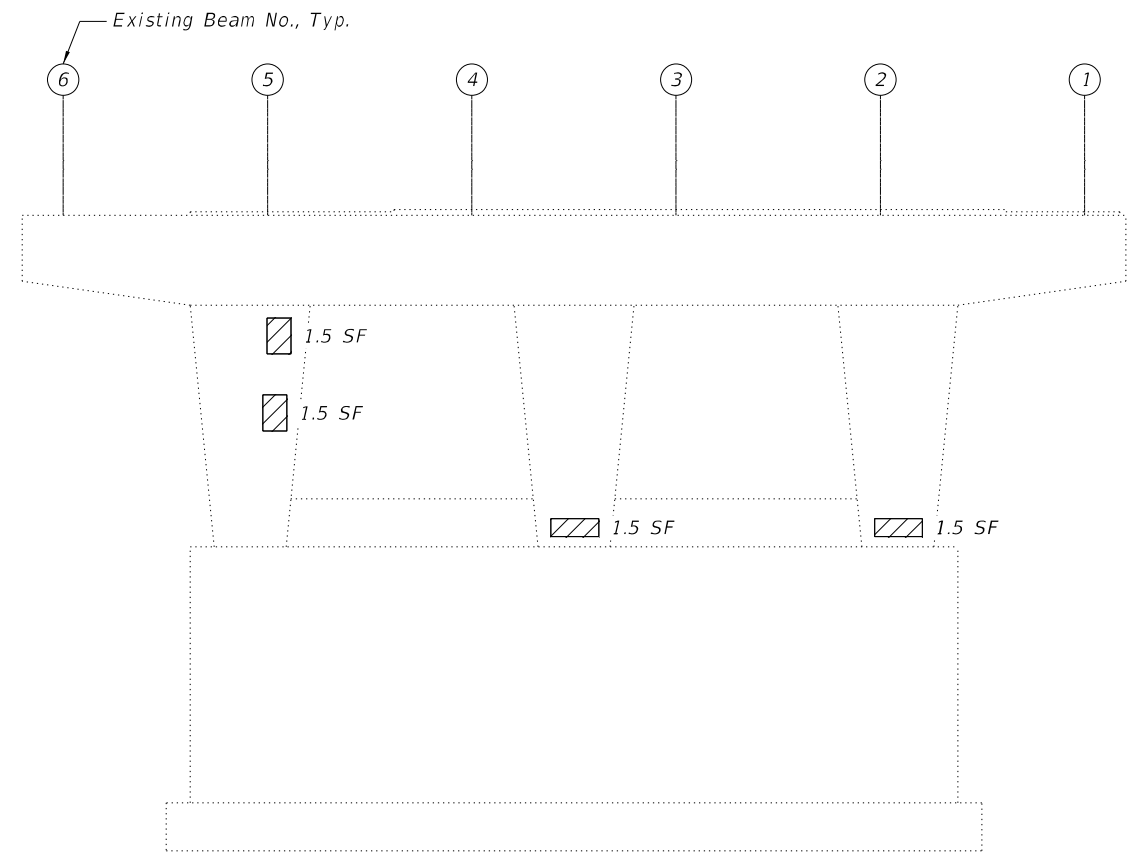
SHEET 30 OF 35 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-7HB-2)D	IROQUOIS	104	73
CONTRACT NO. 66E40				
		ILLINOIS	FED. AID PROJECT	

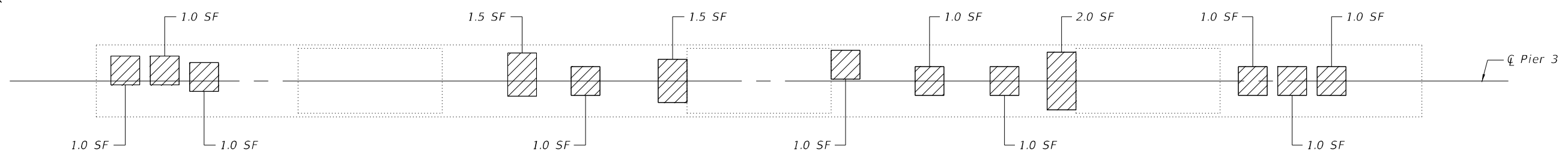
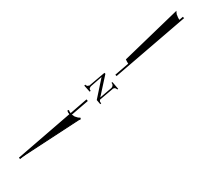
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**PIER 3 REPAIRS**  
 (Looking West)



**PIER 3 REPAIRS**  
 (Looking East)



**PIER 3 UNDERSIDE OF PIER CAP**

**PIER 3 REPAIRS**  
**BILL OF MATERIAL**

Item	Unit	Total
Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq. Ft.	27

**LEGEND**

Limits of Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)

**NOTE**

Areas of substructure repair are estimated based off the approved 2015 Bridge Condition Report. The engineer shall sound all exposed surfaces of the existing pier to determine exact limits of repairs.



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PLOT DATE = 08/10/2023	DRAWN - P. SARICH	REVISED -
	CHECKED - I. LOPEZ	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

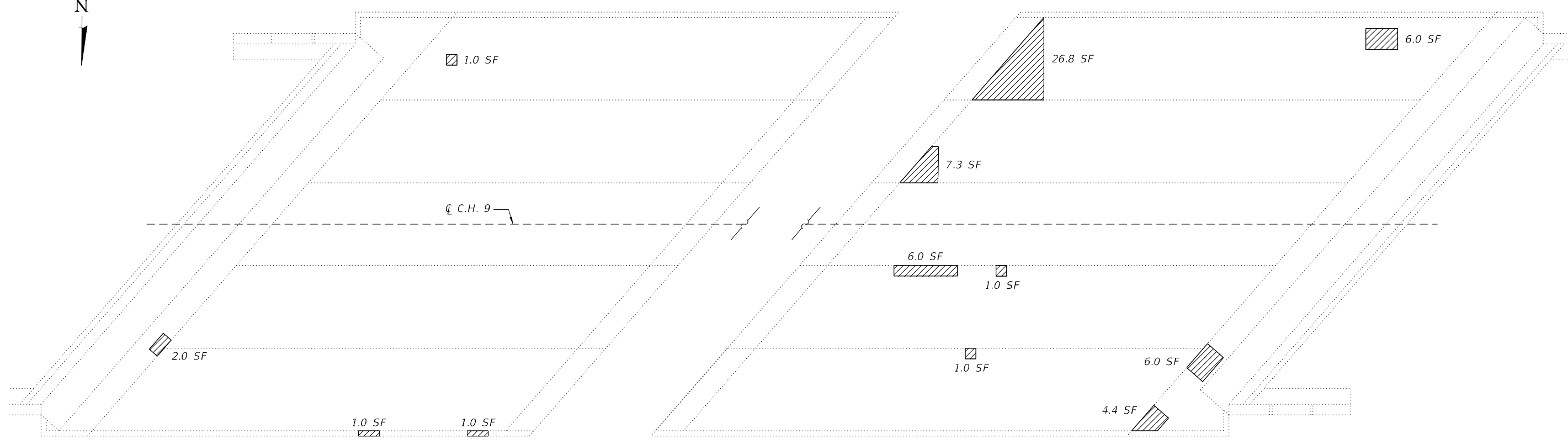
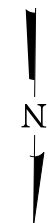
**SUBSTRUCTURE REPAIRS III**  
**STRUCTURE NO. 038-0076**

SHEET 31 OF 35 SHEETS

F.A.I. RTE. 57	SECTION (38-7HB-2)D	COUNTY IROQUOIS	TOTAL SHEETS 104	SHEET NO. 74
CONTRACT NO. 66E40				
ILLINOIS FED. AID PROJECT				

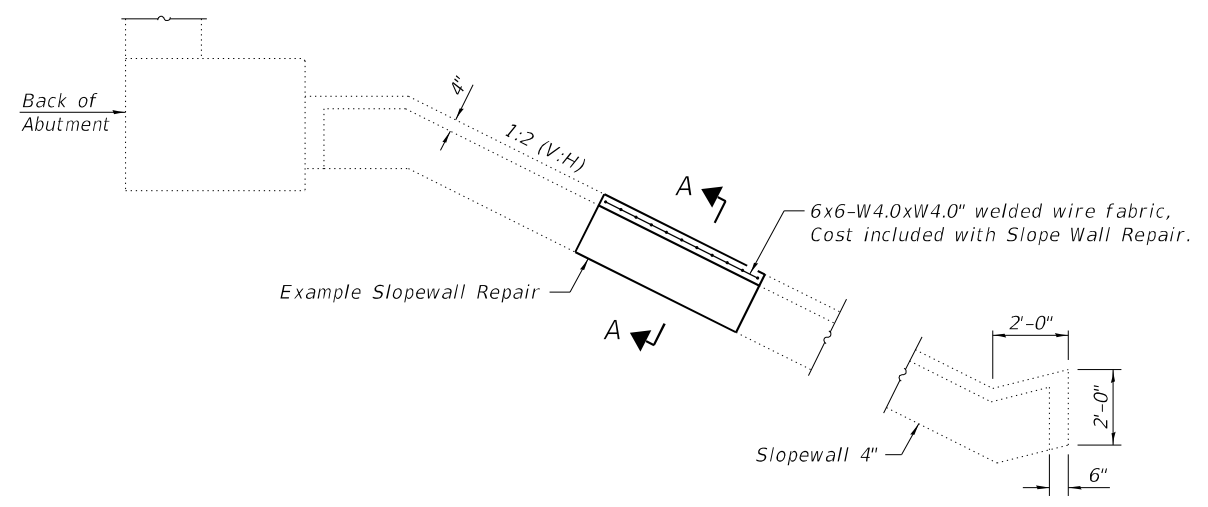


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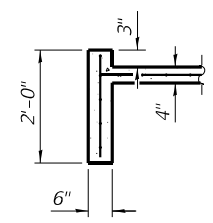


EAST SLOPEWALL PLAN

WEST SLOPEWALL PLAN



SECTION THRU CONCRETE SLOPEWALL



SECTION A-A

NOTES

- Slope wall shall be reinforced with welded wire fabric, 6 in. x 6 in. - W4.0 x W4.0, weighing 58 lbs. per 100 sq. ft.
- Areas of slopedwall repair are estimated based off the approved 2015 Bridge Condition Report. The engineer shall confirm limits of repairs in field at time of construction.
- Cost of all materials and labor required for repairs are included with the cost for Slope Wall Repair measured in place in square yards.
- Existing welded wire fabric shall be incorporated into repair areas. See special provision for additional details.

LEGEND

Limits of Slope Wall Repairs

SLOPEWALL BILL OF MATERIAL

Item	Unit	Total
Slope Wall Repair	Sq. Yd.	8



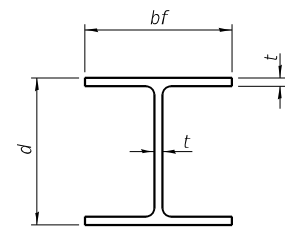
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STATE OF ILLINOIS  
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SLOPEWALL REPAIR DETAILS  
 STRUCTURE NO. 038-0076

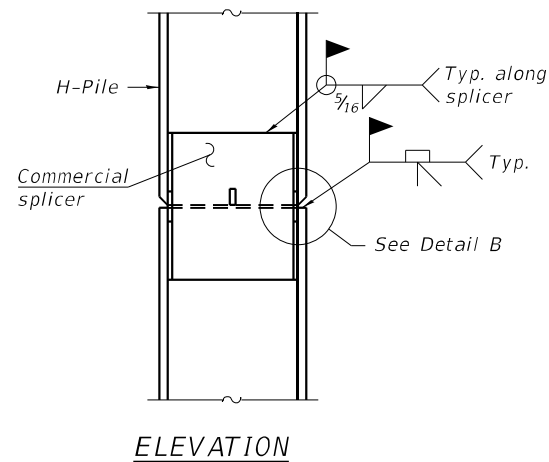
SHEET 32 OF 35 SHEETS

F.A.I. RTE. 57	SECTION (38-7HB-2)D	COUNTY IROQUOIS	TOTAL SHEETS 104	SHEET NO. 75
CONTRACT NO. 66E40				
ILLINOIS FED. AID PROJECT				

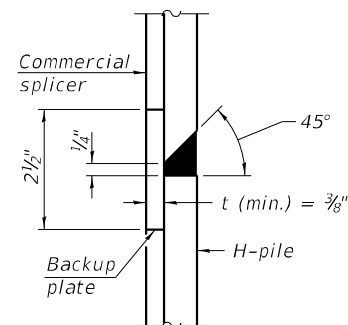


**STEEL PILE TABLE**

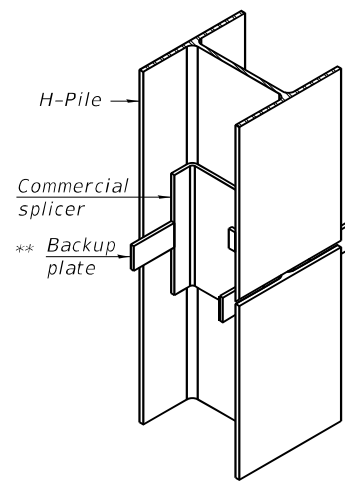
Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1 1/16"	30"
x89	13 3/8"	14 3/4"	5/8"	30"
x73	13 3/8"	14 3/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1 1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11 3/4"	12"	7/16"	24"
HP 10x57	10"	10 1/4"	9/16"	24"
x42	9 3/4"	10 1/8"	7/16"	24"
HP 8x36	8"	8 1/8"	7/16"	18"



**ELEVATION**

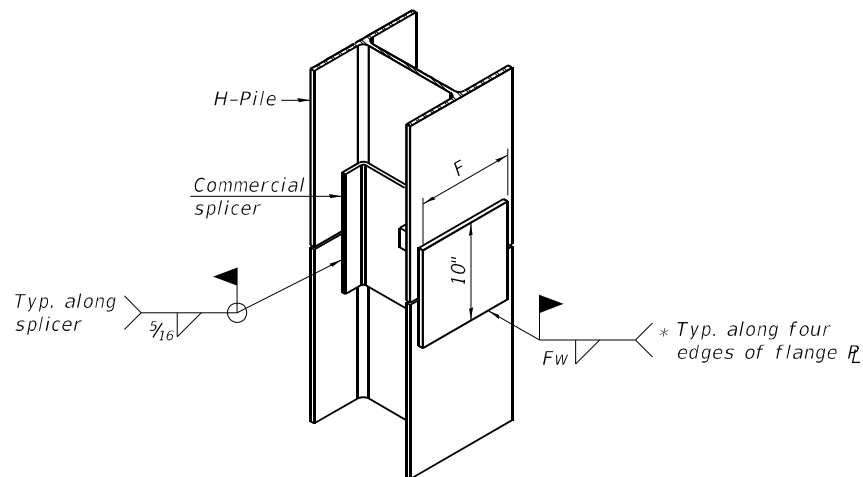


**DETAIL "B"**



**ISOMETRIC VIEW**

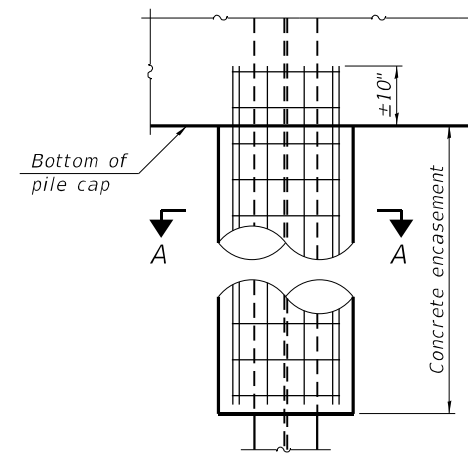
**WELDED COMMERCIAL SPLICE**



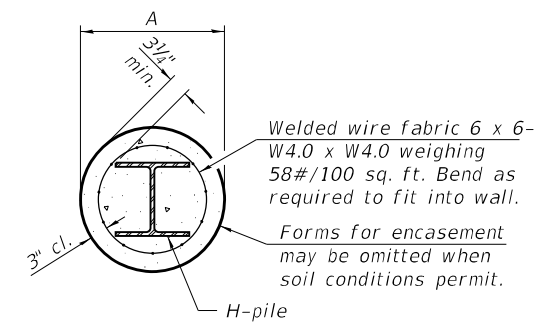
**ISOMETRIC VIEW**

**WELDED COMMERCIAL SPLICE ALTERNATE**

- \* Interrupt welds 1/4" from end of web and/or each flange.
- \*\* Remove portions of backup plates that extend outside the flanges.
- \*\*\* Weld size per pile shoe manufacturer (5/16" min.).

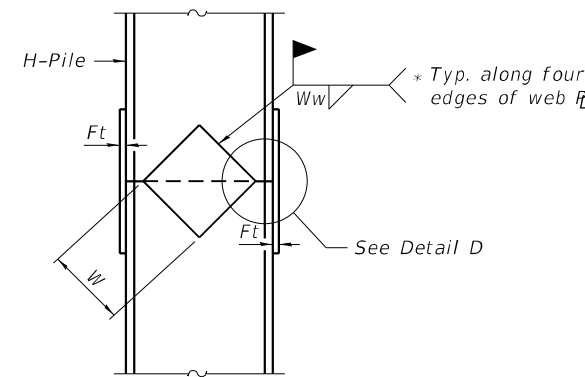


**ELEVATION**

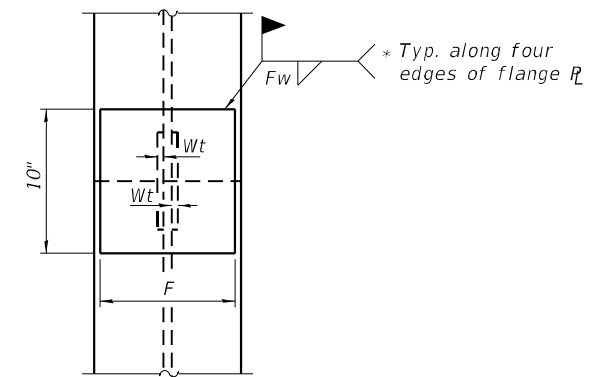


**SECTION A-A**

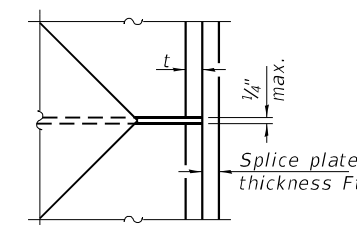
**INDIVIDUAL PILE CONCRETE ENCASUREMENT (when specified)**



**ELEVATION**



**END VIEW**



**DETAIL D**

**WELDED PLATE FIELD SPLICE**

Designation	F	Ft	Fw	W	Wt	Ww
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	1 1/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	1 1/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	1 1/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"

Note:  
The steel H-piles shall be according to AASHTO M270 Grade 50.

