

SEE LEGENDS, TOPOGRAPHIC STATEMENT, SURVEYORS NOTE(S) AND BASIS OF COORDINATES & BEARINGS STATEMENT ON SHEET 2

COORDINATE TABLE - IL 162				
STATION	OFFSET	NORTH	EAST	DESCRIPTION
19+53.53	39.54' RT	755.267.0312	2,343.857.7739	EX ROW CORNER
19+55.29	175.23' LT	755.484.0097	2,343.885.8893	NE COR, BK 216, PG 551
20+01.58	147.43' LT	755.456.6679	2,343.893.9255	PR ROW CORNER
20+19.12	70.00' LT	755.380.4972	2,343.915.3131	PR ROW CORNER
20+25.48	182.04' LT	755.492.7137	2,343.927.4585	PR ROW CORNER
20+30.00	65.52' LT	755.376.7174	2,343.915.3131	PR ROW CORNER
20+40.00	65.57' LT	755.379.9167	2,343.977.3561	PR TE CORNER
20+80.00	70.57' LT	755.384.9085	2,343.977.0403	PR TE CORNER
21+20.00	65.60' LT	755.382.4793	2,344.017.2739	PR ROW/PR TE CORNER
21+20.00	70.60' LT	755.387.4693	2,344.016.9583	PR TE CORNER
21+15.00	69.40' RT	755.247.4284	2,344.020.8062	PR TE CORNER
21+15.00	89.40' RT	755.227.4682	2,344.022.0687	PR TE CORNER
21+75.00	69.35' RT	755.251.2696	2,344.080.6831	PR ROW/PR TE CORNER
21+75.00	89.35' RT	755.231.3096	2,344.081.9456	PR TE CORNER
22+05.00	39.32' RT	755.283.1304	2,344.108.7278	PR ROW CORNER
22+19.00	60.54' LT	755.382.2877	2,344.094.4399	PR PE CORNER
22+02.00	75.25' LT	755.397.2777	2,344.098.5018	PR PE CORNER
22+10.42	100.00' LT	755.422.5134	2,344.105.3399	PR TE CORNER
22+34.68	100.00' LT	755.424.0452	2,344.129.5569	PR TE CORNER
22+49.00	72.16' LT	755.397.1607	2,344.145.6031	PR TE CORNER
22+57.00	56.60' LT	755.382.1384	2,344.154.5693	PR PE CORNER
23+29.51	39.21' RT	755.291.1017	2,344.232.9853	EX ROW
23+29.52	44.21' RT	755.286.1120	2,344.233.3054	PR TE CORNER
23+82.58	39.16' RT	755.294.4991	2,344.285.9438	EX ROW CORNER
23+50.00	40.26' RT	755.296.1187	2,344.449.2144	EX ROW
23+50.00	45.26' RT	755.291.1224	2,344.449.0193	PR TE CORNER
24+94.70	44.06' LT	755.381.5400	2,344.395.5929	PR ROW

COORDINATE TABLE - IL 157				
STATION	OFFSET	NORTH	EAST	DESCRIPTION
579+88.23	16.98' RT	754.976.2030	2,343.855.7960	EX ROW
580+40.00	80.00' RT	755.031.6833	2,343.917.7424	PR TE CORNER
580+40.00	130.06' RT	755.033.9407	2,343.967.7479	PR TE CORNER
580+50.00	80.00' RT	755.042.4668	2,343.917.2016	PR ROW CORNER
580+81.20	80.53' RT	755.076.1183	2,343.915.3452	PR TE CORNER
580+79.82	130.50' RT	755.078.8723	2,343.965.2693	PR TE CORNER
581+86.52	90.14' RT	755.190.6036	2,343.909.0296	PR ROW CORNER
581+90.13	171.50' RT	755.210.2574	2,343.988.0873	PR TE CORNER
581+99.44	94.37' RT	755.205.2733	2,343.910.3943	PR TE CORNER
582+19.63	176.63' RT	755.245.1876	2,343.985.8779	PR TE CORNER
582+23.04	146.84' RT	755.243.2551	2,343.955.7527	PR ROW CORNER
582+51.86	40.10' RT	755.247.3237	2,343.844.7903	EX ROW CORNER
583+21.03	3.80' LT	755.302.2992	2,343.782.7297	EX Q-C IL 157 & IL 162
583+49.53	47.96' RT	755.345.0015	2,343.823.5710	EX ROW CORNER
584+65.41	49.64' RT	755.455.8838	2,343.789.8971	EX ROW
584+66.37	0.96' LT	755.441.8724	2,343.741.0683	EX Q/S, LINE US SVY 510

COORDINATE TABLE - C & CONTROL				
STATION	OFFSET	NORTH	EAST	DESCRIPTION
18+54.89	11.72' LT	755.311.9690	2,343.758.0900	CP 10; IR w/ IDOT CAP
20+85.94	19.48' LT	755.334.2980	2,343.986.1910	CP 11; IR w/ IDOT CAP
21+36.00	180.36' RT	755.138.0120	2,344.048.7670	CP 107; IR w/ IDOT CAP
26+80.11	17.48' LT	755.342.9730	2,343.582.6070	CP 11; IRON ROD
581+34.46	0.11' LT	755.122.0780	2,343.829.0130	CP 105; IR w/ IDOT CAP
23+97.24	0.00' RT	755.334.5064	2,344.298.1064	PC Q - IL 162
31+56.52	0.00' RT	755.192.0705	2,345.035.6243	PT Q - IL 162
10+00.00	0.00' RT	755.111.1124	2,343.830.5981	POT Q - CARROLL END
582+99.10	0.00' LT	755.282.5202	2,343.792.9245	PT Q - IL 157
583+19.69	0.00' LT	755.302.1626	2,343.786.7576	PR Q-C IL 157 & IL 162

COORDINATE TABLE - IL 157				
STATION	OFFSET	NORTH	EAST	DESCRIPTION
579+88.23	16.98' RT	754.976.2030	2,343.855.7960	EX ROW
580+40.00	80.00' RT	755.031.6833	2,343.917.7424	PR TE CORNER
580+40.00	130.06' RT	755.033.9407	2,343.967.7479	PR TE CORNER
580+50.00	80.00' RT	755.042.4668	2,343.917.2016	PR ROW CORNER
580+81.20	80.53' RT	755.076.1183	2,343.915.3452	PR TE CORNER
580+79.82	130.50' RT	755.078.8723	2,343.965.2693	PR TE CORNER
581+86.52	90.14' RT	755.190.6036	2,343.909.0296	PR ROW CORNER
581+90.13	171.50' RT	755.210.2574	2,343.988.0873	PR TE CORNER
581+99.44	94.37' RT	755.205.2733	2,343.910.3943	PR TE CORNER
582+19.63	176.63' RT	755.245.1876	2,343.985.8779	PR TE CORNER
582+23.04	146.84' RT	755.243.2551	2,343.955.7527	PR ROW CORNER
582+51.86	40.10' RT	755.247.3237	2,343.844.7903	EX ROW CORNER
583+21.03	3.80' LT	755.302.2992	2,343.782.7297	EX Q-C IL 157 & IL 162
583+49.53	47.96' RT	755.345.0015	2,343.823.5710	EX ROW CORNER
584+65.41	49.64' RT	755.455.8838	2,343.789.8971	EX ROW
584+66.37	0.96' LT	755.441.8724	2,343.741.0683	EX Q/S, LINE US SVY 510

COORDINATE TABLE - C & CONTROL				
STATION	OFFSET	NORTH	EAST	DESCRIPTION
18+54.89	11.72' LT	755.311.9690	2,343.758.0900	CP 10; IR w/ IDOT CAP
20+85.94	19.48' LT	755.334.2980	2,343.986.1910	CP 11; IR w/ IDOT CAP
21+36.00	180.36' RT	755.138.0120	2,344.048.7670	CP 107; IR w/ IDOT CAP
26+80.11	17.48' LT	755.342.9730	2,343.582.6070	CP 11; IRON ROD
581+34.46	0.11' LT	755.122.0780	2,343.829.0130	CP 105; IR w/ IDOT CAP
23+97.24	0.00' RT	755.334.5064	2,344.298.1064	PC Q - IL 162
31+56.52	0.00' RT	755.192.0705	2,345.035.6243	PT Q - IL 162
10+00.00	0.00' RT	755.111.1124	2,343.830.5981	POT Q - CARROLL END
582+99.10	0.00' LT	755.282.5202	2,343.792.9245	PT Q - IL 157
583+19.69	0.00' LT	755.302.1626	2,343.786.7576	PR Q-C IL 157 & IL 162

COORDINATE TABLE - IL 157				
STATION	OFFSET	NORTH	EAST	DESCRIPTION
579+88.23	16.98' RT	754.976.2030	2,343.855.7960	EX ROW
580+40.00	80.00' RT	755.031.6833	2,343.917.7424	PR TE CORNER
580+40.00	130.06' RT	755.033.9407	2,343.967.7479	PR TE CORNER
580+50.00	80.00' RT	755.042.4668	2,343.917.2016	PR ROW CORNER
580+81.20	80.53' RT	755.076.1183	2,343.915.3452	PR TE CORNER
580+79.82	130.50' RT	755.078.8723	2,343.965.2693	PR TE CORNER
581+86.52	90.14' RT	755.190.6036	2,343.909.0296	PR ROW CORNER
581+90.13	171.50' RT	755.210.2574	2,343.988.0873	PR TE CORNER
581+99.44	94.37' RT	755.205.2733	2,343.910.3943	PR TE CORNER
582+19.63	176.63' RT	755.245.1876	2,343.985.8779	PR TE CORNER
582+23.04	146.84' RT	755.243.2551	2,343.955.7527	PR ROW CORNER
582+51.86	40.10' RT	755.247.3237	2,343.844.7903	EX ROW CORNER
583+21.03	3.80' LT	755.302.2992	2,343.782.7297	EX Q-C IL 157 & IL 162
583+49.53	47.96' RT	755.345.0015	2,343.823.5710	EX ROW CORNER
584+65.41	49.64' RT	755.455.8838	2,343.789.8971	EX ROW
584+66.37	0.96' LT	755.441.8724	2,343.741.0683	EX Q/S, LINE US SVY 510

COORDINATE TABLE - C & CONTROL				
STATION	OFFSET	NORTH	EAST	DESCRIPTION
18+54.89	11.72' LT	755.311.9690	2,343.758.0900	CP 10; IR w/ IDOT CAP
20+85.94	19.48' LT	755.334.2980	2,343.986.1910	CP 11; IR w/ IDOT CAP
21+36.00	180.36' RT	755.138.0120	2,344.048.7670	CP 107; IR w/ IDOT CAP
26+80.11	17.48' LT	755.342.9730	2,343.582.6070	CP 11; IRON ROD
581+34.46	0.11' LT	755.122.0780	2,343.829.0130	CP 105; IR w/ IDOT CAP
23+97.24	0.00' RT	755.334.5064	2,344.298.1064	PC Q - IL 162
31+56.52	0.00' RT	755.192.0705	2,345.035.6243	PT Q - IL 162
10+00.00	0.00' RT	755.111.1124	2,343.830.5981	POT Q - CARROLL END
582+99.10	0.00' LT	755.282.5202	2,343.792.9245	PT Q - IL 157
583+19.69	0.00' LT	755.302.1626	2,343.786.7576	PR Q-C IL 157 & IL 162

COORDINATE TABLE - IL 157				
STATION	OFFSET	NORTH	EAST	DESCRIPTION
579+88.23	16.98' RT	754.976.2030	2,343.855.7960	EX ROW
580+40.00	80.00' RT	755.031.6833	2,343.917.7424	PR TE CORNER
580+40.00	130.06' RT	755.033.9407	2,343.967.7479	PR TE CORNER
580+50.00	80.00' RT	755.042.4668	2,343.917.2016	PR ROW CORNER
580+81.20	80.53' RT	755.076.1183	2,343.915.3452	PR TE CORNER
580+79.82	130.50' RT	755.078.8723	2,343.965.2693	PR TE CORNER
581+86.52	90.14' RT	755.190.6036	2,343.909.0296	PR ROW CORNER
581+90.13	171.50' RT	755.210.2574	2,343.988.0873	PR TE CORNER
581+99.44	94.37' RT	755.205.2733	2,343.910.3943	PR TE CORNER
582+19.63	176.63' RT	755.245.1876	2,343.985.8779	PR TE CORNER
582+23.04	146.84' RT	755.243.2551	2,343.955.7527	PR ROW CORNER
582+51.86	40.10' RT	755.247.3237	2,343.844.7903	EX ROW CORNER
583+21.03	3.80' LT	755.302.2992	2,343.782.7297	EX Q-C IL 157 & IL 162
583+49.53	47.96' RT	755.345.0015	2,343.823.5710	EX ROW CORNER
584+65.41	49.64' RT	755.455.8838	2,343.789.8971	EX ROW
584+66.37	0.96' LT	755.441.8724	2,343.741.0683	EX Q/S, LINE US SVY 510

COORDINATE TABLE - C & CONTROL				
STATION	OFFSET	NORTH	EAST	DESCRIPTION
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20+85.94	19.48' LT	755.334.2980	2,343.986.1910	CP 11; IR w/ IDOT CAP
21+36.00	180.36' RT	755.138.0120	2,344.048.7670	CP 107; IR w/ IDOT CAP
26+80.11	17.48' LT	755.342.9730	2,343.582.6070	CP 11; IRON ROD
581+34.46	0.11' LT	755.122.0780	2,343.829.0130	CP 105; IR w/ IDOT CAP
23+97.24	0.00' RT	755.334.5064	2,344.298.1064	PC Q - IL 162
31+56.52	0.00' RT	755.192.0705	2,345.035.6243	PT Q - IL 162
10+00.00	0.00' RT	755.111.1124	2,343.830.5981	POT Q - CARROLL END
582+99.10	0.00' LT	755.282.5202	2,343.792.9245	PT Q - IL 157
583+19.69	0.00' LT	755.302.1626	2,343.786.7576	PR Q-C IL 157 & IL 162

COORDINATE TABLE - IL 157				
STATION	OFFSET	NORTH	EAST	DESCRIPTION
579+88.23	16.98' RT	754.976.2030	2,343.855.7960	EX ROW
580+40.00	80.00' RT	755.031.6833	2,343.917.7424	PR TE CORNER
580+40.00	130.06' RT	755.033.9407	2,343.967.7479	PR TE CORNER
580+50.00	80.00' RT	755.042.4668	2,343.917.2016	PR ROW CORNER
580+81.20	80.53' RT	755.076.1183	2,343.915.3452	PR TE CORNER
580+79.82	130.50' RT	755.078.8723	2,343.965.2693	PR TE CORNER
581+86.52	90.14' RT	755.190.6036	2,343.909.0296	PR ROW CORNER
581+90.13	171.50' RT	755.210.2574	2,343.988.0873	PR TE CORNER
581+99.44	94.37' RT	755.205.2733	2,343.910.3943	PR TE CORNER
582+19.63	176.63' RT	755.245.1876	2,343.985.8779	PR TE CORNER
582+23.04	146.84' RT	755.243.2551	2,343.955.7527	PR ROW CORNER
582+51.86	40.10' RT	755.247.3237	2,343.844.7903	

SEE LEGENDS, TOPOGRAPHIC STATEMENT, SURVEYORS NOTE(S) AND BASIS OF COORDINATES & BEARINGS STATEMENT ON SHEET 2

COORDINATE TABLE				
STATION	OFFSET	NORTH	EAST	DESCRIPTION
572+19.34	49.15' RT	754,209.9862	2,343,789.5945	PR TE CORNER
572+33.84	49.09' RT	754,224.4324	2,343,790.8426	EX ROW
572+39.48	95.00' RT	754,225.9116	2,343,837.0718	PR TE CORNER
572+48.19	43.16' LT	754,247.0470	2,343,700.2593	SW COR FR NW 1/4 SEC 4
572+59.52	48.99' RT	754,250.0162	2,343,793.0531	PR ROW CORNER
572+65.17	95.00' RT	754,251.4988	2,343,839.3879	PR TE CORNER
572+69.38	51.05' LT	754,268.8585	2,343,694.3085	EX ROW
573+75.00	52.00' RT	754,363.7371	2,343,807.1747	PR ROW CORNER
573+89.95	53.63' RT	754,378.2522	2,343,810.4154	PR TE CORNER
574+09.98	105.00' RT	754,392.0088	2,343,863.6920	PR TE CORNER
574+30.02	105.00' RT	754,411.4814	2,343,865.9960	PR TE CORNER
574+55.21	60.19' RT	754,441.5293	2,343,824.5432	PR TE CORNER
577+72.89	79.62' RT	754,747.6425	2,343,892.8889	PR ROW CORNER
578+69.68	85.54' LT	754,868.7800	2,343,746.1420	EX ROW
578+90.00	80.00' RT	754,869.9045	2,343,912.9055	PR TE CORNER
578+90.00	95.00' RT	754,868.3341	2,343,927.8230	PR TE CORNER
579+40.00	95.00' RT	754,922.9037	2,343,932.1919	PR TE CORNER
579+40.00	80.00' RT	754,923.7267	2,343,917.2145	PR TE CORNER
579+63.71	84.88' LT	754,953.9925	2,343,753.5044	EX ROW
579+88.23	16.98' RT	754,976.2030	2,343,855.7960	EX ROW
579+96.89	82.67' LT	754,984.8110	2,343,756.1671	EX ROW
571+96.92	0.00' LT	754,192.0945	2,343,738.6224	POT Q - IL157
572+86.35	0.00' RT	754,281.1604	2,343,746.6844	PC Q - IL 157
579+99.11	0.00' LT	754,788.4499	2,343,819.7379	PRC Q - IL 157
579+33.50	265.42' RT	754905.3480	2344101.8810	CP108; PK NAIL

CARDINAL ACRES

(PB 37, PG 109)
RECORDED DECEMBER 16, 1968

SEE SHEET 5

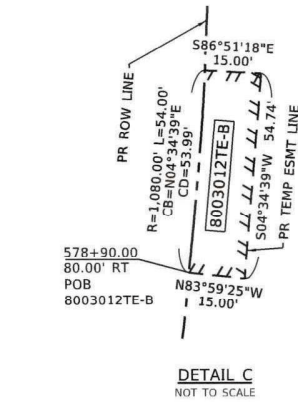
SEE SHEET 6



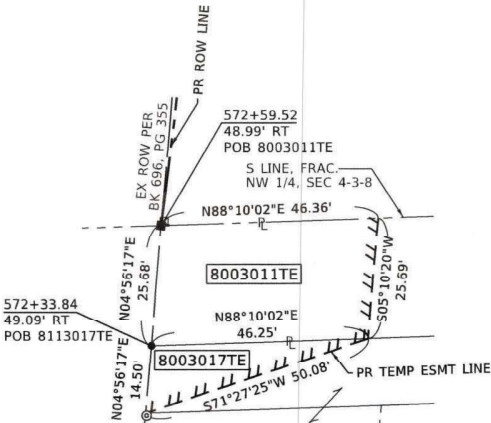
SPACE RESERVED FOR RECORDING OFFICER

PR Q CURVE C50	PR Q CURVE C51
PI STA. = 575+42.97	PI STA. = 580+54.45
Δ = 06° 02' 42" (RT)	Δ = 28° 38' 50" (LT)
D = 01° 10' 44"	D = 05° 43' 46"
R = 4,860.00'	R = 1,000.00'
T = 256.62'	T = 255.34'
L = 512.76'	L = 499.99'
E = 6.77'	E = 32.08'
PRC STA. = 572+86.35	PRC STA. = 577+99.11
PRC STA. = 577+99.11	PT STA. = 582+99.10

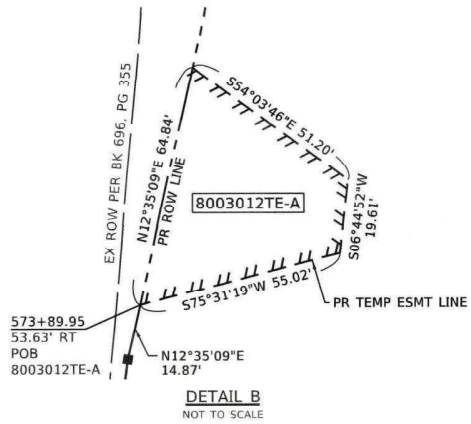
C21	C13	C14
R=1,080.00'	R=1,080.00'	R=1,073.20'
L=123.96	L=296.76'	L=272.07'
CR=N09°17'52"E	CR=S04°42'51"W	CR=N02°19'28"W
CD=123.89'	CD=295.83'	CD=271.34'



DETAIL C
NOT TO SCALE



DETAIL A
NOT TO SCALE



DETAIL B
NOT TO SCALE

* SEE TOTAL HOLDING AREA
SOURCE TABLE ON SHEET 2

PARCEL NO.	OWNER	SEE SHEET 6 FOR PARCEL INFORMATION
8003012	RICHARD G. IBERG AS TRUSTEE UNDER DECLARATION OF TRUST OF RICHARD G. IBERG, DATED APRIL 19, 1999 AS TO AN UNDIVIDED 1/2 INTEREST & JUNE M. IBERG AS TRUSTEE UNDER DECLARATION OF TRUST OF JUNE M. IBERG, DATED APRIL 16, 1999 AS TO AN UNDIVIDED 1/2 INTEREST 18-2009MA-4258.0	

PARCEL NO.	OWNER	TOTAL HOLDING ACRES	EASEMENTS		EASEMENT PURPOSE	PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
			PE = PERMANENT ACRES	TE = TEMPORARY SQ. FT.			
8003011	HARRY J. JOHNSON, JR. & JEANMARIE JOHNSON AS JOINT TENANTS 18-2013MA-4767.0	2.1997	TE = 0.0271	TE = 1,181	ENTRANCE CONSTRUCTION & GRADING	13-2-21-04-13-301-009	
8003017	MARY R. RUDER, TRUSTEE OF THE MARY R. RUDER REVOCABLE TRUST, U/T/A DATED SEPTEMBER 8, 1999 18-2013MA-4768.0	4.0584	TE = 0.0076	TE = 333	GRADING	13-2-21-04-13-301-006	

STATE OF ILLINOIS)
COUNTY OF SANGAMON)

I, NATHAN T. DOZIER, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, STATE THAT I HAVE SURVEYED THE PLAT OF HIGHWAY SHOWN HEREON AND THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY FOR THE PROPOSED PARCEL(S) TO BE ACQUIRED BY THE STATE OF ILLINOIS, DEPARTMENT OF TRANSPORTATION, SHOWN HEREON.

DATED 4/16/24
NATHAN T. DOZIER
NATHAN T. DOZIER, PLS NO. 3723
LICENSE EXPIRATION DATE: 11/30/2024



COMPLETION DATE OF FIELD WORK PERFORMED		
LAND SURVEY:	3/14/2022	ROW STAKING: 2/28/2024

VOLKERT

1500 EASTPORT PLAZA DRIVE
SUITE 200
COLLINSVILLE, IL 62234
618.345.8918
IL DESIGN FIRM # 184.004027

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAP ROUTE 586 (IL 162) & FAP 592 (IL 157)
SECTION 51-1R
MADISON COUNTY
JOB NO. R-98-003-10
STATION 572+00 TO STATION 580+00 (IL 157)

SCALE: 1" = 50'

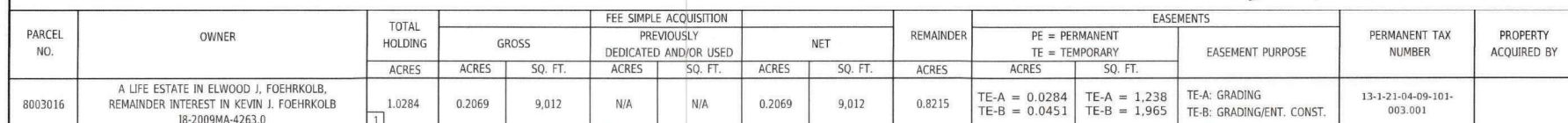
SHEET 7 OF 13

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
586/592	51-1R	MADISON	102	296

CONTRACT NO. 76A46
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

COUNTY OF SANGAMON)

4/12/24
NATHAN T. DOZIER, PLS NO 3723
LICENSE EXPIRATION DATE: 11/30/2024



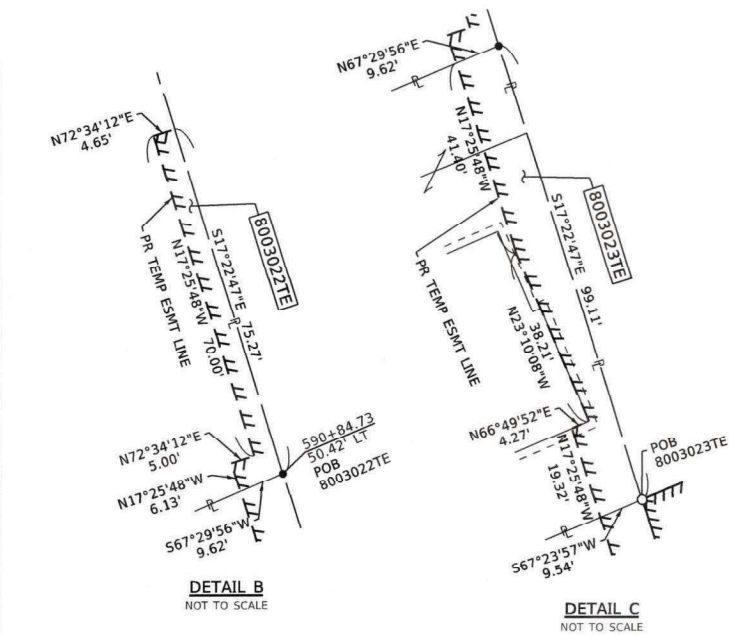
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
586/592	51-1R	MADISON	103	296
CONTRACT NO. 76A46				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SEE LEGENDS, TOPOGRAPHIC STATEMENT, SURVEYORS NOTE(S) AND BASIS OF COORDINATES & BEARINGS STATEMENT ON SHEET 2

COORDINATE TABLE					
STATION	OFFSET	NORTH	EAST	DESCRIPTION	
589+82.65	35.05' RT	755,945.1780	2,343,621.6151	EX ROW	
589+84.17	49.50' RT	755,950.9579	2,343,634.9423	PR PE CORNER	
589+86.80	74.50' RT	755,960.9610	2,343,658.0074	PR ROW CORNER	
589+84.75	60.00' LT	755,918.7170	2,343,530.2984	PR TE CORNER	
589+85.61	50.50' LT	755,922.3820	2,343,539.1026	EX ROW	
590+04.07	60.00' LT	755,937.1464	2,343,524.5124	PR TE CORNER	
590+04.46	56.18' LT	755,938.6603	2,343,528.0415	PR TE CORNER	
590+42.47	60.00' LT	755,973.7868	2,343,513.0088	PR TE CORNER	
590+76.50	74.58' RT	756,046.5585	2,343,631.2160	PR ROW	
590+83.88	60.00' LT	756,013.2883	2,343,500.6070	PR TE CORNER	
590+84.73	50.42' LT	756,016.9709	2,343,509.4969	EX ROW	
590+90.00	60.00' LT	756,019.1345	2,343,498.7716	PR TE CORNER	
590+90.00	55.00' LT	756,020.6322	2,343,503.5420	PR TE CORNER	
591+60.00	55.00' LT	756,087.4133	2,343,482.5756	PR TE CORNER	
591+60.00	50.35' LT	756,088.8065	2,343,487.0129	PR TE CORNER	
591+68.32	74.66' RT	756,134.1877	2,343,603.7886	PR ROW	
592+12.69	74.70' RT	756,176.5301	2,343,590.5358	PR ROW CORNER	
592+36.16	50.28' LT	756,161.4862	2,343,464.2646	EX ROW CORNER	
592+58.52	43.31' RT	756,210.8625	2,343,546.8639	EX ROW CORNER	
592+66.87	101.18' LT	756,175.5431	2,343,406.5022	EX ROW CORNER	
594+71.11	0.00' RT	756,400.7117	2,343,441.8603	POT G - IL 157 END	
11+20.99	39.36' RT	756238.3374	2343620.8461	PR ROW CORNER	
11+35.02	39.05' RT	756243.5006	2343634.7491	PR TE CORNER	
11+35.93	44.05' RT	756238.8134	2343636.4898	PR TE CORNER	
11+75.81	38.20' RT	756257.4262	2343672.2468	PR TE CORNER	
11+75.92	43.20' RT	756252.7390	2343673.9875	PR TE CORNER	
10+00.00	0.00' RT	756235.8034	2343493.6358	POT G - MAIN BEGNI	
12+03.11	0.00' RT	756302.4737	2343685.4883	POT G - MAIN END	

NOTE:

RIGHT OF WAY FOR S.B.I. ROUTE 157 LOCATED IN THE FORMER RAILROAD RIGHT OF WAY WAS ESTABLISHED PURSUANT TO THE AUTHORITY PROVIDED IN FORMER CHAPTER 121, SECTION 297 OF THE ILLINOIS REVISED STATUTES.



SEE SHEET 12 FOR TOTAL HOLDING

SEE SHEET 12 FOR TOTAL HOLDING

NE COR. U.S. SURVEY 512, CLAIM 1258
POC 8003021
POC 8003021TE
POC 8003022TE
POC 8003023TE

* SEE TOTAL HOLDING AREA
SOURCE TABLE ON SHEET 2

PARCEL NO.	OWNER	TOTAL HOLDING	EASEMENTS			PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
			PE = PERMANENT TE = TEMPORARY		EASEMENT PURPOSE		
			ACRES	SQ. FT.			
8003022	KENNETH G. & MICHELLE A. NOLL HUSBAND AND WIFE AS JOINT TENANTS 18-2009MA-4273.0	5.0010 1	TE = 0.0087	TE = 378	CONSTRUCTION & GRADING	13-1-21-05-00-000-004.001	
8003023	KENNETH G. NOLL 18-2009MA-4254.0	0.7965 1	TE = 0.0200	TE = 872	GRADING & ENTRANCE CONST.	13-1-21-04-05-101-019	

PARCEL NO.	OWNER	TOTAL HOLDING	FEE SIMPLE ACQUISITION						REMAINDER	EASEMENTS			PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
			GROSS		PREVIOUSLY DEDICATED AND/OR USED		NET			PE = PERMANENT TE = TEMPORARY		EASEMENT PURPOSE		
			ACRES	SQ. FT.	ACRES	SQ. FT.	ACRES	SQ. FT.		ACRES	SQ. FT.			
8003021	FIRST COLLINSVILLE BANK 18-2009MA-4257.0, 4253.0, 4255.0	1.4937	0.2340	10,193	N/A	N/A	0.2340	10,193	1.2597	TE = 0.0046	TE = 200	GRADING & ENTRANCE CONSTRUCTION	13-2-21-04-05-101-017 13-2-21-04-05-101-016 13-2-21-04-05-101-018	

SEE SHEET 8

STATE OF ILLINOIS)
COUNTY OF SANGAMON) SS

I, NATHAN T. DOZIER, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, STATE THAT I HAVE SURVEYED THE PLAT OF HIGHWAY SHOWN HEREON AND THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY FOR THE PROPOSED PARCEL(S) TO BE ACQUIRED BY THE STATE OF ILLINOIS, DEPARTMENT OF TRANSPORTATION, SHOWN HEREON.