F-HP 2-1-2023



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	CHECKED - I. LOPEZ	REVISED -

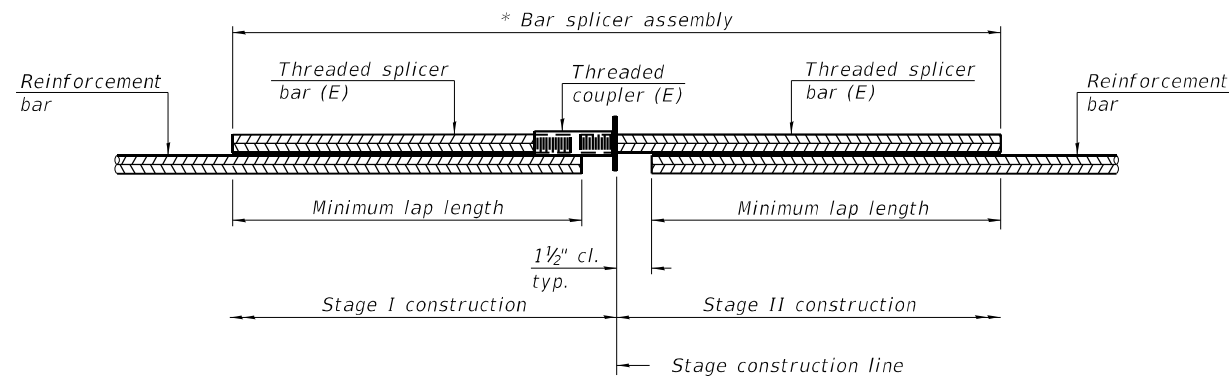
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

HP PILE DETAILS  
STRUCTURE NO. 038-0076

SHEET 33 OF 35 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-7HB-2)D	IROQUOIS	104	76
CONTRACT NO. 66E40				
ILLINOIS FED. AID PROJECT				

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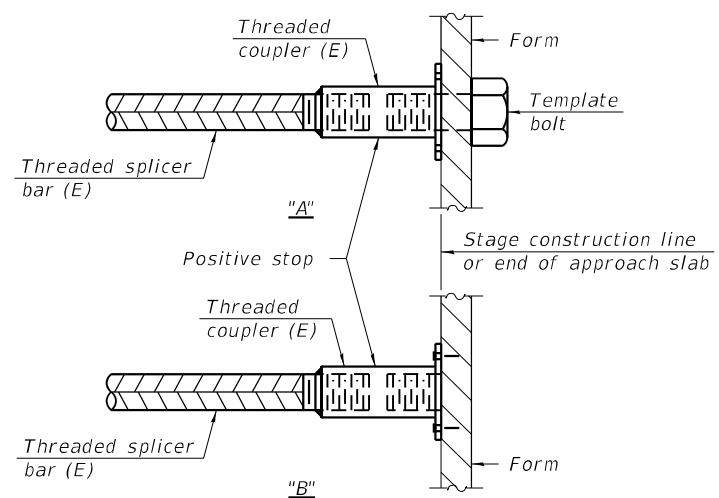
**STANDARD BAR SPLICER ASSEMBLY PLAN**

Only bar splicer assemblies as presented on the approved QPL list may be used.

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

\* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Bridge Deck Slab	#5	890	3'-6"
E. Abut. Diaph.	#4	2	2'-5"
	#6	10	3'-7"
W. Abut. Diaph.	#4	2	2'-5"
	#6	10	3'-7"
E. Appr. Slab	#5	35	3'-0"
	#8	46	4'-9"
E. Appr. Footing	#5	40	3'-0"
W. Appr. Slab	#5	35	3'-0"
	#8	46	4'-9"
W. Appr. Footing	#5	40	3'-0"

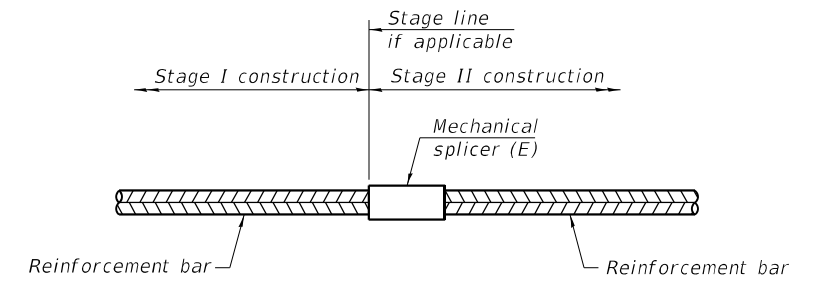


**INSTALLATION AND SETTING METHODS**

"A" : Set bar splicer assembly by means of a template bolt.

"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E) : Indicates epoxy coating.



**STANDARD MECHANICAL SPLICER**

Location	Bar size	No. assemblies required

**Notes:**

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.

All reinforcement shall be lapped and tied to the splicer bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.

See approved list of bar splicer assemblies and mechanical splicers for alternatives.

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BSD-1

2-1-2023



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PLOT SCALE = N.T.S.	DRAWN - P. SARICH	REVISED -
PLOT DATE = 08/10/2023	CHECKED - I. LOPEZ	REVISED -

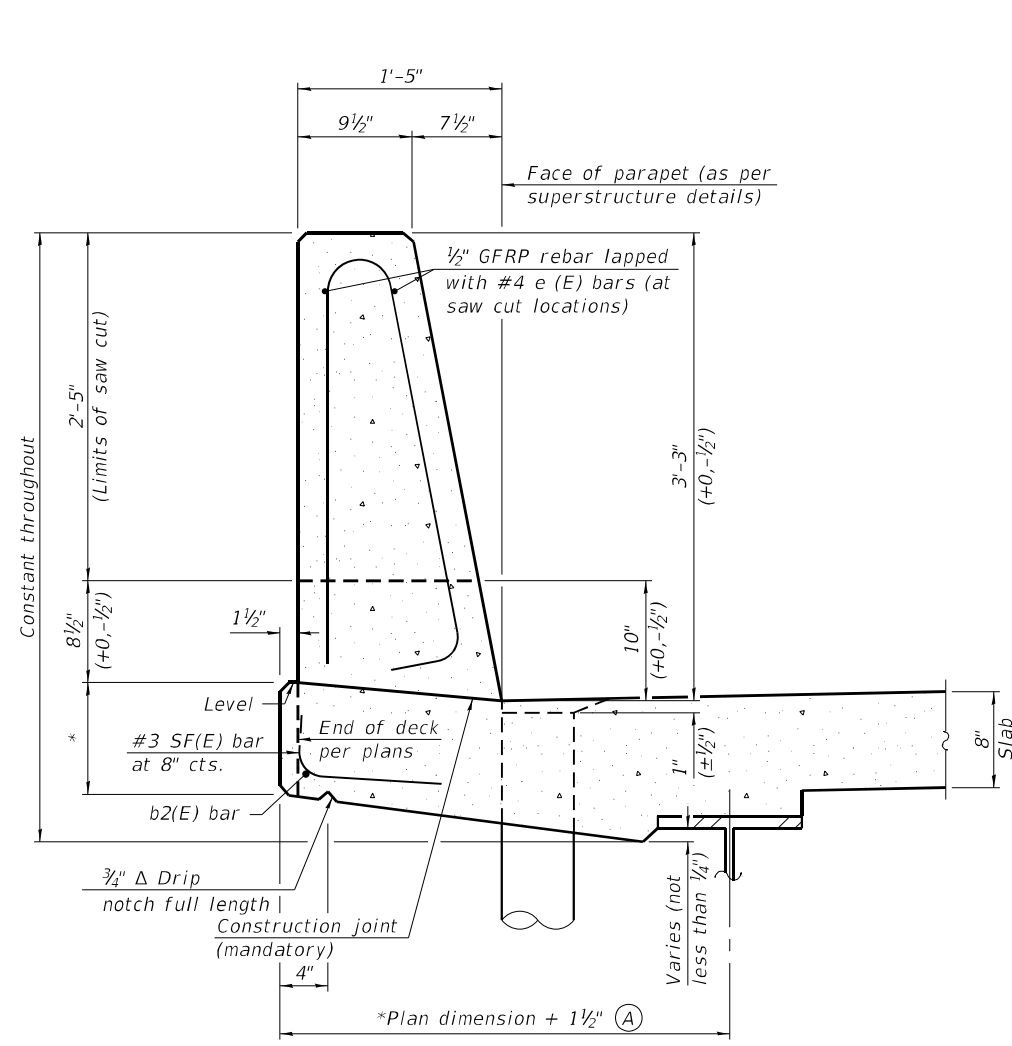
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BAR SPLICER DETAILS  
STRUCTURE NO. 038-0076

SHEET 34 OF 35 SHEETS

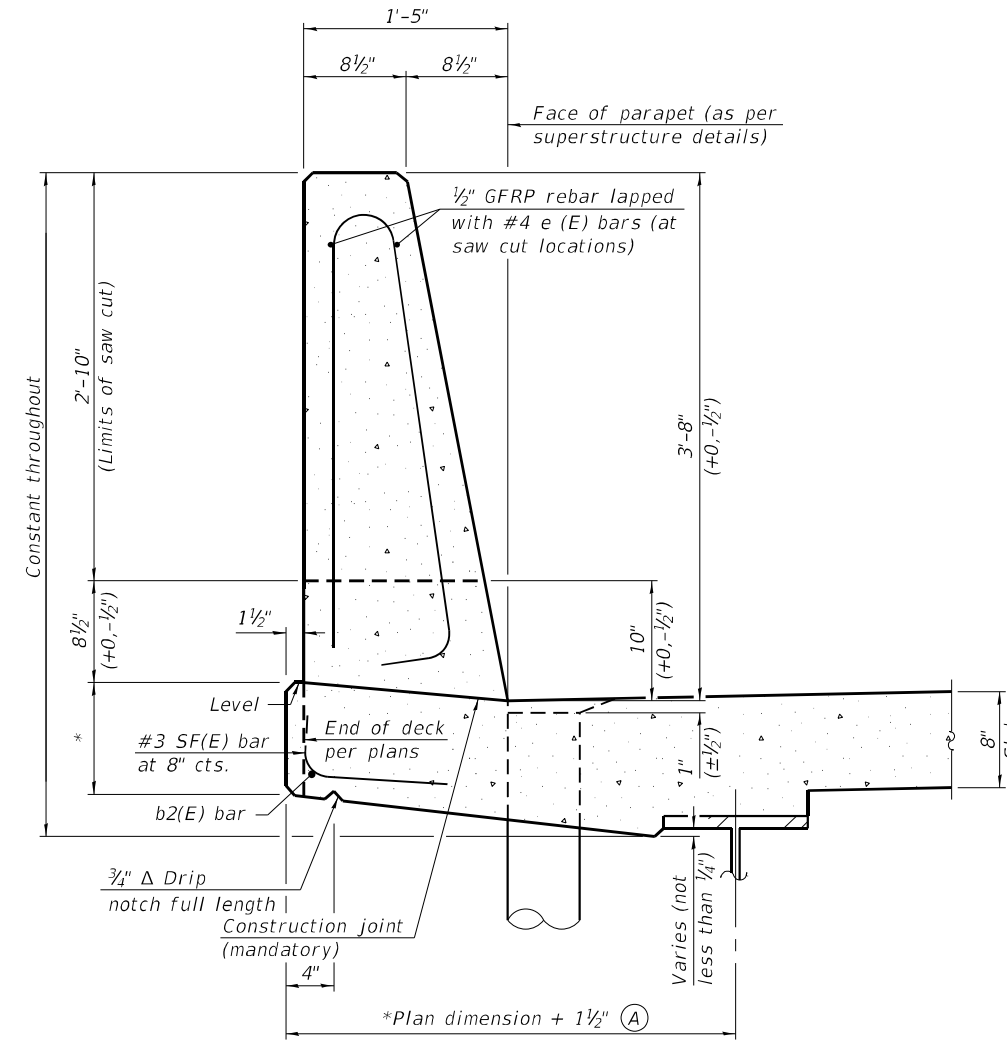
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-7HB-2)D	IROQUOIS	104	77
CONTRACT NO. 66E40				
ILLINOIS FED. AID PROJECT				

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**39" CONSTANT-SLOPE  
 PARAPET SECTION**

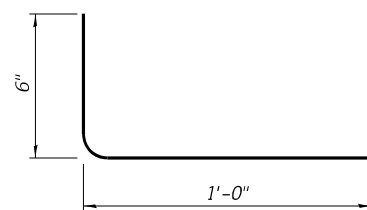
(Showing dimensions, d(E), and 1/2" Ø GFRP rebar)



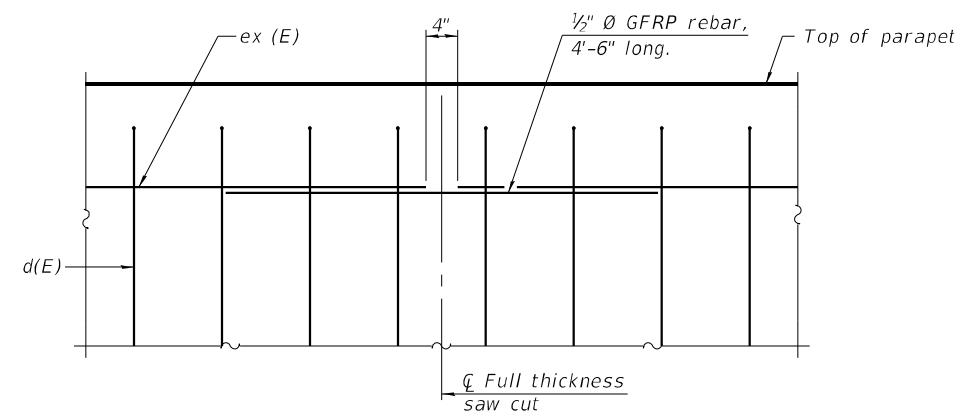
**44" CONSTANT-SLOPE  
 PARAPET SECTION**

(Showing dimensions, d(E), and 1/2" Ø GFRP rebar)

\*See Superstructure Details.



**SF(E) BAR**



**GFRP REBAR STIFFENING DETAIL**

(Place as shown in parapet section at each parapet joint location.)

Notes:  
 All dimensions shall remain the same as shown on superstructure details, except dimension A which is to be revised as shown. Additional concrete needed to revise dimension A = 0.00348 cu. yds./ft. for 39" and 44" parapets.  
 Place full depth aluminum sheets as shown on superstructure details.  
 Replace all cork joint filler locations with a full thickness saw cut.  
 Steel superstructure shown. Other superstructure types similar.

SFP 39-44

11-1-2022



USER NAME =	DESIGNED - P. SARICH	REVISED -
PLOT SCALE = N.T.S.	CHECKED - I. LOPEZ	REVISED -
PLOT DATE = 08/10/2023	DRAWN - P. SARICH	REVISED -
	CHECKED - I. LOPEZ	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

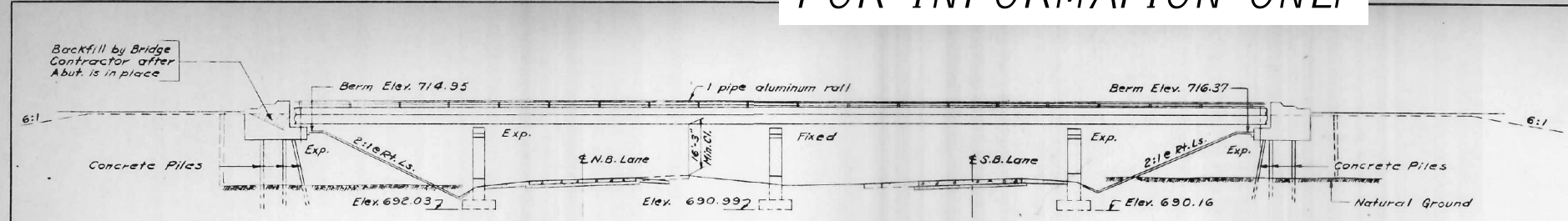
**CONCRETE PARAPET SLIPFORMING OPTION  
 STRUCTURE NO. 038-0076**

SHEET 35 OF 35 SHEETS

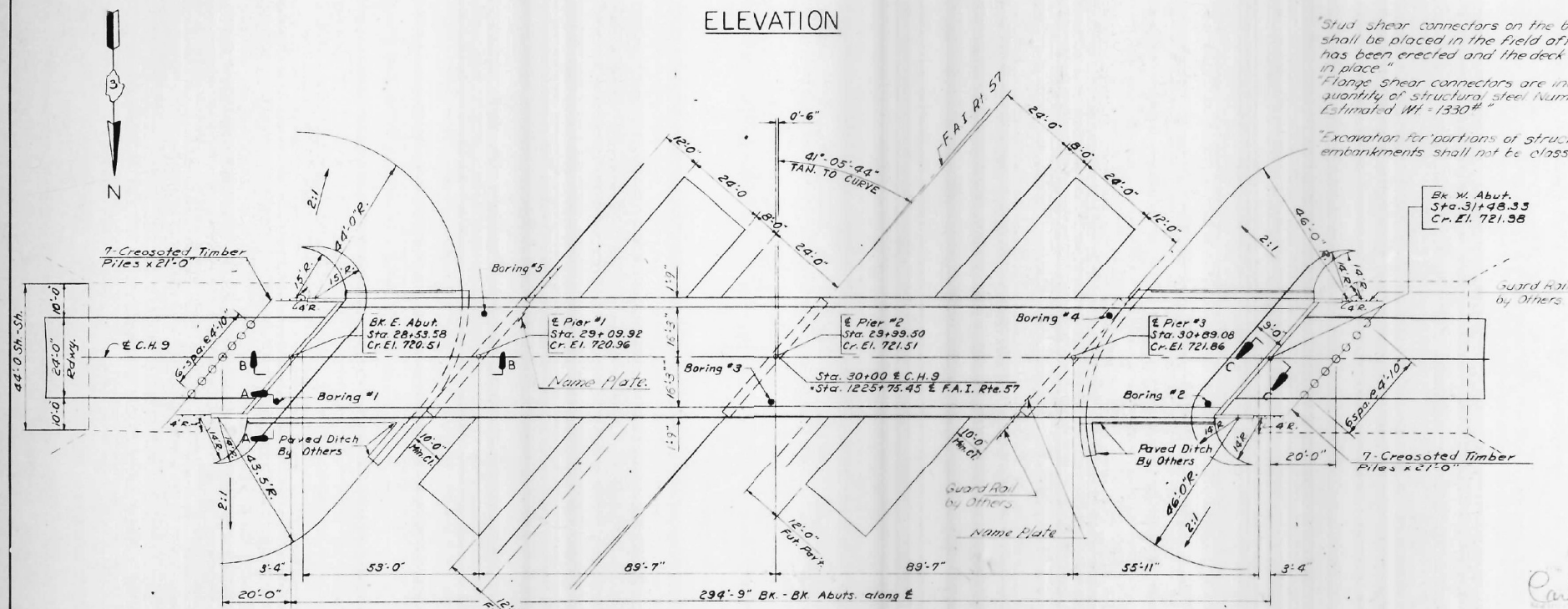
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57	(38-7HB-2)D	IROQUOIS	104	78
CONTRACT NO. 66E40				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

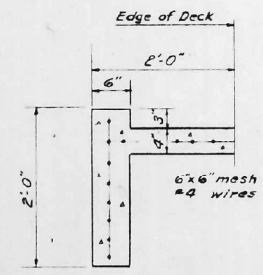
PROJECT NO.	57	SHEET NO.	38-7 HB-2
TITLE	Iroquois		
DATE	46	REVISED	12
Sheet No. 1			



ELEVATION



PLAN



SECTION A-A

STATION 1225+75.45  
 BUILT 196 BY  
 STATE OF ILLINOIS  
 F.A.I. RT. 57 SEC. 38-7HB-2  
 F.A. PROJ. I-57-6(87)  
 LOADING HS-20

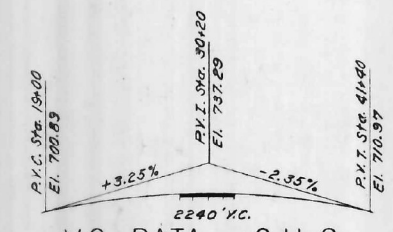
NAME PLATE  
 See Std. 2113-1

DESIGN STRESSES

$f_c = 1400$  p.s.i. Super & Sub.  
 $f_s = 20,000$  p.s.i. Reinf.  
 $f_s = 20,000$  p.s.i. Struct. (A-36)  
 $n = 10$

Allowable  $\delta$  Deflection  
 $L/1000$  Non-Comp.  
 $L/1200$  Comp.

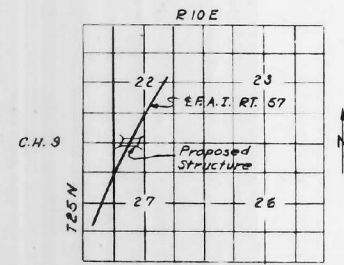
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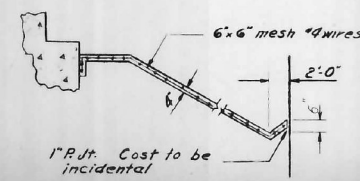
V.C. DATA - C.H. 9

CURVE DATA F.A.I. RT. 57

P.I. Sta. 1266+17.35  
 $\Delta = 44^\circ 42' 42.31''$   
 $D = 01^\circ 00' 00''$   
 $T = 2356.40'$   
 $L = 4471.18'$   
 $R = 5729.58'$   
 $E = 465.64'$   
 $G = 0.028\%$   
 $S$  - Attained  
 Sta. 1221+26.95 to Sta. 1223+26.95  
 Full S (Drawn Removed)  
 Sta. 1223+26.95 to Sta. 1266+66.13  
 $S$  - Removed  
 Sta. 1266+66.13 to Sta. 1268+66.13



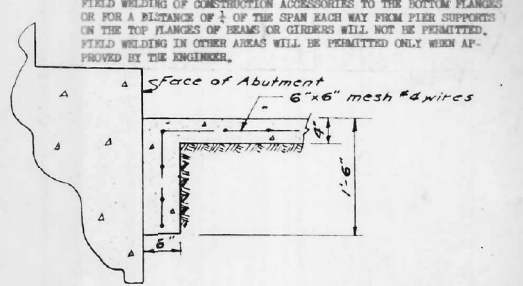
LOCATION PLAN



SECTION B-B

GENERAL NOTES

Coarse aggregate to be used in parapet handrails and end posts must be absolutely free of chert, flint, limonite, lignite and sandstone.  
 The concrete floor slab shall be finished in accordance with Art. 51.19 of the Standard Specification.  
 Slope wall shall be reinforced with welded wire fabric 6"x6" mesh, weighing 58# per 100 sq. ft. or more.  
 All reinforcement bars shall be lapped 20 dia.  
 Unless otherwise noted:  
 Permanent forms will not be permitted in forming the concrete floor.  
 Rivets  $\frac{3}{8}$ " open holes  $\frac{13}{16}$ "  $\phi$ , unless otherwise noted.  
 Anchor bolts shall be set before riveting diaphragms over supports.  
 The exposed surfaces of the expansion guard shall be given two shop coats of red lead paint, the contact surfaces shall be given one coat of red lead paint.  
 Anchor studs shall not be painted.  
 Expansion guards are included in the quantity of structural steel. Estimated weight 2,130 Lbs.  
 Except as otherwise provided, all structural steel shall receive one shop coat of red lead paint and two field coats of paint. See Special Provisions for field paint.  
 The Contractor shall drive 2 concrete test piles in a permanent location, one each at the East and West Abutments as directed by the Engineer before ordering the remainder of the piles.  
 Concrete piles at abutments shall be driven in holes precored through the embankment in accordance with Art. 60.9 (c) of the Standard Specifications.  
 All structural steel shall comply to the Specification for Structural Steel A.S.T.M. designation A-36.



SECTION C-C

TOTAL BILL OF MATERIAL

Item	Super	Sub	Total
Class "A" Exc. for Struct.	—	340	340
Class "X" Concrete	307.0	327.1	634.7
Furn. & Erecting Struct. Steel	317,360	—	317,360
Reinforcing Bars	Lbs. 92,100	85,110	177,210
Aluminum Handrail	Lin. Ft. 581	—	581
Slope Wall #	Sq. Yds. —	518	518
Protective Coat	Sq. Yds. 1297	—	1297
Concrete Piles	Lin. Ft. —	800	800
Test Piles Concrete	Eq. —	2	2
Creosoted Piles (20' to 38.0')	Lin. Ft. —	294	294
Creosoted Piles (over 38.0')	Lin. Ft. —	—	—
Name Plates	Eq. —	2	2
* Bridge Seat Sealant	Lump Sum	1	1

\* Bridge Seat Sealant to be used at both Abutments.  
 Note: Approach Slab by Roadway Contractor

GENERAL PLAN & ELEVATION

PROJ. I-57-6 (87)  
 C.H. 9 OVER F.A.I. RT. 57  
 F.A.I. RT. 57 SEC. 38-7HB-2  
 IROQUOIS COUNTY  
 STA. 1225+75.45

Rev. C1 X Conc Super from 3278 to 3070 Cu Yds Sub from 293 2 to 3277 Cu Yds Total from 6210 to 6347 Cu Yds Furn & Erect Str. Steel from 314,580 to 317,360  
 Reinf Super from 70,490 to 92,100 Sub from 35,260 to 85,110 Total from 105,750 to 177,210 Conc Piles from 1,378 to 800 Lin Ft. B-22-67 F9

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 10/13/2023 1:50:09 PM



DESIGNED	E.L.	DESIGNED	P. SARICH	REVISED	—
CHECKED	J.B.	CHECKED	I. LOPEZ	REVISED	—
DRAWN	J. Garrett	DRAWN	P. SARICH	REVISED	—
CHECKED	R.R.	CHECKED	I. LOPEZ	REVISED	—

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS I  
 STRUCTURE NO. 038-0076

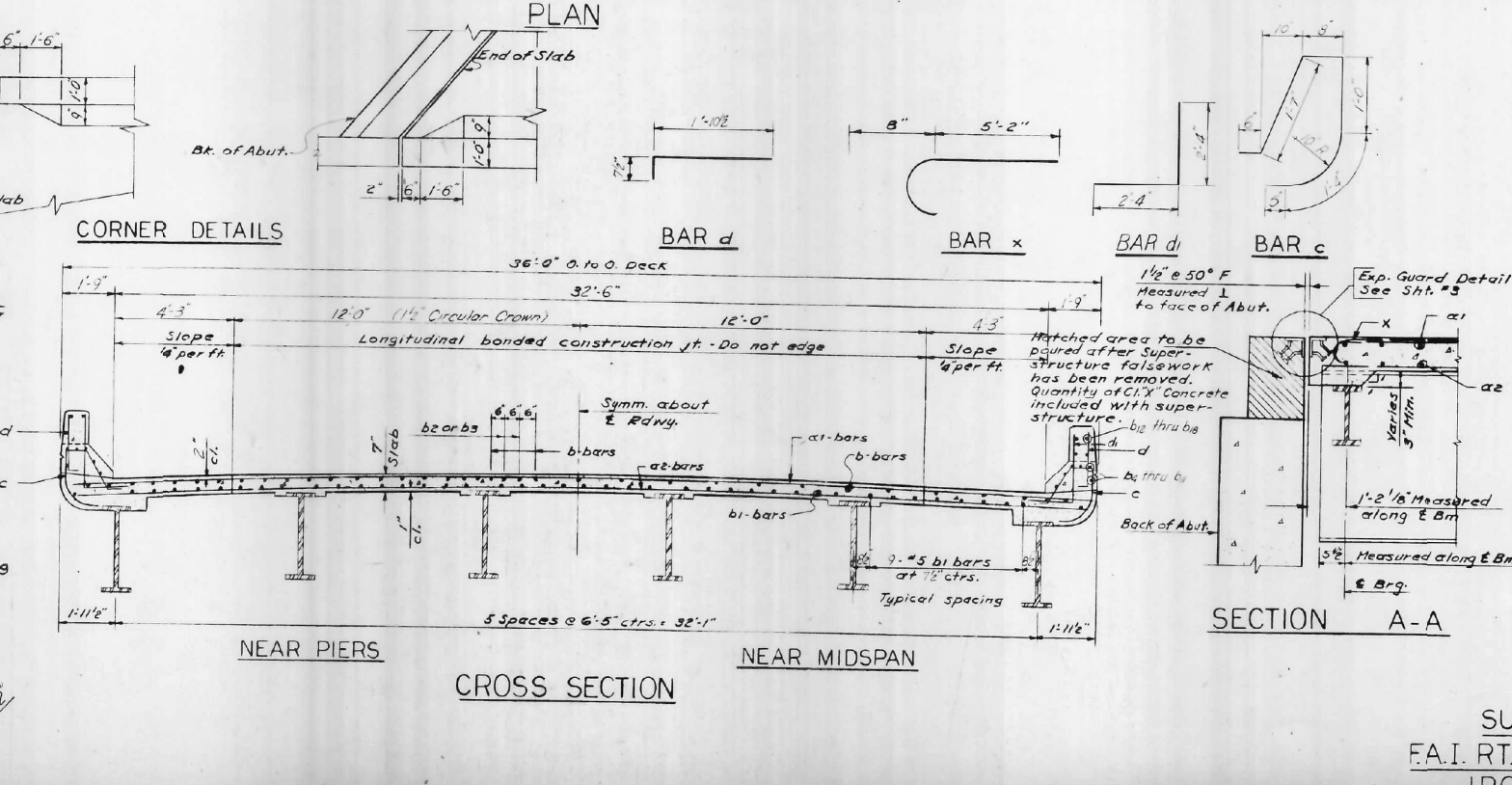
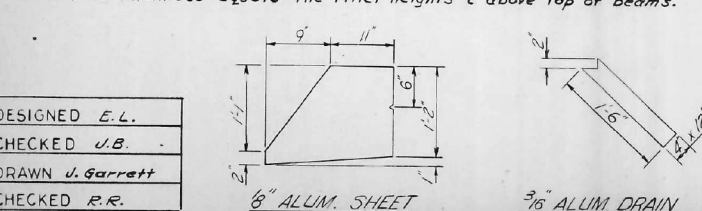
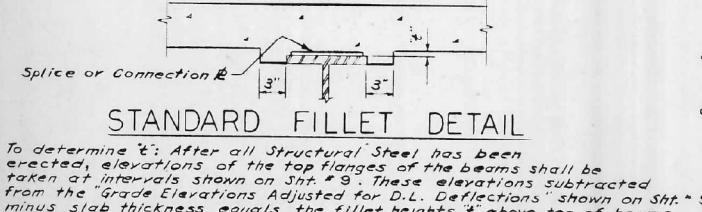
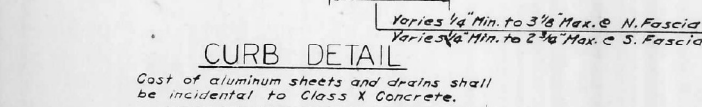
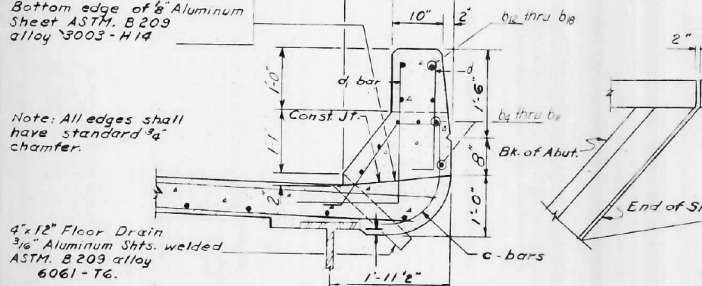
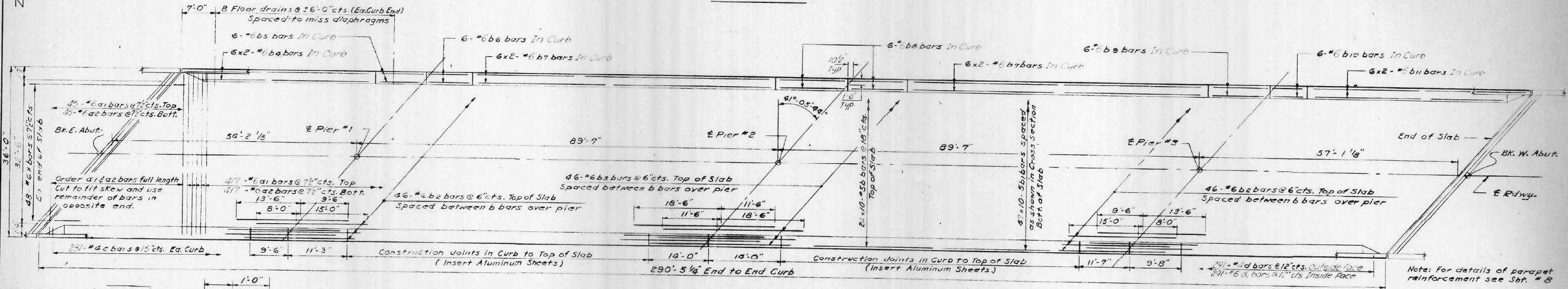
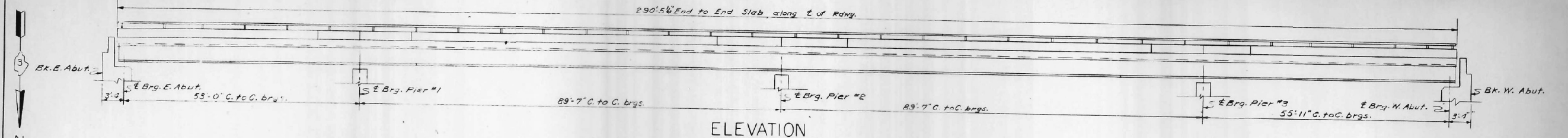
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-7HB-2)D	IROQUOIS	104	79
CONTRACT NO. 66E40				
ILLINOIS FED. AID PROJECT				

SHEET 1 OF 10 SHEETS



FOR INFORMATION ONLY

57 38-7 Iroquois 46 13  
Sheet No. 2



Bar No.	Size	Length	Shape
a1	462 #6	35'-8"	
a2	462 #6	35'-3"	
d	582 #4	4'-6"	
b	240 #5	30'-3"	
b1	470 #5	30'-3"	
b2	92 #6	25'-0"	
b3	46 #6	30'-0"	
b4	24 #6	22'-6"	
b5	12 #6	9'-3"	
b6	12 #6	11'-0"	
b7	48 #6	32'-6"	
b8	24 #6	13'-9"	
b9	12 #6	11'-4"	
b10	12 #6	9'-5"	
b11	24 #6	24'-0"	
b12	24 #5	11'-7"	
b13	8 #5	11'-4"	
b14	16 #5	9'-3"	
b15	8 #5	11'-0"	
b16	6 #5	15'-0"	
b17	16 #5	13'-9"	
b18	24 #5	15'-6"	
c	462 #4	5'-6"	
d	582 #6	4'-8"	
x	96 #6	5'-10"	
Class X Concrete CU Yds. 379.0			
Reinforcement Bars Lbs. 22,100			
Structural Steel Lbs. 37,360			

DESIGNED E.L.  
CHECKED U.B.  
DRAWN J. Garrett  
CHECKED R.R.