DATED 4/16/24

NATHAN T. DOZIER, PLS NO. 3723
LICENSE EXPIRATION DATE: 11/30/2024

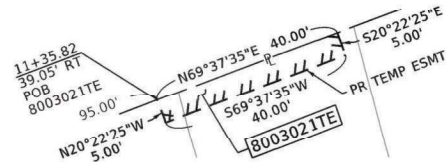


COMPLETION DATE OF FIELD WORK PERFORMED
LAND SURVEY: 3/14/2022 ROW STAKING: 2/28/2024



SPACE RESERVED FOR RECORDING OFFICER

C23
R = 50.00'
L = 75.93'
CB = 526°07'24"W
CD = 68.84'

DETAIL A
NOT TO SCALE

VOLKERT

1500 EASTPORT PLAZA DRIVE
SUITE 200
COLLINSVILLE, IL 62234
618.345.8918
IL DESIGN FIRM # 184.004027

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS

FAP ROUTE 586 (IL 162) & FAP 592 (IL 157)
SECTION 51-1R
MADISON COUNTY
JOB NO. R-98-003-10

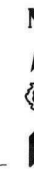
STATION 589+00 TO STATION 593+00 (IL 157)

30' 0 30' 60'
SCALE: 1" = 30'

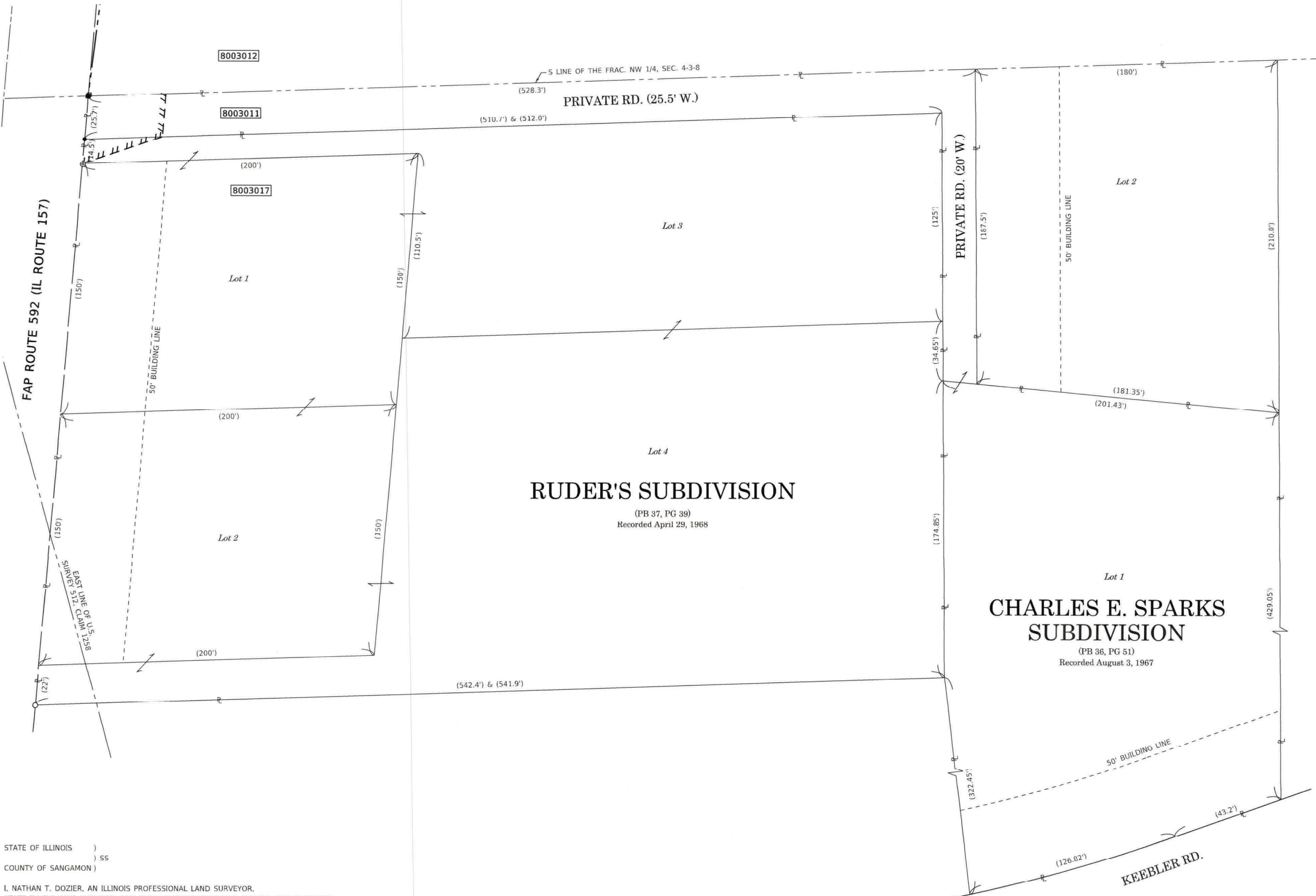
SHEET 9 OF 13

ILLINOIS DEPARTMENT OF TRANSPORTATION
OFFICE OF HIGHWAYS PROJECT IMPLEMENTATION/REGION 5/DISTRICT 8
1102 EASTPORT PLAZA DRIVE
COLLINSVILLE, ILLINOIS 62234-6198

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
586/592	51-1R	MADISON	104	296
CONTRACT NO. 76A46			FED. AID PROJECT	



SPACE RESERVED FOR RECORDING OFFICER



STATE OF ILLINOIS)
COUNTY OF SANGAMON) SS

I, NATHAN T. DOZIER, AN ILLINOIS PROFESSIONAL LAND SURVEYOR,
STATE THAT I HAVE SURVEYED THE PLAT OF HIGHWAY SHOWN HEREON AND THAT THIS
PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR
A BOUNDARY SURVEY FOR THE PROPOSED PARCEL(S) TO BE ACQUIRED BY THE STATE OF
ILLINOIS, DEPARTMENT OF TRANSPORTATION, SHOWN HEREON.

DATED 4/12/24
NATHAN T. DOZIER, PLS NO. 3723
LICENSE EXPIRATION DATE: 11/30/2024



VOLKERT
1500 EASTPORT PLAZA DRIVE
SUITE 200
COLLINSVILLE, IL 62234
618.345.8918
IL DESIGN FIRM # 184.004027

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAP ROUTE 586 (IL 162) & FAP 592 (IL 157)
SECTION 51-1R
MADISON COUNTY
JOB NO. R-98-003-10
TOTAL HOLDINGS
PARCELS 8003011 & 8003017

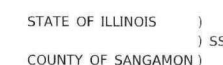
30' 0 30' 60'
SCALE: 1" = 30' SHEET 10 OF 13

ILLINOIS DEPARTMENT OF TRANSPORTATION
OFFICE OF HIGHWAYS PROJECT IMPLEMENTATION/REGION 5/DISTRICT 8
1102 EASTPORT PLAZA DRIVE
COLLINSVILLE, ILLINOIS 62234-6198

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
586/592	51-1R	MADISON	105	296
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

COMPLETION DATE OF FIELD WORK PERFORMED	
LAND SURVEY:	3/14/2022
ROW STAKING:	2/28/2024

SPACE RESERVED FOR RECORDING OFFICER



I, NATHAN T. DOZIER, AN ILLINOIS PROFESSIONAL LAND SURVEYOR,
STATE THAT I HAVE SURVEYED THE PLAT OF HIGHWAY SHOWN HEREON AND THAT THIS
PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR
A BOUNDARY SURVEY FOR THE PROPOSED PARCEL(S) TO BE ACQUIRED BY THE STATE OF
ILLINOIS, DEPARTMENT OF TRANSPORTATION, SHOWN HEREON.

DATED 4/12/24
NATHAN T. DOZIER
NATHAN T. DOZIER, PLS NO. 3723
LICENSE EXPIRATION DATE: 11/30/2024



VOLKERT 1500 EASTPORT PLAZA DRIVE
SUITE 200
COLLINSVILLE, IL 62234
618.345.8918
IL DESIGN FIRM # 181.001027

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS

FAP ROUTE 586 (IL 162) & FAP 592 (IL 157)
SECTION 51-1R

JOB NO. R-98-003-10

TOTAL HOLDING 8003019, 8003020,
8003021 & 8003024

8003021 & 8003024

100' 0 100' 200'

SCALE: 1" = 50'

SHEET 11 OF 13

ILLINOIS DEPARTMENT OF TRANSPORTATION
OFFICE OF HIGHWAYS PROJECT IMPLEMENTATION/REGION 5/DISTRICT 8
1102 EASTPORT PLAZA DRIVE
COLLINSVILLE, ILLINOIS 62234-6198

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
586/592	51-1R	MADISON	106	296
		CONTRACT NO. 76A46		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



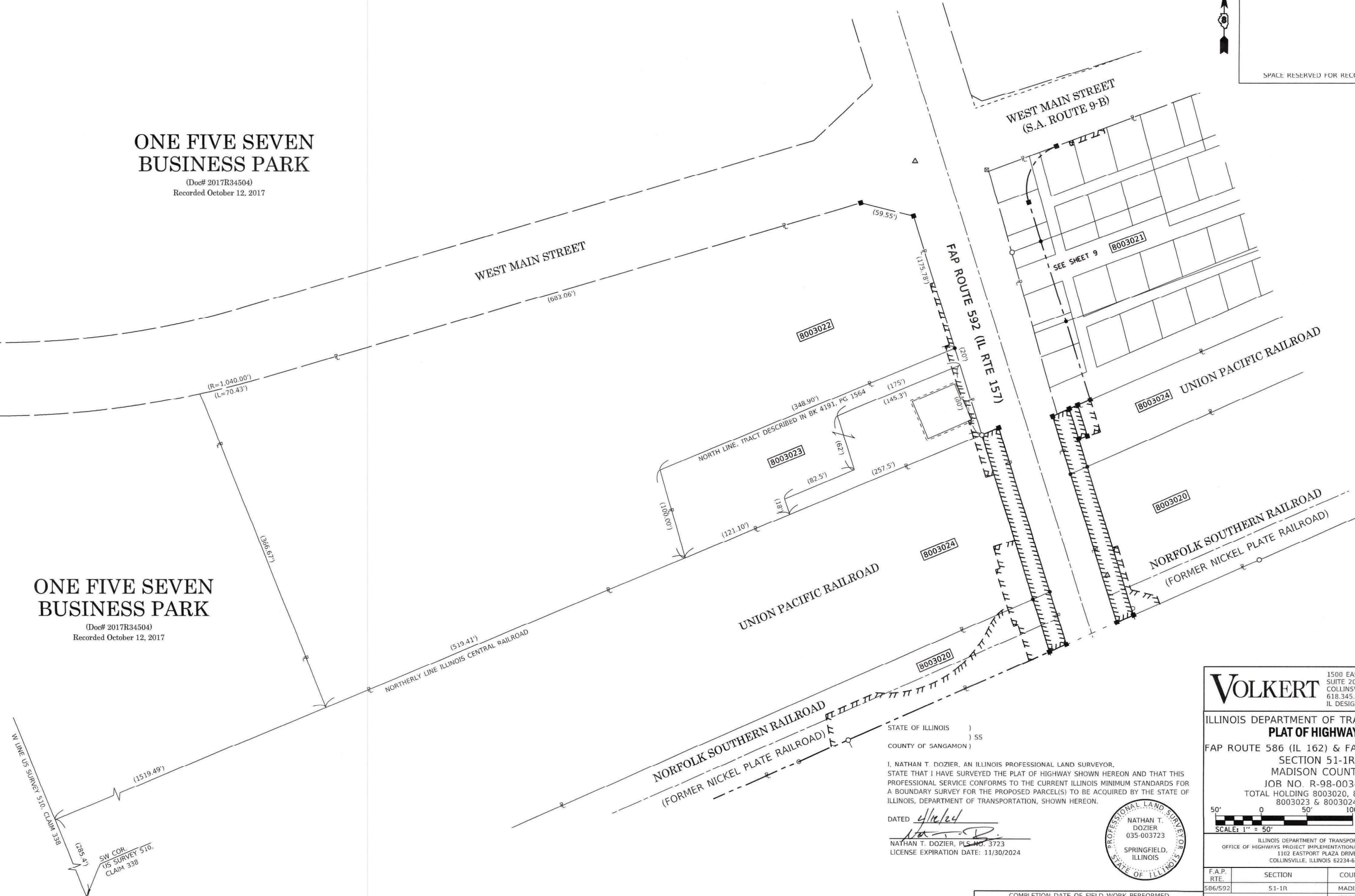
SPACE RESERVED FOR RECORDING OFFICER

ONE FIVE SEVEN
BUSINESS PARK

(Doc# 2017R34504)
Recorded October 12, 2017

ONE FIVE SEVEN
BUSINESS PARK

(Doc# 2017R34504)
Recorded October 12, 2017



STATE OF ILLINOIS)
COUNTY OF SANGAMON) SS

I, NATHAN T. DOZIER, AN ILLINOIS PROFESSIONAL LAND SURVEYOR,
STATE THAT I HAVE SURVEYED THE PLAT OF HIGHWAY SHOWN HEREON AND THAT THIS
PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR
A BOUNDARY SURVEY FOR THE PROPOSED PARCEL(S) TO BE ACQUIRED BY THE STATE OF
ILLINOIS, DEPARTMENT OF TRANSPORTATION, SHOWN HEREON.

DATED 4/16/24
NATHAN T. DOZIER, PLS. NO. 3723
LICENSE EXPIRATION DATE: 11/30/2024



VOLKERT 1500 EASTPORT PLAZA DRIVE
SUITE 200
COLLINSVILLE, IL 62234
618.345.8918
IL DESIGN FIRM # 184.004027

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS

FAP ROUTE 586 (IL 162) & FAP 592 (IL 157)
SECTION 51-1R
MADISON COUNTY
JOB NO. R-98-003-10
TOTAL HOLDING 8003020, 8003022,
8003023 & 8003024

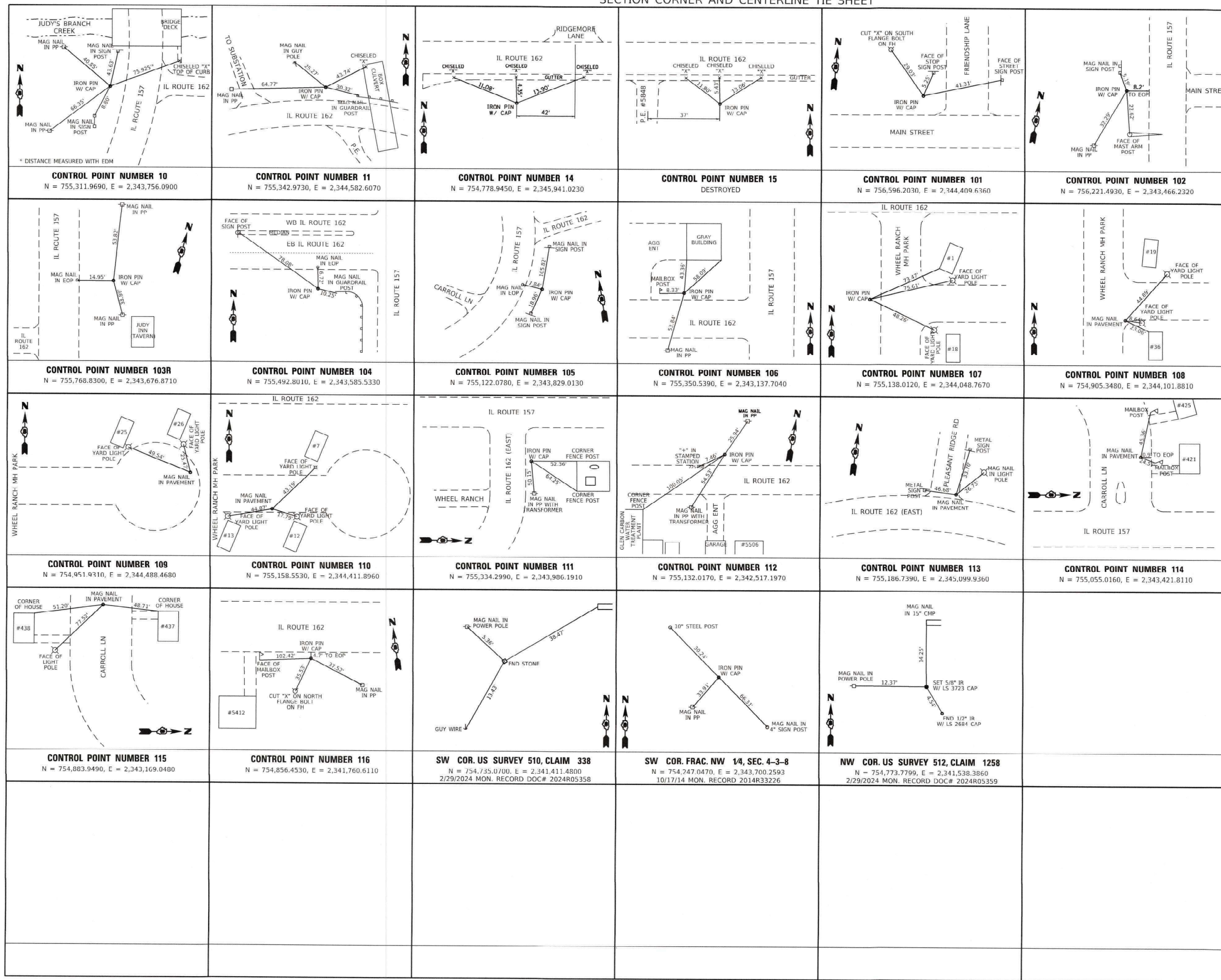
SCALE: 1" = 50'

SHEET 12 OF 13

ILLINOIS DEPARTMENT OF TRANSPORTATION
OFFICE OF HIGHWAYS PROJECT IMPLEMENTATION/REGION 5/DISTRICT 8
1102 EASTPORT PLAZA DRIVE
COLLINSVILLE, ILLINOIS 62234-6198

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
586/592	51-1R	MADISON	107	296
CONTRACT NO. 76A46				FED. AID PROJECT

SECTION CORNER AND CENTERLINE TIE SHEET



SPACE RESERVED FOR RECORDING OFFICER

STATE OF ILLINOIS)
COUNTY OF SANGAMON)I, NATHAN T. DOZIER, AN ILLINOIS
PROFESSIONAL LAND SURVEYOR, STATE THAT I HAVE
SURVEYED THE PLAT OF HIGHWAY SHOWN HEREON AND
THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE
CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY
SURVEY OF THE EXISTING RIGHT OF WAY, SHOWN HEREON.DATED 4/12/24
NATHAN T. DOZIER, PLS NO. 3723
LICENSE EXPIRATION DATE: 11/30/2024NOTE:
ALL TIES MEASURED DIRECT UNLESS
OTHERWISE NOTED
Volkert 1500 EASTPORT PLAZA DRIVE
SUITE 200
COLLINGSVILLE, IL 62234
618.345.8918
IL DESIGN FIRM # 184.004027

COMPLETION DATE OF FIELD WORK PERFORMED

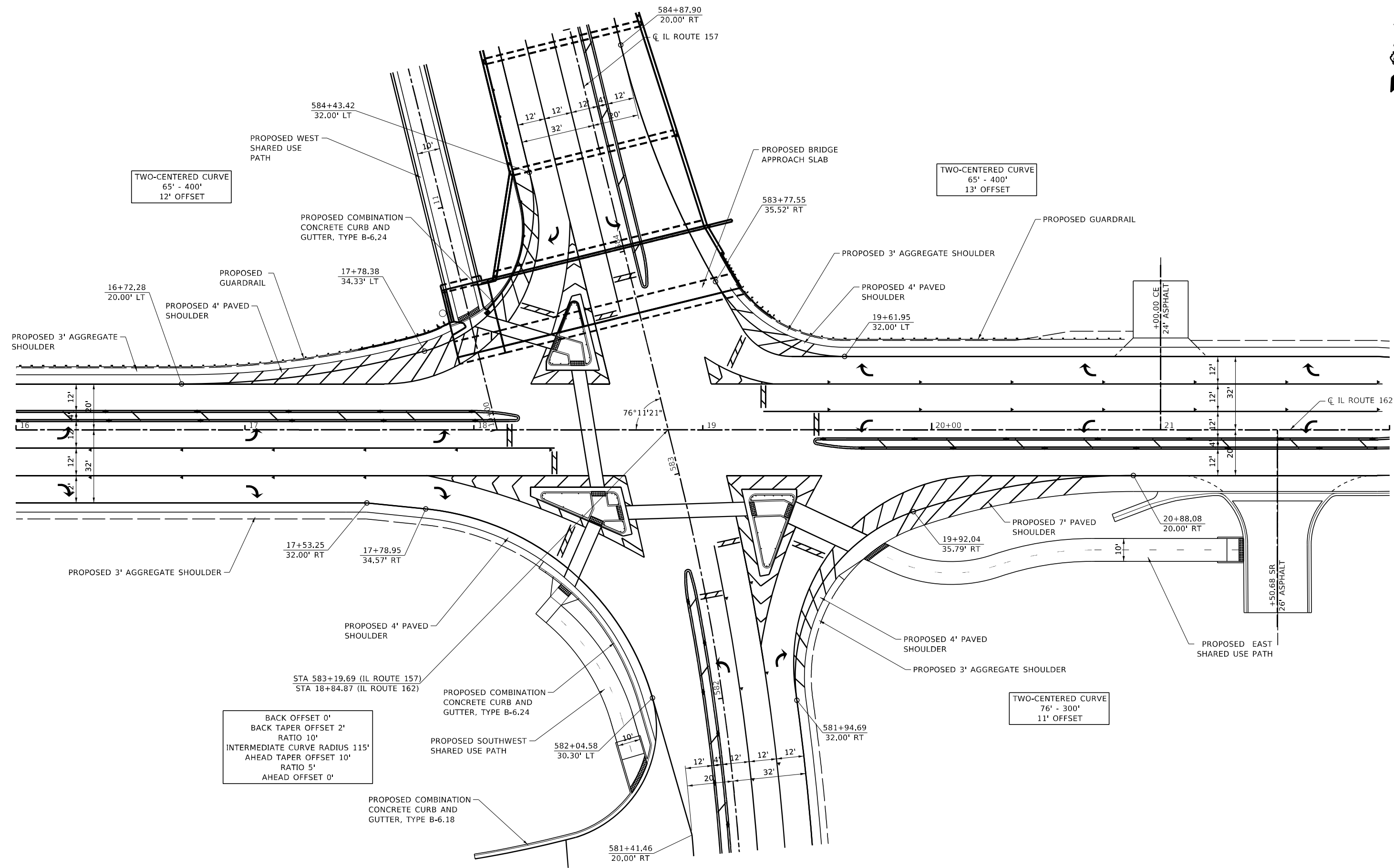
LAND SURVEY: ROW STAKING:

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYSFAP ROUTE 586 (IL 162) & FAP 592 (IL 157)
SECTION 51-1R
MADISON COUNTY
JOB NO. R-98-003-10
STATION 00+00 TO STATION 00+00

NOT TO SCALE SHEET 13 OF 13

ILLINOIS DEPARTMENT OF TRANSPORTATION
OFFICE OF HIGHWAYS PROJECT IMPLEMENTATION/REGION 5/DISTRICT 8
1102 EASTPORT PLAZA DRIVE
COLLINGSVILLE, ILLINOIS 62234-6198

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
586/592	51-1R	MADISON	108	296
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



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USER NAME	• alex.huelskamp
MODEL NAME	• INT DET 01
PLOT SCALE	• 40,0000" / in.
PLOT DATE	• 3/5/2024

DESIGNED	- ESW
DRAWN	- LEC
CHECKED	- BRM
DATE	- 10/8/2021

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSECTION DETAILS
IL ROUTE 157 AND IL ROUTE 162

SCALE: 1"=20'

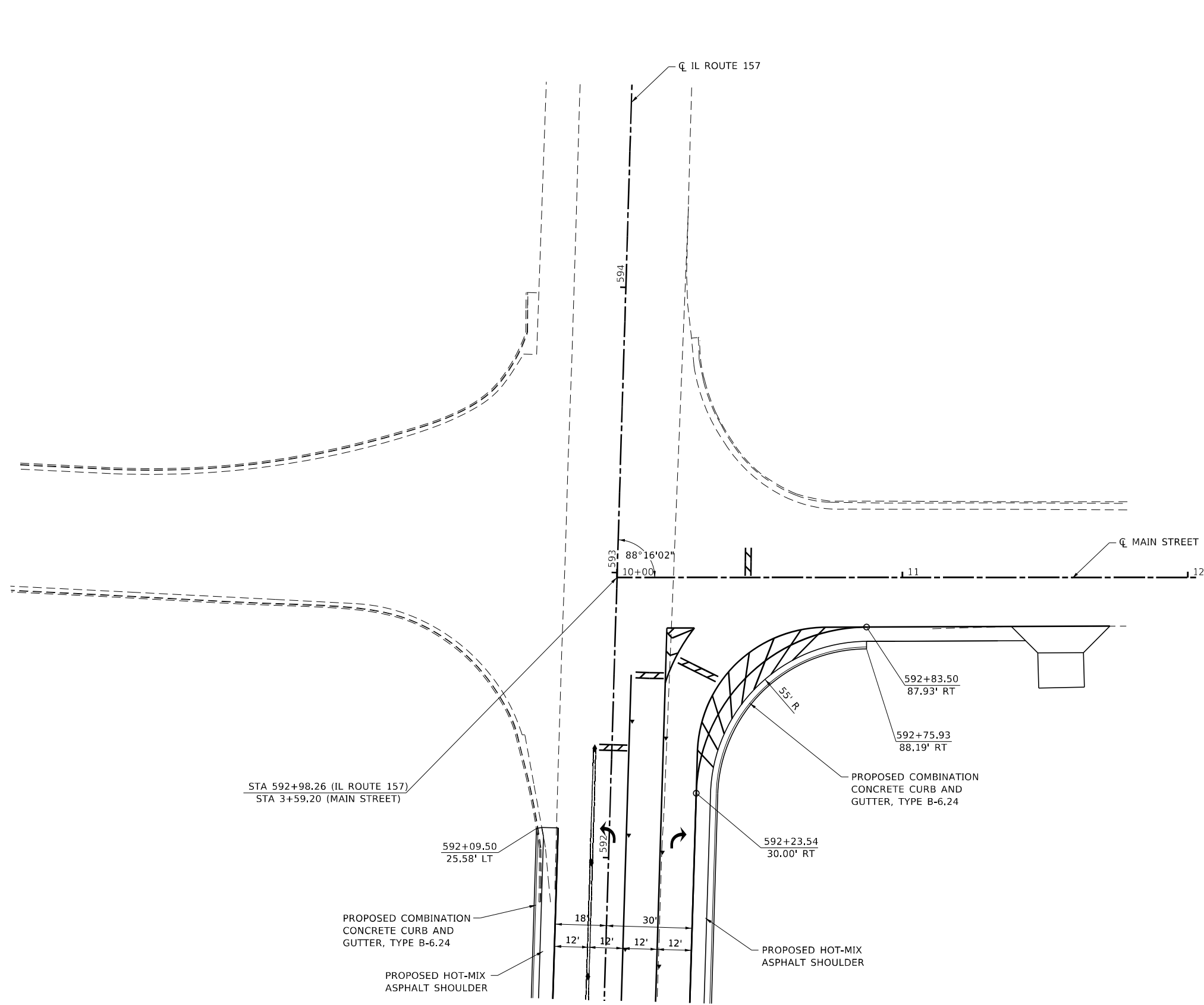
SHEET 1 OF 2 SHEETS

INT DET 157/162

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	109
CONTRACT NO. 76A46				
ILLINOIS FED. AID PROJECT				

*586/592

FILE NAME: \\lochl\loc\cst\Production\Files\2020\120-00\B\CAD\CADD Sheets\0876A46-shr-Intersection Details.dgn



USER NAME	• alex.huelskamp	DESIGNED	- ESW	REVISED	-
MODEL NAME	• INT DET 02	DRAWN	- LEC	REVISED	-
PLOT SCALE	• 40,0000" / in.	CHECKED	- BRM	REVISED	-
PLOT DATE	• 3/5/2024	DATE	- 10/8/2021	REVISED	-

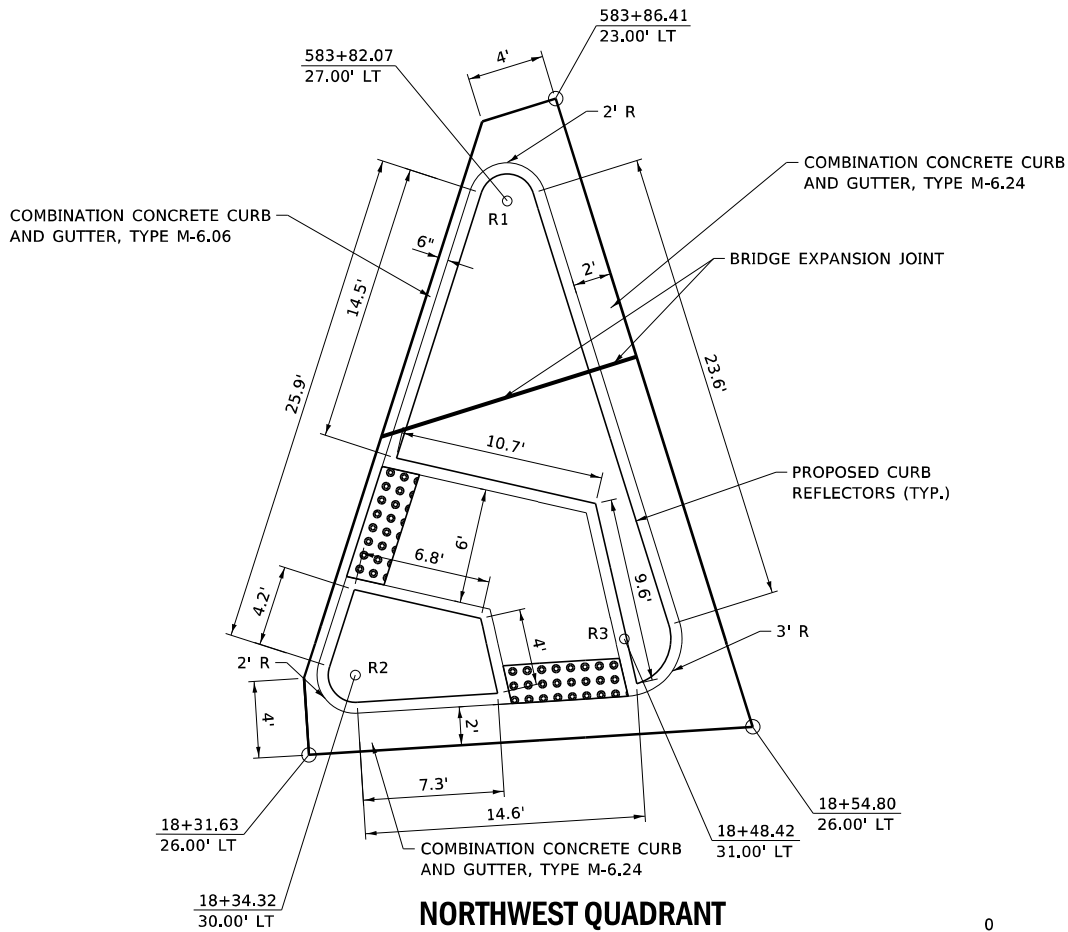
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSECTION DETAILS
MAIN STREET