Rev Curb Configuration Class X Conc from 327.8 to 307.0 Cu Yds Reinf from 70,490# to 92,100# Str Steel from 34,560# to 37,360# 8-12-87 F.S.  
Top of Slab reinf cl from 14' to 2'

SUPERSTRUCTURE  
F.A.I. RT. 57 SEC. 38-7HB-2  
IROQUOIS COUNTY  
STA. 1225+7545

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USER NAME =	DESIGNED - P. SARICH	REVISED -
PLOT SCALE = N.T.S.	CHECKED - I. LOPEZ	REVISED -
PLOT DATE = 08/10/2023	DRAWN - P. SARICH	REVISED -
	CHECKED - I. LOPEZ	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS II  
STRUCTURE NO. 038-0076  
SHEET 2 OF 10 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-7HB-2)D	IROQUOIS	104	80
CONTRACT NO. 66E40				
ILLINOIS FED. AID PROJECT				



FOR INFORMATION ONLY

PROJECT NO.	57	SECTION	38-7	SHEET NO.	46	TOTAL SHEETS	146
DATE	1/28/2	PROJECT	IRROQUOIS				
Sheet No. 3							

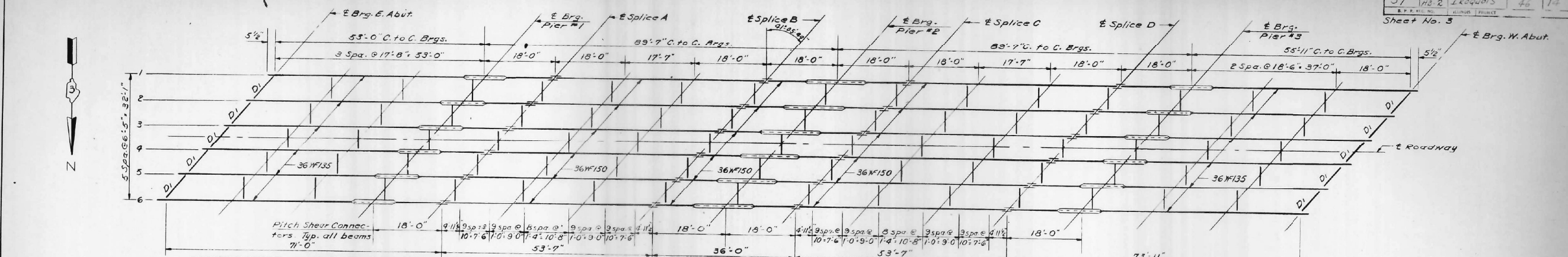
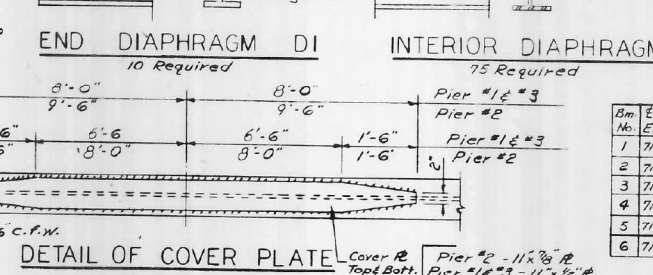
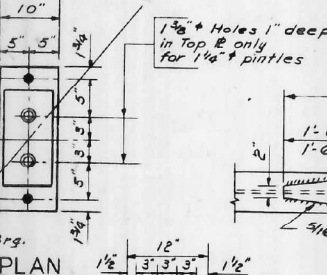
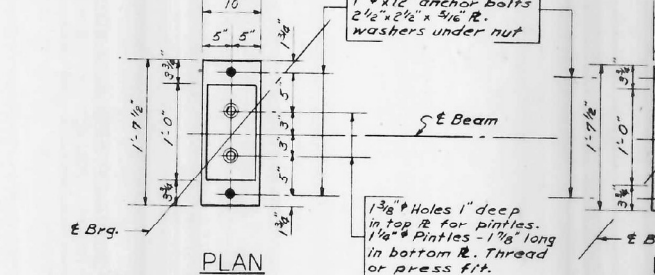
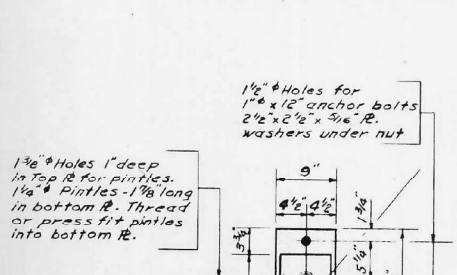
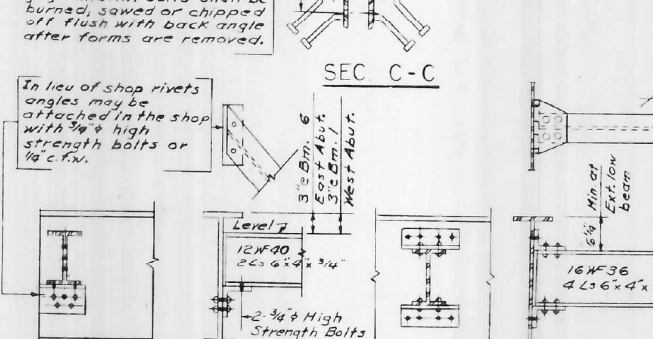
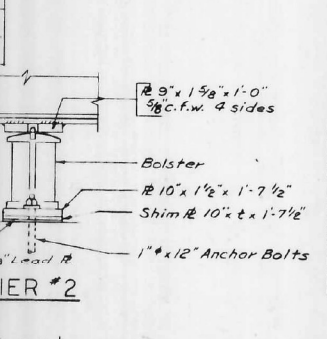
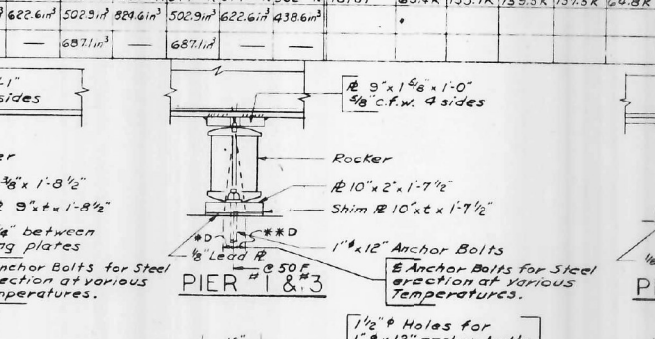
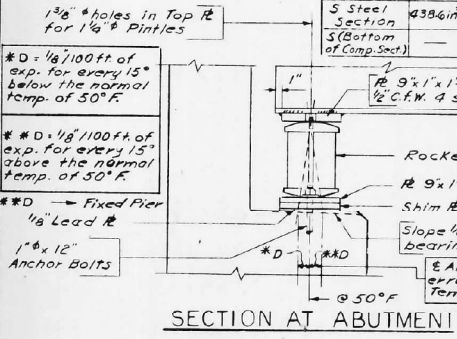


TABLE OF MOMENTS & REACTIONS (Int. Beams)

Moments	0.4521	Pier #1	10.5582	Pier #2	10.5582	Pier #3	10.4521	Reactions	E. Abut.	Pier #1	Pier #2	Pier #3	W. Abut.
D.L.	36.4K	40.2K	24.8K	12.0K	24.8K	40.2K	36.4K	Imposed	12.5K	59.3K	73.3K	60.3K	13.8K
Imposed	25.7K	25.7K	25.7K	25.7K	25.7K	25.7K	25.7K	L.L.	3.5K	15.5K	18.9K	15.8K	3.8K
L.L.	30.2K	33.5K	23.3K	12.0K	23.3K	33.5K	30.2K	Imposed	3.5K	15.5K	18.9K	15.8K	3.8K
Imposed	35.7K	35.7K	35.7K	35.7K	35.7K	35.7K	35.7K	L.L.	3.5K	15.5K	18.9K	15.8K	3.8K
Total	51.2K	59.7K	59.7K	59.7K	59.7K	59.7K	51.2K	Total	10.4K	12.4K	12.7K	12.5K	3.5K
3 Steel Section	438.6in <sup>3</sup>	622.6in <sup>3</sup>	502.9in <sup>3</sup>	622.6in <sup>3</sup>	502.9in <sup>3</sup>	622.6in <sup>3</sup>	438.6in <sup>3</sup>	Total	63.4K	135.7K	159.5K	137.5K	64.8K

Note: Diaphragm D1 are 12WF40 All other Diaphragms are 16WF36



ELEVATION TOP OF W

Br. No.	E. Abut.	E. Brg.	E. Brg.	E. Brg.	E. Brg.	E. Brg.	E. Brg.	E. Brg.	E. Brg.
1	713.812	720.152	720.294	720.455	720.742	720.826	720.997	721.059	721.232
2	713.892	720.252	720.374	720.738	720.822	720.906	721.027	721.134	721.312
3	713.933	720.253	720.415	720.779	720.863	720.947	721.118	721.173	721.353
4	713.902	720.262	720.384	720.748	720.832	720.916	721.087	721.144	721.322
5	713.800	720.160	720.282	720.646	720.730	720.814	720.985	721.042	721.220
6	713.660	720.000	720.142	720.506	720.590	720.674	720.845	720.902	721.080

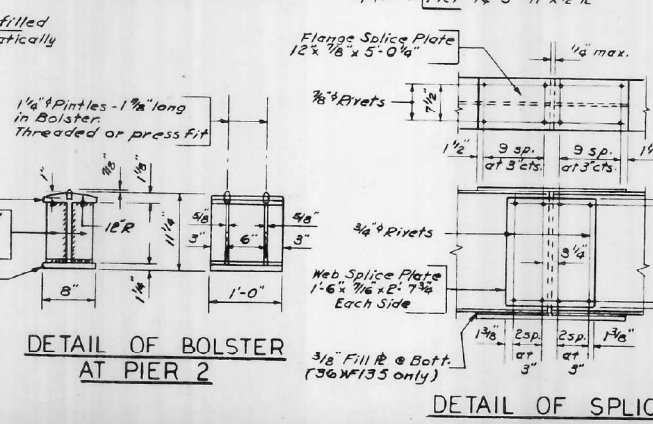
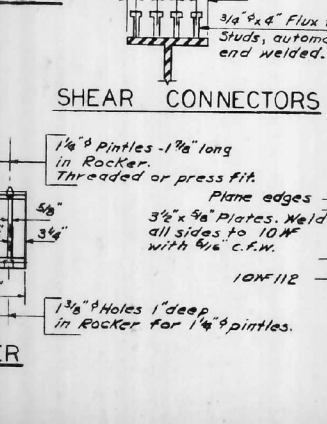
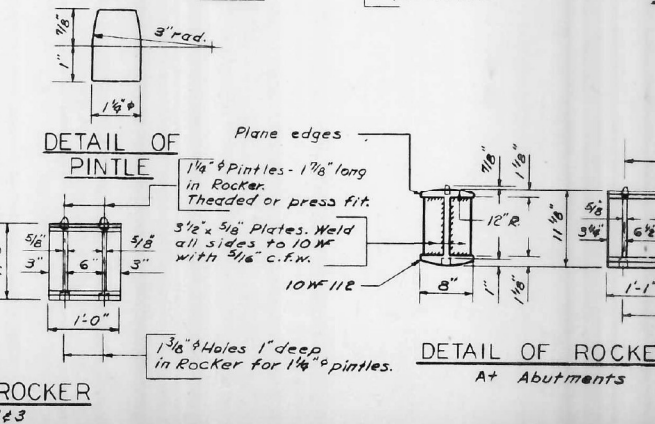
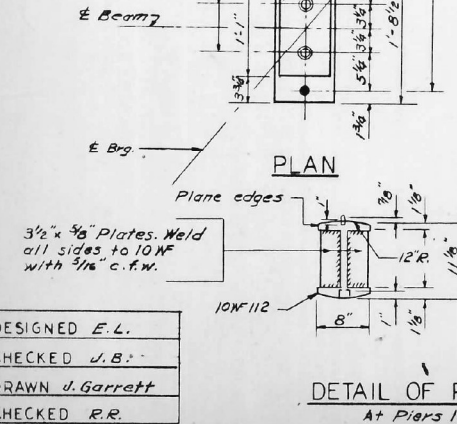


TABLE OF 'E' DIMENSIONS

Br. No.	E. Abut.	E. Brg.	E. Brg.	E. Brg.	E. Brg.	E. Brg.	E. Brg.
1	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0
3	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
4	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
5	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0

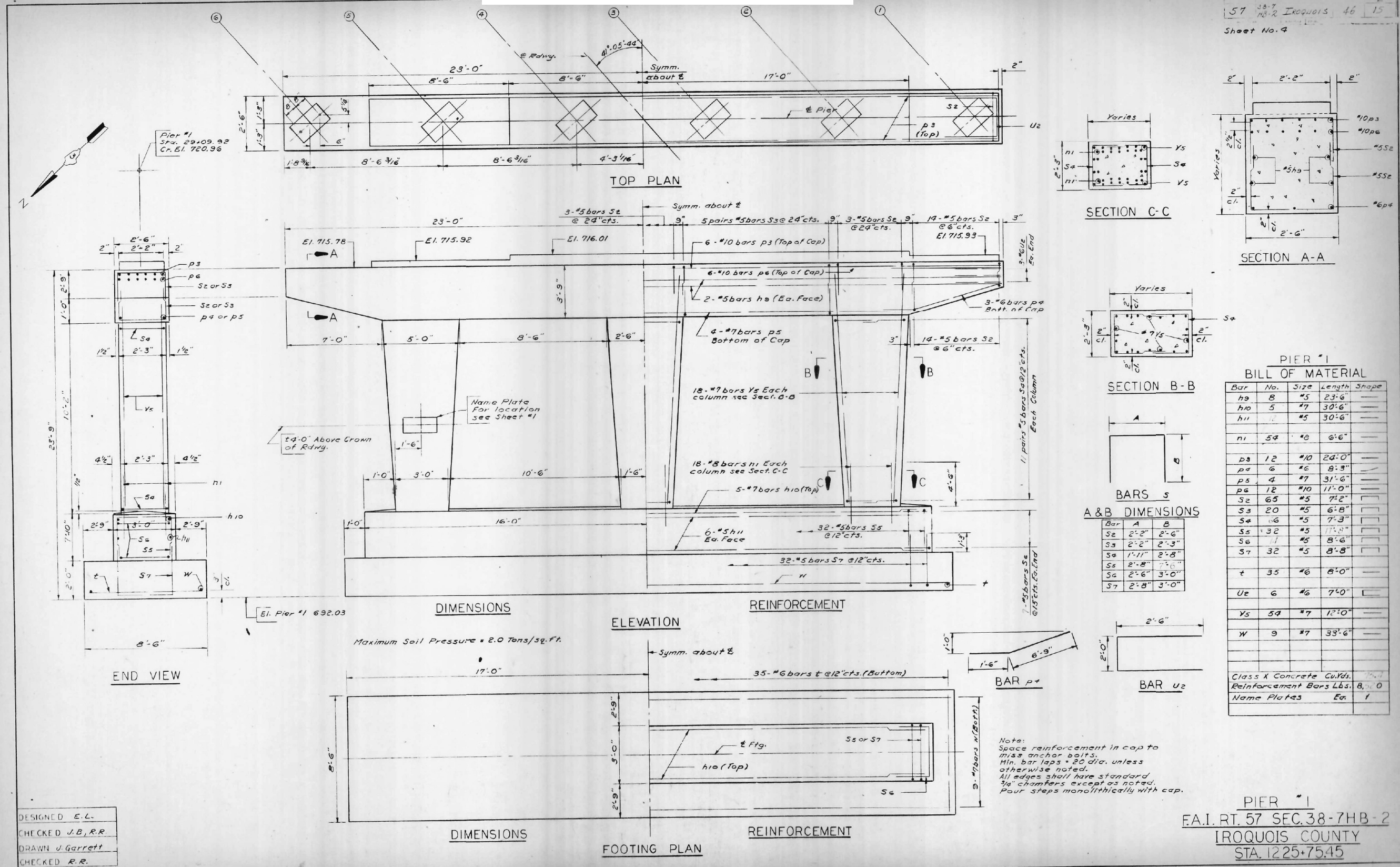
DESIGNED E.L.  
CHECKED J.B.  
DRAWN J. Garrett  
CHECKED R.R.

STRUCTURAL STEEL  
F.A.I. RT. 57 SEC. 38-7HB-2  
IROQUOIS COUNTY  
STA. 1225+7.545



# FOR INFORMATION ONLY

57 38-7 HB-2 IROQUOIS 46 15  
Sheet No. 4



DESIGNED E.L.  
 CHECKED J.B., R.R.  
 DRAWN J. Garrett  
 CHECKED R.R.

Rev. Cl. X Conc. from 632 to 75.4 Cu. Yds. Reinf. from 8,650# to 8,520# 8-22-67 F.S.