SCALE: 1"=20' SHEET 2 OF 2 SHEETS INT DET 157/MAIN

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	110
CONTRACT NO. 76A46				
ILLINOIS FED. AID PROJECT				

*586/592

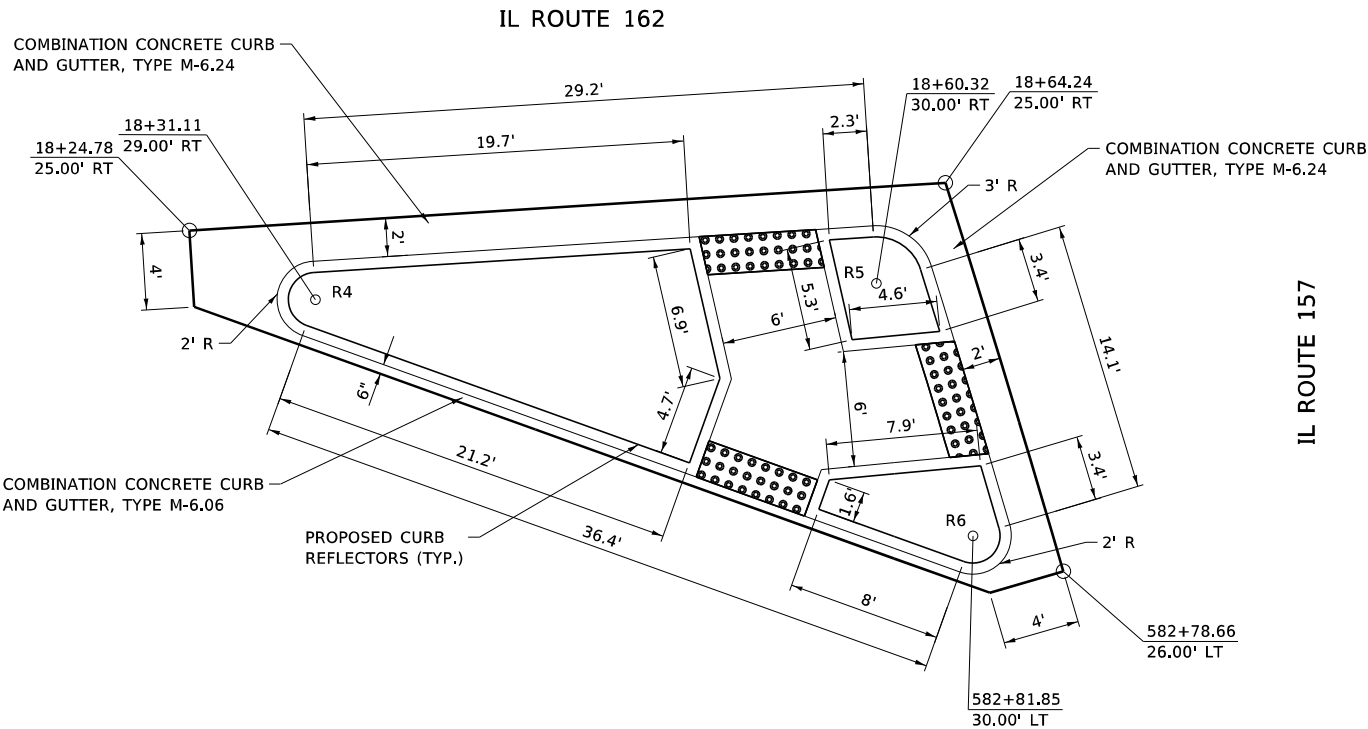


IL ROUTE 162

**NORTHWEST QUADRANT
IL ROUTE 157 AND IL ROUTE 162**



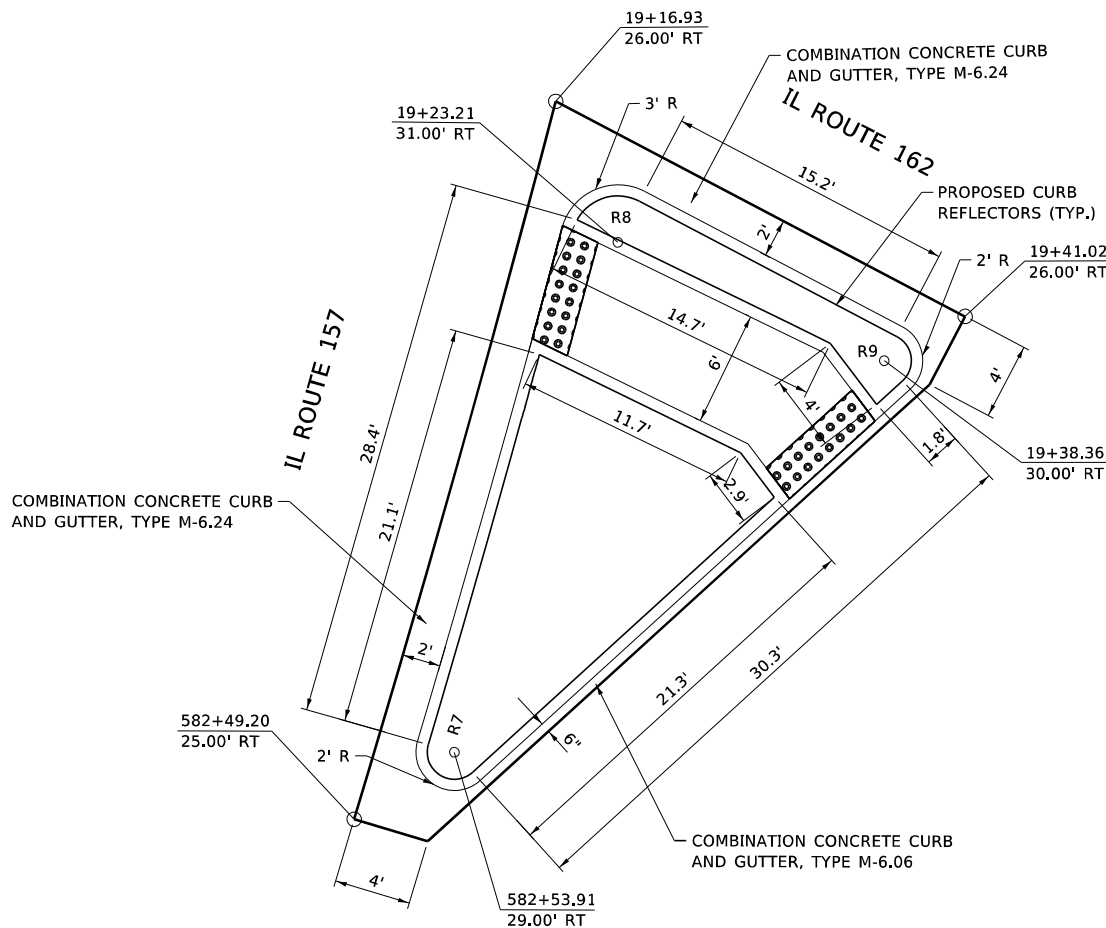
IL ROUTE 157



**SOUTHWEST QUADRANT
IL ROUTE 157 AND IL ROUTE 162**



IL ROUTE 157



**SOUTHEAST QUADRANT
IL ROUTE 157 AND IL ROUTE 162**



GROUND COORDINATES FOR ISLAND RADII

DESCRIPTION	COORDINATE	
	NORTH	EAST
CC R 1	755353.60	2343742.31
CC R 2	755328.91	2343734.41
CC R 3	755330.80	2343748.42
CC R 4	755269.83	2343734.94
CC R 5	755270.67	2343764.15
CC R 6	755257.53	2343769.18
CC R 7	755246.54	2343833.52
CC R 8	755273.65	2343826.98
CC R 9	755275.60	2343842.03



USER NAME	alex.huetskamp
MODEL NAME	ISLAND DETAILS
PLOT SCALE	40,0000" / in.
PLOT DATE	3/5/2024

DESIGNED	ESW
DRAWN	LEC
CHECKED	BRM
DATE	10/8/2021

REVISED	-
REVISED	-
REVISED	-
REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ISLAND DETAILS
IL ROUTE 157 AND IL ROUTE 162**

SCALE: SHEET 1 OF 1 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	111
CONTRACT NO. 76A46				

ILLINOIS FED. AID PROJECT

*586/592

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FILE NAME: \\loech\loc\cst\Production\Files\2020\120-00\B\CAD\CADD Sheets\0876A46-shr-Curb Ramp Details.dgn



USER NAME	• alex.huelskamp
MODEL NAME	• RAMP DET 01
PLOT SCALE	• 40,0000" / in.
PLOT DATE	• 3/5/2024

DESIGNED	- ESW
DRAWN	- LEC
CHECKED	- BRM
DATE	- 10/8/2021

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CURB RAMP DETAILS IL ROUTE 157 AND IL ROUTE 162			
SCALE: 1"=20'	SHEET 1	OF 4 SHEETS	RAMP PLAN

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	112
CONTRACT NO. 76A46				
ILLINOIS FED. AID PROJECT				

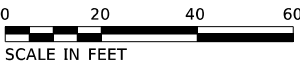
*586/592

STA 583+83.18, 72.58' LT (IL ROUTE 157) =
STA 10+45.65, 0.00' (WEST PATH)

STA 583+19.69 (IL ROUTE 157)
STA 18+84.87 (IL ROUTE 162)

STA 582+54.90, 69.50' RT (IL ROUTE 157) =
STA 30+00.00, 0.00' (SOUTHEAST PATH)

STA 21+38.01, 52.50' RT (IL ROUTE 162) =
STA 31+74.06, 0.00' (SOUTHEAST PATH)



FILE NAME: \\loech\loc\cst\Production\Files\2020\120-00\B\CAD\CADD Sheets\0876A46-shr-Curb Ramp Details.dgn



USER NAME = alex.huelskamp
MODEL NAME = RAMP DET 02
PLOT SCALE = 40,0000" / in.
PLOT DATE = 3/5/2024

DESIGNED - ESW
DRAWN - LEC
CHECKED - BRM
DATE - 10/8/2021

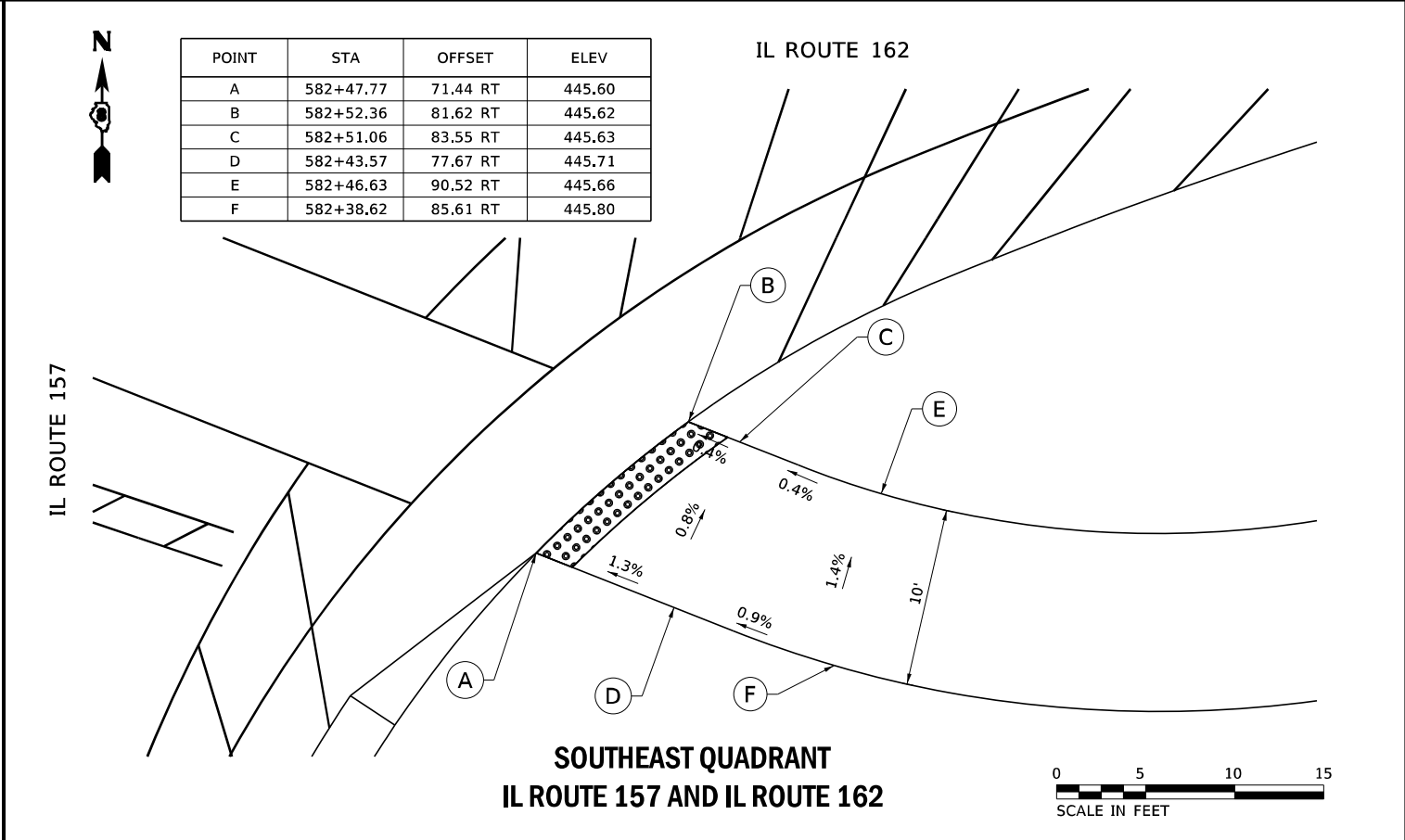
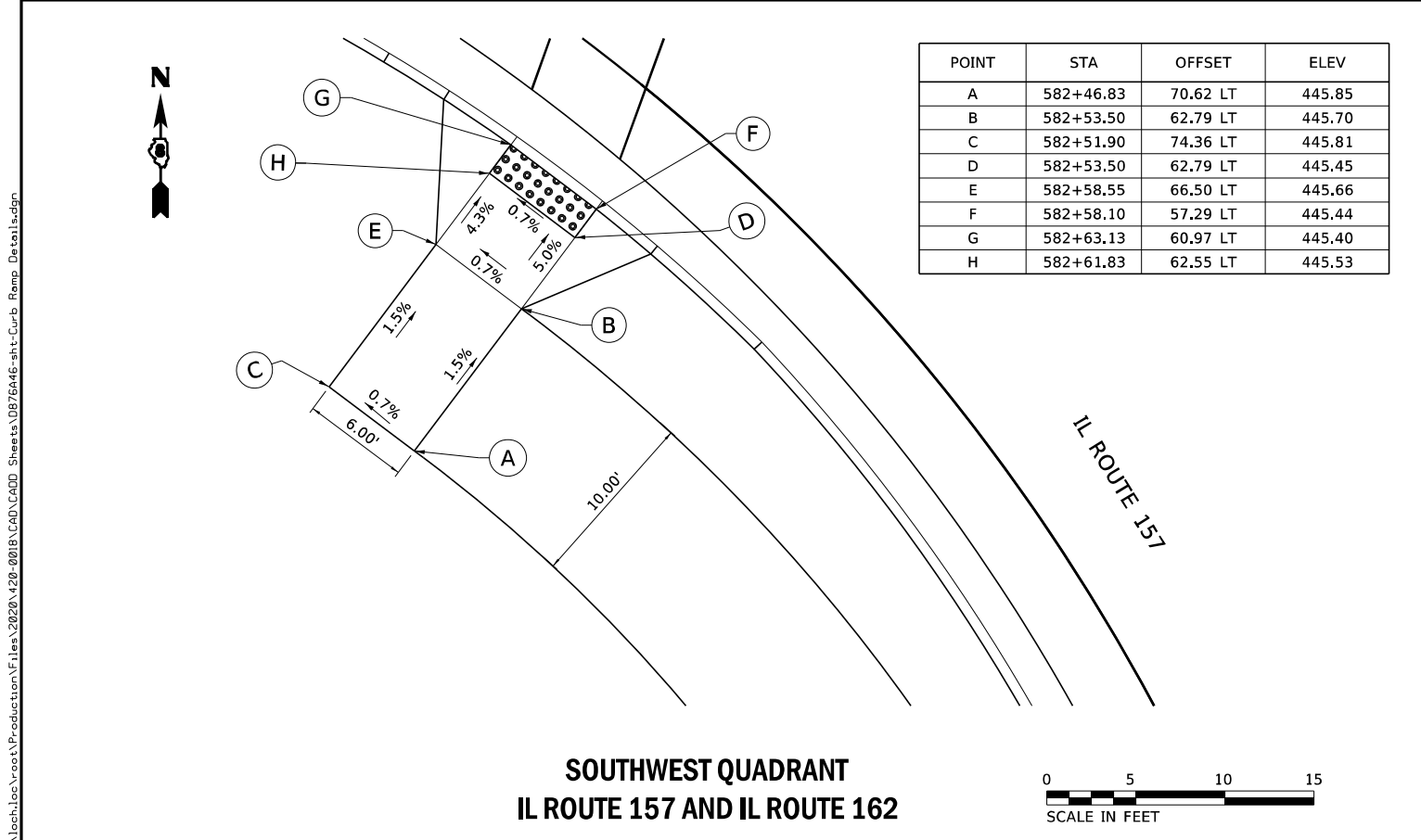
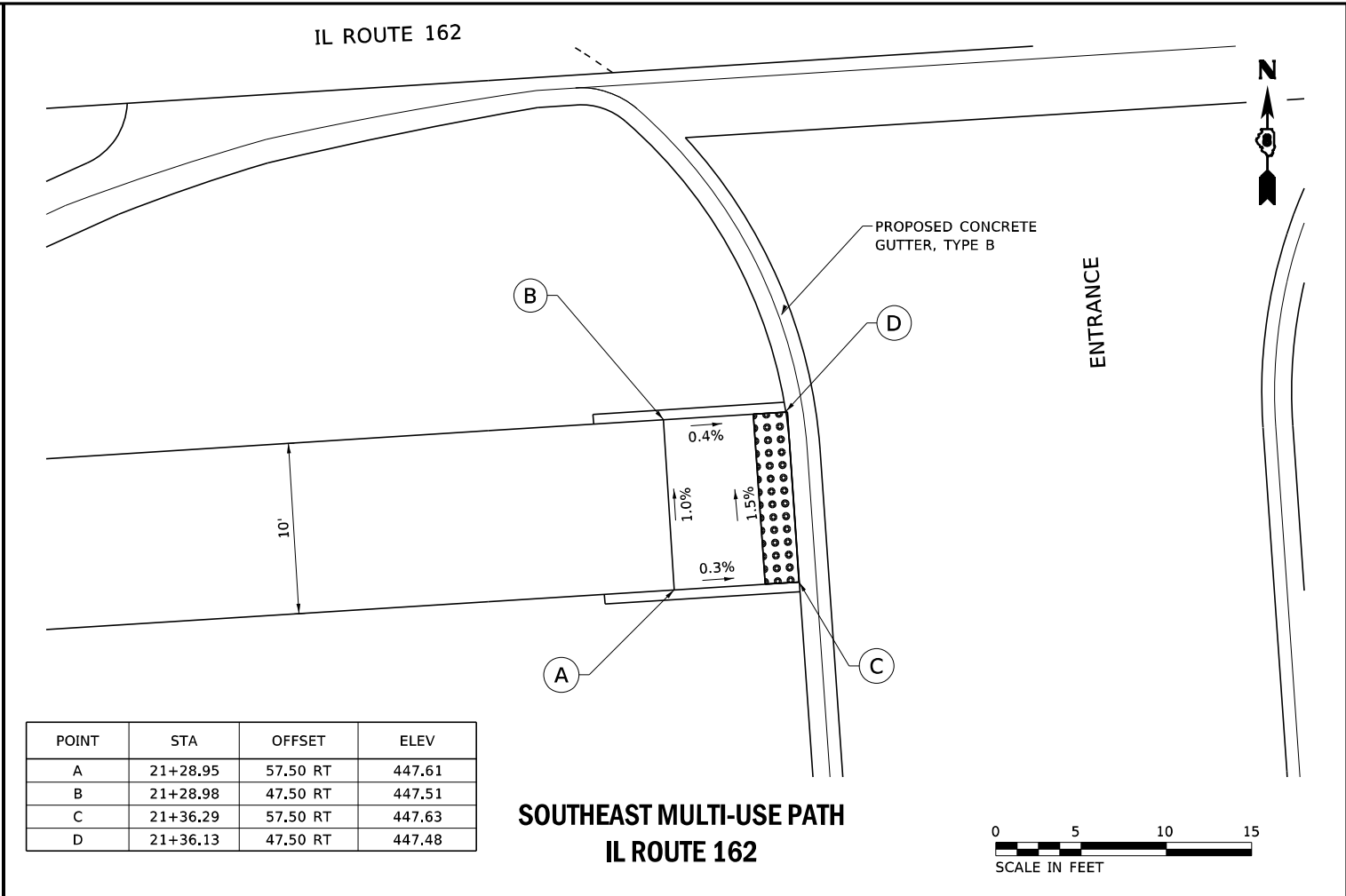
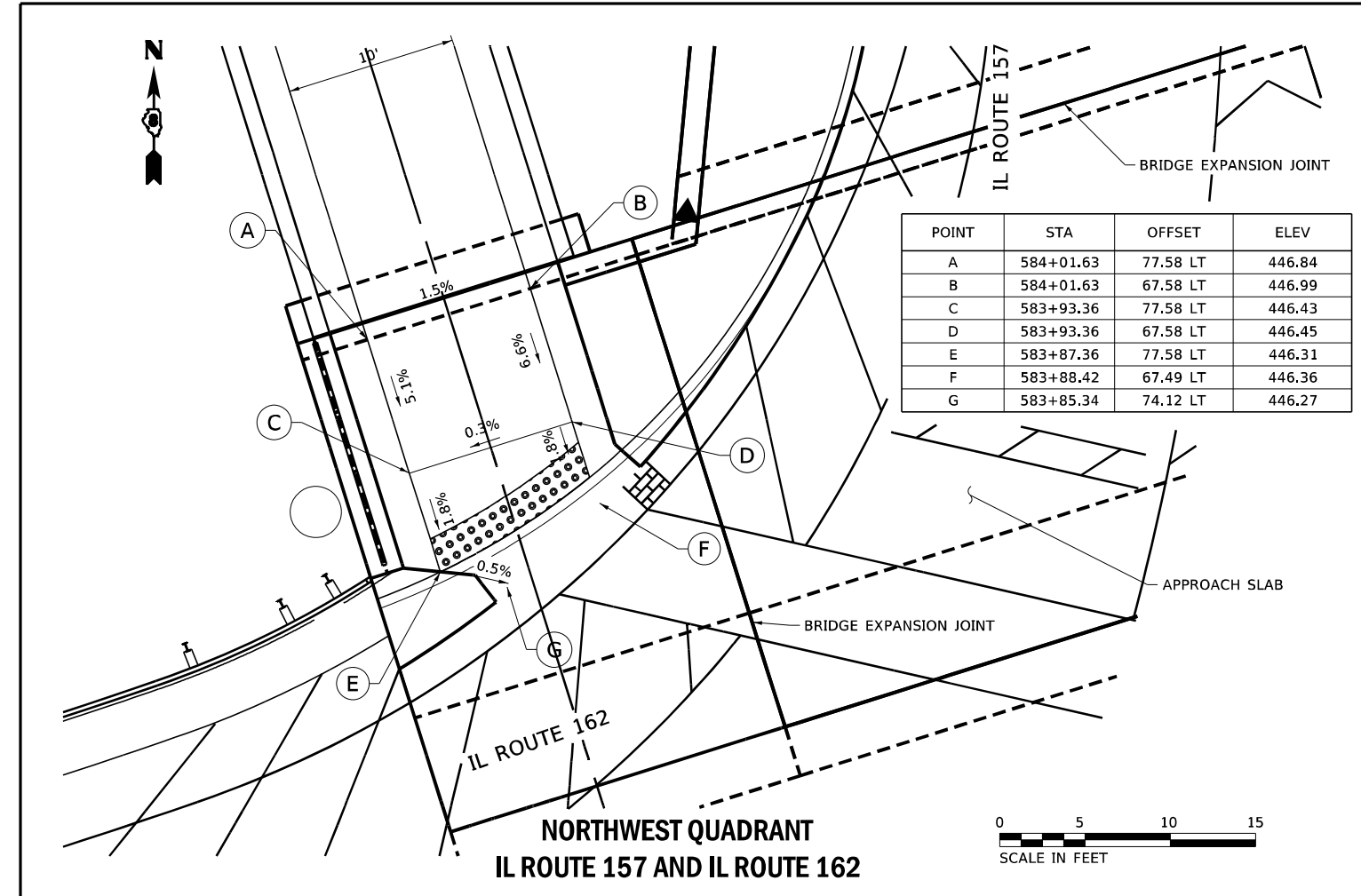
REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CURB RAMP DETAILS
IL ROUTE 157 AND IL ROUTE 162
SCALE: 1"=20'
SHEET 2 OF 4 SHEETS
RAMP DETAILS 2

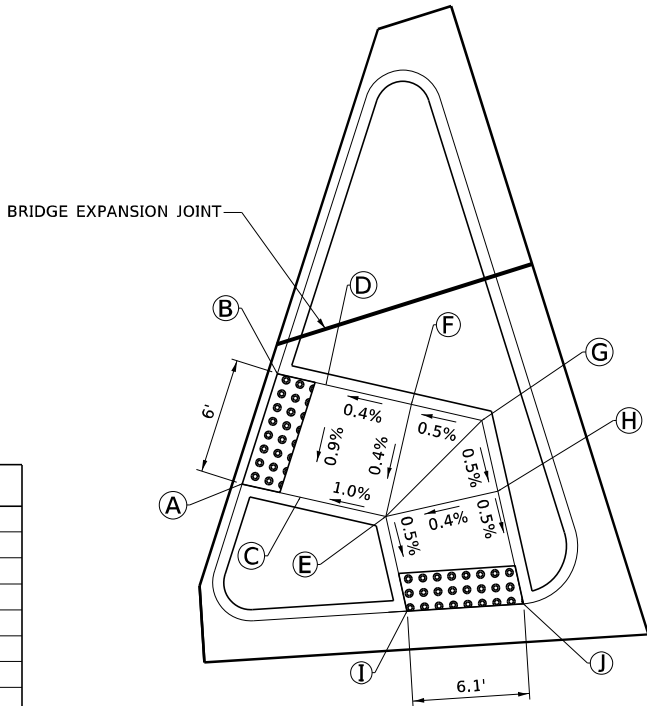
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	113
CONTRACT NO. 76A46				
ILLINOIS FED. AID PROJECT				

*586/592





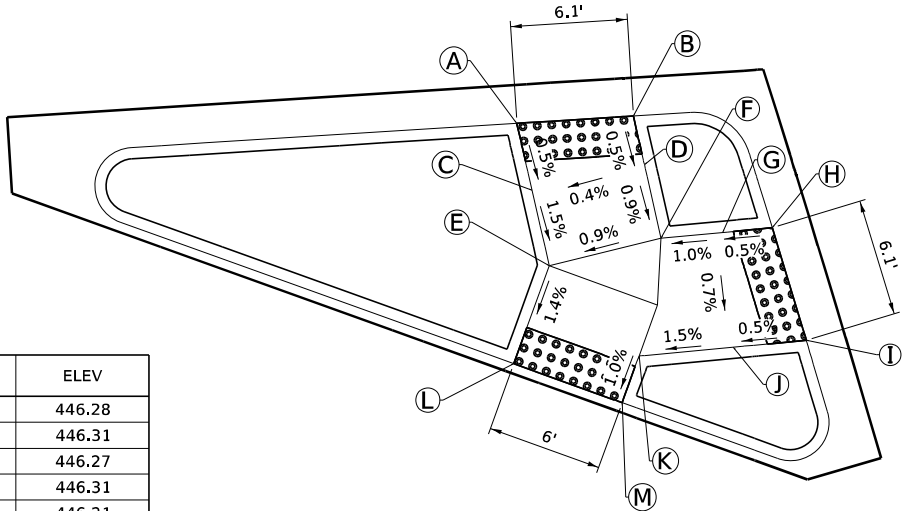
POINT	STA	OFFSET	ELEV
A	583+65.92	40.33 LT	446.55
B	583+70.85	36.36 LT	446.61
C	583+64.36	38.15 LT	446.56
D	583+69.54	35.13 LT	446.62
E	583+62.06	34.21 LT	446.61
F	583+67.25	31.19 LT	446.63
G	583+65.34	27.93 LT	446.65
H	583+61.58	28.23 LT	446.63
I	583+57.00	34.62 LT	446.58
J	583+55.58	27.72 LT	446.60



NORTHWEST QUADRANT
IL ROUTE 157 AND IL ROUTE 162



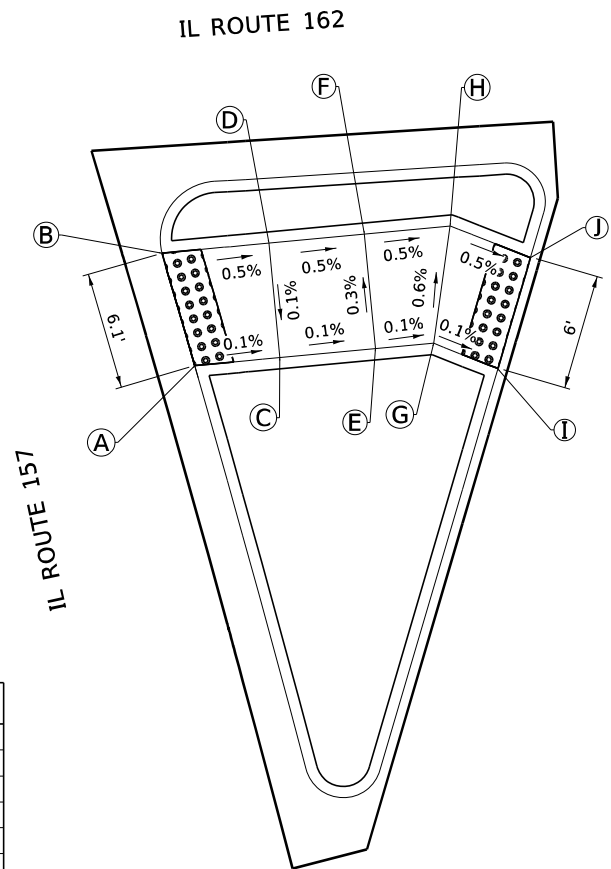
POINT	STA	OFFSET	ELEV
A	583+01.49	39.09 LT	446.28
B	583+00.04	33.18 LT	446.31
C	582+97.89	39.37 LT	446.27
D	582+97.40	33.39 LT	446.31
E	582+93.70	39.68 LT	446.21
F	582+93.34	33.69 LT	446.26
G	582+92.66	30.54 LT	446.29
H	582+92.12	28.00 LT	446.30
I	582+85.82	28.00 LT	446.27
J	582+86.60	31.74 LT	446.25
K	582+87.60	36.58 LT	446.17
L	582+89.17	42.94 LT	446.13
M	582+85.45	38.11 LT	446.14