MODEL: Default  
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USER NAME =	DESIGNED - P. SARICH	REVISED -
PLOT SCALE = N.T.S.	CHECKED - I. LOPEZ	REVISED -
PLOT DATE = 08/10/2023	DRAWN - P. SARICH	REVISED -
	CHECKED - I. LOPEZ	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**EXISTING BRIDGE PLANS IV**  
**STRUCTURE NO. 038-0076**

SHEET 4 OF 10 SHEETS

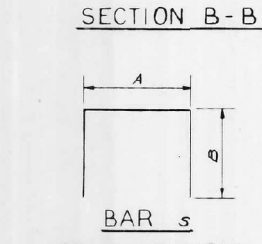
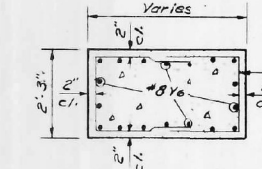
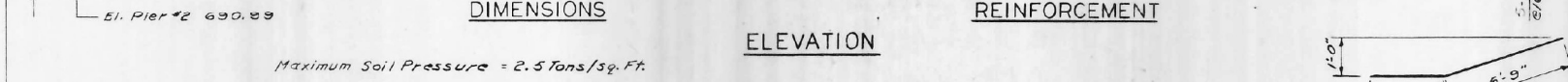
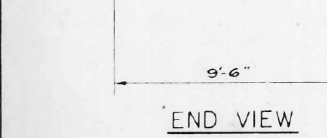
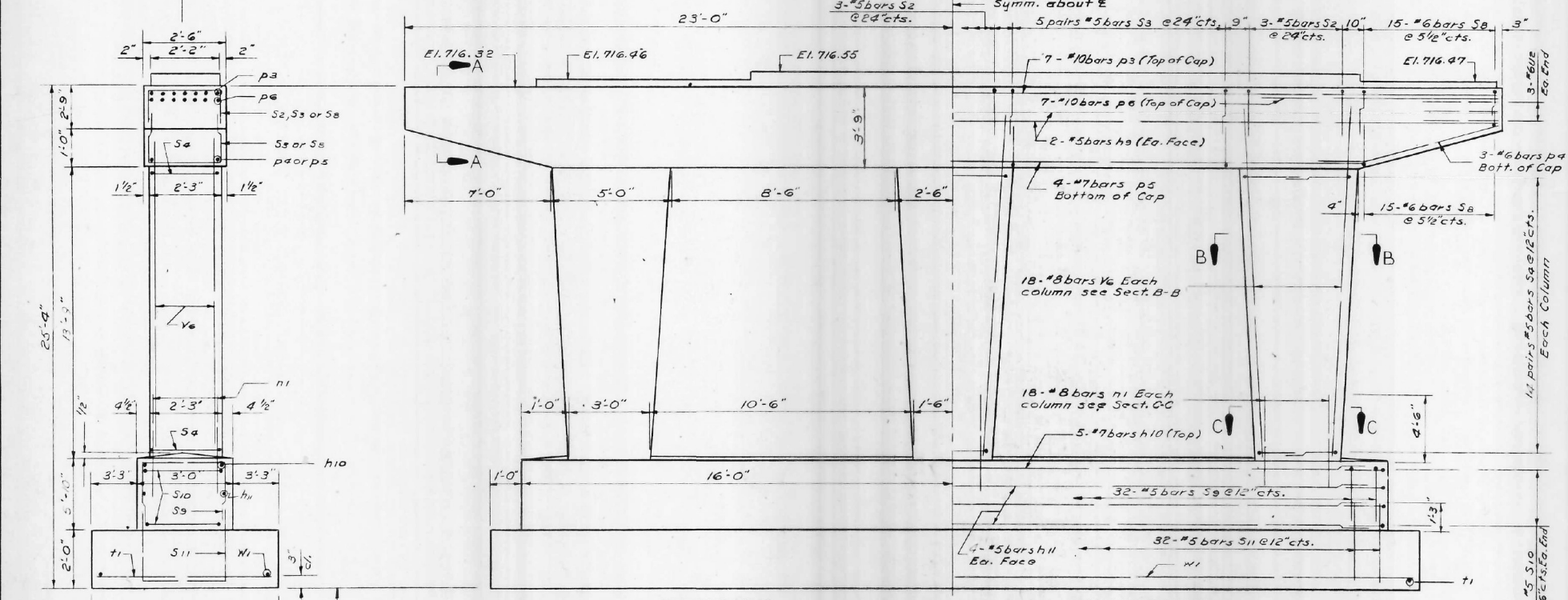
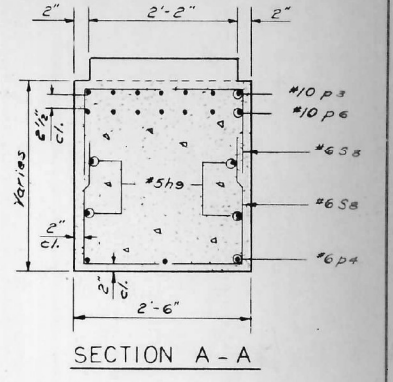
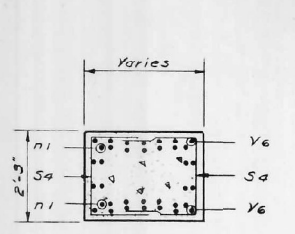
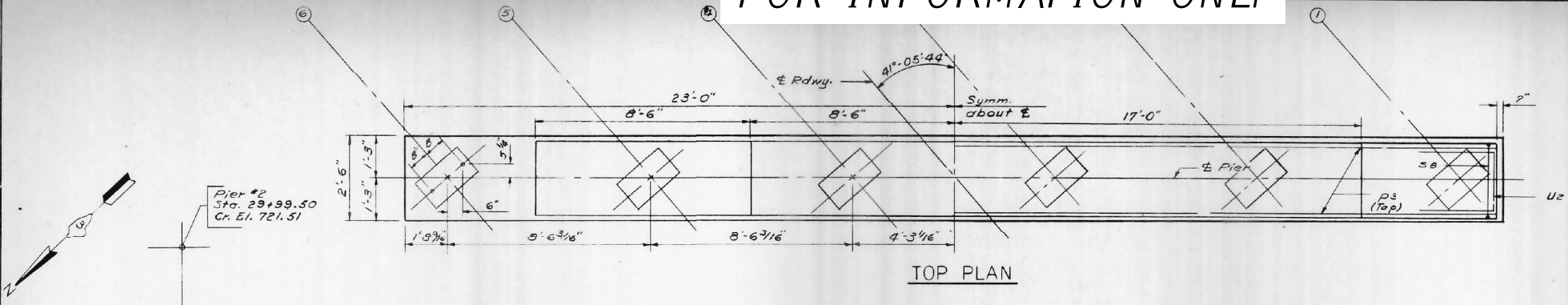
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-7HB-2)D	IROQUOIS	104	82
CONTRACT NO. 66E40				

ILLINOIS FED. AID PROJECT



FOR INFORMATION ONLY

PROJECT NO.	57	SECTION	38-7 HB-2	COUNTY	IROQUOIS	SHEET NO.	46	TOTAL SHEETS	16
Sheet No. 5									



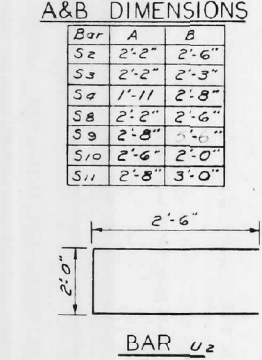
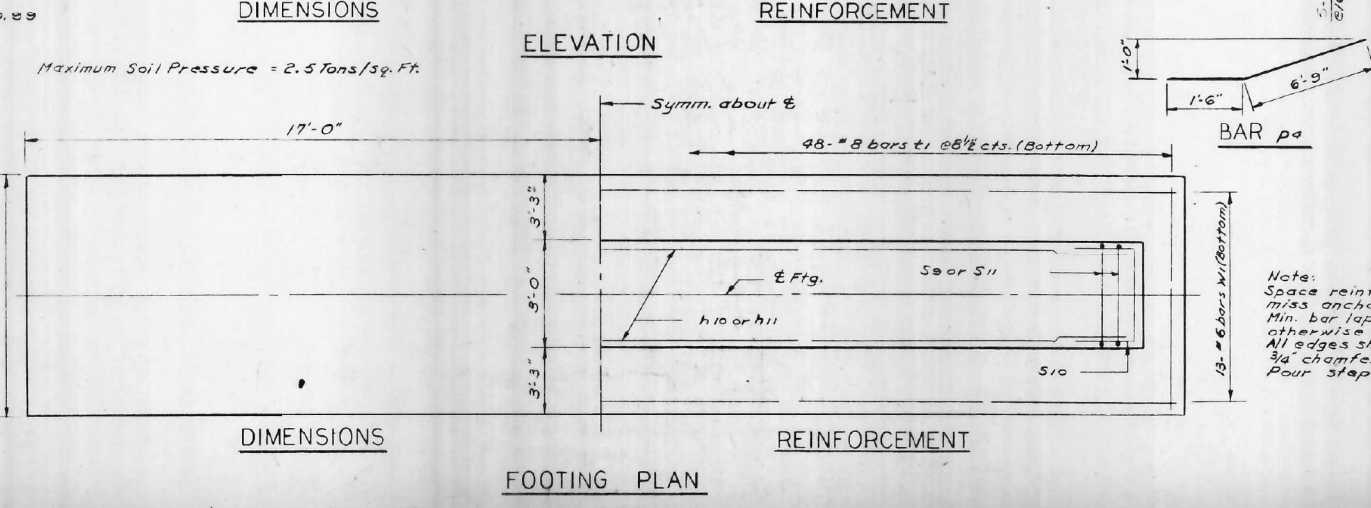
PIER #2  
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h9	8	#5	23'-6"	
h10	5	#7	30'-6"	
h11	3	#5	30'-6"	
n1	54	#8	6'-6"	
pa	14	#10	24'-0"	
pe	6	#6	8'-3"	
ps	4	#7	31'-6"	
pb	14	#10	11'-0"	
S2	9	#5	7'-2"	
S3	20	#5	6'-8"	
S4	34	#5	7'-3"	
S5	60	#6	7'-2"	
S6	32	#5	13'-3"	
S7	10	#5	6'-6"	
S8	32	#5	8'-8"	
t1	48	#8	9'-0"	
u2	6	#6	7'-0"	
ve	54	#8	1'-7"	
w1	13	#6	33'-6"	

Class X Concrete Cu Yds. 71.5  
Reinforcement Bars Lbs. 10,510

DESIGNED	E.L.
CHECKED	J.B.
DRAWN	J. Garrett
CHECKED	R.R.

Rev Cl. X Conc From 71.0 to 71.5 Cu Yds. Reinf From 10,790# to 10,580# 8-22-67 F9



PIER #2  
F.A.I. RT. 57 SEC. 38-7HB-2  
IROQUOIS COUNTY  
STA 1225+75.45

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10/13/2023 1:50:46 PM



USER NAME =	DESIGNED - P. SARICH	REVISED -
PLOT SCALE = N.T.S.	CHECKED - I. LOPEZ	REVISED -
PLOT DATE = 08/10/2023	DRAWN - P. SARICH	REVISED -
	CHECKED - I. LOPEZ	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS V  
STRUCTURE NO. 038-0076

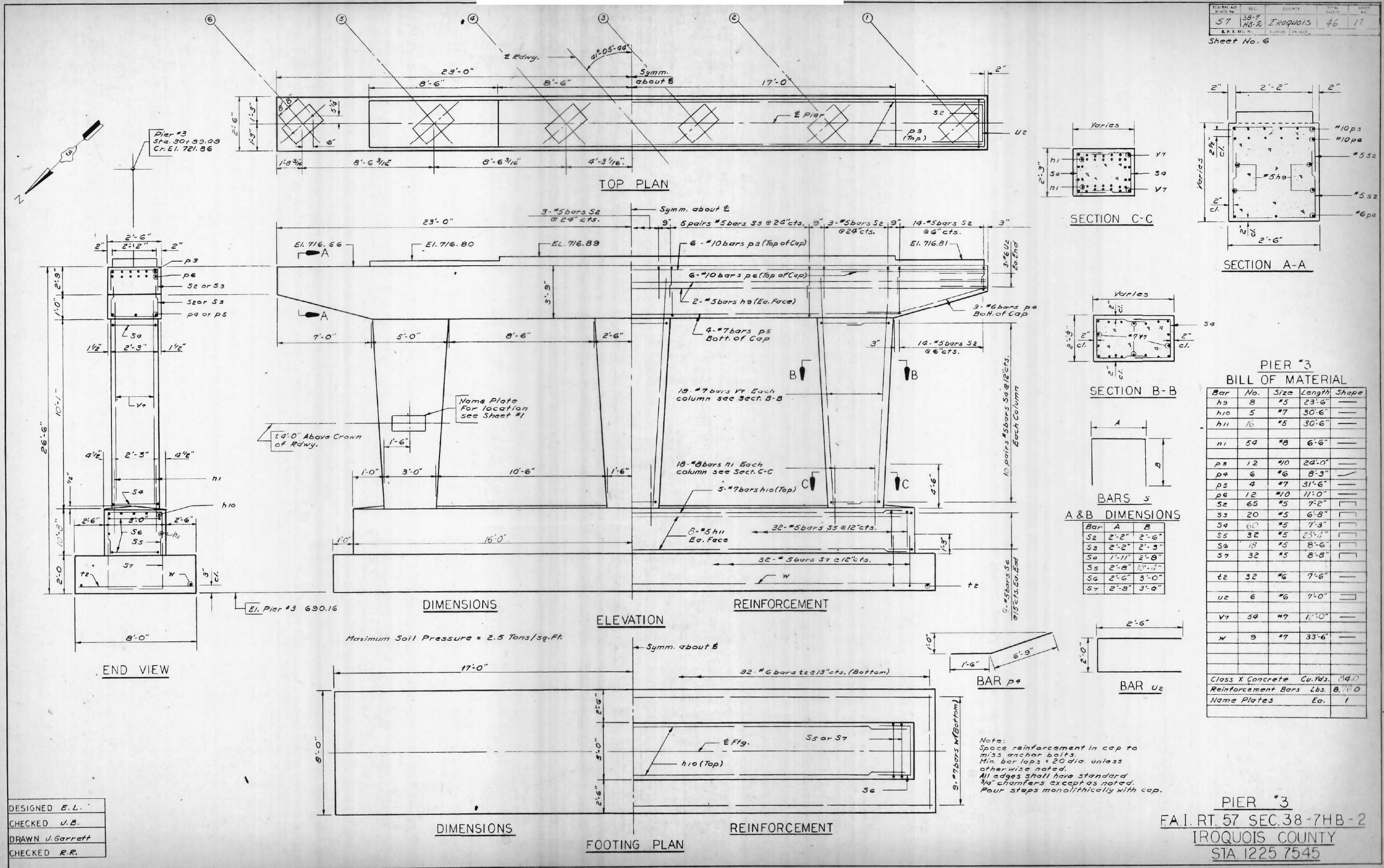
SHEET 5 OF 10 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-7HB-2)D	IROQUOIS	104	83
CONTRACT NO. 66E40				
ILLINOIS FED. AID PROJECT				

# FOR INFORMATION ONLY

FIG. NO.	57	SEC.	38-7	COUNTY	IROQUOIS	SHEET	46	TOTAL SHEETS	17
DATE	8-22-67	BY		PROJECT					

Sheet No. 6



DESIGNED E.L.  
 CHECKED U.B.  
 DRAWN U. Garrett  
 CHECKED R.R.

Rev C1X Conc from 646 to 840 Cu Yds Reinf from 8,890# to 8,760# 8-22-67 F.S

MODEL: Default  
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USER NAME =	DESIGNED - P. SARICH	REVISED -
PLOT SCALE = N.T.S.	CHECKED - I. LOPEZ	REVISED -
PLOT DATE = 08/10/2023	DRAWN - P. SARICH	REVISED -
	CHECKED - I. LOPEZ	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**EXISTING BRIDGE PLANS VI  
 STRUCTURE NO. 038-0076**

SHEET 6 OF 10 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-7HB-2)D	IROQUOIS	104	84
CONTRACT NO. 66E40				
ILLINOIS FED. AID PROJECT				









# FOR INFORMATION ONLY

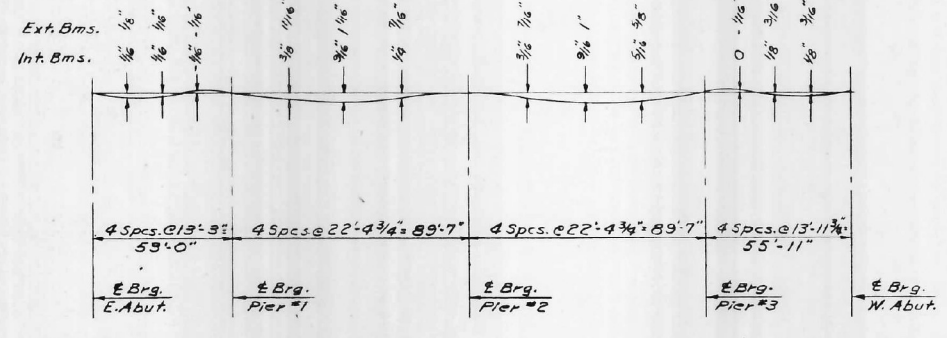
FED. AID DIST. NO.	SEC.	COUNTY	SECTION	SHEET NO.
57	38-7	IROQUOIS	46	10

Sheet No. 9

## INTERIOR BEAMS

## EXTERIOR BEAMS

INTERIOR BEAMS				EXTERIOR BEAMS			
BM. NO.	STATION	OFFSET FROM CL	GRADE ELEV. ADJUSTED FOR DEFLECTION	BM. NO.	STATION	OFFSET FROM CL	GRADE ELEV. ADJUSTED FOR DEFLECTION
BACK-EAST ABUT.	2	2861.977	9.625 720.507	2	3007.895	9.625 721.474	721.474
	3	2856.381	3.208 720.531	3	3002.298	3.208 721.518	721.518
	4	2850.785	3.208 720.483	4	2996.702	3.208 721.490	721.490
	5	2845.189	9.625 720.363	5	2991.105	9.625 721.390	721.390
BRG-EAST ABUT.	2	2865.312	9.625 720.505	2	3017.895	9.625 721.521	721.525
	3	2859.715	3.208 720.559	3	3012.298	3.208 721.566	721.570
	4	2854.119	3.208 720.511	4	3006.702	3.208 721.539	721.543
	5	2848.522	9.625 720.391	5	3001.105	9.625 721.441	721.445
10'-0"	2	2875.312	9.625 720.618	2	3027.895	9.625 721.564	721.578
	3	2869.715	3.208 720.643	3	3022.298	3.208 721.611	721.625
	4	2864.119	3.208 720.596	4	3016.702	3.208 721.585	721.600
	5	2858.522	9.625 720.477	5	3011.105	9.625 721.489	721.503
10'-0"	2	2885.312	9.625 720.898	2	3037.895	9.625 721.606	721.636
	3	2879.715	3.208 720.724	3	3032.298	3.208 721.654	721.684
	4	2874.119	3.208 720.677	4	3026.702	3.208 721.631	721.661
	5	2868.522	9.625 720.562	5	3021.105	9.625 721.535	721.565
10'-0"	2	2895.312	9.625 720.775	2	3047.895	9.625 721.645	721.687
	3	2889.715	3.208 720.603	3	3042.298	3.208 721.692	721.737
	4	2884.119	3.208 720.761	4	3036.702	3.208 721.673	721.715
	5	2878.522	9.625 720.643	5	3031.105	9.625 721.578	721.620
10'-0"	2	2905.312	9.625 720.847	2	3057.895	9.625 721.682	721.727
	3	2899.715	3.208 720.879	3	3052.298	3.208 721.733	721.778
	4	2894.119	3.208 720.837	4	3046.702	3.208 721.713	721.758
	5	2888.522	9.625 720.722	5	3041.105	9.625 721.619	721.654
10'-0"	2	2915.312	9.625 720.920	2	3067.895	9.625 721.716	721.756
	3	2909.715	3.208 720.953	3	3062.298	3.208 721.769	721.809
	4	2904.119	3.208 720.912	4	3056.702	3.208 721.750	721.790
	5	2898.522	9.625 720.799	5	3051.105	9.625 721.658	721.698
BRG-PIER #1	2	2918.312	9.625 720.943	2	3077.895	9.625 721.748	721.775
	3	2912.715	3.208 720.974	3	3072.298	3.208 721.802	721.829
	4	2907.119	3.208 720.933	4	3066.702	3.208 721.784	721.811
	5	2901.522	9.625 720.821	5	3061.105	9.625 721.694	721.721
10'-0"	2	2928.312	9.625 721.012	2	3087.895	9.625 721.777	721.787
	3	2922.715	3.208 721.045	3	3082.298	3.208 721.833	721.848
	4	2917.119	3.208 721.005	4	3076.702	3.208 721.816	721.828
	5	2911.522	9.625 720.894	5	3071.105	9.625 721.727	721.737
10'-0"	2	2938.312	9.625 721.079	2	3097.895	9.625 721.803	721.803
	3	2932.715	3.208 721.113	3	3092.298	3.208 721.860	721.860
	4	2927.119	3.208 721.075	4	3086.702	3.208 721.844	721.844
	5	2921.522	9.625 720.965	5	3081.105	9.625 721.757	721.757
10'-0"	2	2958.312	9.625 721.185	2	3107.895	9.625 721.828	721.826
	3	2952.715	3.208 721.178	3	3101.881	3.208 721.886	721.884
	4	2947.119	3.208 721.142	4	3096.702	3.208 721.871	721.869
	5	2941.522	9.625 721.034	5	3091.105	9.625 721.786	721.804
10'-0"	2	2968.312	9.625 721.205	2	3117.895	9.625 721.850	721.852
	3	2962.715	3.208 721.241	3	3111.881	3.208 721.909	721.911
	4	2957.119	3.208 721.206	4	3106.702	3.208 721.896	721.898
	5	2951.522	9.625 721.099	5	3101.105	9.625 721.812	721.814
10'-0"	2	2988.312	9.625 721.244	2	3127.895	9.625 721.869	721.879
	3	2982.715	3.208 721.302	3	3121.881	3.208 721.940	721.940
	4	2977.119	3.208 721.268	4	3116.702	3.208 721.928	721.928
	5	2971.522	9.625 721.163	5	3111.105	9.625 721.838	721.846
10'-0"	2	3005.312	9.625 721.353	2	3137.895	9.625 721.886	721.895
	3	2999.715	3.208 721.360	3	3131.881	3.208 721.948	721.957
	4	2994.119	3.208 721.328	4	3126.702	3.208 721.938	721.947
	5	2988.522	9.625 721.224	5	3121.105	9.625 721.857	721.866
10'-0"	2	3032.312	9.625 721.375	2	3167.895	9.625 721.900	721.904
	3	3026.715	3.208 721.416	3	3161.881	3.208 721.964	721.966
	4	3021.119	3.208 721.385	4	3156.702	3.208 721.955	721.959
	5	3015.522	9.625 721.282	5	3151.105	9.625 721.875	721.879
10'-0"	2	3068.312	9.625 721.426	2	3183.395	9.625 721.908	721.908
	3	3062.715	3.208 721.469	3	3177.895	3.208 721.972	721.972
	4	3057.119	3.208 721.439	4	3172.298	3.208 721.964	721.964
	5	3051.522	9.625 721.338	5	3166.702	9.625 721.885	721.885
BRG-WEST ABUT.	2	3156.727	9.625 721.912	2	3156.727	9.625 721.912	721.912
	3	3151.131	3.208 721.976	3	3151.131	3.208 721.976	721.976
	4	3145.535	3.208 721.989	4	3145.535	3.208 721.989	721.989
	5	3139.939	9.625 721.889	5	3139.939	9.625 721.889	721.889