SOUTHWEST QUADRANT
IL ROUTE 157 AND IL ROUTE 162



POINT	STA	OFFSET	ELEV
A	582+75.14	27.00 RT	446.23
B	582+81.08	27.00 RT	446.27
C	582+74.34	31.37 RT	446.23
D	582+80.05	32.49 RT	446.24
E	582+73.45	36.28 RT	446.23
F	582+79.13	37.40 RT	446.21
G	582+72.91	39.29 RT	446.23
H	582+78.32	41.81 RT	446.19
I	582+70.81	42.14 RT	446.23
J	582+75.69	45.36 RT	446.17



SOUTHEAST QUADRANT
IL ROUTE 157 AND IL ROUTE 162



USER NAME	linda
MODEL NAME	RAMP DET 03
PLOT SCALE	40.0000" / in.
PLOT DATE	3/7/2024

DESIGNED	ESW
DRAWN	LEC
CHECKED	BRM
DATE	10/8/2021

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CURB RAMP DETAILS
IL ROUTE 157 AND IL ROUTE 162

SCALE: 1"=5'

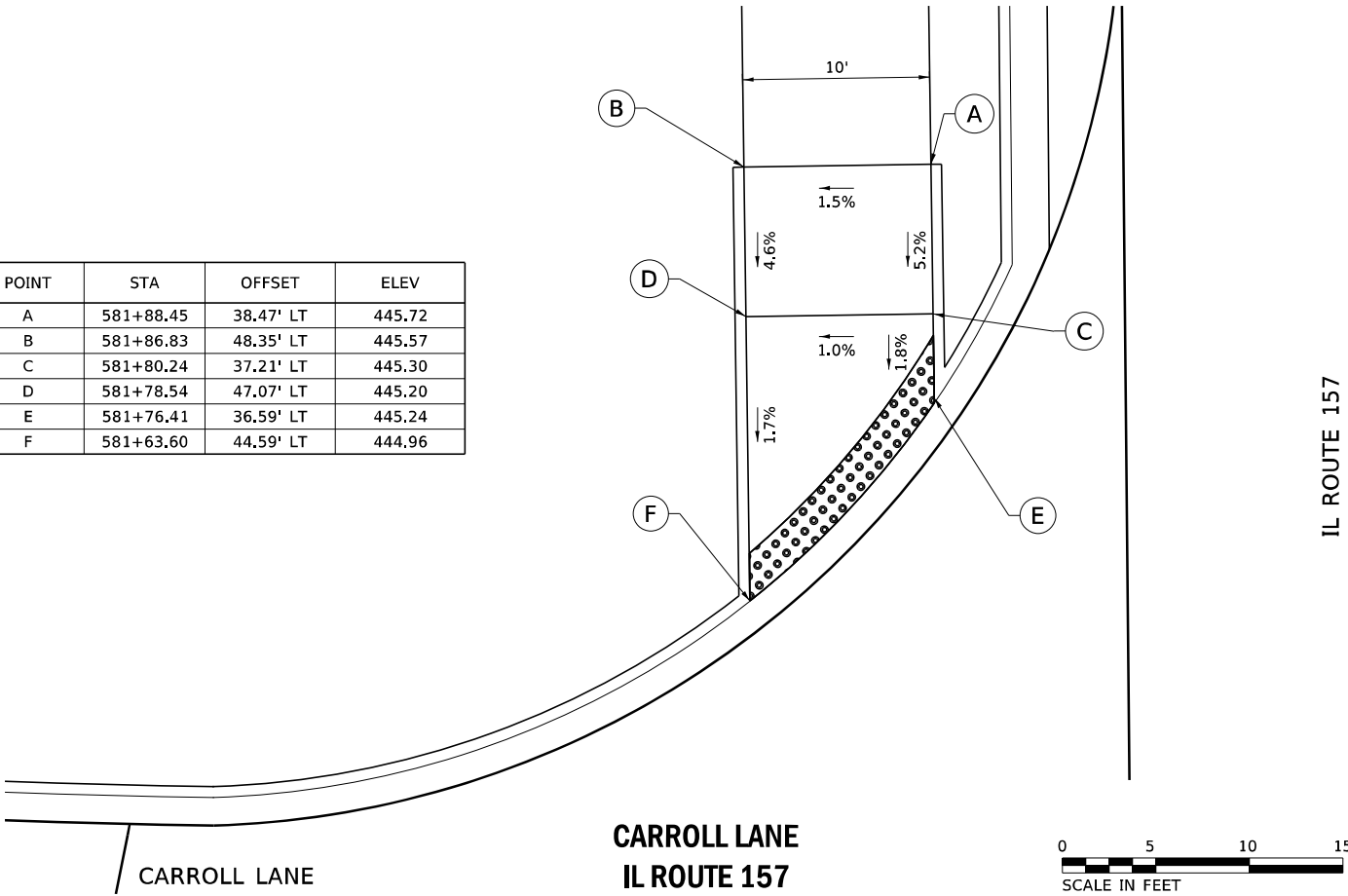
SHEET 3 OF 4 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	114
CONTRACT NO. 76A46				
ILLINOIS FED. AID PROJECT				

*586/592



POINT	STA	OFFSET	ELEV
A	581+88.45	38.47' LT	445.72
B	581+86.83	48.35' LT	445.57
C	581+80.24	37.21' LT	445.30
D	581+78.54	47.07' LT	445.20
E	581+76.41	36.59' LT	445.24
F	581+63.60	44.59' LT	444.96



IL ROUTE 157

CARROLL LANE

CARROLL LANE
IL ROUTE 157



FILE NAME: \\LochLoc\cost\Production\Files\2028\120-00\B\CAD\CA00 Sheets\0876A46-sh1-Curb Ramp Details.dgn



USER NAME	alex.huetskamp
MODEL NAME	RAMP DET 04
PLOT SCALE	40,0000" / in.
PLOT DATE	3/5/2024

DESIGNED	ESW
DRAWN	LEC
CHECKED	BRM
DATE	10/8/2021

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CURB RAMP DETAILS
IL ROUTE 157

SCALE: 1"=20'	SHEET 4 OF 4 SHEETS	RAMP DETAILS 4
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	115
CONTRACT NO. 76A46				
ILLINOIS		FED. AID PROJECT		

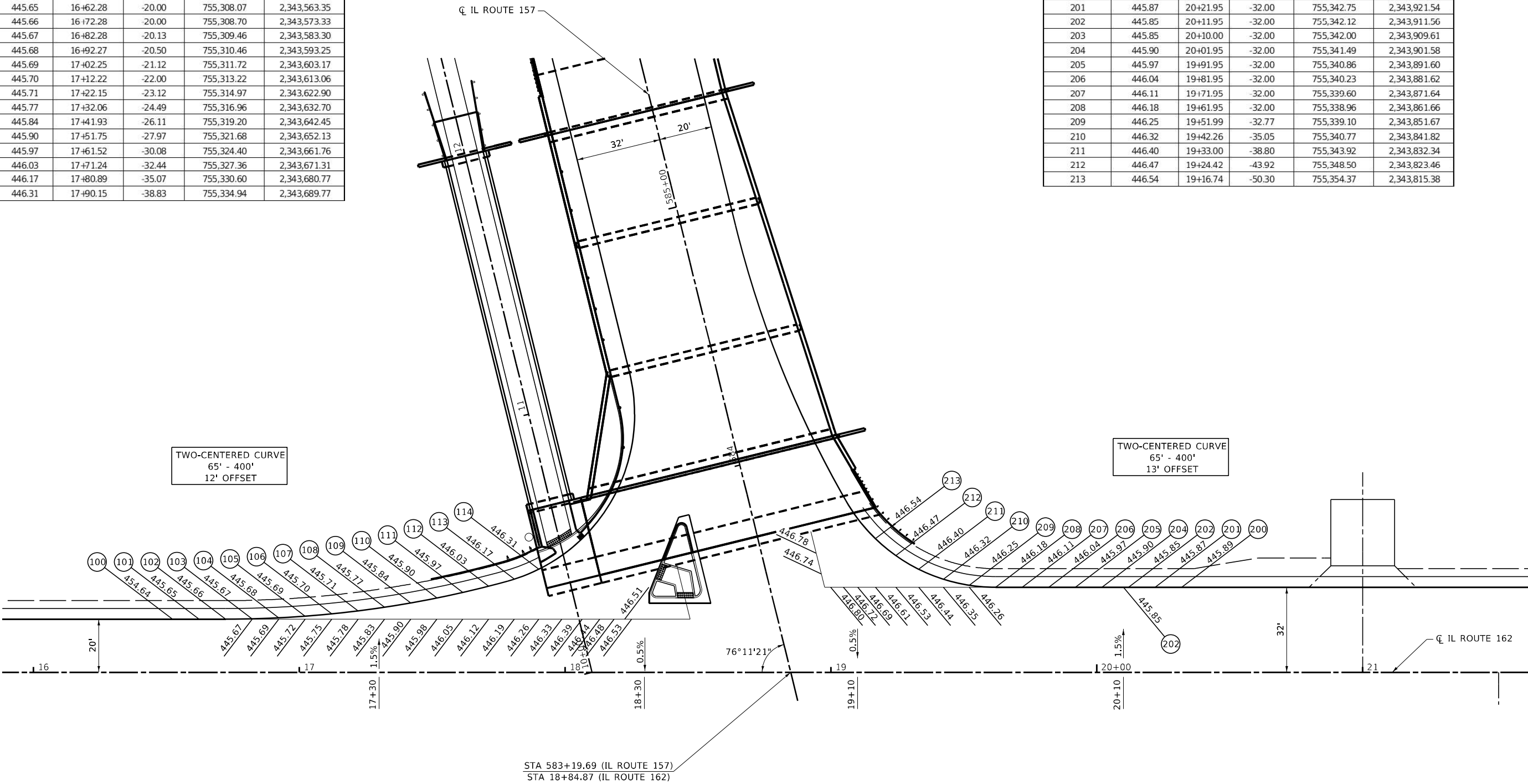


NORTHWEST QUADRANT

POINT	ELEVATION	ROADWAY STATION	ROADWAY OFFSET	NORTHING	EASTING
IL ROUTE 162					
100	454.64	16+52.28	-20.00	755,307.44	2,343,553.37
101	445.65	16+62.28	-20.00	755,308.07	2,343,563.35
102	445.66	16+72.28	-20.00	755,308.70	2,343,573.33
103	445.67	16+82.28	-20.13	755,309.46	2,343,583.30
104	445.68	16+92.27	-20.50	755,310.46	2,343,593.25
105	445.69	17+02.25	-21.12	755,311.72	2,343,603.17
106	445.70	17+12.22	-22.00	755,313.22	2,343,613.06
107	445.71	17+22.15	-23.12	755,314.97	2,343,622.90
108	445.77	17+32.06	-24.49	755,316.96	2,343,632.70
109	445.84	17+41.93	-26.11	755,319.20	2,343,642.45
110	445.90	17+51.75	-27.97	755,321.68	2,343,652.13
111	445.97	17+61.52	-30.08	755,324.40	2,343,661.76
112	446.03	17+71.24	-32.44	755,327.36	2,343,671.31
113	446.17	17+80.89	-35.07	755,330.60	2,343,680.77
114	446.31	17+90.15	-38.83	755,334.94	2,343,689.77

NORTHEAST QUADRANT

POINT	ELEVATION	ROADWAY STATION	ROADWAY OFFSET	NORTHING	EASTING
IL ROUTE 162					
200	445.89	20+31.95	-32.00	755,343.38	2,343,931.52
201	445.87	20+21.95	-32.00	755,342.75	2,343,921.54
202	445.85	20+11.95	-32.00	755,342.12	2,343,911.56
203	445.85	20+10.00	-32.00	755,342.00	2,343,909.61
204	445.90	20+01.95	-32.00	755,341.49	2,343,901.58
205	445.97	19+91.95	-32.00	755,340.86	2,343,891.60
206	446.04	19+81.95	-32.00	755,340.23	2,343,881.62
207	446.11	19+71.95	-32.00	755,339.60	2,343,871.64
208	446.18	19+61.95	-32.00	755,338.96	2,343,861.66
209	446.25	19+51.99	-32.77	755,339.10	2,343,851.67
210	446.32	19+42.26	-35.05	755,340.77	2,343,841.82
211	446.40	19+33.00	-38.80	755,343.92	2,343,832.34
212	446.47	19+24.42	-43.92	755,348.50	2,343,823.46
213	446.54	19+16.74	-50.30	755,354.37	2,343,815.38



FILE NAME: \\loech\loc\cost\Production\Files\2020\120-00\B\CAD\CADD Sheets\0876A46-shr-Pavt-Warp Eleva.dgn



USER NAME	• alex.huelskamp	DESIGNED	- ESW	REVISED	-
MODEL NAME	• WARP 01	DRAWN	- LEC	REVISED	-
PLOT SCALE	• 40,00000' / in.	CHECKED	- BRM	REVISED	-
PLOT DATE	• 3/5/2024	DATE	- 10/8/2021	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

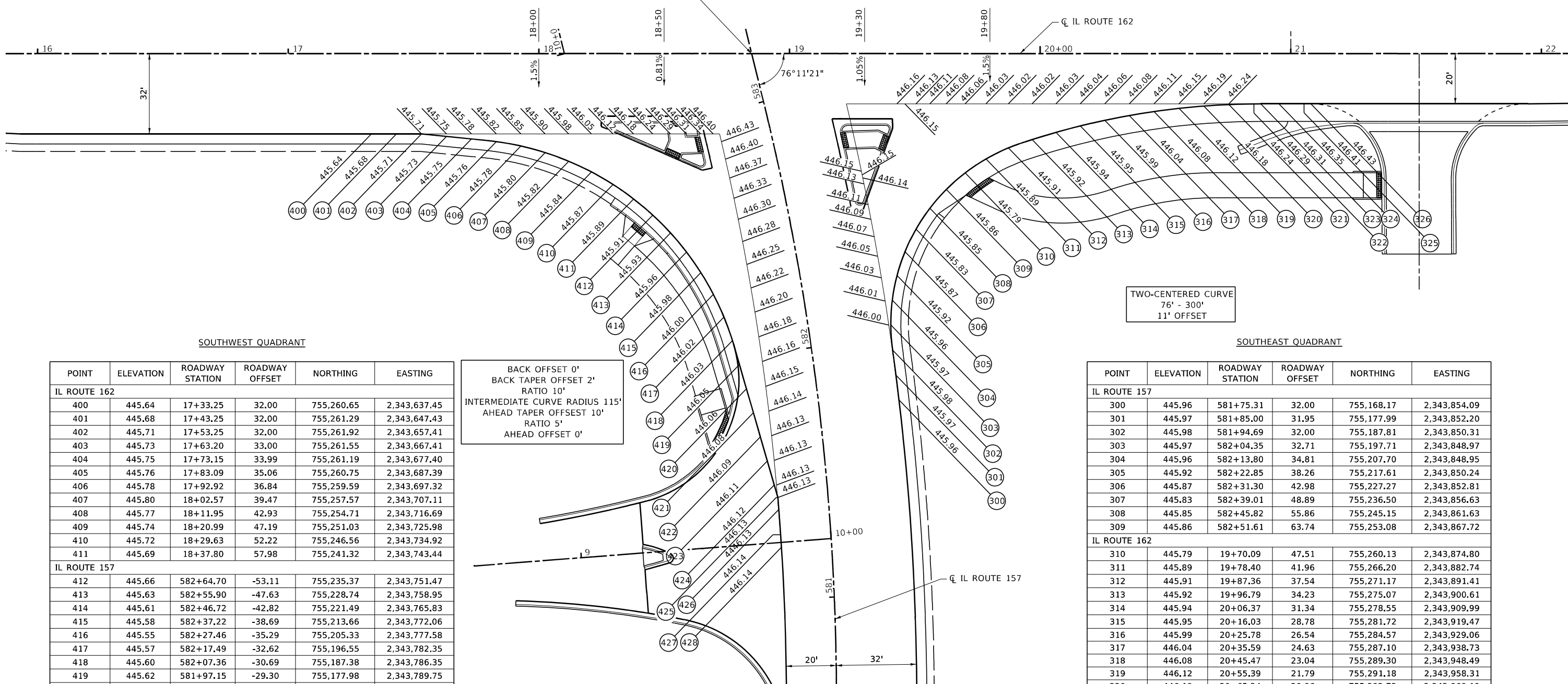
PAVEMENT ELEVATION DETAILS IL ROUTE 157 AND IL ROUTE 162			
SCALE: 1"=20'	SHEET 1 OF 5 SHEETS	WARP 157/162	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	116
CONTRACT NO. 76A46				
ILLINOIS				FED. AID PROJECT

*586/592



STA 583+19.69 (IL ROUTE 157)
STA 18+84.87 (IL ROUTE 162)



SOUTHWEST QUADRANT

SOUTHEAST QUADRANT

POINT	ELEVATION	ROADWAY STATION	ROADWAY OFFSET	NORTHING	EASTING
IL ROUTE 162					
400	445.64	17+33.25	32.00	755,260.65	2,343,637.45
401	445.68	17+43.25	32.00	755,261.29	2,343,647.43
402	445.71	17+53.25	32.00	755,261.92	2,343,657.41
403	445.73	17+63.20	33.00	755,261.55	2,343,667.41
404	445.75	17+73.15	33.99	755,261.19	2,343,677.40
405	445.76	17+83.09	35.06	755,260.75	2,343,687.39
406	445.78	17+92.92	36.84	755,259.59	2,343,697.32
407	445.80	18+02.57	39.47	755,257.57	2,343,707.11
408	445.77	18+11.95	42.93	755,254.71	2,343,716.69
409	445.74	18+20.99	47.19	755,251.03	2,343,725.98
410	445.72	18+29.63	52.22	755,246.56	2,343,734.92
411	445.69	18+37.80	57.98	755,241.32	2,343,743.44
IL ROUTE 157					
412	445.66	582+64.70	-53.11	755,235.37	2,343,751.47
413	445.63	582+55.90	-47.63	755,228.74	2,343,758.95
414	445.61	582+46.72	-42.82	755,221.49	2,343,765.83
415	445.58	582+37.22	-38.69	755,213.66	2,343,772.06
416	445.55	582+27.46	-35.29	755,205.33	2,343,777.58
417	445.57	582+17.49	-32.62	755,196.55	2,343,782.35
418	445.60	582+07.36	-30.69	755,187.38	2,343,786.35
419	445.62	581+97.15	-29.30	755,177.98	2,343,789.75
420	445.64	581+86.97	-27.84	755,168.57	2,343,793.12
421	445.75	581+76.82	-26.28	755,159.15	2,343,796.50
422	445.86	581+66.70	-24.61	755,149.74	2,343,799.87
423	445.97	581+56.62	-22.85	755,140.32	2,343,803.24
424	446.07	581+46.57	-20.99	755,130.91	2,343,806.61
425	446.13	581+41.46	-20.00	755,126.11	2,343,808.33
426	446.13	581+36.46	-20.00	755,121.26	2,343,809.04
427	446.14	581+26.26	-20.00	755,111.35	2,343,810.40
428	446.14	581+21.05	-20.00	755,106.29	2,343,811.05

POINT	ELEVATION	ROADWAY STATION	ROADWAY OFFSET	NORTHING	EASTING
IL ROUTE 157					
300	445.96	581+75.31	32.00	755,168.17	2,343,854.09
301	445.97	581+85.00	31.95	755,177.99	2,343,852.20
302	445.98	581+94.69	32.00	755,187.81	2,343,850.31
303	445.97	582+04.35	32.71	755,197.71	2,343,848.97
304	445.96	582+13.80	34.81	755,207.70	2,343,848.95
305	445.92	582+22.85	38.26	755,217.61	2,343,850.24
306	445.87	582+31.30	42.98	755,227.27	2,343,852.81
307	445.83	582+39.01	48.89	755,236.50	2,343,856.63
308	445.85	582+45.82	55.86	755,245.15	2,343,861.63
309	445.86	582+51.61	63.74	755,253.08	2,343,867.72
IL ROUTE 162					
310	445.79	19+70.09	47.51	755,260.13	2,343,874.80
311	445.89	19+78.40	41.96	755,266.20	2,343,882.74
312	445.91	19+87.36	37.54	755,271.17	2,343,891.41
313	445.92	19+96.79	34.23	755,275.07	2,343,900.61
314	445.94	20+06.37	31.34	755,278.55	2,343,909.99
315	445.95	20+16.03	28.78	755,281.72	2,343,919.47
316	445.99	20+25.78	26.54	755,284.57	2,343,929.06
317	446.04	20+35.59	24.63	755,287.10	2,343,938.73
318	446.08	20+45.47	23.04	755,289.30	2,343,948.49
319	446.12	20+55.39	21.79	755,291.18	2,343,958.31
320	446.18	20+65.34	20.86	755,292.73	2,343,968.19
321	446.24	20+75.33	20.27	755,293.95	2,343,978.11
322	446.29	20+85.32	20.01	755,294.84	2,343,988.07
323	446.31	20+88.08	20.00	755,295.03	2,343,990.82
324	446.35	20+95.32	20.00	755,295.49	2,343,998.05
325	446.41	21+05.32	20.00	755,296.12	2,344,008.03
326	446.43	21+08.08	20.00	755,296.29	2,344,010.78



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USER NAME	alex.huelskamp	DESIGNED	ESW	REVISED	-
MODEL NAME	WARP 02	DRAWN	LEC	REVISED	-
PLOT SCALE	40,0000" / in.	CHECKED	BRM	REVISED	-
PLOT DATE	3/5/2024	DATE	10/8/2021	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT ELEVATION DETAILS		
IL ROUTE 157 AND IL ROUTE 162		
SCALE: 1"=20'	SHEET 2 OF 5 SHEETS	WARP 157/162

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	117
CONTRACT NO. 76A46				
ILLINOIS FED. AID PROJECT				

*586/592

FILE NAME: \\loach-loc\cscat\Production\Files\2020\120-00\B\CAD\CADD Sheets\0876A46-shr-Pavt-Warp Eleva.dgn



USER NAME	• alex.huelskamp
MODEL NAME	• WARP 03
PLOT SCALE	• 40,00000 ' / in.
PLOT DATE	• 3/5/2024

DESIGNED	- ESW
DRAWN	- LEC
CHECKED	- BRM
DATE	- 10/8/2021

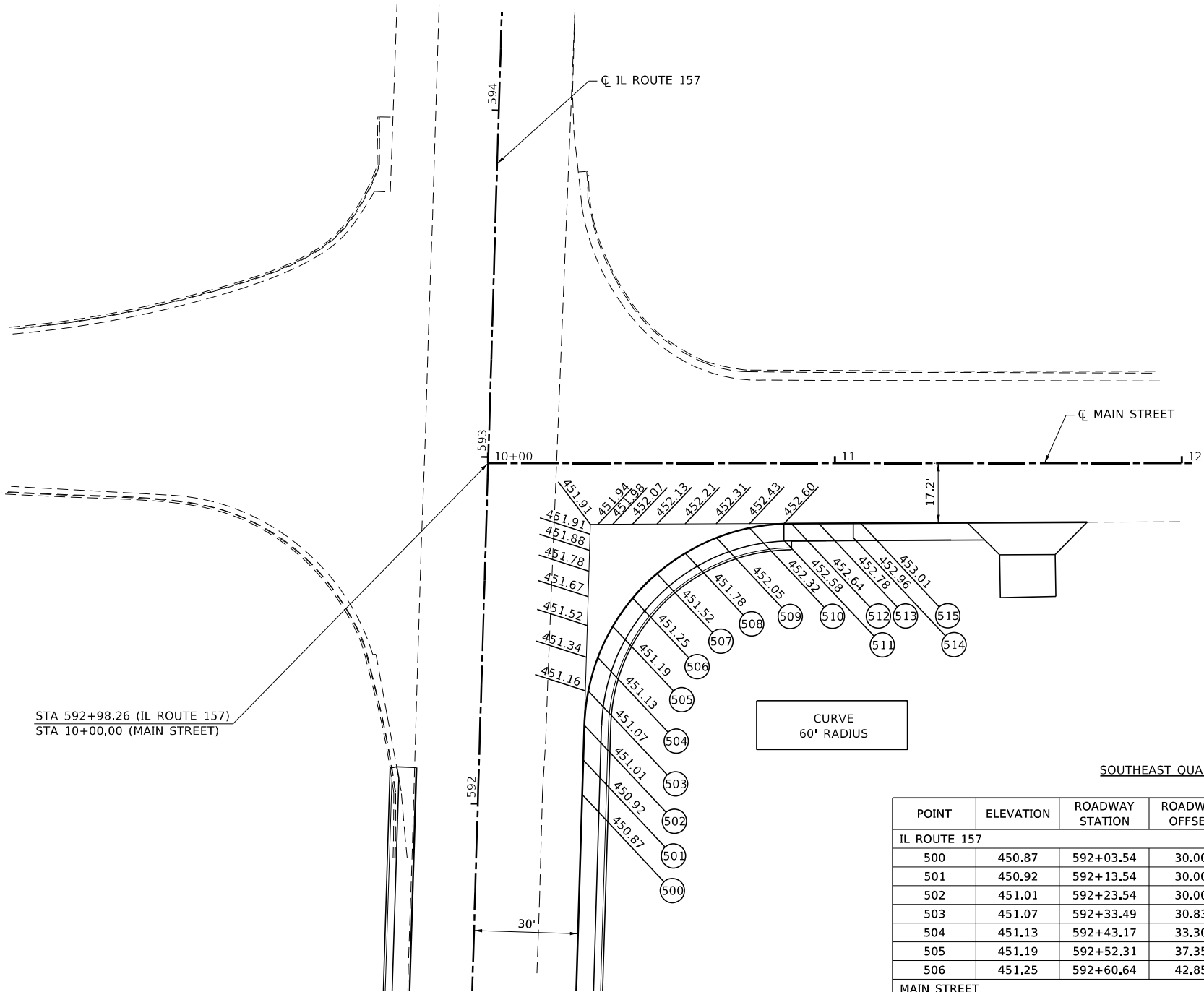
REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT ELEVATION DETAILS IL ROUTE 157 AND MAIN STREET			
SCALE: 1"=20'	SHEET 3 OF 5 SHEETS	WARP 157/MAIN	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	118
		CONTRACT NO. 76A46		
		ILLINOIS	FED. AID PROJECT	

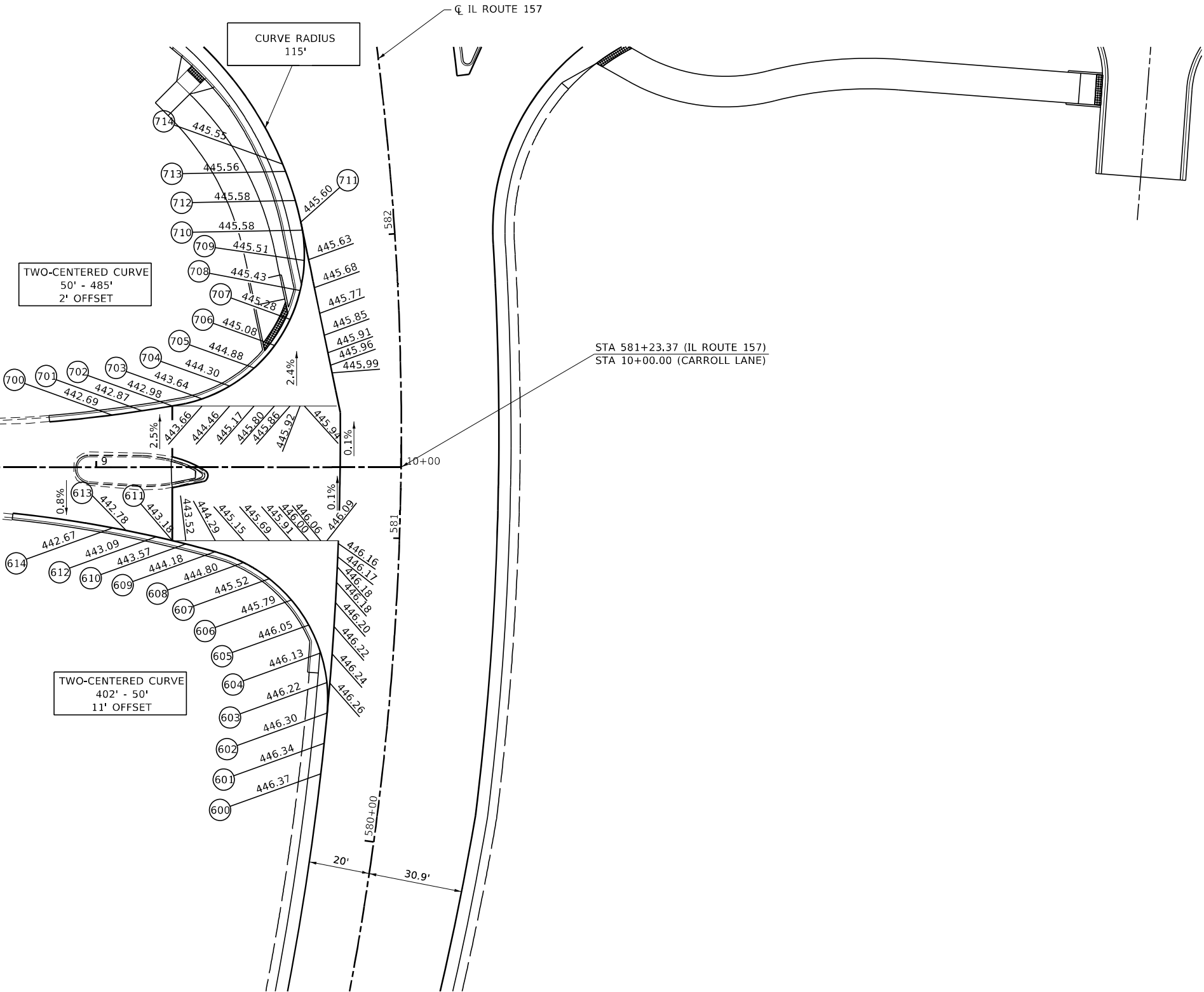
*586/592





NORTHWEST QUADRANT

POINT	ELEVATION	ROADWAY STATION	ROADWAY OFFSET	NORTHING	EASTING
CARROLL LANE					
700	442.69	9+05.23	-17.09	755,114.83	2,343,734.37
701	442.87	9+15.13	-18.49	755,117.59	2,343,743.98
702	442.98	9+25.00	-20.09	755,120.55	2,343,753.53
703	443.64	9+34.71	-22.39	755,124.19	2,343,762.83
704	444.30	9+43.77	-26.60	755,129.62	2,343,771.21
705	444.88	9+51.80	-32.52	755,136.60	2,343,778.34
IL ROUTE 157					
706	445.08	581+64.53	-41.13	755,144.86	2,343,783.95
707	445.28	581+73.27	-35.74	755,154.07	2,343,787.80
708	445.43	581+82.87	-32.05	755,163.86	2,343,789.74
709	445.51	581+92.99	-30.17	755,173.85	2,343,789.70
710	445.58	582+03.28	-30.18	755,183.62	2,343,787.68
711	445.60	582+05.94	-30.49	755,186.08	2,343,786.84
712	445.58	582+13.47	-31.76	755,192.93	2,343,784.04
713	445.56	582+23.51	-34.13	755,201.88	2,343,779.57
714	445.55	582+26.09	-34.87	755,204.13	2,343,778.29