**DEAD LOAD DEFLECTION DIAGRAM**  
(Includes weight of concrete only)

Note: The above deflections are not to be used in the field if the Engineer is working from the grade elevations adjusted for Dead Load Deflection as show on Sheet #9.

**ELEVATIONS**  
F.A.I. RTE 57 SEC. 38-7HB-2  
IROQUOIS COUNTY  
STA. 1225 +75.45

DESIGNED E.L.
CHECKED U.B.
DRAWN C.C.H.
CHECKED R.R.

MODEL: Default  
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USER NAME =	DESIGNED - P. SARICH	REVISED -
PLOT SCALE = N.T.S.	CHECKED - I. LOPEZ	REVISED -
PLOT DATE = 08/10/2023	DRAWN - P. SARICH	REVISED -
	CHECKED - I. LOPEZ	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**EXISTING BRIDGE PLANS IX**  
**STRUCTURE NO. 038-0076**

SHEET 9 OF 10 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-7HB-2)D	IROQUOIS	104	87
CONTRACT NO. 66E40				
ILLINOIS FED. AID PROJECT				

# FOR INFORMATION ONLY

BORING NO.	E. Abut. Boring No. Station Offset	W. Abut. Boring No. Station Offset	Station	Offset	Elevation	Soil Description			Elevation	Soil Description	Elevation	Soil Description	Elevation	Soil Description	Elevation	Soil Description	Elevation	Soil Description								
						N	Q	%																		
BORING NO. 1 Surface Water El: None Groundwater El at Completion: 653.61 After 20 Hours: 684.61	1 28+30 13' Rt E C.H. 9	31 14' Rt E C.H. 9	30+98	12.5' Lt E C.H. 9	0	687.11				0	698.46				0	698.06			0	697.81						
					9	1.0	26	13	2.0	27	8	2.1	25	9	2.0	28	6	1.0	28							
					693.61																					
					-5	6.0	21	-5	1.9	28	-5	1.5	21	-5	2.1	26	-5	1.2	24	-5	1.2	24	-5	1.2	24	
					8.1																					
					10	8.1	26	10	8.7	19	10	8.7	19	10	5.5	32	10	5.5	32	10	5.5	32	10	5.5	32	
					686.11																					
					-10	8.3	18	-10	7.9	22	-10	6.4	23	-10	17	5.0	22	-10	17	5.0	22	-10	17	5.0	22	
					7.8																					
					23	7.8	20	23	6.4	19	23	6.4	19	23	5.2	21	23	5.2	21	23	5.2	21	23	5.2	21	
BORING NO. 2 Surface Water El: None Groundwater El at Completion: 679.46 After 24 Hours: 681.11	2	14	31	14	0	687.11				0	698.46				0	698.06			0	697.81						
					9	1.0	26	13	2.0	27	8	2.1	25	9	2.0	28	6	1.0	28							
					693.61																					
					-5	6.0	21	-5	1.9	28	-5	1.5	21	-5	2.1	26	-5	1.2	24	-5	1.2	24	-5	1.2	24	
					8.1																					
					10	8.1	26	10	8.7	19	10	8.7	19	10	5.5	32	10	5.5	32	10	5.5	32	10	5.5	32	
					686.11																					
					-10	8.3	18	-10	7.9	22	-10	6.4	23	-10	17	5.0	22	-10	17	5.0	22	-10	17	5.0	22	
					7.8																					
					23	7.8	20	23	6.4	19	23	6.4	19	23	5.2	21	23	5.2	21	23	5.2	21	23	5.2	21	
BORING NO. 3 Surface Water El: None Groundwater El at Completion: 681.36 After 24 Hours: 686.06	3	14	31	14	0	687.11				0	698.46				0	698.06			0	697.81						
					9	1.0	26	13	2.0	27	8	2.1	25	9	2.0	28	6	1.0	28							
					693.61																					
					-5	6.0	21	-5	1.9	28	-5	1.5	21	-5	2.1	26	-5	1.2	24	-5	1.2	24	-5	1.2	24	
					8.1																					
					10	8.1	26	10	8.7	19	10	8.7	19	10	5.5	32	10	5.5	32	10	5.5	32	10	5.5	32	
					686.11																					
					-10	8.3	18	-10	7.9	22	-10	6.4	23	-10	17	5.0	22	-10	17	5.0	22	-10	17	5.0	22	
					7.8																					
					23	7.8	20	23	6.4	19	23	6.4	19	23	5.2	21	23	5.2	21	23	5.2	21	23	5.2	21	
BORING NO. 4 Surface Water El: None Groundwater El at Completion: 653.06 After 24 Hours: 662.36	4	14	31	14	0	687.11				0	698.46				0	698.06			0	697.81						
					9	1.0	26	13	2.0	27	8	2.1	25	9	2.0	28	6	1.0	28							
					693.61																					
					-5	6.0	21	-5	1.9	28	-5	1.5	21	-5	2.1	26	-5	1.2	24	-5	1.2	24	-5	1.2	24	
					8.1																					
					10	8.1	26	10	8.7	19	10	8.7	19	10	5.5	32	10	5.5	32	10	5.5	32	10	5.5	32	
					686.11																					
					-10	8.3	18	-10	7.9	22	-10	6.4	23	-10	17	5.0	22	-10	17	5.0	22	-10	17	5.0	22	
					7.8																					
					23	7.8	20	23	6.4	19	23	6.4	19	23	5.2	21	23	5.2	21	23	5.2	21	23	5.2	21	
BORING NO. 5 Surface Water El: None Groundwater El at Completion: 615.81 After 24 Hours: 641.61	5	14	31	14	0	687.11				0	698.46				0	698.06			0	697.81						
					9	1.0	26	13	2.0	27	8	2.1	25	9	2.0	28	6	1.0	28							
					693.61																					
					-5	6.0	21	-5	1.9	28	-5	1.5	21	-5	2.1	26	-5	1.2	24	-5	1.2	24	-5	1.2	24	
					8.1																					
					10	8.1	26	10	8.7	19	10	8.7	19	10	5.5	32	10	5.5	32	10	5.5	32	10	5.5	32	
					686.11																					
					-10	8.3	18	-10	7.9	22	-10	6.4	23	-10	17	5.0	22	-10	17	5.0	22	-10	17	5.0	22	
					7.8																					
					23	7.8	20	23	6.4	19	23	6.4	19	23	5.2	21	23	5.2	21	23	5.2	21	23	5.2	21	

FEDERAL AID ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
57	38-7	IAOQUOIS	46	21
Sheet No. 10				

DESIGNED	EXAMINED
CHECKED	PASSED
DRAWN J.G.	APPROVED
CHECKED P.R.	

N - Standard Penetration Test - Blows per foot to drive 2  
 O.D. Split Spoon Sampler 12 with 140 hammer falling 30'  
 Qu - Unconfined Compressive Strength - 1/sf  
 w - Water Content - percentage of oven dry weight - %  
 Type failure  
 B - Bulge Failure  
 S - Shear Failure  
 E - Estimated Value

**BORINGS**  
 F.A.I. RT. 57 SEC. 38-7HB-2  
 IROQUOIS COUNTY  
 STA. 1225+7545

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USER NAME =	DESIGNED - P. SARICH	REVISED -
PLOT SCALE = N.T.S.	CHECKED - I. LOPEZ	REVISED -
PLOT DATE = 08/10/2023	DRAWN - P. SARICH	REVISED -
	CHECKED - I. LOPEZ	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

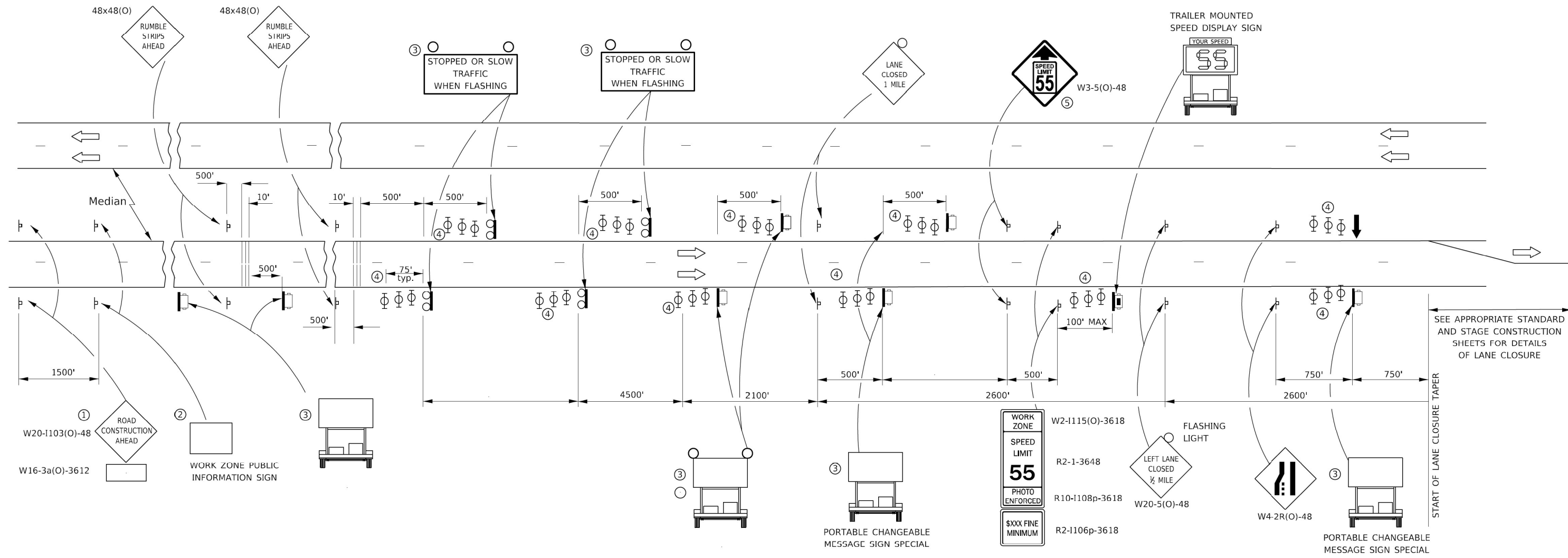
**EXISTING BRIDGE PLANS X  
 STRUCTURE NO. 038-0076**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-7HB-2)D	IROQUOIS	104	88
CONTRACT NO. 66E40				
ILLINOIS FED. AID PROJECT				

SHEET 10 OF 10 SHEETS



MODEL: CAD00\_04a11b\_1 (5/14/21)  
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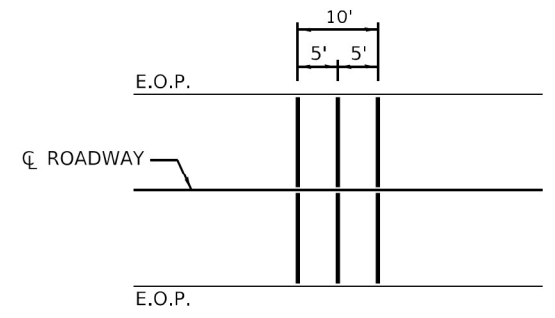
**NOTES:**

- ① THE ROAD CONSTRUCTION AHEAD SIGN SHALL BE LOCATED 5 MILES IN ADVANCE OF THE PROJECT LIMITS.
- ② THE MESSAGE AND SIZE OF THE WORK ZONE PUBLIC INFORMATION SIGN SHALL BE AS SPECIFIED BY THE DEPARTMENT.
- ③ UNIT TO BE PAID FOR SEPARATELY. TO BE PLACED OUTSIDE OF EXISTING PAVED SHOULDER. ANY REQUIRED EARTHWORK INCLUDED IN THE COST OF THE UNIT.
- ④ THREE, TYPE II BARRICADES, DRUMS, OR VERTICAL BARRICADES AT 25' CENTERS.
- ⑤ THIS SIGN SHALL ONLY BE USED IF THE EXISTING SPEED LIMIT IS GREATER THAN 65 MPH.
- ⑥ WHEN SHOWN, PORTABLE CHANGEABLE MESSAGE SIGN SPECIAL SHALL HAVE EQUIVALENT FLASHING BEACONS AS REAL TIME TRAFFIC CONTROL SIGNING. COST INCLUDED IN PORTABLE CHANGEABLE MESSAGE SIGN SPECIAL.

**DESIGNER NOTE:**  
 USE IN PLACE OF HIGHWAY STANDARD 701400.  
 REQUIRES SPECIAL PROVISIONS FOR SMART TRAFFIC MONITORING SYSTEM AND CONTROL OF WORK - SMART WORK ZONE.

**LEGEND:**

- ARROW BOARD
- PORTABLE CHANGEABLE MESSAGE SIGN SPECIAL (PCMS)
- SIGN
- REAL-TIME TRAFFIC CONTROL SIGNING
- TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH MONODIRECTIONAL FLASHING LIGHT.
- TEMPORARY RUMBLE STRIPS (SPECIAL). SEE DETAIL & SPECIAL PROVISION
- SPEED DISPLAY TRAILER



**TEMPORARY RUMBLE STRIP (SPECIAL)**

**GENERAL NOTE:**

THIS STANDARD IS USED WHERE A LANE CLOSURE IS IN PLACE LONGER THAN ONE CONSECUTIVE WEEK OR INCLUDING A WEEKEND OR HOLIDAY AS DESCRIBED IN KEEPING ROADS OPEN TO TRAFFIC.

THE FIRST TWO SIGNS ARE STATIONARY. THE OTHER SIGNS, ARROWBOARDS AND MESSAGE BOARDS SHALL BE MOVED AS NECESSARY TO MAINTAIN THE REQUIRED DISTANCE FROM THE START OF THE LANE CLOSURE TAPER(S).

SEE SPECIAL PROVISIONS FOR SMART TRAFFIC MONITORING SYSTEM, PORTABLE CHANGEABLE MESSAGE SIGN SPECIAL AND CONTROL OF WORK.

THIS DETAIL APPLIES TO BOTH NB AND SB APPROACHES TO THE WORK ZONE.

WHEN THE RIGHT LANE IS CLOSED, RIGHT LANE CLOSED SIGNS SHALL BE SUBSTITUTED FOR LEFT LANE CLOSED SIGNS.

WHEN EXISTING SIGNS, POLES, AND OTHER ITEMS CONFLICT WITH LOCATING THE EQUIPMENT SHOWN, THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER TO DECONFLICT EQUIPMENT PLACEMENT.

ALL ORANGE SIGN SHEETING SHALL BE FLOURESCENT ORANGE MATERIAL.

**701-12**

USER NAME = CONNOLLYJG	DESIGNED - JGC	REVISED -
	DRAWN - JGC	REVISED -
PLOT SCALE = 39.99992000' / in.	CHECKED - AAC	REVISED -
PLOT DATE = 10/17/2023	DATE - 10-13-23	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>SMART WORK ZONE DISTRICT DETAILS</b>			
SCALE:	SHEET 89	OF 104 SHEETS	STA. TO STA.

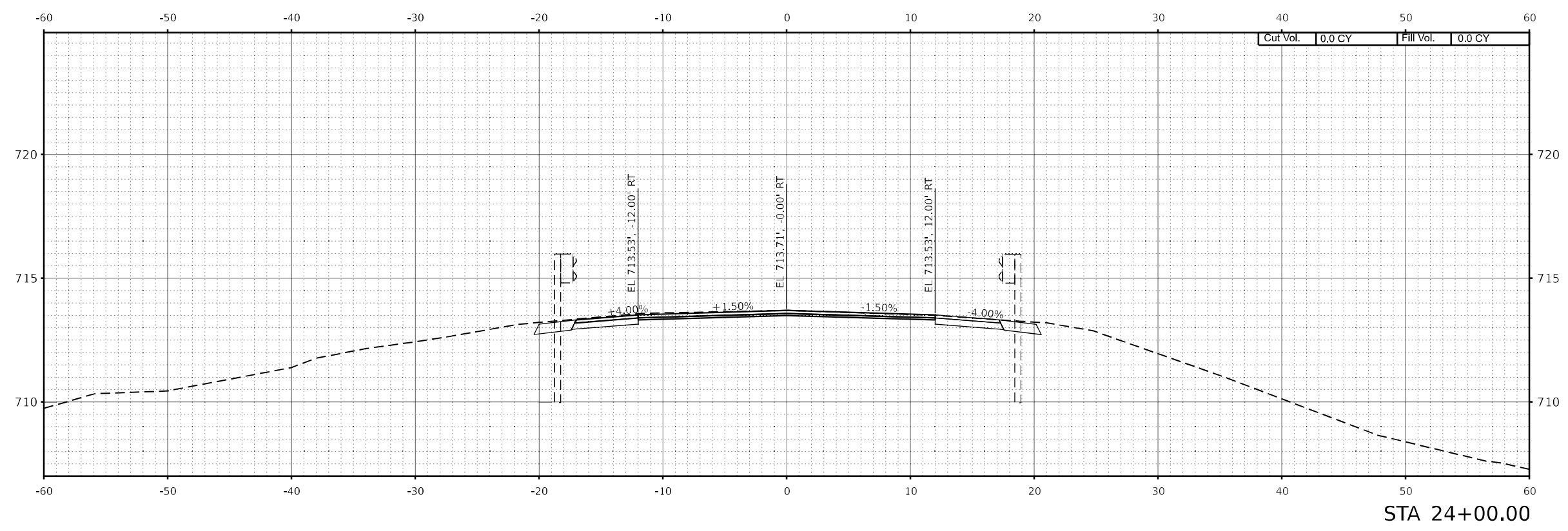
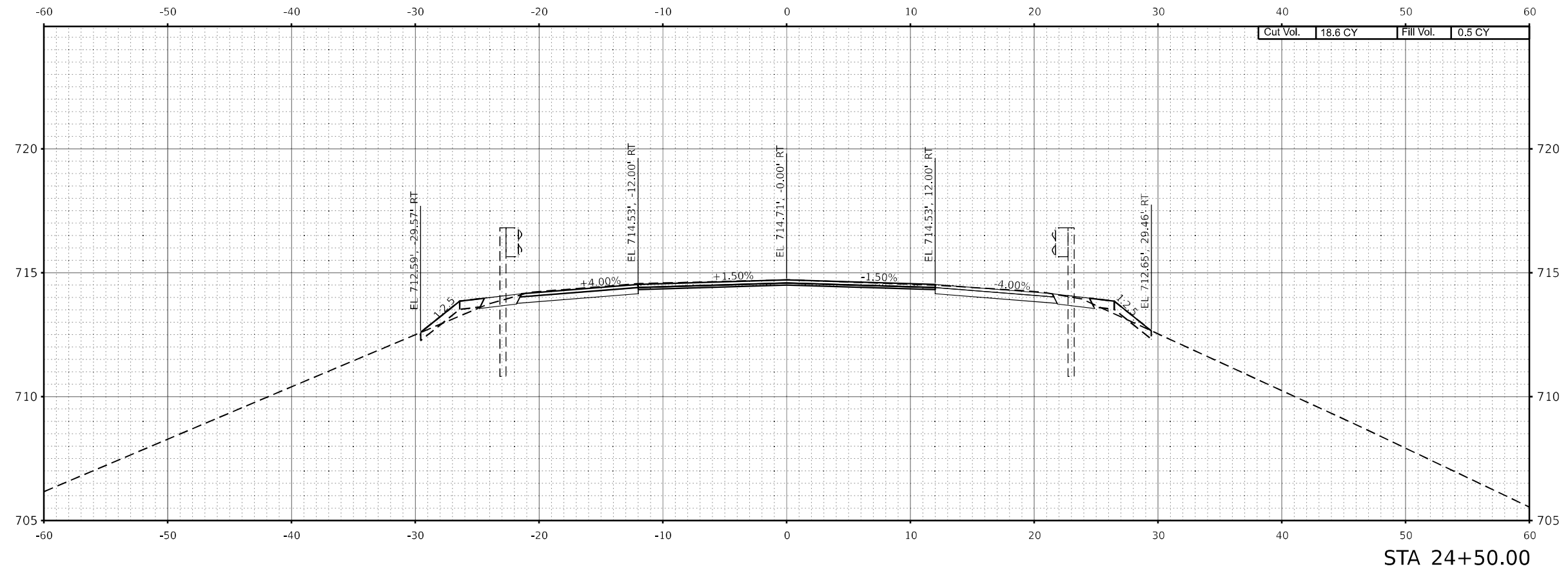
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57	(38-7HB-2)D	IROQUOIS	104	89
CONTRACT NO. 66E40				
ILLINOIS FED. AID PROJECT				











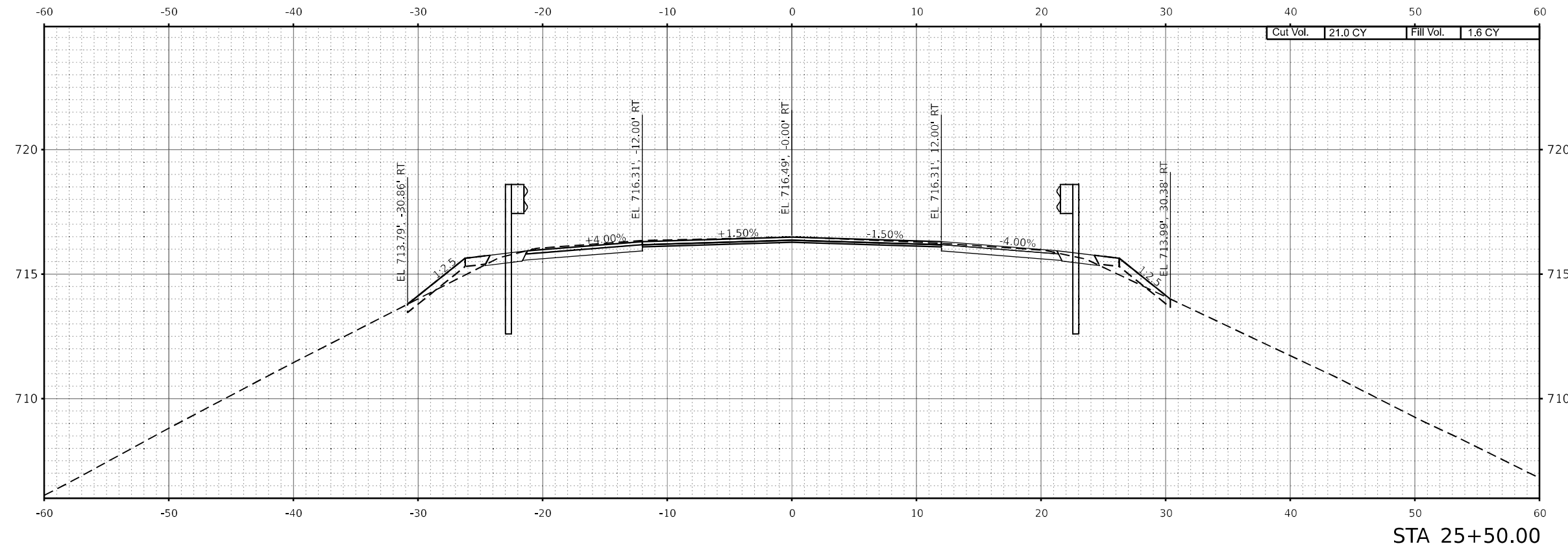
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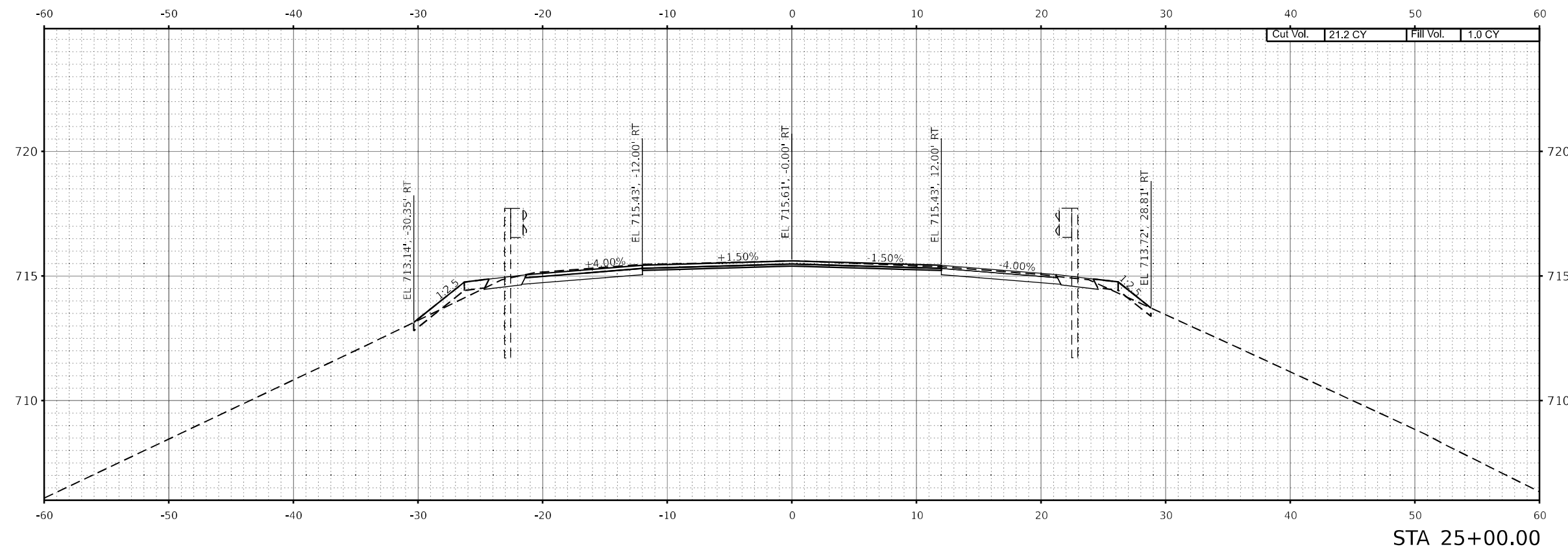
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>CROSS SECTIONS</b>			
SCALE: 1"=5'	SHEET 93	OF 104 SHEETS	STA. 24+00.00 TO STA. 24+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-7HB-2)D	IROQUOIS	104	93
CONTRACT NO. 66E40				
ILLINOIS FED. AID PROJECT				



STA 25+50.00



STA 25+00.00

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 DATE: 10/13/2023

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DRAWN - JJ	REVISIONS -	
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PLOT DATE = 10/13/2023	DATE - 10-13-23	REVISED -

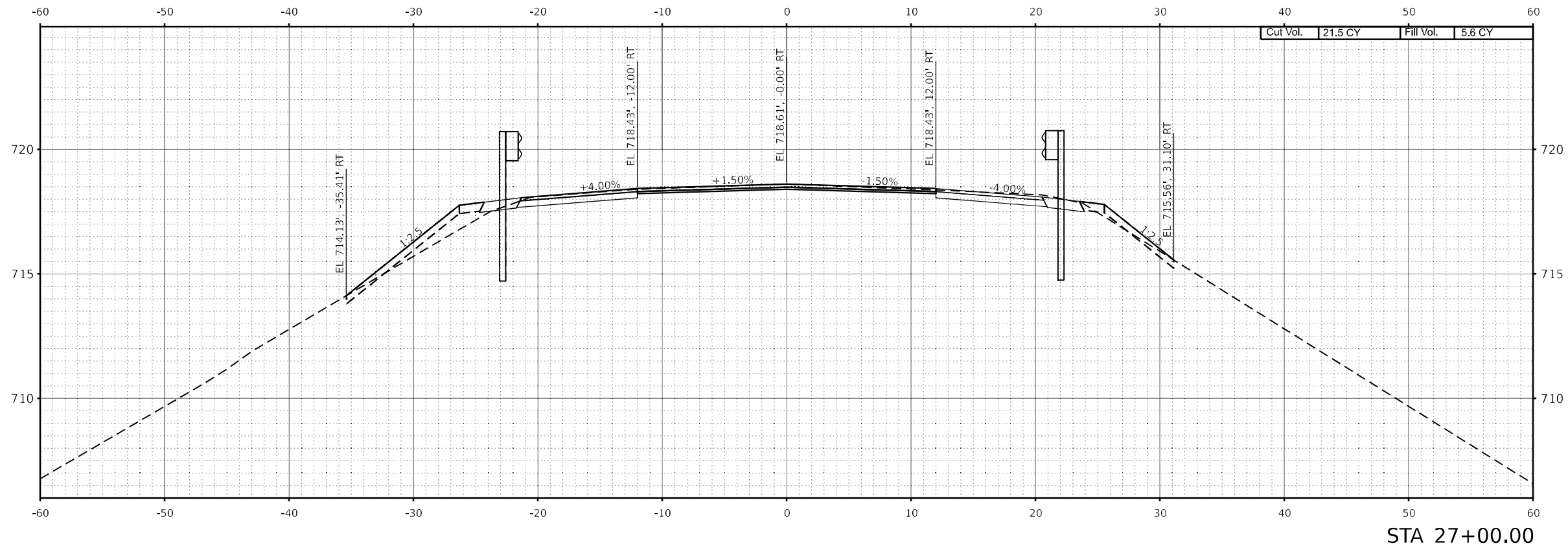
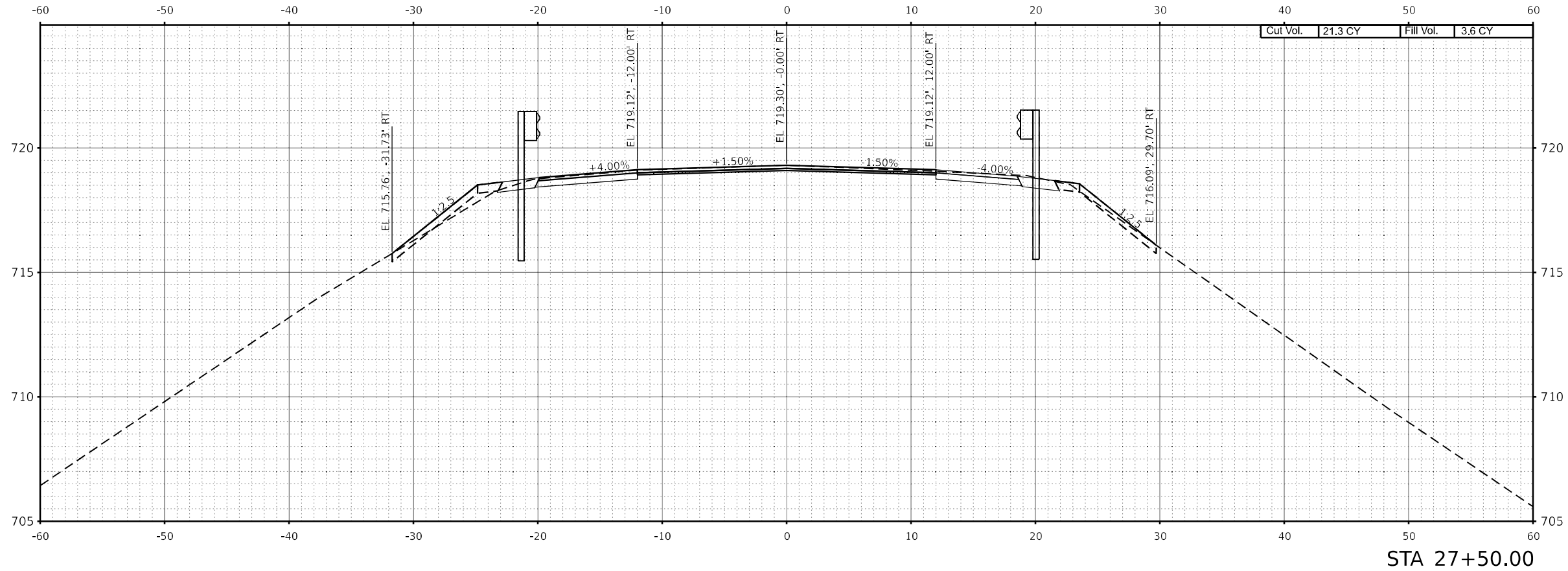
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

SCALE: 1"=5'    SHEET 94 OF 104 SHEETS    STA. 25+00.00 TO STA. 25+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-7HB-2)D	IROQUOIS	104	94
CONTRACT NO. 66E40				
ILLINOIS FED. AID PROJECT				





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PLOT DATE = 10/17/2023	DATE - 10-13-23	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