SOUTHWEST QUADRANT

POINT	ELEVATION	ROADWAY STATION	ROADWAY OFFSET	NORTHING	EASTING
IL ROUTE 157					
600	446.37	580+20.23	-20.00	755,007.81	2,343,818.53
601	446.34	580+30.44	-20.00	755,017.81	2,343,818.22
602	446.30	580+40.64	-20.00	755,027.80	2,343,817.82
603	446.22	580+50.79	-20.95	755,037.68	2,343,816.37
604	446.13	580+60.59	-23.75	755,047.07	2,343,812.98
605	446.05	580+69.70	-28.32	755,055.60	2,343,807.80
606	445.79	580+77.80	-34.50	755,062.94	2,343,801.03
607	445.52	580+84.57	-42.06	755,068.78	2,343,792.93
CARROLL LANE					
608	444.80	9+48.37	31.33	755,072.90	2,343,783.84
609	444.18	9+39.05	27.77	755,075.12	2,343,774.10
610	443.57	9+29.38	25.20	755,076.32	2,343,764.18
611	443.29	9+25.00	24.12	755,076.78	2,343,759.69
612	443.09	9+19.65	22.87	755,077.27	2,343,754.22
613	442.78	9+09.87	20.79	755,077.97	2,343,744.25
614	442.67	9+05.44	19.93	755,078.20	2,343,739.74



FILE NAME: \\loech-joe\cscat\Production\Files\2020\420-0018-CAD\Sheet\0876A46-sh1-Pavt-Warp Elevation.dgn



USER NAME	JoeKovarik	DESIGNED	ESW	REVISED	-
MODEL NAME	WARP 04	DRAWN	LEC	REVISED	-
PLOT SCALE	40,0000" / in.	CHECKED	BRM	REVISED	-
PLOT DATE	3/6/2024	DATE	10/8/2021	REVISED	-

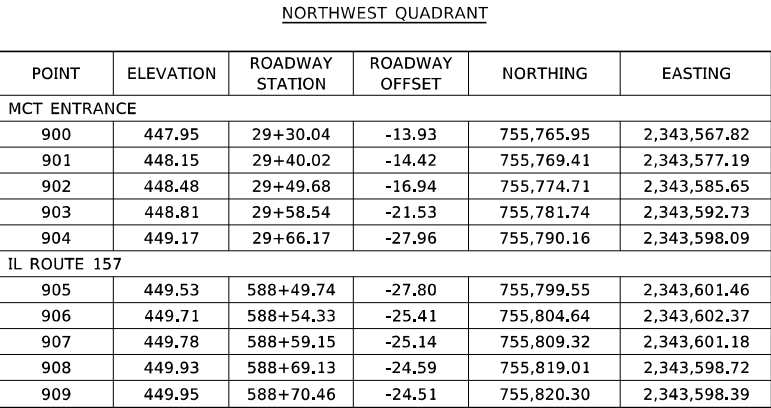
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT ELEVATION DETAILS
IL ROUTE 157 AND CARROLL LANE

SCALE: 1"=20' SHEET 4 OF 5 SHEETS WARP CARROLL

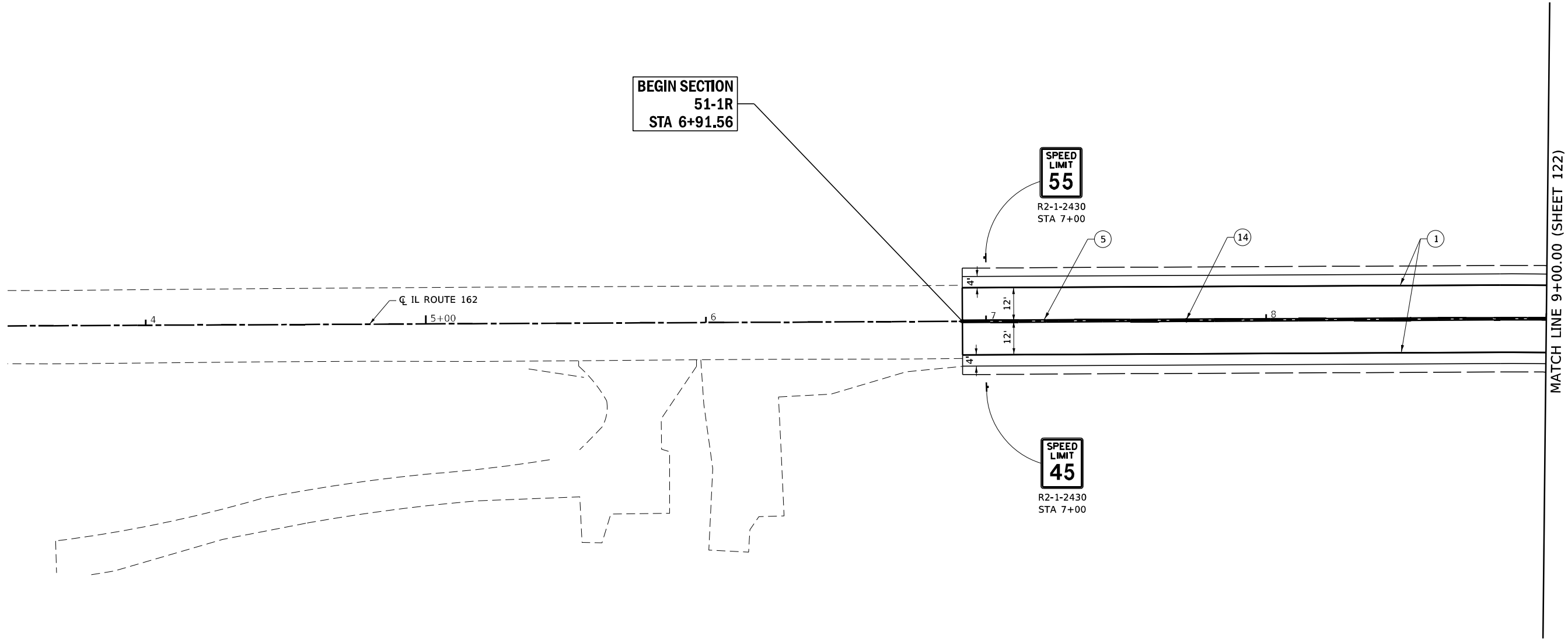
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	119
CONTRACT NO. 76A46				
ILLINOIS FED. AID PROJECT				

*586/592



*586/592

FILE NAME: \\Loch\Loc\croat\Production\Files\2020\120-00\B\CAD\CADD Sheets\0876A46-shr-Pavement Marking.dgn



LEGEND

- | | | |
|---|--|---|
| 1 PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 6", SOLID WHITE | 12 PROPOSED ONE-WAY AMBER RAISED REFLECTIVE PAVEMENT MARKERS, 40' CENTERS | 23 PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 12", SOLID YELLOW |
| 2 PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 6", SKIP-DASH, 2'-6' SPACING | 13 PROPOSED TWO-WAY AMBER RAISED REFLECTIVE PAVEMENT MARKERS, 40' CENTERS | 24 PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 24", SOLID WHITE |
| 3 PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 6", SOLID YELLOW | 14 PROPOSED TWO-WAY AMBER RAISED REFLECTIVE PAVEMENT MARKERS, 80' CENTERS | 25 PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - LETTERS AND SYMBOLS |
| 4 PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 6", SKIP-DASH YELLOW, 3'-9' SPACING | 15 PROPOSED CURB REFLECTORS, 10' CENTERS (3 PER SIDE MIN.) | 26 PROPOSED WALL REFLECTORS, TYPE B |
| 5 PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 6", DOUBLE YELLOW | 16 PROPOSED CURB REFLECTORS, 2' CENTERS | 27 PROPOSED WALL REFLECTORS, TYPE C |
| 6 PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 8", SOLID WHITE | 17 PROPOSED PAINT PAVEMENT MARKING CURB, WHITE | |
| 7 PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 12", SOLID WHITE | 18 PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 6", SOLID WHITE | |
| 8 PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 12", SOLID YELLOW | 19 PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 6", SKIP-DASH, 2'-6' SPACING | |
| 9 PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 24", SOLID WHITE | 20 PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 4", DOUBLE YELLOW | |
| 10 PROPOSED THERMOPLASTIC PAVEMENT LETTERS AND SYMBOLS | 21 PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 8", SOLID WHITE | |
| 11 PROPOSED ONE-WAY CRYSTAL RAISED REFLECTIVE PAVEMENT MARKERS, 40' CENTERS | 22 PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD -12", SOLID WHITE | |



USER NAME	Jordan Pettibone
MODEL NAME	MKG PLAN 01
PLOT SCALE	40,0000" / in.
PLOT DATE	3/6/2024

DESIGNED	ESW
DRAWN	LEC
CHECKED	BRM
DATE	10/8/2021

REVISED	
REVISED	
REVISED	
REVISED	

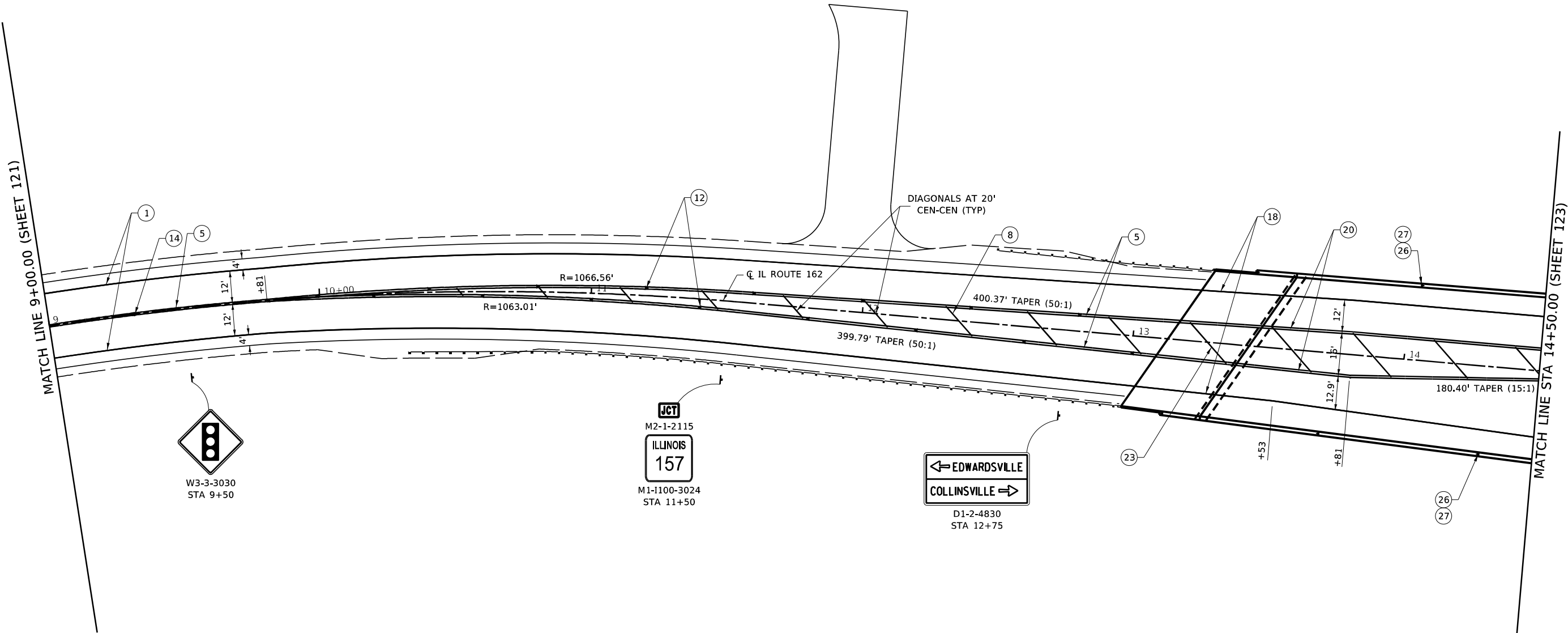
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING PLANS IL ROUTE 162

SCALE: 1"=20' SHEET 1 OF 9 SHEETS STA 4+00.00 TO STA 9+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	121
CONTRACT NO. 76A46				
ILLINOIS FED. AID PROJECT				

*586/592



LEGEND

- | | | | | | |
|----|---|----|---|----|--|
| 1 | PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 6", SOLID WHITE | 12 | PROPOSED ONE-WAY AMBER RAISED REFLECTIVE PAVEMENT MARKERS, 40' CENTERS | 23 | PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 12", SOLID YELLOW |
| 2 | PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 6", SKIP-DASH, 2'-6" SPACING | 13 | PROPOSED TWO-WAY AMBER RAISED REFLECTIVE PAVEMENT MARKERS, 40' CENTERS | 24 | PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 24", SOLID WHITE |
| 3 | PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 6", SOLID YELLOW | 14 | PROPOSED TWO-WAY AMBER RAISED REFLECTIVE PAVEMENT MARKERS, 80' CENTERS | 25 | PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - LETTERS AND SYMBOLS |
| 4 | PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 6", SKIP-DASH YELLOW, 3'-9" SPACING | 15 | PROPOSED CURB REFLECTORS, 10' CENTERS (3 PER SIDE MIN.) | 26 | PROPOSED WALL REFLECTORS, TYPE B |
| 5 | PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 6", DOUBLE YELLOW | 16 | PROPOSED CURB REFLECTORS, 2' CENTERS | 27 | PROPOSED WALL REFLECTORS, TYPE C |
| 6 | PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 8", SOLID WHITE | 17 | PROPOSED PAINT PAVEMENT MARKING CURB, WHITE | | |
| 7 | PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 12", SOLID WHITE | 18 | PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 6", SOLID WHITE | | |
| 8 | PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 12", SOLID YELLOW | 19 | PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 6", SKIP-DASH, 2'-6" SPACING | | |
| 9 | PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 24", SOLID WHITE | 20 | PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 4", DOUBLE YELLOW | | |
| 10 | PROPOSED THERMOPLASTIC PAVEMENT LETTERS AND SYMBOLS | 21 | PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 8", SOLID WHITE | | |
| 11 | PROPOSED ONE-WAY CRYSTAL RAISED REFLECTIVE PAVEMENT MARKERS, 40' CENTERS | 22 | PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD -12", SOLID WHITE | | |



USER NAME : Jordan.Pettibone
MODEL NAME : MKG PLAN 02
PLOT SCALE : 40,0000" / in.
PLOT DATE : 3/6/2024

DESIGNED - ESW
DRAWN - LEC
CHECKED - BRM
DATE - 10/8/2021

REVISED -
REVISED -
REVISED -
REVISED -

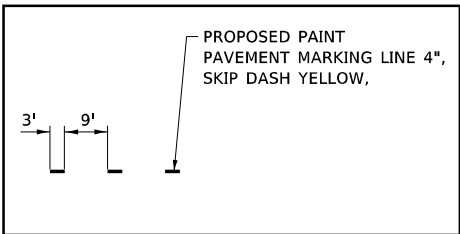
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING PLANS
IL ROUTE 162

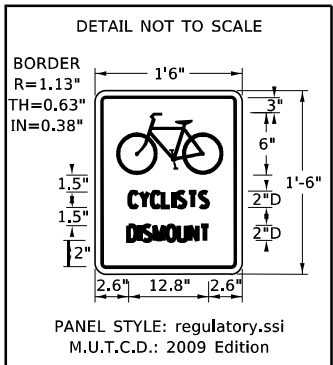
SCALE: 1"=20' SHEET 2 OF 9 SHEETS STA 9+00.00 TO STA 14+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	122
CONTRACT NO. 76A46				
ILLINOIS FED. AID PROJECT				

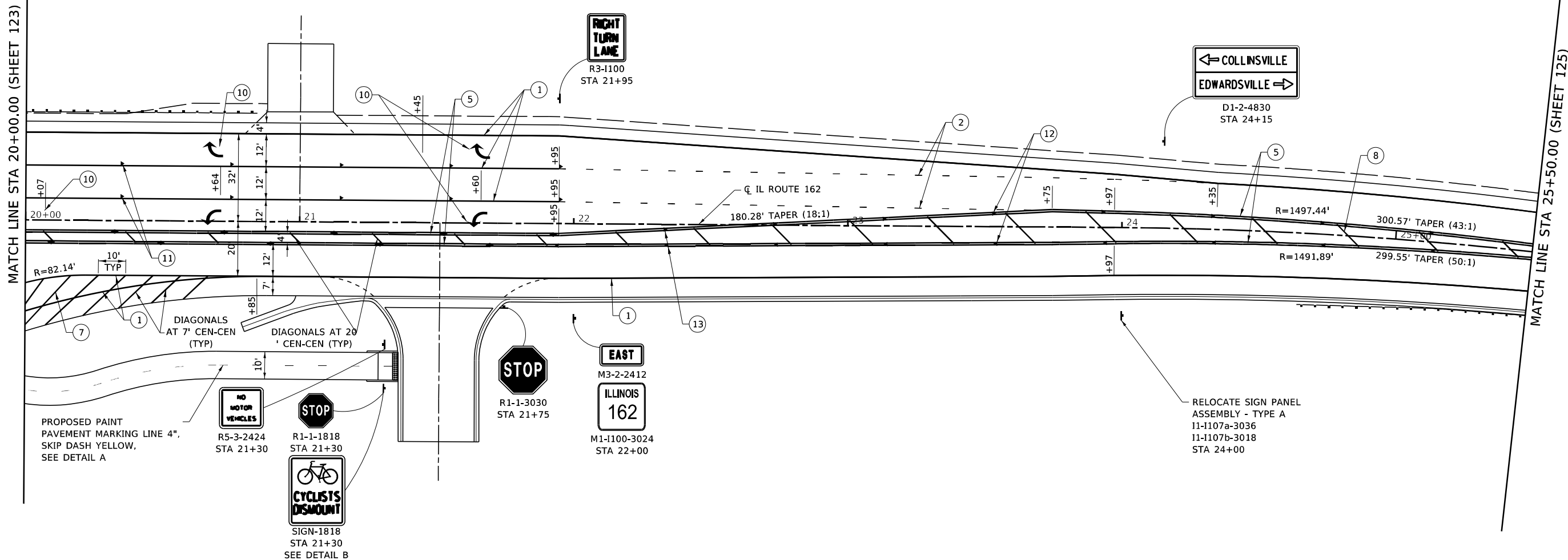
*586/592



DETAIL A



DETAIL B

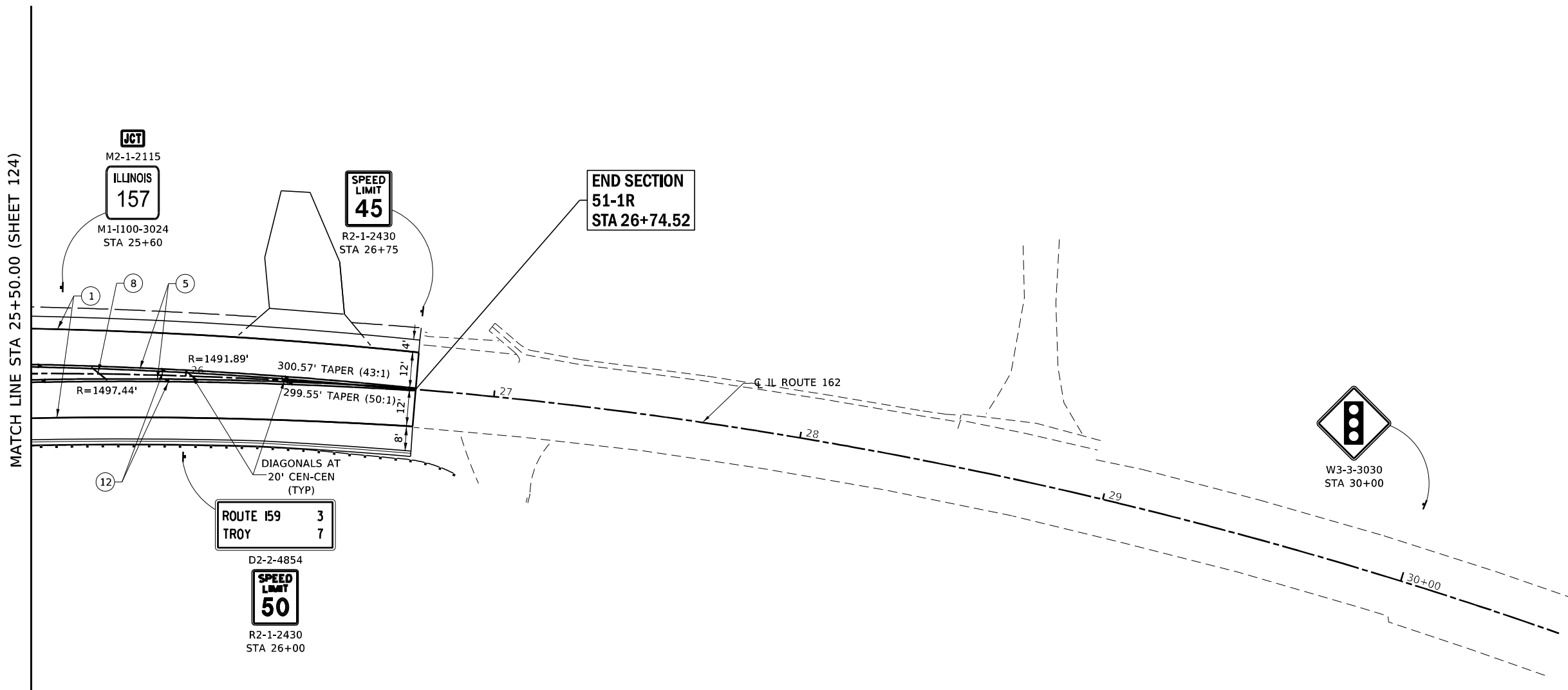


LEGEND

- | | | |
|---|--|---|
| 1 PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 6", SOLID WHITE | 12 PROPOSED ONE-WAY AMBER RAISED REFLECTIVE PAVEMENT MARKERS, 40' CENTERS | 23 PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 12", SOLID YELLOW |
| 2 PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 6", SKIP-DASH, 2'-6" SPACING | 13 PROPOSED TWO-WAY AMBER RAISED REFLECTIVE PAVEMENT MARKERS, 40' CENTERS | 24 PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 24", SOLID WHITE |
| 3 PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 6", SOLID YELLOW | 14 PROPOSED TWO-WAY AMBER RAISED REFLECTIVE PAVEMENT MARKERS, 80' CENTERS | 25 PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - LETTERS AND SYMBOLS |
| 4 PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 6", SKIP-DASH YELLOW, 3'-9" SPACING | 15 PROPOSED CURB REFLECTORS, 10' CENTERS (3 PER SIDE MIN.) | 26 PROPOSED WALL REFLECTORS, TYPE B |
| 5 PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 6", DOUBLE YELLOW | 16 PROPOSED CURB REFLECTORS, 2' CENTERS | 27 PROPOSED WALL REFLECTORS, TYPE C |
| 6 PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 8", SOLID WHITE | 17 PROPOSED PAINT PAVEMENT MARKING CURB, WHITE | |
| 7 PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 12", SOLID WHITE | 18 PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 6", SOLID WHITE | |
| 8 PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 12", SOLID YELLOW | 19 PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 6", SKIP-DASH, 2'-6" SPACING | |
| 9 PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 24", SOLID WHITE | 20 PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 4", DOUBLE YELLOW | |
| 10 PROPOSED THERMOPLASTIC PAVEMENT LETTERS AND SYMBOLS | 21 PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 8", SOLID WHITE | |
| 11 PROPOSED ONE-WAY CRYSTAL RAISED REFLECTIVE PAVEMENT MARKERS, 40' CENTERS | 22 PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 12", SOLID WHITE | |



	USER NAME - Jordan.Pettibone	DESIGNED - ESW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING AND SIGNING PLANS IL ROUTE 162			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	MODEL NAME - MKG PLAN 04	DRAWN - LEC	REVISED -					*	51-1R	MADISON	296	124
	PLOT SCALE - 40,0000" / in.	CHECKED - BRM	REVISED -		SCALE: 1"=20'			CONTRACT NO. 76A46				
	PLOT DATE - 3/6/2024	DATE - 10/8/2021	REVISED -		SHEET 4 OF 9 SHEETS	STA 20+00.00 TO STA 25+50.00		ILLINOIS FED. AID PROJECT				



LEGEND

- | | | |
|---|---|--|
| ① PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 6", SOLID WHITE | ⑫ PROPOSED ONE-WAY AMBER RAISED REFLECTIVE PAVEMENT MARKERS, 40' CENTERS | ⑳ PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 12", SOLID YELLOW |
| ② PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 6", SKIP-DASH, 2'-6" SPACING | ⑬ PROPOSED TWO-WAY AMBER RAISED REFLECTIVE PAVEMENT MARKERS, 40' CENTERS | ㉑ PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 24", SOLID WHITE |
| ③ PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 6", SOLID YELLOW | ⑭ PROPOSED TWO-WAY AMBER RAISED REFLECTIVE PAVEMENT MARKERS, 80' CENTERS | ㉒ PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - LETTERS AND SYMBOLS |
| ④ PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 6", SKIP-DASH YELLOW, 3'-9" SPACING | ⑮ PROPOSED CURB REFLECTORS, 10' CENTERS (3 PER SIDE MIN.) | ㉓ PROPOSED WALL REFLECTORS, TYPE B |
| ⑤ PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 6", DOUBLE YELLOW | ⑯ PROPOSED CURB REFLECTORS, 2' CENTERS | ㉔ PROPOSED WALL REFLECTORS, TYPE C |
| ⑥ PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 8", SOLID WHITE | ⑰ PROPOSED PAINT PAVEMENT MARKING CURB, WHITE | |
| ⑦ PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 12", SOLID WHITE | ⑱ PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 6", SOLID WHITE | |
| ⑧ PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 12", SOLID YELLOW | ㉒ PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 6", SKIP-DASH, 2'-6" SPACING | |
| ⑨ PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 24", SOLID WHITE | ㉓ PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 4", DOUBLE YELLOW | |
| ⑩ PROPOSED THERMOPLASTIC PAVEMENT LETTERS AND SYMBOLS | ㉔ PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 8", SOLID WHITE | |
| ⑪ PROPOSED ONE-WAY CRYSTAL RAISED REFLECTIVE PAVEMENT MARKERS, 40' CENTERS | ㉕ PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 12", SOLID WHITE | |



USER NAME * Jordan.Pettibone
MODEL NAME * MKG PLAN 05
PLOT SCALE * 40,0000" / in.
PLOT DATE * 3/6/2024

DESIGNED - ESW
DRAWN - LEC
CHECKED - BRM
DATE - 10/8/2021

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING PLANS IL ROUTE 162

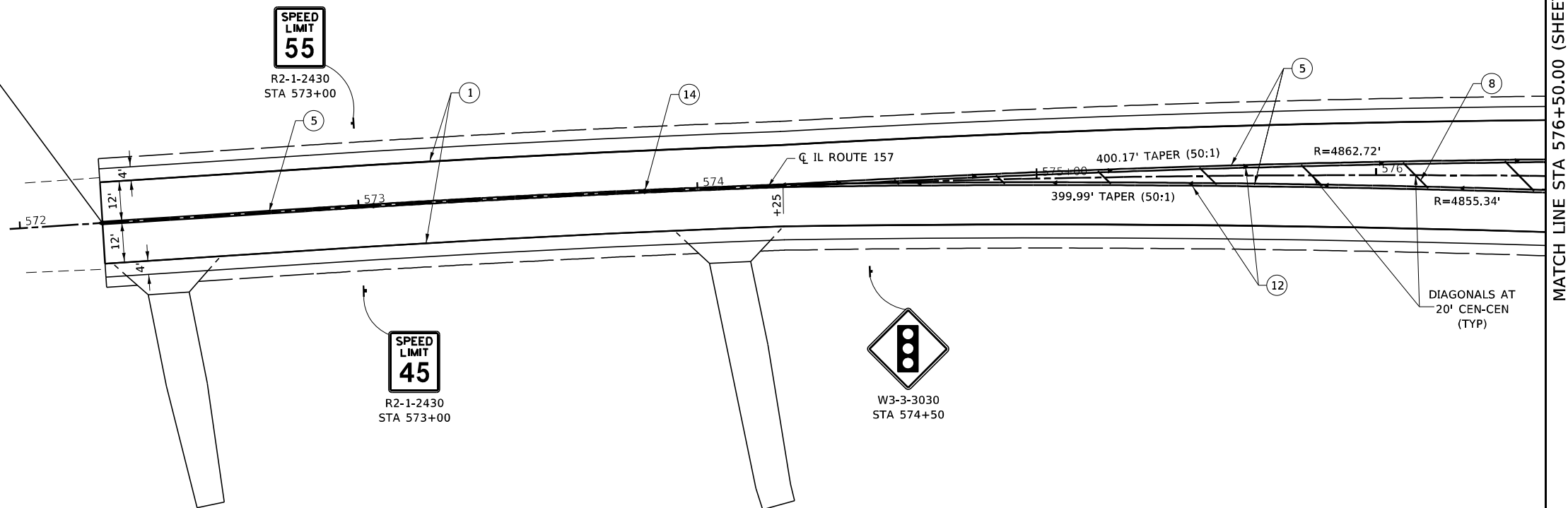
SCALE: 1"=20' SHEET 5 OF 9 SHEETS STA 25+50.00 TO STA 30+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	125
CONTRACT NO. 76A46				

*586/592



BEGIN SECTION
51-1R
STA 572+24.35



LEGEND

- | | | |
|---|--|---|
| 1 PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 6", SOLID WHITE | 12 PROPOSED ONE-WAY AMBER RAISED REFLECTIVE PAVEMENT MARKERS, 40' CENTERS | 23 PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 12", SOLID YELLOW |
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| 9 PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 24", SOLID WHITE | 20 PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 4", DOUBLE YELLOW | |
| 10 PROPOSED THERMOPLASTIC PAVEMENT LETTERS AND SYMBOLS | 21 PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 8", SOLID WHITE | |
| 11 PROPOSED ONE-WAY CRYSTAL RAISED REFLECTIVE PAVEMENT MARKERS, 40' CENTERS | 22 PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 12", SOLID WHITE | |



USER NAME	Jordan Pettibone	DESIGNED	ESW
MODEL NAME	MKG PLAN 06	DRAWN	LEC
PLOT SCALE	40,0000" / in.	CHECKED	BRM
PLOT DATE	3/6/2024	DATE	10/8/2021

REVISED	-
REVISED	-
REVISED	-
REVISED	-

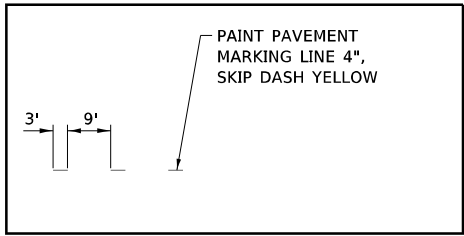
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING PLANS IL ROUTE 157

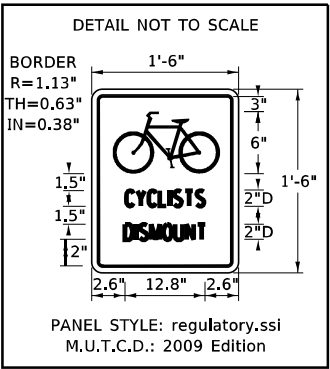
SCALE: 1"=20' SHEET 6 OF 9 SHEETS STA 572+00.00 TO STA 576+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	126
CONTRACT NO. 76A46				
ILLINOIS FED. AID PROJECT				

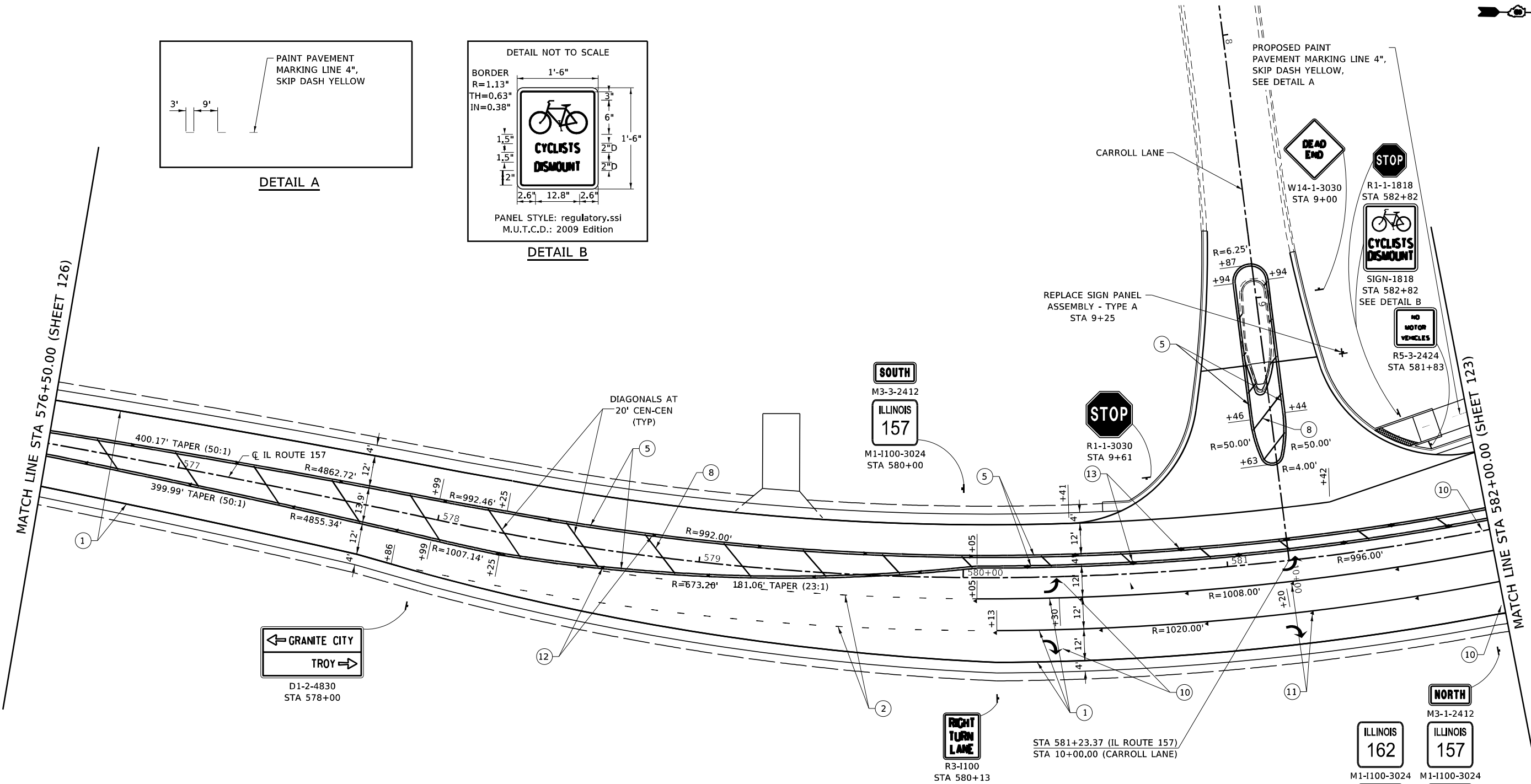
*586/592



DETAIL A

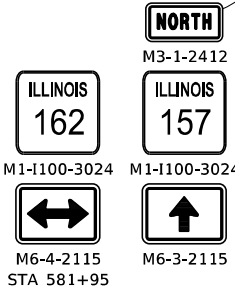


DETAIL B



LEGEND

- | | | |
|---|--|---|
| 1 PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 6", SOLID WHITE | 12 PROPOSED ONE-WAY AMBER RAISED REFLECTIVE PAVEMENT MARKERS, 40' CENTERS | 23 PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 12", SOLID YELLOW |
| 2 PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 6", SKIP-DASH, 2'-6" SPACING | 13 PROPOSED TWO-WAY AMBER RAISED REFLECTIVE PAVEMENT MARKERS, 40' CENTERS | 24 PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 24", SOLID WHITE |
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| 5 PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 6", DOUBLE YELLOW | 16 PROPOSED CURB REFLECTORS, 2' CENTERS | 27 PROPOSED WALL REFLECTORS, TYPE C |
| 6 PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 8", SOLID WHITE | 17 PROPOSED PAINT PAVEMENT MARKING CURB, WHITE | |
| 7 PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 12", SOLID WHITE | 18 PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 6", SOLID WHITE | |
| 8 PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 12", SOLID YELLOW | 19 PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 6", SKIP-DASH, 2'-6" SPACING | |
| 9 PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 24", SOLID WHITE | 20 PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 4", DOUBLE YELLOW | |
| 10 PROPOSED THERMOPLASTIC PAVEMENT LETTERS AND SYMBOLS | 21 PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 8", SOLID WHITE | |
| 11 PROPOSED ONE-WAY CRYSTAL RAISED REFLECTIVE PAVEMENT MARKERS, 40' CENTERS | 22 PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 12", SOLID WHITE | |



USER NAME	Jordan Pettibone	DESIGNED	ESW	REVISED	-
MODEL NAME	MKG PLAN 07	DRAWN	LEC	REVISED	-
PLOT SCALE	40,00000" / in.	CHECKED	BRM	REVISED	-
PLOT DATE	3/6/2024	DATE	10/8/2021	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

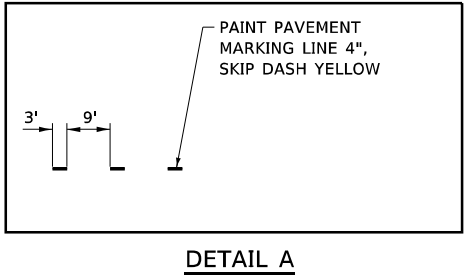
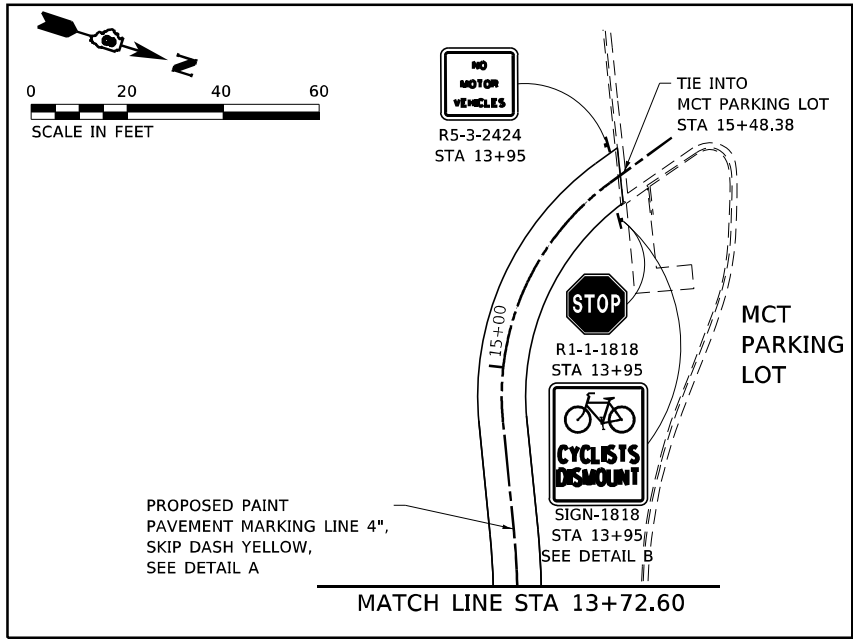
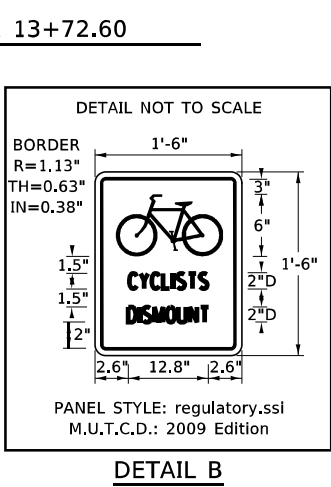
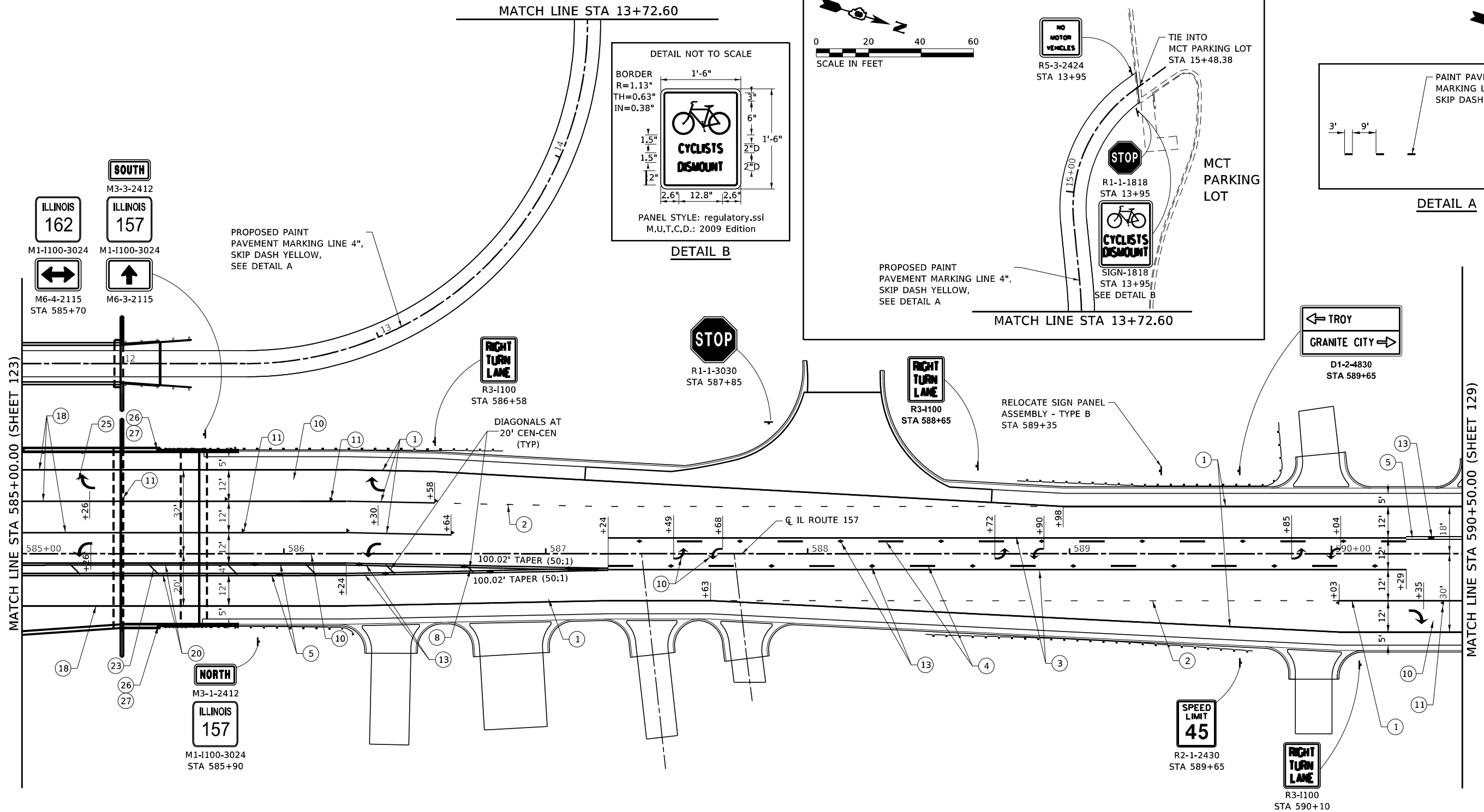
PAVEMENT MARKING AND SIGNING PLANS
IL ROUTE 157

SCALE: 1"=20' SHEET 7 OF 9 SHEETS STA 576+50.00 TO STA 582+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	127
CONTRACT NO. 76A46				
ILLINOIS FED. AID PROJECT				

*586/592

FILE NAME: \\loach-joe\cscat\Production\Files\2020\120-00\B\CAD\CADD Sheets\0876A46-shr-Pavement Marking.dgn



LEGEND

- | | | |
|---|--|---|
| 1 PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 6", SOLID WHITE | 12 PROPOSED ONE-WAY AMBER RAISED REFLECTIVE PAVEMENT MARKERS, 40' CENTERS | 23 PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 12", SOLID YELLOW |
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| 8 PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 12", SOLID YELLOW | 19 PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 6", SKIP-DASH, 2'-6" SPACING | |
| 9 PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 24", SOLID WHITE | 20 PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 4", DOUBLE YELLOW | |
| 10 PROPOSED THERMOPLASTIC PAVEMENT LETTERS AND SYMBOLS | 21 PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 8", SOLID WHITE | |
| 11 PROPOSED ONE-WAY CRYSTAL RAISED REFLECTIVE PAVEMENT MARKERS, 40' CENTERS | 22 PROPOSED PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - 12", SOLID WHITE | |



USER NAME - Jordan.Pettibone
MODEL NAME - MKG PLAN 08
PLOT SCALE - 40,0000" / in.
PLOT DATE - 3/6/2024

DESIGNED - ESW
DRAWN - LEC
CHECKED - BRM
DATE - 10/8/2021

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING PLANS
IL ROUTE 157

SCALE: 1"=20' SHEET 8 OF 9 SHEETS STA 582+00.00 TO STA 590+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	128
CONTRACT NO. 76A46				
ILLINOIS FED. AID PROJECT				

*586/592

FILE NAME: \\lochl-joc\csc\Production\Files\2020\120-00\B\CAD\CADD Sheets\0876A46-sht-Traffic Signals.dgn

SCHEDULE OF QUANTITIES			TOTAL	IL 157 @
CODE NO.	ITEM	UNIT	QUANTITIES	IL 162
72000100	SIGN PANEL - TYPE 1	SQ FT	55	25
80500100	SERVICE INSTALLATION, TYPE A	EACH	1	1
81028350	UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	988	621
81028370	UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	640	627
81028390	UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	116	116
81028400	UNDERGROUND CONDUIT, PVC, 5" DIA.	FOOT	48	48
81100600	CONDUIT ATTACHED TO STRUCTURE, 2" DIA., GALVANIZED STEEL	FOOT	135	135
81400100	HANDHOLE	EACH	15	12
81400300	DOUBLE HANDHOLE	EACH	1	1
85700200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1	1
87100160	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, 24F	FOOT	1130	1130
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1375	1375
87301235	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 4C	FOOT	1410	1410
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	5207	4237
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	2028	1061
87301815	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 3C	FOOT	34	34
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1400	1310
87500800	TRAFFIC SIGNAL POST, 12 FT.	EACH	3	3
87702970	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48 FT.	EACH	1	1
87702980	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 50 FT.	EACH	1	1
87703030	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 60 FT.	EACH	1	1
87703080	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 68 FT.	EACH	1	1
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	9	9
87800200	CONCRETE FOUNDATION, TYPE D	FOOT	3	3
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	43	28
87800420	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	46	46
88040070	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	7	6
88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	12	10
88040110	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	6	2
88040120	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	6	2
88102845	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	4	4
88200510	TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	18	12
X8710103	ETHERNET SWITCH	EACH	1	1
X8760200	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	4	4
Z0033072	VIDEO VEHICLE DETECTION SYSTEM	EACH	1	1



USER NAME	• alex.huelskamp
MODEL NAME	• TS 01
PLOT SCALE	• 40,00000 ' / in.
PLOT DATE	• 3/5/2024

DESIGNED	-	ESW
DRAWN	-	LEC
CHECKED	-	BRM
DATE	-	10/8/2021

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL PLANS
QUANTITIES - IL ROUTE 157 AND IL ROUTE 162

SCALE: 1"=20'	SHEET 1 OF 13 SHEETS	SUMMARY OF QUANTITIES 157/162
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	130
		CONTRACT NO. 76A46		
		ILLINOIS	FED. AID PROJECT	

GENERAL NOTES

TRAFFIC CONTROL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL CONFORM TO THE ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (ILMUTCD), HIGHWAY STANDARDS AND STANDARD SPECIFICATIONS.

ALL VEHICLE AND PEDESTRIAN SIGNAL HEADS SHALL HAVE ALL 12" SECTIONS. MOUNTING HARDWARE SHALL BE UNPAINTED ALUMINUM.

BACKPLATES SHALL BE ABS PLASTIC.

CONTROLLER CABINET, SIGNAL POSTS AND BASES SHALL BE UNPAINTED ALUMINUM.

THE LOCATION OF MAST ARM SUPPORTS SHALL BE APPROVED BY THE ENGINEER BEFORE FOUNDATIONS ARE CONSTRUCTED. MAST ARM POLES SHALL BE LOCATED A MINIMUM OF 10 FEET FROM THE EDGE OF PAVEMENT OR 2 FEET FROM THE EDGE OF SHOULDER, WHICHEVER DISTANCE IS GREATER. IN CURBED SECTIONS, THE MAST ARM POLES SHALL BE LOCATED A MINIMUM OF 5 FEET FROM THE FACE OF THE CURB. THESE DISTANCES ARE TO THE NEAR FACE OF THE MAST ARM POLE.

ALL TRAFFIC SIGNAL CABLE SHALL BE #14 AWG STRANDED COPPER UNLESS OTHERWISE SPECIFIED.

DEPTHS OF CONCRETE FOUNDATIONS FOR MAST ARM SUPPORTS (DETERMINED BY TABLE ON IDOT HIGHWAY STANDARD 878001) ARE:

N.W. QUADRANT	15'-0"	(36" DIA.)
N.E. QUADRANT	13'-0"	(36" DIA.)
S.E. QUADRANT	21'-0"	(42" DIA.)
S.W. QUADRANT	25'-0"	(42" DIA.)

ALL ACCESSIBLE PEDESTRIAN SIGNAL (APS) UNITS SHALL INCLUDE A 6-INCH EXTENSION BRACKET, TO ENSURE THE NEW PUSH BUTTON IS LOCATED WITHIN A 10-INCH UNOBSTRUCTED SIDE-REACH OF A LEVEL LANDING AREA.

ALL IMPROVED PEDESTRIAN RELATED FACILITIES MUST COMPLY WITH CURRENT PUBLIC RIGHTS-OF-WAY ACCESSIBILITY GUIDELINES (PROWAG). REFER TO CURB RAMP DETAIL SHEETS AND IDOT STANDARDS FOR INFORMATION PERTAINING TO THE CONSTRUCTION OF THE PROPOSED CURB RAMPS. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION OF PEDESTRIAN SIGNAL EQUIPMENT WITH SIDEWALK AND CURB RAMP CONSTRUCTION TO ENSURE FINAL LOCATIONS ARE COMPLIANT WITH ADA STANDARDS.

DIRECTIONAL BORING OR PUSHING OF CONDUIT MAY BE USED INSTEAD OF TRENCHING CONDUIT; HOWEVER, NO ADDITIONAL PAYMENT WILL BE MADE.

CONDUIT SPLICES WILL NOT BE PAID FOR SEPARATELY, AND SHALL BE INCLUDED AS PART OF THE WORK ASSOCIATED WITH INSTALLING RESPECTIVE CONDUIT PAY ITEMS.

CALL DELAY SHALL NOT FUNCTION WHEN THE RELATED PHASE IS IN THE GREEN MODE. "CALL CARRY-OVER" SHALL FUNCTION ONLY WHEN RELATED PHASES ARE IN THE GREEN MODE.

SEE "JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS" (J.U.L.I.E.) IN SPECIAL PROVISIONS. CALL (800) 892-0123 ONE WEEK BEFORE YOU PLAN TO DIG.

PRIOR TO CONSTRUCTION ACTIVITIES TAKING PLACE, THE CONTRACTOR SHALL COORDINATE WITH THE LOCAL POWER COMPANY TO VERIFY RECOMMENDED POWER SOURCE LOCATION TO ACCOMMODATE THE PROPOSED TRAFFIC SIGNAL IMPROVEMENTS.

TRAFFIC SIGNAL LEGEND

	PROPOSED SERVICE INSTALLATION
	PROPOSED CONTROLLER
	PROPOSED DOUBLE HANDHOLE
	PROPOSED DOUBLE HANDHOLE
	PROPOSED SIGNAL POST
	PROPOSED SIGNAL HEAD
	PROPOSED SIGNAL HEAD WITH BACKPLATE
	PROPOSED STEEL MAST ARM ASSEMBLY
	PROPOSED UNDERGROUND CONDUIT
	PROPOSED SIGNAL HEAD
	PROPOSED APS PEDESTRIAN PUSH BUTTON UNIT W/ 6" EXTENSION BRACKET
PVCC	POLYVINYL CHLORIDE CONDUIT
GSC	GALVANIZED STEEL CONDUIT

STANDARDS

720016-04
805001-01
814001-03
814006-02
857001-01
873001-02
877011-10
877012-07
878001-11
880006-01

FILE NAME: \\loeb-loc\cst\Production\Files\2028\128-00\B\CAD\CADD Sheets\0876A46-ah-Traffic Signals.dgn



USER NAME	• atex.huelskamp
MODEL NAME	• TS 02
PLOT SCALE	• 40,0000" / in.
PLOT DATE	• 3/5/2024

DESIGNED	-	ESW
DRAWN	-	LEC
CHECKED	-	BRM
DATE	-	10/8/2021

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL PLANS
GENERAL NOTES - IL ROUTE 157 AND IL ROUTE 162

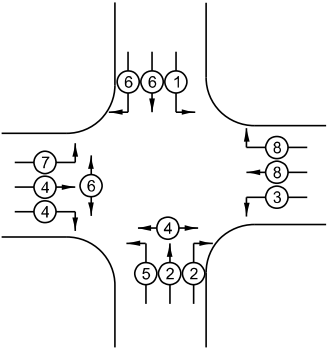
SCALE: 1"=20'	SHEET 2 OF 13 SHEETS	GENERAL NOTES 157/162
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	131
		CONTRACT NO. 76A46		
		ILLINOIS	FED. AID PROJECT	

CONTROLLER PHASING

PHASE	1	2	3	4	5	6	7	8
MOVEMENT								
	SBLT	NB	WBLT	EB	NBLT	SB	EBLT	WB
CONCURRENT MOVEMENT PERMITTED	5 OR 6	5 OR 6	8 OR 7	7 OR 8	1 OR 2	1 OR 2	3 OR 4	8 OR 3

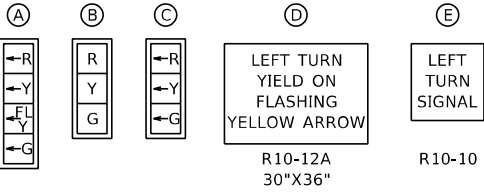
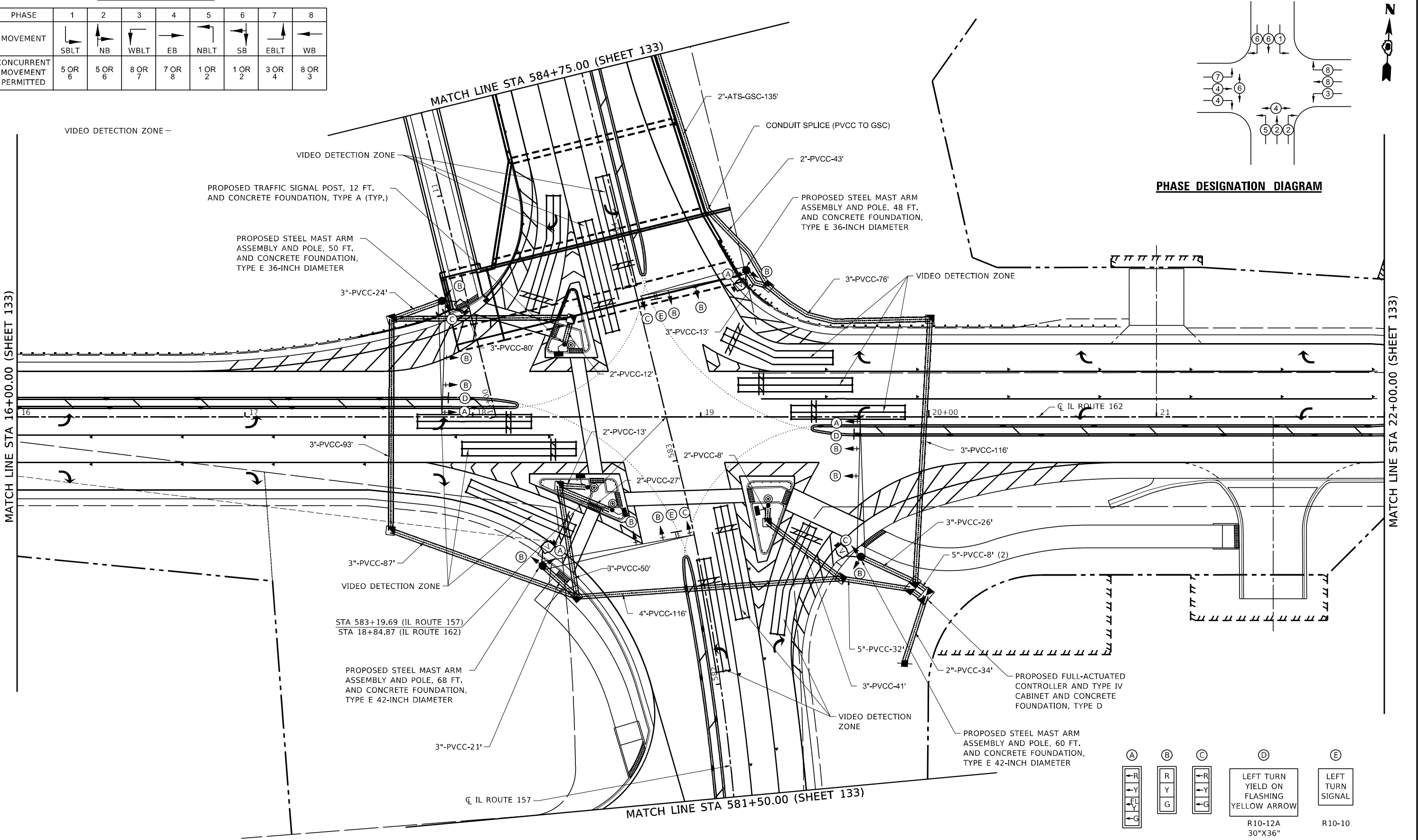
PHASE DESIGNATION DIAGRAM



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MATCH LINE STA 16+00.00 (SHEET 133)

MATCH LINE STA 22+00.00 (SHEET 133)



USER NAME	• alex.huelskamp
MODEL NAME	• TS 03
PLOT SCALE	• 40,0000' / in.
PLOT DATE	• 3/5/2024

DESIGNED	- ESW
DRAWN	- LEC
CHECKED	- BRM
DATE	- 10/8/2021

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL PLANS			
IL ROUTE 157 AND IL ROUTE 162			
SCALE: 1"=20'	SHEET 3 OF 13 SHEETS	TS PLANS 157/162	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	132
CONTRACT NO. 76A46				
ILLINOIS FED. AID PROJECT				

*586/592

FILE NAME: \\loeb-joe\cst\Production\Files\2020\120-00\B\CAD\CADD Sheets\0876A46-shr-Traffic Signals.dgn



USER NAME = alex.huelskamp
MODEL NAME = TS 04
PLOT SCALE = 40,0000" / in.
PLOT DATE = 3/5/2024