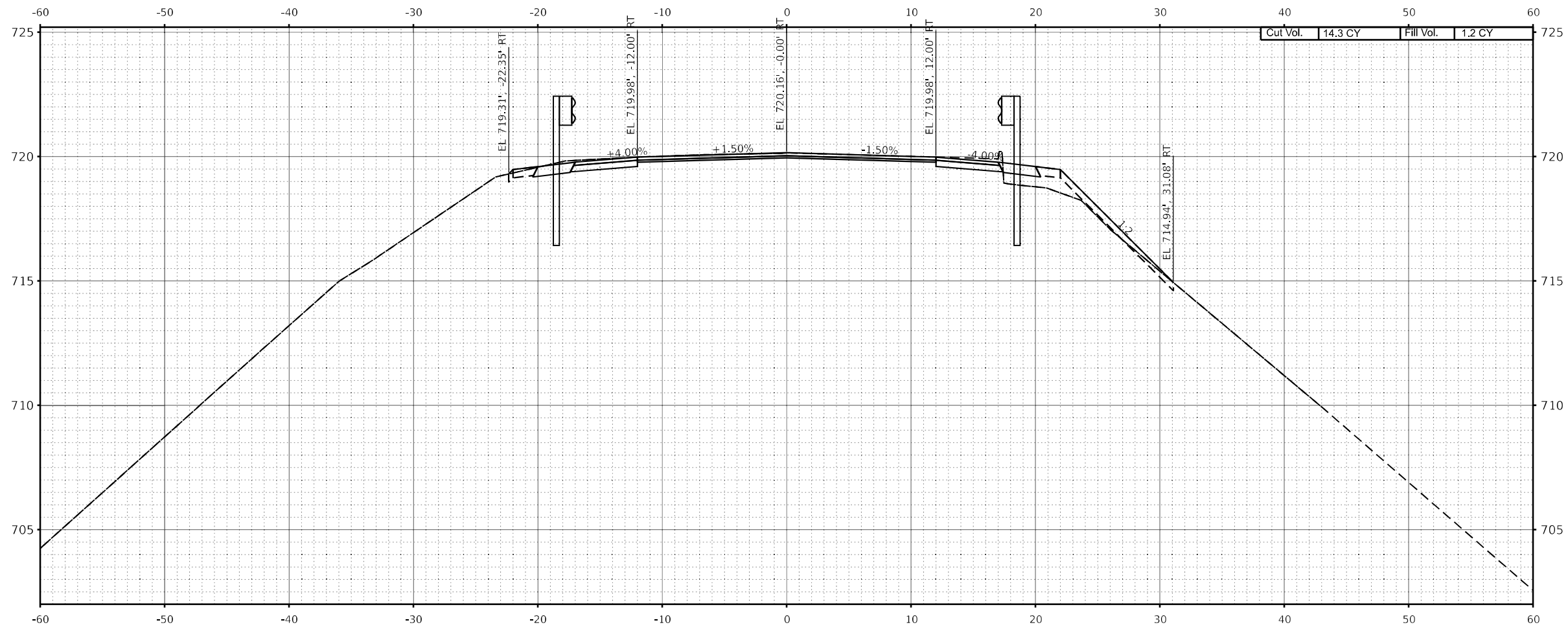
**CROSS SECTIONS**

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-7HB-2)D	IROQUOIS	104	96
CONTRACT NO. 66E40				
ILLINOIS FED. AID PROJECT				



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STA 28+24.90

USER NAME = CONNOLLYJG	DESIGNED - JJ	REVISED -
	DRAWN - JJ	REVISED -
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

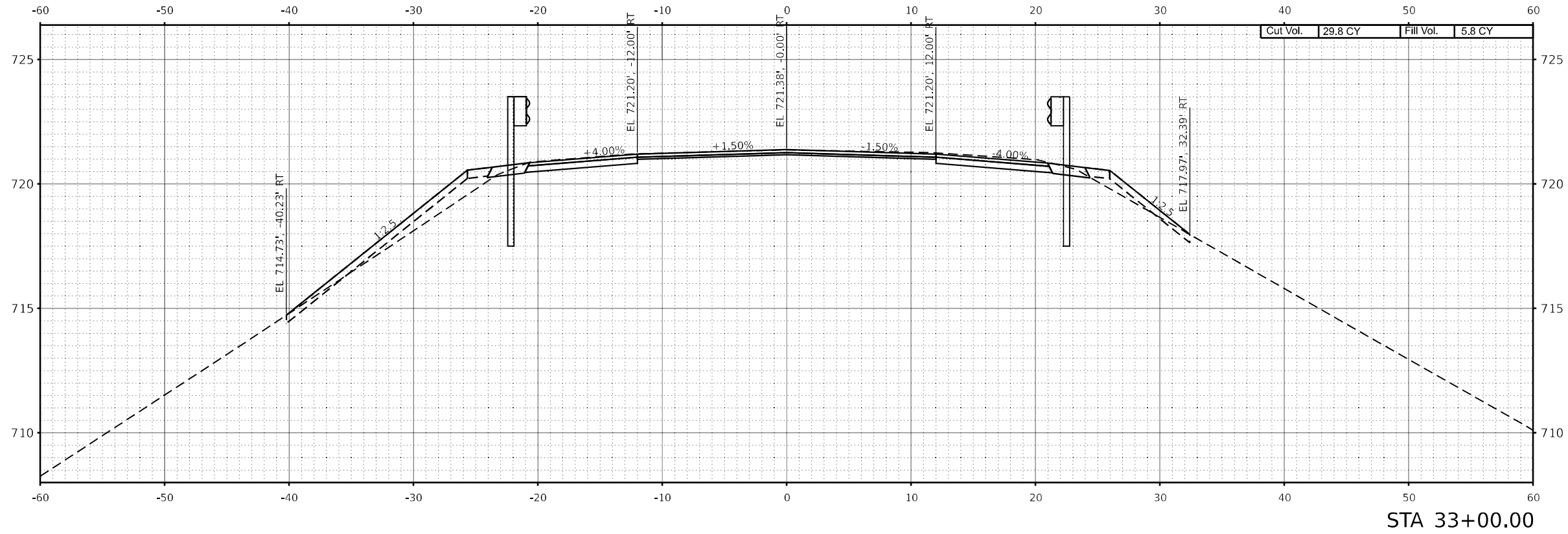
SCALE: 1"=5' SHEET 98 OF 104 SHEETS STA. 28+24.90 TO STA. 28+24.90

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-7HB-2)D	IROQUOIS	104	98
CONTRACT NO. 66E40				
ILLINOIS FED. AID PROJECT				

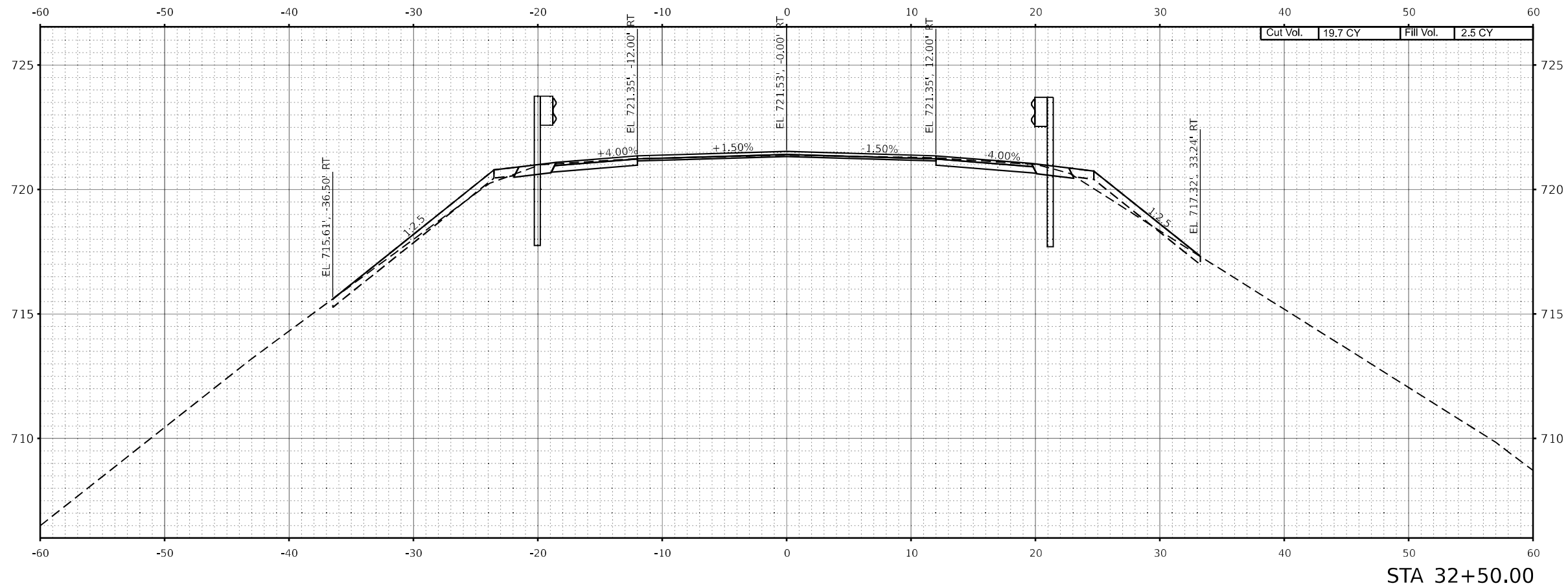








STA 33+00.00



STA 32+50.00

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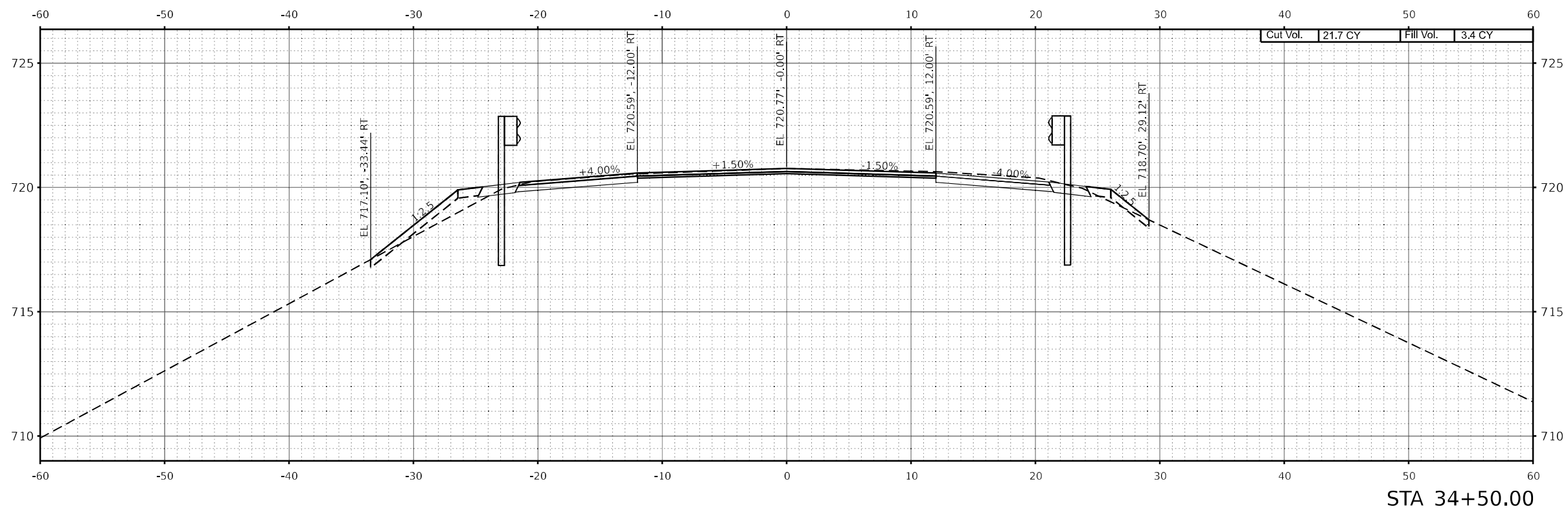
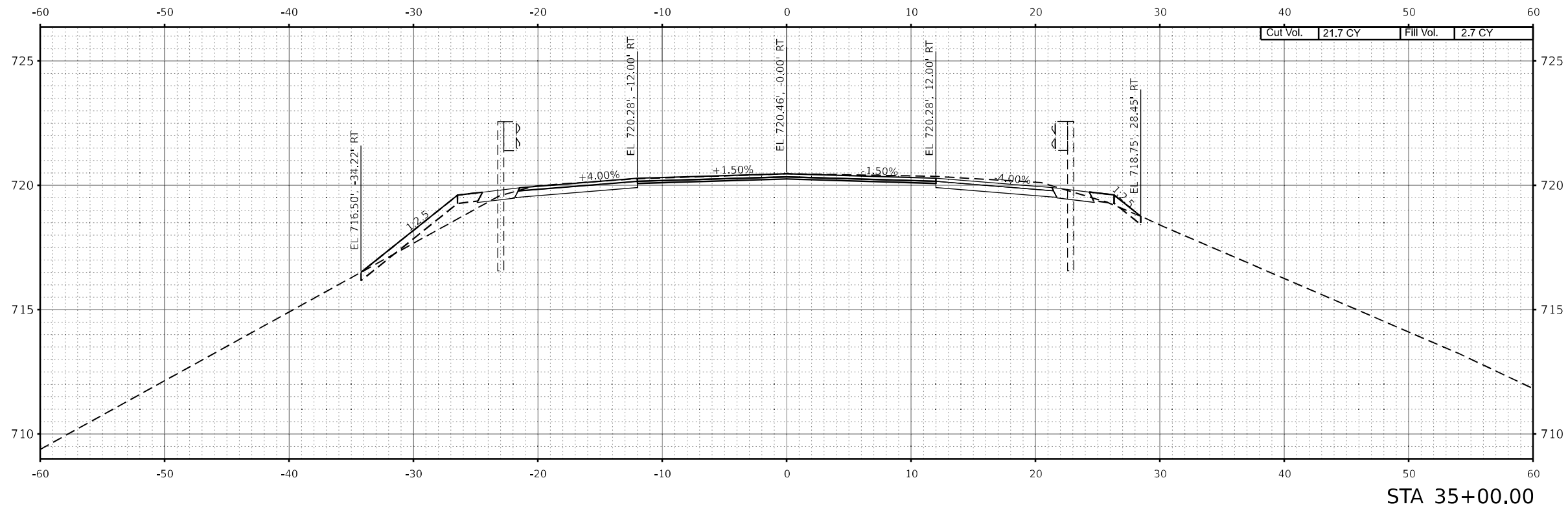
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

SCALE: 1"=5'    SHEET 101 OF 104 SHEETS    STA. 32+50.00 TO STA. 33+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-7HB-2)D	IROQUOIS	104	101
CONTRACT NO. 66E40				
ILLINOIS FED. AID PROJECT				





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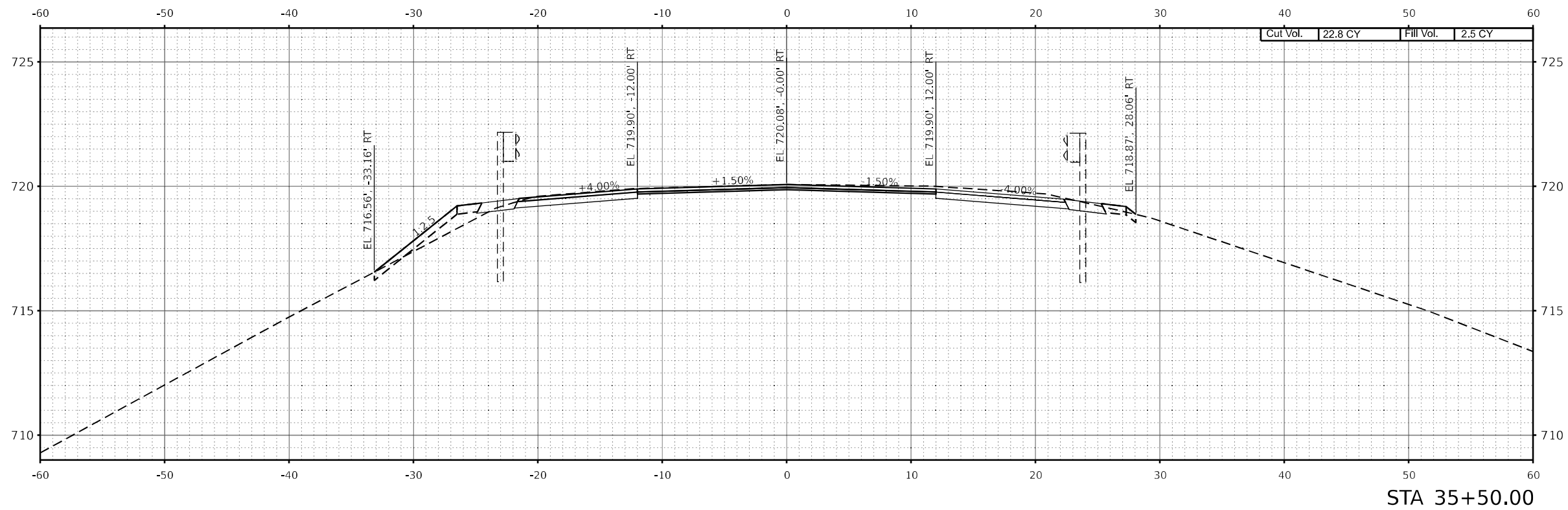
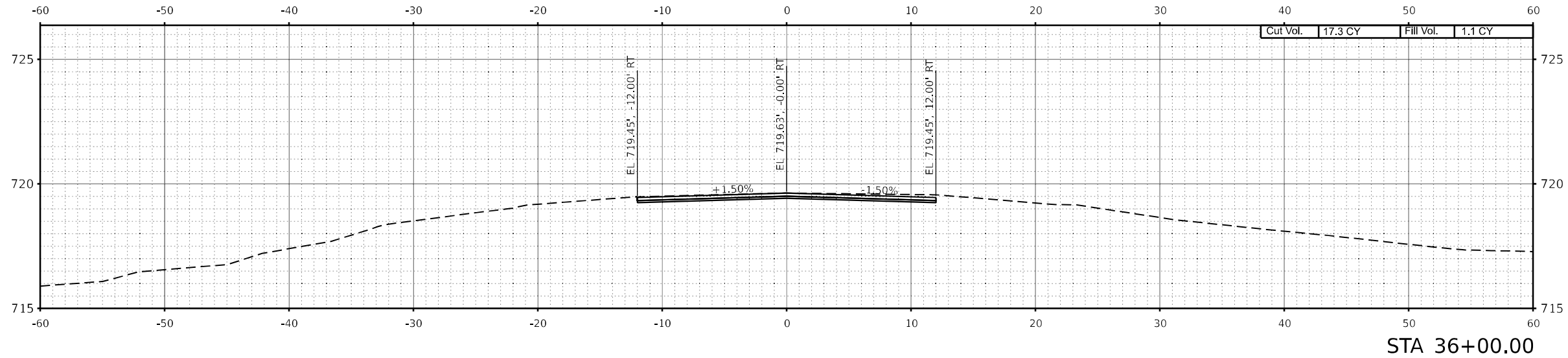
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

SCALE: 1"=5'    SHEET 103 OF 104 SHEETS    STA. 34+50.00 TO STA. 35+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-7HB-2)D	IROQUOIS	104	103
CONTRACT NO. 66E40				
ILLINOIS FED. AID PROJECT				

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USER NAME = CONNOLLYJG	DESIGNED - JJ	REVISED -
	DRAWN - JJ	REVISED -
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PLOT DATE = 10/17/2023	DATE - 10-13-23	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

SCALE: 1"=5' SHEET 104 OF 104 SHEETS STA. 35+50.00 TO STA. 36+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-7HB-2)D	IROQUOIS	104	104
CONTRACT NO. 66E40				
ILLINOIS FED. AID PROJECT				