DESIGNED - ESW
DRAWN - LEC
CHECKED - BRM
DATE - 10/8/2021

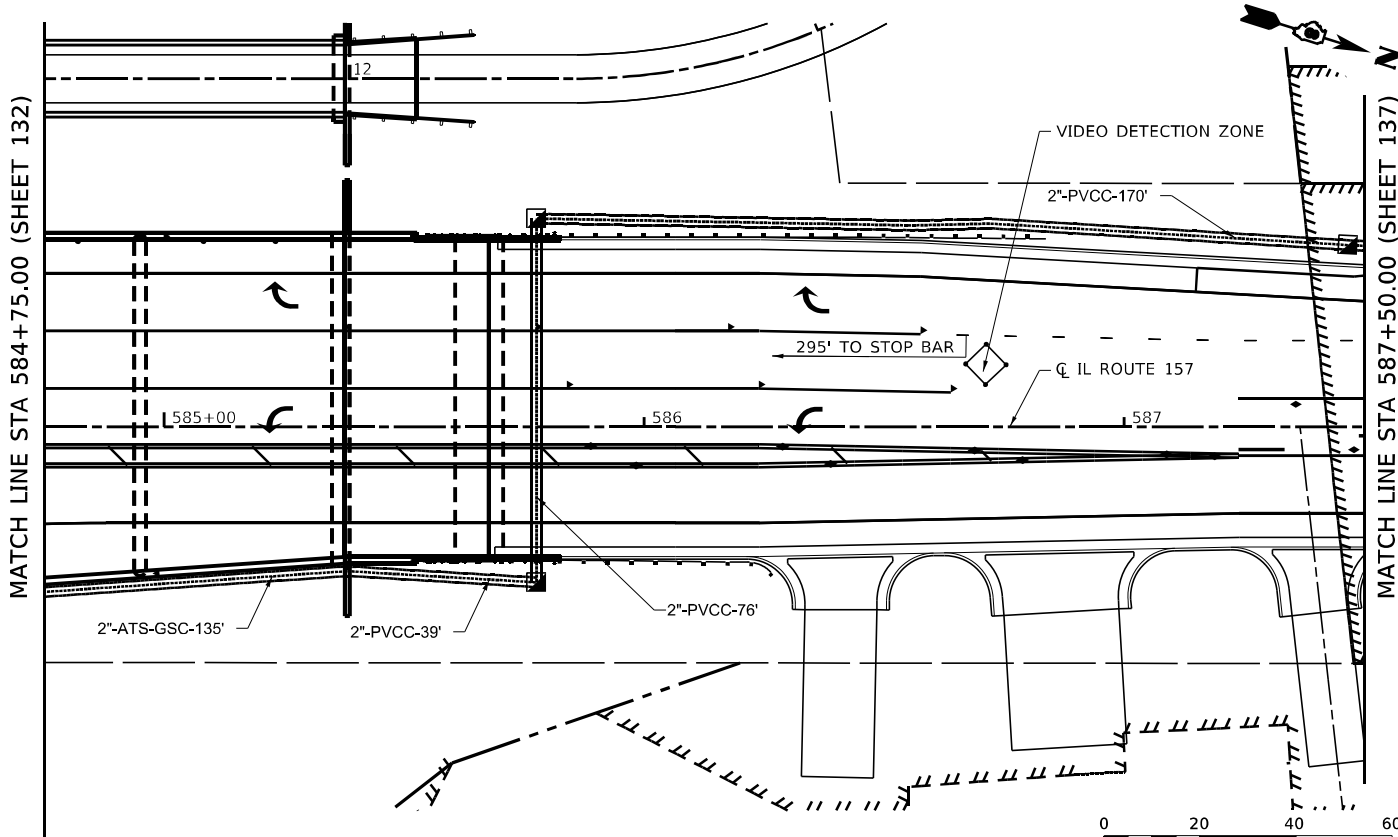
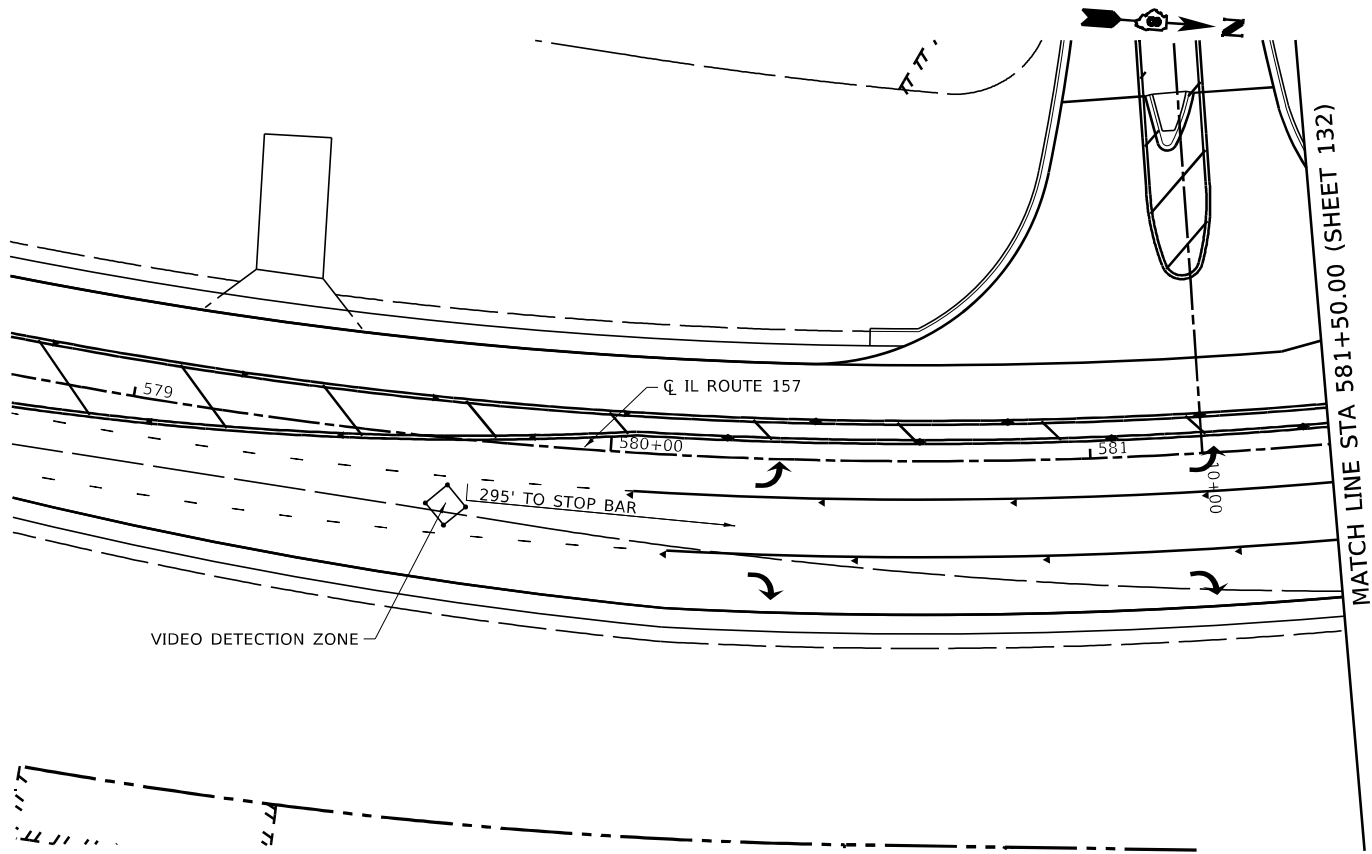
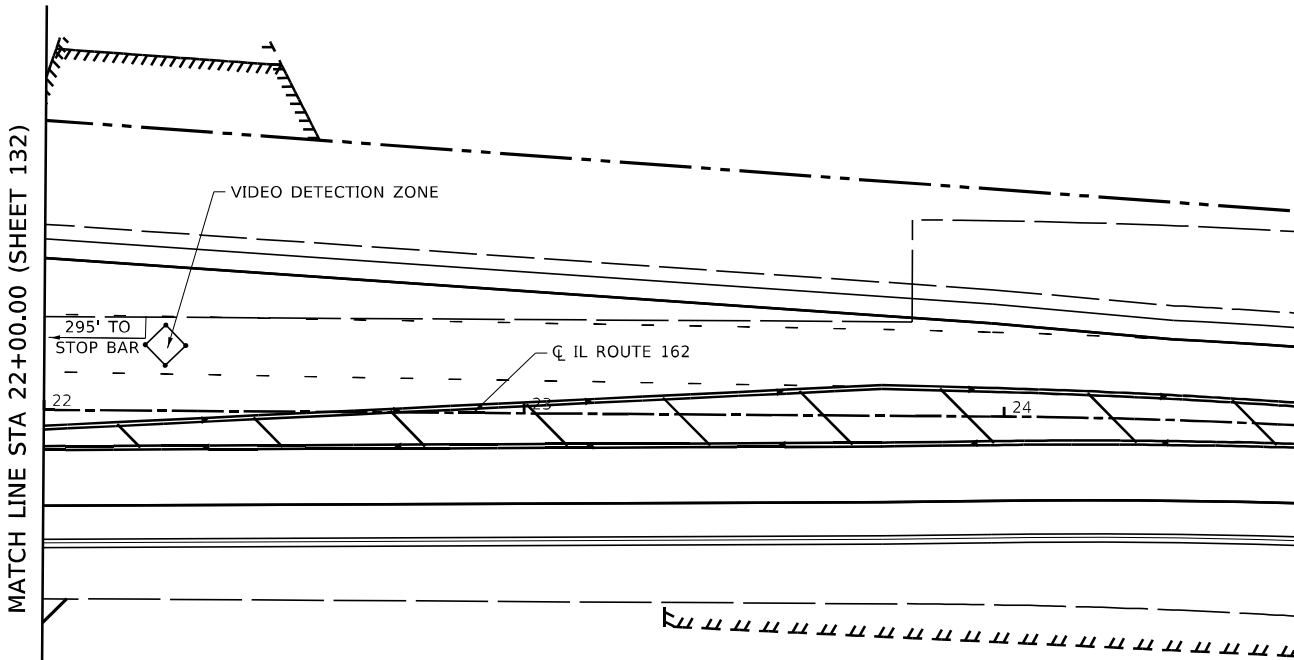
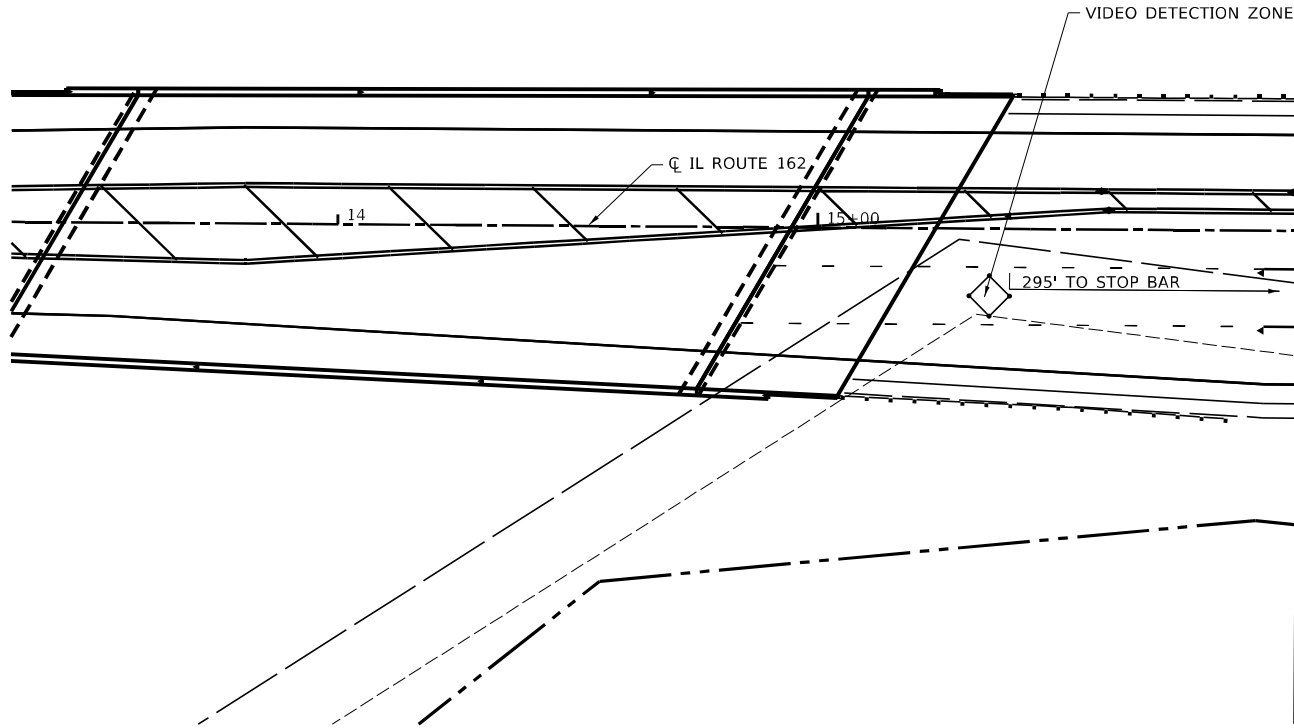
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REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL PLANS
IL ROUTE 157 AND IL ROUTE 162
SCALE: 1"=20'
SHEET 4 OF 13 SHEETS
TS PLANS 157/167

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	133
CONTRACT NO. 76A46				
ILLINOIS FED. AID PROJECT				

*586/592



FILE NAME: \\loech\loc\cst\Production\Files\2020\120-00\B\CAD\CADD Sheets\0876A46-sht-Traffic Signals.dgn



USER NAME	• atex.huelskamp
MODEL NAME	• TS 05
PLOT SCALE	• 40,00000 ' / in.
PLOT DATE	• 3/5/2024

DESIGNED	- ESW
DRAWN	- LEC
CHECKED	- BRM
DATE	- 10/8/2021

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL PLANS
CABLE DIAGRAM - IL ROUTE 157 AND IL ROUTE 162

SCALE: 1"=20'	SHEET 5 OF 13 SHEETS	CABLE DIAGRAM 157/162
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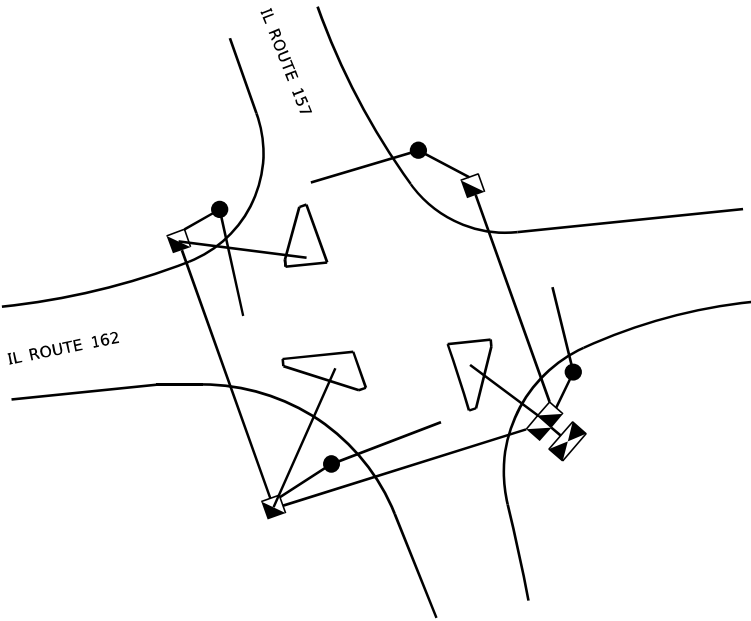
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	134
CONTRACT NO. 76A46				
ILLINOIS FED. AID PROJECT				

*586/592

CABLE DIAGRAM LEGEND

- PROPOSED ELECTRIC CABLE IN CONDUIT
- SERVICE INSTALLATION
- 2/C INDICATES NUMBER OF CONDUCTORS IN CABLE
- #6 INDICATES AMERICAN WIRE GAUGE (AWG) SIZE 6 CONDUCTOR
- PROPOSED APS PUSH BUTTON WITH 6-INCH EXTENSION BRACKET
- PROPOSED VIDEO DETECTION CAMERA
- PROPOSED PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER

GROUNDING SCHEMATIC



IL ROUTE 162

IL ROUTE 157

IL ROUTE 162

IL ROUTE 157

PROPOSED FIBER OPTIC
INTERCONNECT CABLE
TO MAIN STREET

CONTROLLER

1/C #6 AWG GROUNDING

3/C #6 AWG

FILE NAME: \\lochl-joc\cst\Production\Files\2020\120-00\B\CAD\CADD Sheets\0876A46-sht-Traffic Signals.dgn

SCHEDULE OF QUANTITIES			TOTAL	IL 157 @
CODE NO.	ITEM	UNIT	QUANTITIES	N MAIN
72000100	SIGN PANEL - TYPE 1	SQ FT	55	30
72400310	REMOVE SIGN PANEL - TYPE 1	SQ FT	30	30
81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	194	194
81028320	UNDERGROUND CONDUIT, PVC, 1" DIA.	FOOT	97	97
81028350	UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	988	367
81028370	UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	640	13
81400100	HANDHOLE	EACH	15	3
88000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1	1
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	5207	970
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	2028	967
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1867	1867
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1400	90
87700320	STEEL MAST ARM ASSEMBLY AND POLE, 55 FT.	EACH	1	1
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	43	15
87900200	DRILL EXISTING HANDHOLE	EACH	2	2
88040070	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	7	1
88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	12	2
88040110	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	6	4
88040120	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	6	4
88200510	TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	18	6
88500100	INDUCTIVE LOOP DETECTOR	EACH	1	1
88600100	DETECTOR LOOP, TYPE I	FOOT	688	688
89500100	RELOCATE EXISTING SIGNAL HEAD	EACH	2	2
89502210	MODIFY EXISTING CONTROLLER CABINET	EACH	1	1
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	3338	3338
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1	1
89502380	REMOVE EXISTING HANDHOLE	EACH	3	3
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	1	1
20073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1	1



USER NAME	• atex.huelskamp
MODEL NAME	• TS 06
PLOT SCALE	• 40,0000" / in.
PLOT DATE	• 3/5/2024

DESIGNED	- ESW
DRAWN	- LEC
CHECKED	- BRM
DATE	- 10/8/2021

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL PLANS
QUANTITIES - IL ROUTE 157 AND MAIN STREET

SCALE: 1"=20' SHEET 6 OF 13 SHEETS SUMMARY OF QUANTITIES MAIN ST

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	135
CONTRACT NO. 76A46				
ILLINOIS		FED. AID PROJECT		

GENERAL NOTES

TRAFFIC CONTROL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL CONFORM TO THE ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (ILMUTCD), HIGHWAY STANDARDS AND STANDARD SPECIFICATIONS.

ALL VEHICLE AND PEDESTRIAN SIGNAL HEADS SHALL HAVE ALL 12" SECTIONS. MOUNTING HARDWARE SHALL BE UNPAINTED ALUMINUM.

THE CONTRACTOR SHALL VERIFY ALL NEW SIGNAL HEAD LOCATIONS PRIOR TO INSTALLATION. A MINIMUM SPACING OF 8 FT. SHALL BE MAINTAINED BETWEEN ALL EXISTING AND PROPOSED MAST ARM MOUNTED SIGNAL HEADS. ANY UNUSED OPENINGS REMAINING IN THE SIGNAL MAST ARMS OR POLES SHALL BE FILLED OR COVERED, TO THE SATISFACTION OF THE ENGINEER.

BACKPLATES SHALL BE ABS PLASTIC.

CONTROLLER CABINET, SIGNAL POSTS AND BASES SHALL BE UNPAINTED ALUMINUM.

THE LOCATION OF MAST ARM SUPPORTS SHALL BE APPROVED BY THE ENGINEER BEFORE FOUNDATIONS ARE CONSTRUCTED. MAST ARM POLES SHALL BE LOCATED A MINIMUM OF 10 FEET FROM THE EDGE OF PAVEMENT OR 2 FEET FROM THE EDGE OF SHOULDER, WHICHEVER DISTANCE IS GREATER. IN CURBED SECTIONS, THE MAST ARM POLES SHALL BE LOCATED A MINIMUM OF 5 FEET FROM THE FACE OF THE CURB. THESE DISTANCES ARE TO THE NEAR FACE OF THE MAST ARM POLE.

ALL TRAFFIC SIGNAL CABLE SHALL BE #14 AWG STRANDED COPPER UNLESS OTHERWISE SPECIFIED.

DEPTHS OF CONCRETE FOUNDATIONS FOR MAST ARM SUPPORTS (DETERMINED BY TABLE ON IDOT HIGHWAY STANDARD 787001) ARE:
S.E. QUADRANT 15'-0" (36" DIA.)

CONDUIT SPLICES WILL NOT BE PAID FOR SEPARATELY, AND SHALL BE INCLUDED AS PART OF THE WORK ASSOCIATED WITH INSTALLING RESPECTIVE CONDUIT PAY ITEMS.

ALL UNUSED AND/OR UNNECESSARY TRAFFIC SIGNAL CABLES SHALL BE COMPLETELY REMOVED FROM THE EXISTING CONDUIT SYSTEM, IF POSSIBLE, TO ENSURE ADEQUATE CONDUIT CAPACITY. ALL UNUSED CONDUITS SHALL BE REMOVED OR ABANDONED.

DETECTOR LOOP LEAD-IN SPLICES SHALL BE MADE IN A HANDHOLE PER SECTION 873.03 OF THE "STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS". CONDUCTORS SHALL BE SPLICED IN A RIGID MOLD. ROSIN CORE SOLDER SHALL BE USED.

CALL DELAY SHALL NOT FUNCTION WHEN THE RELATED PHASE IS IN THE GREEN MODE. "CALL CARRY-OVER" SHALL FUNCTION ONLY WHEN RELATED PHASES ARE IN THE GREEN MODE.

SEE "JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS" (J.U.L.I.E.) IN SPECIAL PROVISIONS. CALL (800) 892-0123 ONE WEEK BEFORE YOU PLAN TO DIG.

PRIOR TO CONSTRUCTION ACTIVITIES TAKING PLACE, THE CONTRACTOR SHALL COORDINATE WITH THE LOCAL POWER COMPANY TO VERIFY THAT NO MODIFICATIONS TO THE EXISTING POWER SOURCE LOCATIONS WILL BE REQUIRED TO ACCOMMODATE THE PROPOSED TRAFFIC SIGNAL IMPROVEMENTS.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR ANY FACILITIES DAMAGED DURING CONSTRUCTION. ALL EXISTING FACILITIES NOT EXPLICITLY IDENTIFIED AS BEING REMOVED OR RELOCATED IN THE PLANS THAT ARE DISTURBED OR OTHERWISE DAMAGED BY THE CONTRACTOR SHALL BE REPLACED IN KIND BY THE CONTRACTOR WITH NO ADDITIONAL COMPENSATION.

ANY EQUIPMENT REMOVED FROM THE PROJECT INTERSECTION AND NOT UTILIZED IN THE FINAL INSTALLATION SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

DETECTOR LOOP REQUIREMENTS AND CALCULATIONS

NO.	LOOP	PHASE	LOOP SIZE (FT)	REQ'D NO OF TURNS	CALCULATED INDUCTANCE (uH)	CALCULATED RESISTANCE (OHMS)
1	NB CCO	2	6 X 6	6	350.6	2.54
2	NB LT CD	5	50 X 6	3-6-3	830.9	2.61
3	NB THRU CD	2	50 X 6	3-6-3	825.8	2.50
4	NB THRU CD	2	50 X 6	3-6-3	823.8	2.45

TRAFFIC SIGNAL LEGEND

	EXISTING SERVICE INSTALLATION
	EXISTING CONTROLLER
	EXISTING HANDHOLE
	EXISTING DOUBLE HANDHOLE
	EXISTING SIGNAL HEAD
	EXISTING SIGNAL HEAD WITH BACKPLATE
	EXISTING LOOP DETECTOR
	EXISTING STEEL MAST ARM ASSEMBLY
	EXISTING UNDERGROUND CONDUIT
	PROPOSED HANDHOLE
	PROPOSED SIGNAL HEAD
	PROPOSED SIGNAL HEAD WITH BACKPLATE
	PROPOSED LOOP DETECTOR
	PROPOSED STEEL MAST ARM ASSEMBLY
	PROPOSED UNDERGROUND CONDUIT
PVCC	POLYVINYL CHLORIDE CONDUIT
GSC	GALVANIZED STEEL CONDUIT

STANDARDS

720016-04
805001-01
812001-01
814001-03
814006-02
857001-01
862001-01
873001-02
877001-08
877002-04
878001-11
880006-01
886001-01
886006-01

FILE NAME: \\loech-loc\cst\Production\Files\2020\120-00\B\CAD\CADD Sheets\0876A46-sht-Traffic Signals.dgn



USER NAME	• atex.huelskamp	DESIGNED	- ESW	REVISED	-
MODEL NAME	• TS 07	DRAWN	- LEC	REVISED	-
PLOT SCALE	• 40,0000" / in.	CHECKED	- BRM	REVISED	-
PLOT DATE	• 3/5/2024	DATE	- 10/8/2021	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

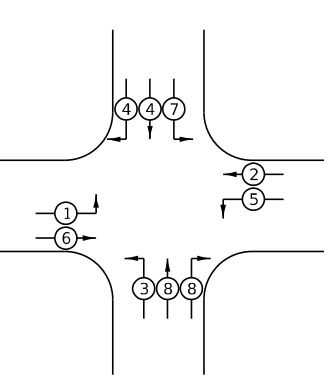
TRAFFIC SIGNAL PLANS
GENERAL NOTES - IL ROUTE 157 AND MAIN STREET

SCALE: 1"=20'	SHEET 7 OF 13 SHEETS	GENERAL NOTES MAIN ST
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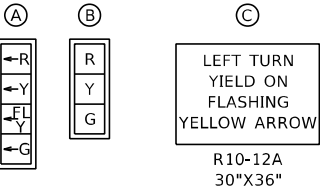
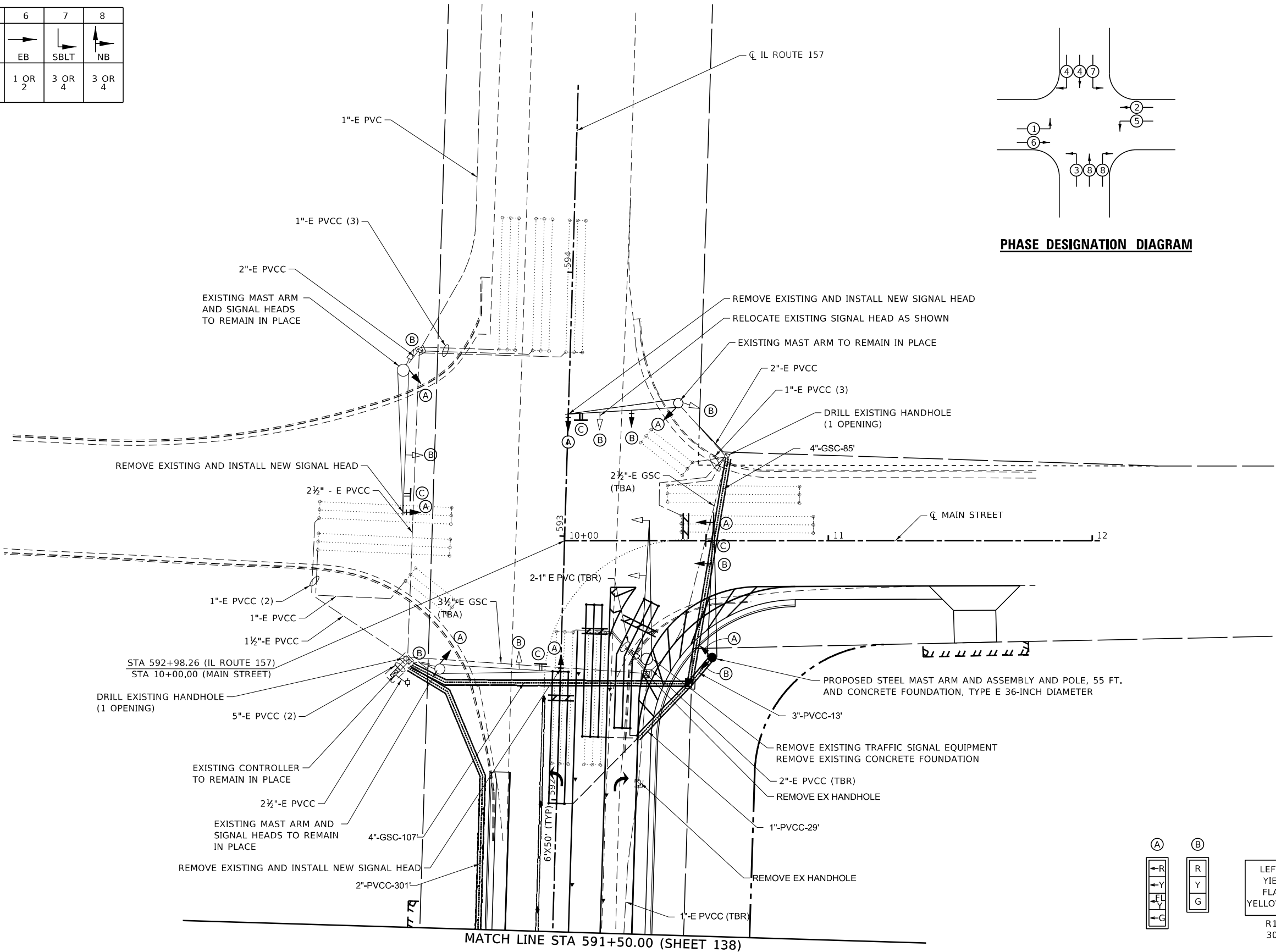
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	136
		CONTRACT NO. 76A46		
		ILLINOIS	FED. AID PROJECT	

CONTROLLER PHASING

PHASE	1	2	3	4	5	6	7	8
MOVEMENT								
CONCURRENT MOVEMENT PERMITTED	5 OR 6	2 OR 5	7 OR 8	7 OR 8	2 OR 1	1 OR 2	3 OR 4	3 OR 4



PHASE DESIGNATION DIAGRAM



FILE NAME: \\loech\loc\cst\Production\Files\2020\120-00\B\CAD\CADD Sheets\0876A46-sh-Traffic Signals.dgn



USER NAME	• alex.huelskamp
MODEL NAME	• TS 08
PLOT SCALE	• 40,0000" / in.
PLOT DATE	• 3/5/2024

DESIGNED	- ESW
DRAWN	- LEC
CHECKED	- BRM
DATE	- 10/8/2021

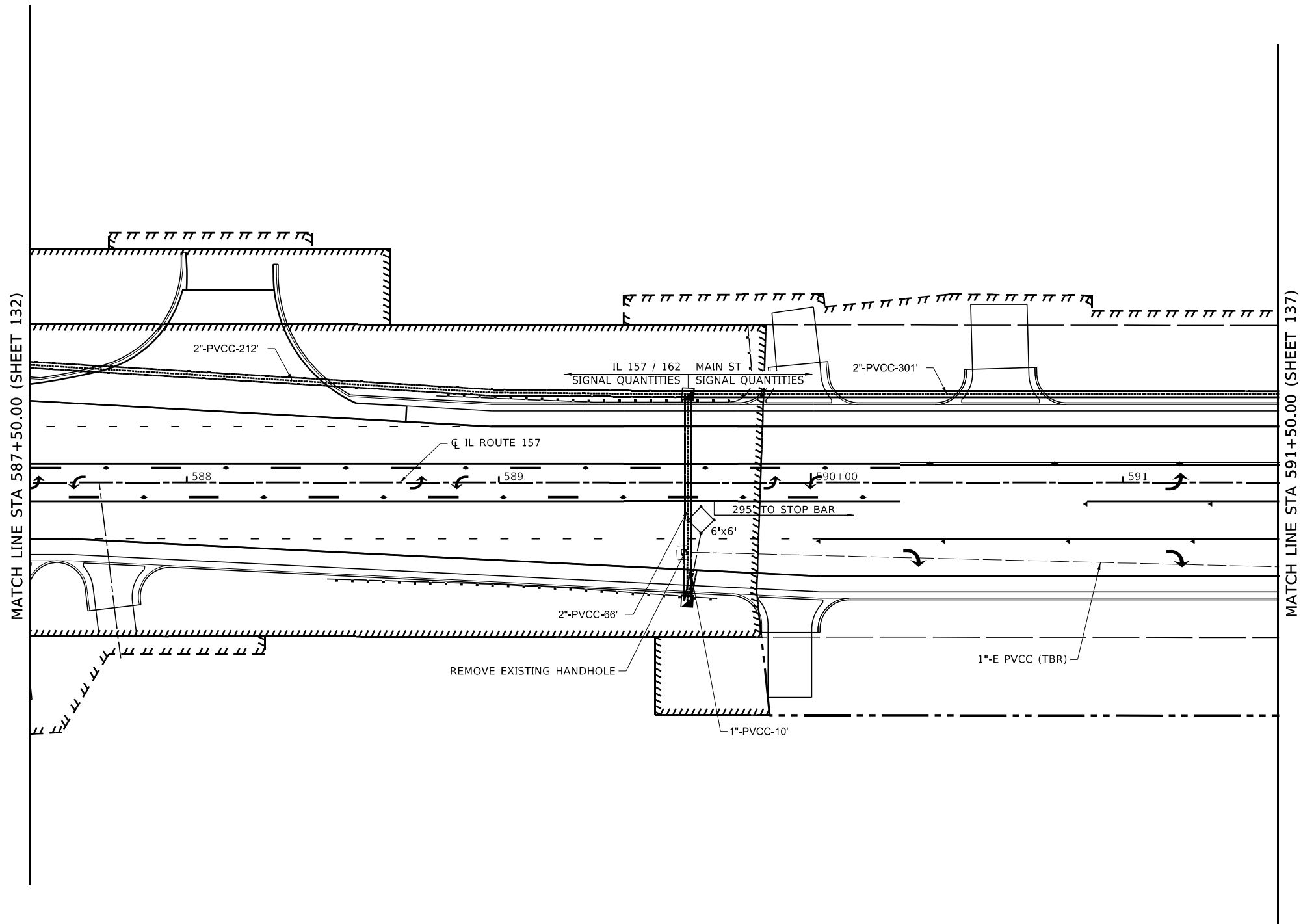
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REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL PLANS			
IL ROUTE 157 AND MAIN STREET			
SCALE: 1"=20'	SHEET 8 OF 13 SHEETS	TS PLANS MAIN ST	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	137
CONTRACT NO. 76A46				
ILLINOIS FED. AID PROJECT				

*586/592



FILE NAME: \\lochl\c\cst\Production\Files\2020\120-00\B\CAD\CADD Sheets\0876A46-sh-Traffic Signals.dgn



USER NAME	• alex.huelskamp	DESIGNED	- ESW	REVISED	-
MODEL NAME	• TS 09	DRAWN	- LEC	REVISED	-
PLOT SCALE	• 40,0000" / in.	CHECKED	- BRM	REVISED	-
PLOT DATE	• 3/5/2024	DATE	- 10/8/2021	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL PLANS			
IL ROUTE 157 AND MAIN STREET			
SCALE: 1"=20'	SHEET 9	OF 13 SHEETS	TS PLANS MAIN ST

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	138
CONTRACT NO. 76A46				
ILLINOIS FED. AID PROJECT				

*586/592

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USER NAME • atex.huelskamp
MODEL NAME • TS 10
PLOT SCALE • 40,0000" / in.
PLOT DATE • 3/5/2024

DESIGNED - ESW
DRAWN - LEC
CHECKED - BRM
DATE - 10/8/2021

REVISED -
REVISED -
REVISED -
REVISED -

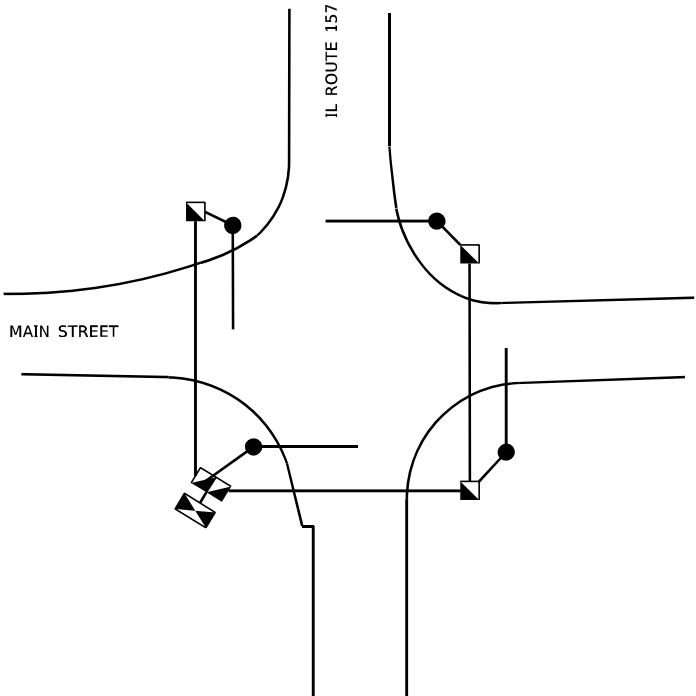
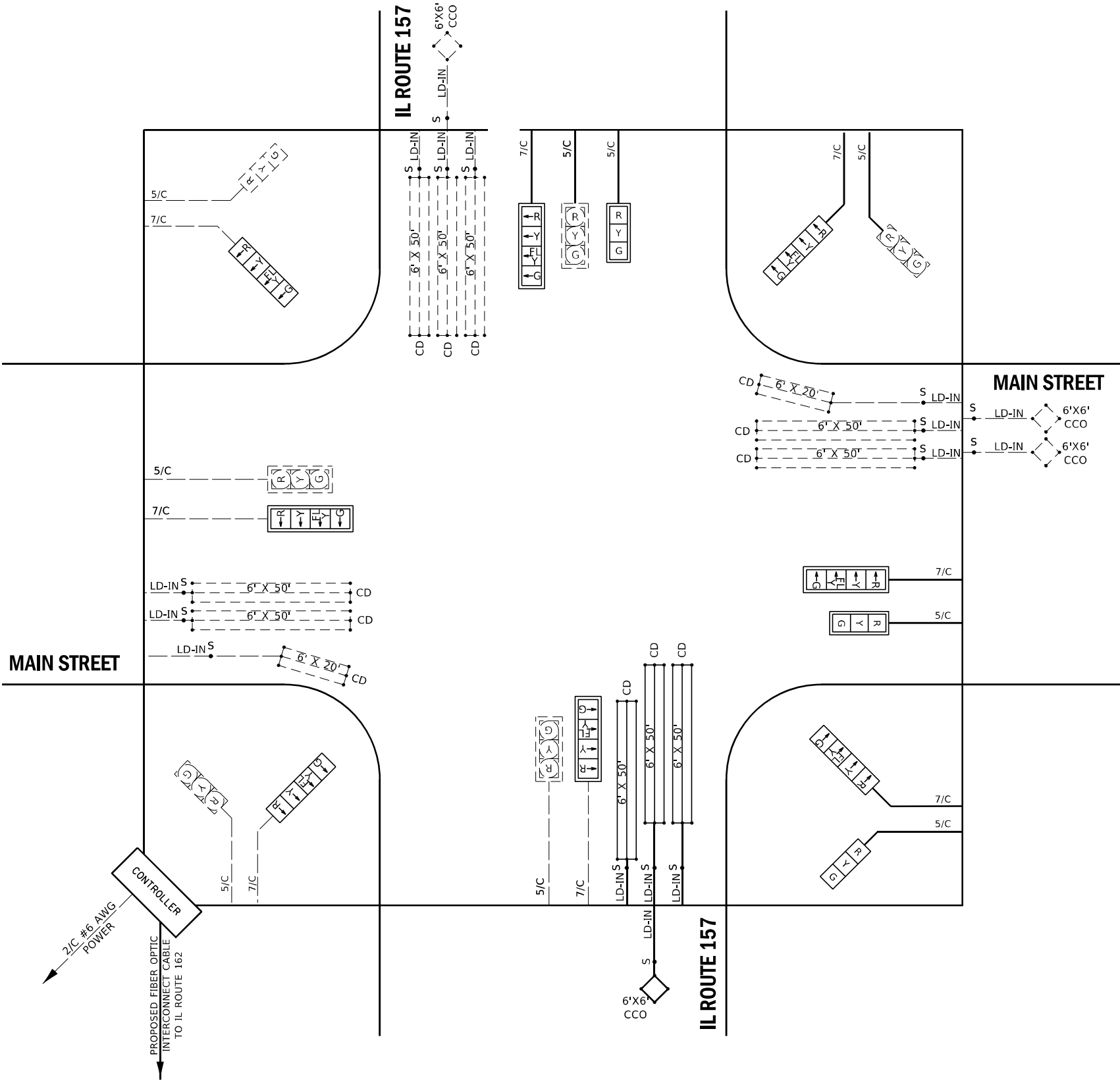
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL PLANS
CABLE DIAGRAM - IL ROUTE 157 AND MAIN STREET

SCALE: 1"=20' SHEET 10 OF 13 SHEETS CABLE DIAGRAM MAIN ST

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	139
CONTRACT NO. 76A46				
ILLINOIS FED. AID PROJECT				

*586/592



CABLE DIAGRAM LEGEND

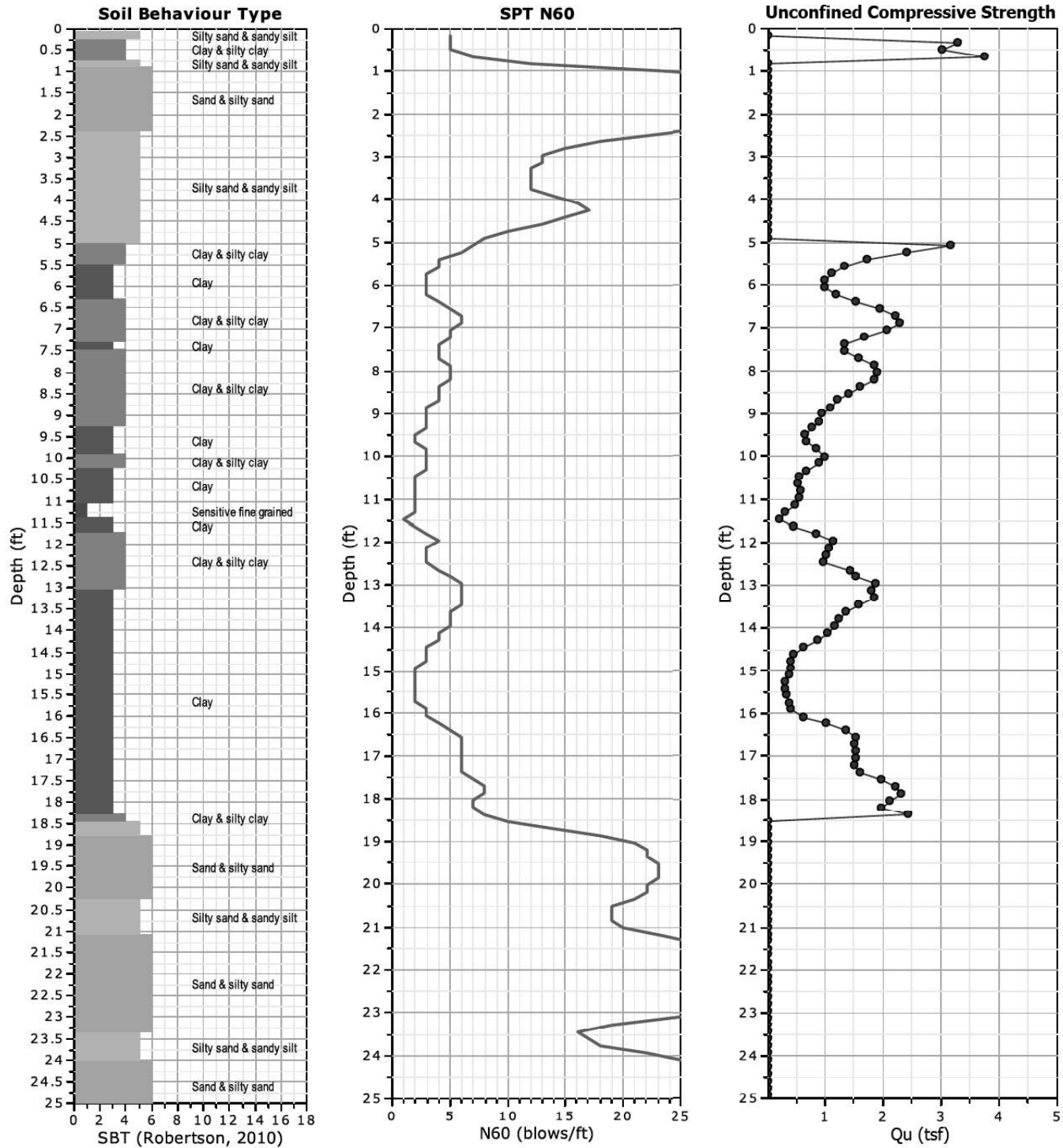
- PROPOSED ELECTRIC CABLE IN CONDUIT
- EXISTING ELECTRIC CABLE IN CONDUIT
- PROPOSED CABLE SPLICE
- EXISTING CABLE SPLICE
- SERVICE INSTALLATION
- 2/C INDICATES NUMBER OF CONDUCTORS IN CABLE
- TW SH TWISTED AND SHIELDED CABLE
- #6 INDICATES AMERICAN WIRE GAUGE (AWG) SIZE 6 CONDUCTOR
- LD-IN ELECTRIC CABLE LEAD-IN, I-PAIR
- CD CALL DELAY (SEE GENERAL NOTES)
- C.C.O. CALL CARRY OVER (SEE GENERAL NOTES)
- COIL CABLE FOR FUTURE PED. PUSH-BUTTON USE



SCI Engineering, Inc.
650 Pierce Boulevard, O'Fallon, Illinois 62269
Geotechnical Services
www.sciengineering.com

Project: PTB 195, Item 57 Realignment of IL-162 at IL-157 : SCI No. 2020-0531.10
Location: Madison County, IL

IL 162 @ IL 157: NW CORNER
CPT: B-6
Total depth: 25.10 ft, Date: 1/17/2022
Surface Elevation: 438.00 ft
Coords: lat 38.740839 lon -90.002131
STA: 17+81 Offset: 50' LT
SEC: 4 TWP: 3N RNG: 8W



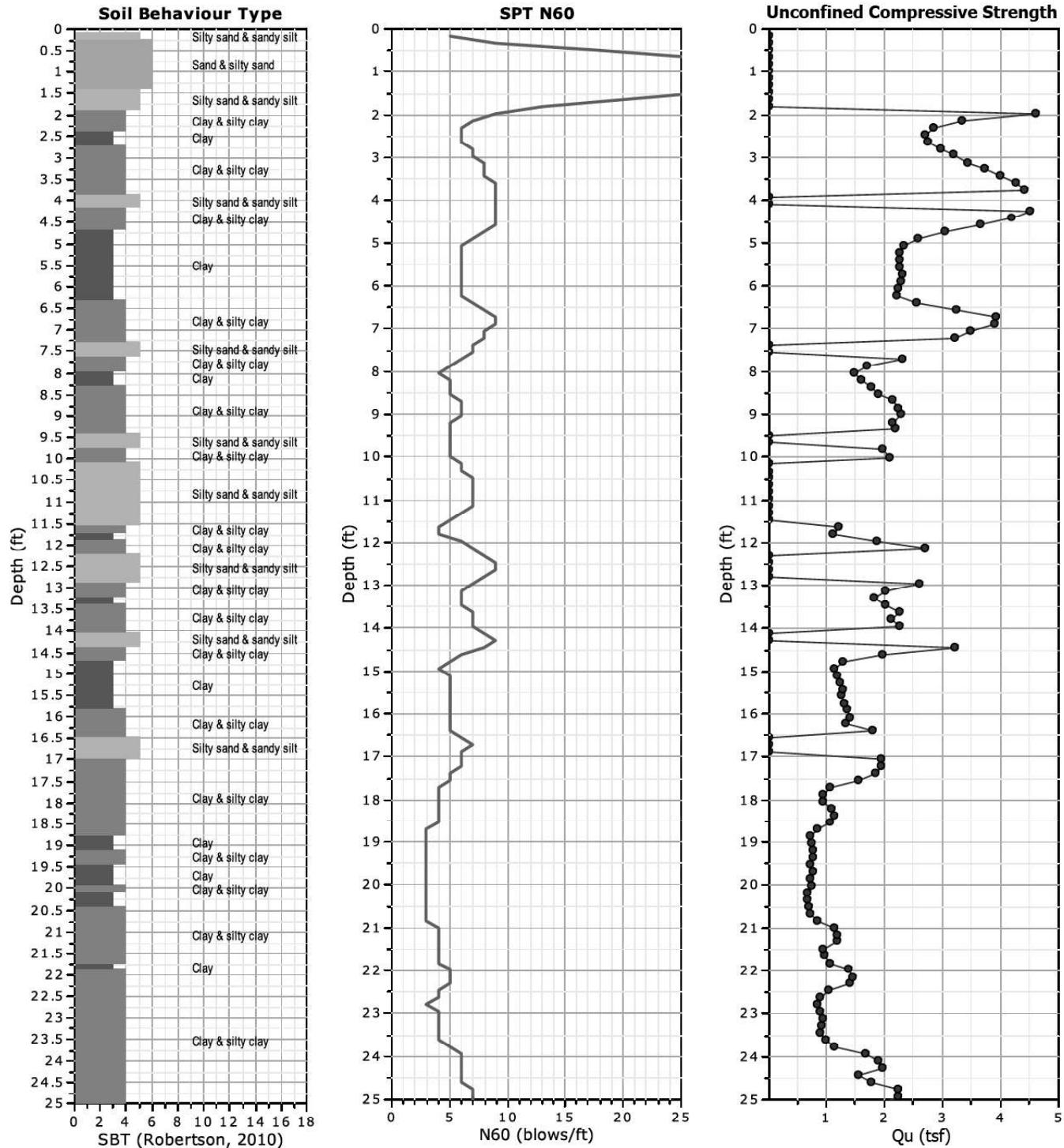
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Project file: N:\Projects\2020\2020-0531 PTB 195, Item 57 Realignment of IL 162 at 157\drilling coordination162 @ 157\CPT\CPT ALL\2020-0531.10 PTB 195-Realignment of IL-162 at 157.c



SCI Engineering, Inc.
650 Pierce Boulevard, O'Fallon, Illinois 62269
Geotechnical Services
www.sciengineering.com

Project: PTB 195, Item 57 Realignment of IL-162 at IL-157 : SCI No. 2020-0531.10
Location: Madison County, IL

IL 162 @ IL 157: NE CORNER
CPT: B-8
Total depth: 25.10 ft, Date: 1/17/2022
Surface Elevation: 443.00 ft
Coords: lat 38.740894 lon -90.001649
STA: 19+25 Offset: 61' LT
SEC: 4 TWP: 3N RNG: 8W



CPeT-IT v.2.1.1.8 - CPTU data presentation & interpretation software - Report created on: 4/12/2022, 11:54:55 PM
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USER NAME : alex.huelskamp
MODEL NAME : TS 11
PLOT SCALE : 40.0000' / in.
PLOT DATE : 3/5/2024

DESIGNED - ESW
DRAWN - LEC
CHECKED - BRM
DATE - 10/8/2021

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS

SCALE: 1"=20' SHEET 11 OF 13 SHEETS SOIL BORINGS B-6 & B-8

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	51-1R	MADISON	296	140
CONTRACT NO. 76A46				
ILLINOIS FED. AID PROJECT				

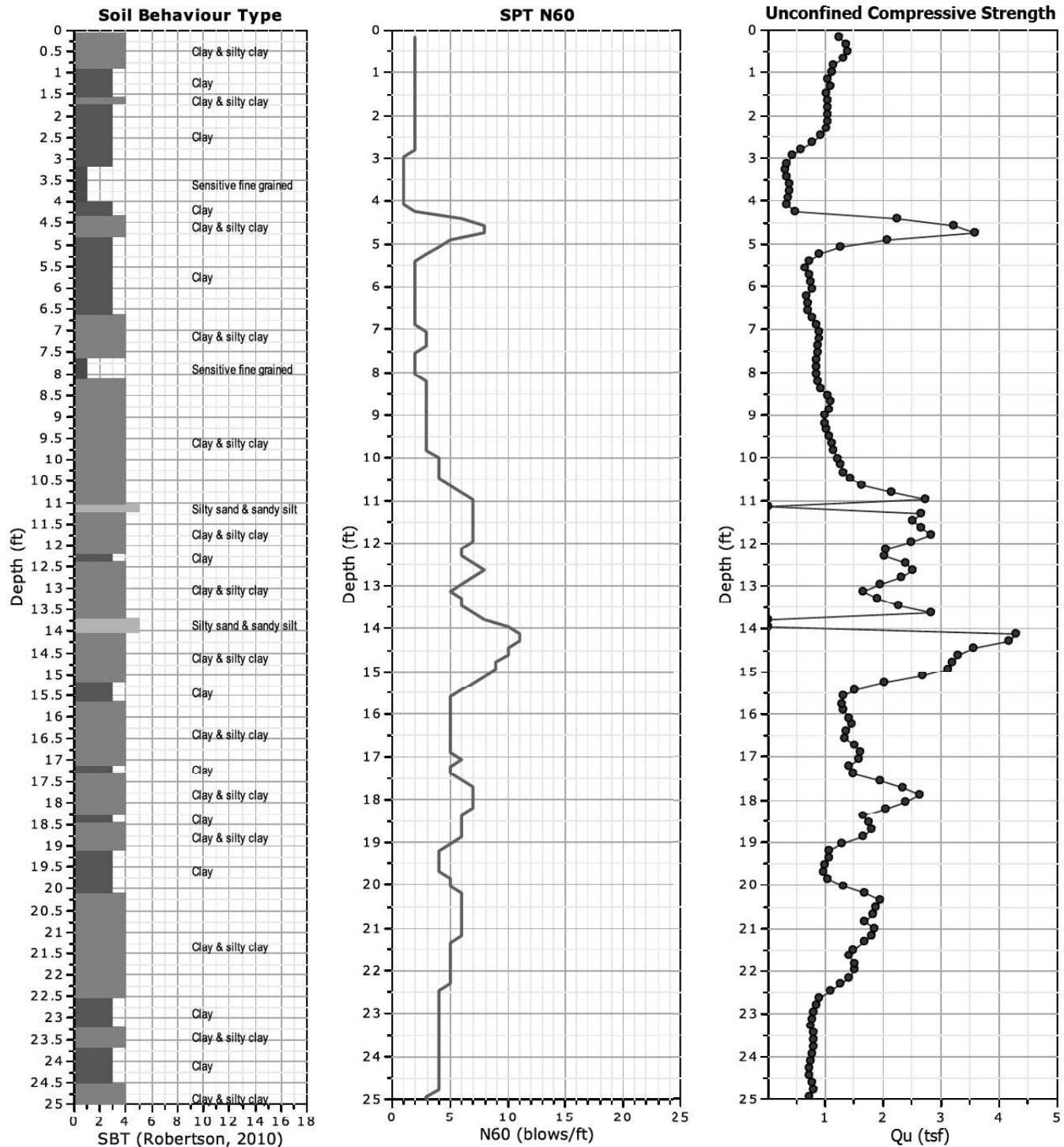
*586/592



SCI Engineering, Inc.
650 Pierce Boulevard, O'Fallon, Illinois 62269
Geotechnical Services
www.sciengineering.com

Project: PTB 195, Item 57 Realignment of IL-162 at IL-157 : SCI No. 2020-0531.10
Location: Madison County, IL

IL 162 @ IL 157: SW CORNER
CPT: B-10
Total depth: 25.10 ft, Date: 1/17/2022
Surface Elevation: 443.00 ft
Coords: lat 38.740516 lon -90.001865
STA: 18+53 Offset: 72' RT
SEC: 4 TWP: 3N RNG: 8W



CPeT-IT v.2.1.1.0 - CPTU data presentation & interpretation software - Report created on: 4/12/2022, 11:54:56 PM
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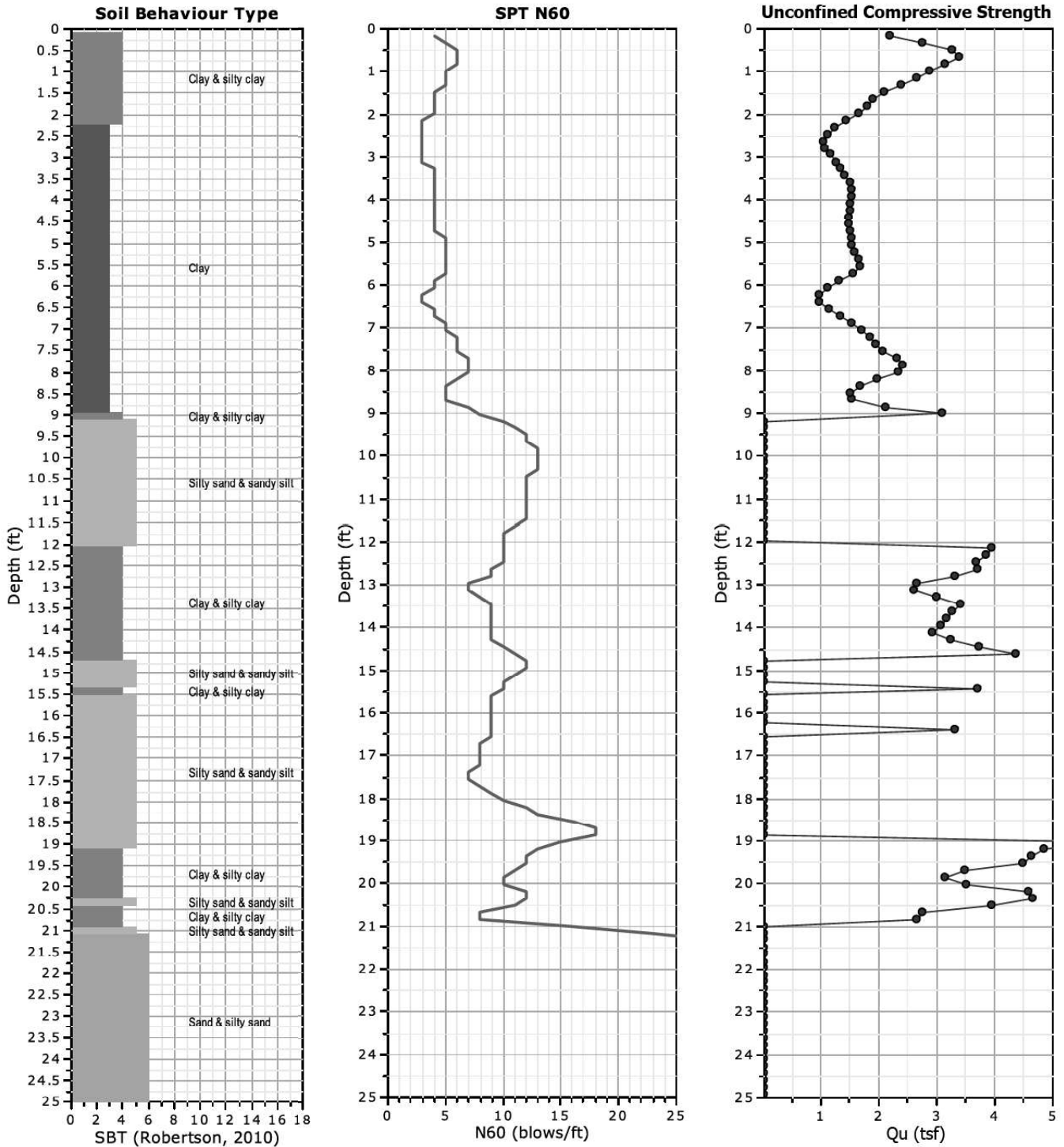
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SCI Engineering, Inc.
650 Pierce Boulevard, O'Fallon, Illinois 62269
Geotechnical Services
www.sciengineering.com

Project: PTB 195, Item 57 Realignment of IL-162 at IL-157 : SCI No. 2020-0531.10
Location: Madison County, IL

IL 162 @ IL 157: SE CORNER
CPT: B-11
Total depth: 25.10 ft, Date: 1/17/2022
Surface Elevation: 445.00 ft
Coords: lat 38.740578 lon -90.001460
STA: 19+72 Offset: 57' RT
SEC: 4 TWP: 3N RNG: 8W



CPeT-IT v.2.1.1.8 - CPTU data presentation & interpretation software - Report created on: 4/12/2022, 11:54:57 PM
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4

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USER NAME : alex.huelskamp
MODEL NAME : TS 12
PLOT SCALE : 40,0000" / in.
PLOT DATE : 3/5/2024

DESIGNED - ESW
DRAWN - LEC
CHECKED - BRM
DATE - 10/8/2021

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS

SCALE: 1"=20' SHEET 12 OF 13 SHEETS SOIL BORINGS B-10 & B-11

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	141
CONTRACT NO. 76A46				

*586/592

Project: PTB 195, Item 57 Realignment of IL-162 at IL-157 : SCI No. 2020-0531.10
Location: Madison County, IL

Total depth: 25.10 ft, Date: 1/17/2022
Surface Elevation: 450.00 ft
Coords: lat 38.743075 lon -90.003060
STA: 592+47 Offset: 91' LT
SEC: 4 TWP: 3N RNG: 8W



5

Project: PTB 195, Item 57 Realignment of IL-162 at IL-157 : SCI No. 2020-0531.10
Location: Madison County, IL

Total depth: 25.10 ft, Date: 1/17/2022
Surface Elevation: 453.00 ft
Coords: lat 38.743498 lon -90.002774
STA: 593+72 Offset: 30' RT
SEC: 4 TWP: 3N RNG: 8W



1

USER NAME	alex.huetskamp	DESIGNED	ESW	REVISED	
MODEL NAME	TS 13	DRAWN	LEC	REVISED	
PLOT SCALE	40,0000" / in.	CHECKED	BRM	REVISED	
PLOT DATE	3/5/2024	DATE	10/8/2021	REVISED	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SOIL BORING LOGS

SOIL BORING LOGS					F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
					*	51-1R	MADISON	296	142
					CONTRACT NO. 76A46				
SCALE: 1"=20'	SHEET 13 OF 13 SHEETS	SOIL BORINGS B-22 & B-23							

Benchmark: Cut "□", with +, on top of parapet wall at Northwest corner of IL-157 Bridge over Judys Branch (S.N. 060-0087). Elev. 449.226.

Existing Structure: S.N. 060-0087 was originally built in 1933 under Section 117-B to carry F.A.P. Rte. 592 over Judys Branch. A deck replacement was completed in 1982 under Section 117BR-2 to replace the original deck, in addition to also replacing the expansion joints and deck drains. The existing superstructure consists of a 7½" thick composite reinforced concrete deck supported by steel W-shape beams. The substructure consists of reinforced concrete abutments supported by concrete piles and reinforced concrete pier bents, supported by concrete piles. Fixed bearings are located at the abutments and expansion bearings are located at the piers. The existing slopewalls consist of bare earth. The existing structure has a total length of 121'-2¾" bk. to bk. of abutments and a total width of 47'-6" out to out of deck. The bridge will be closed during construction.

No Salvage

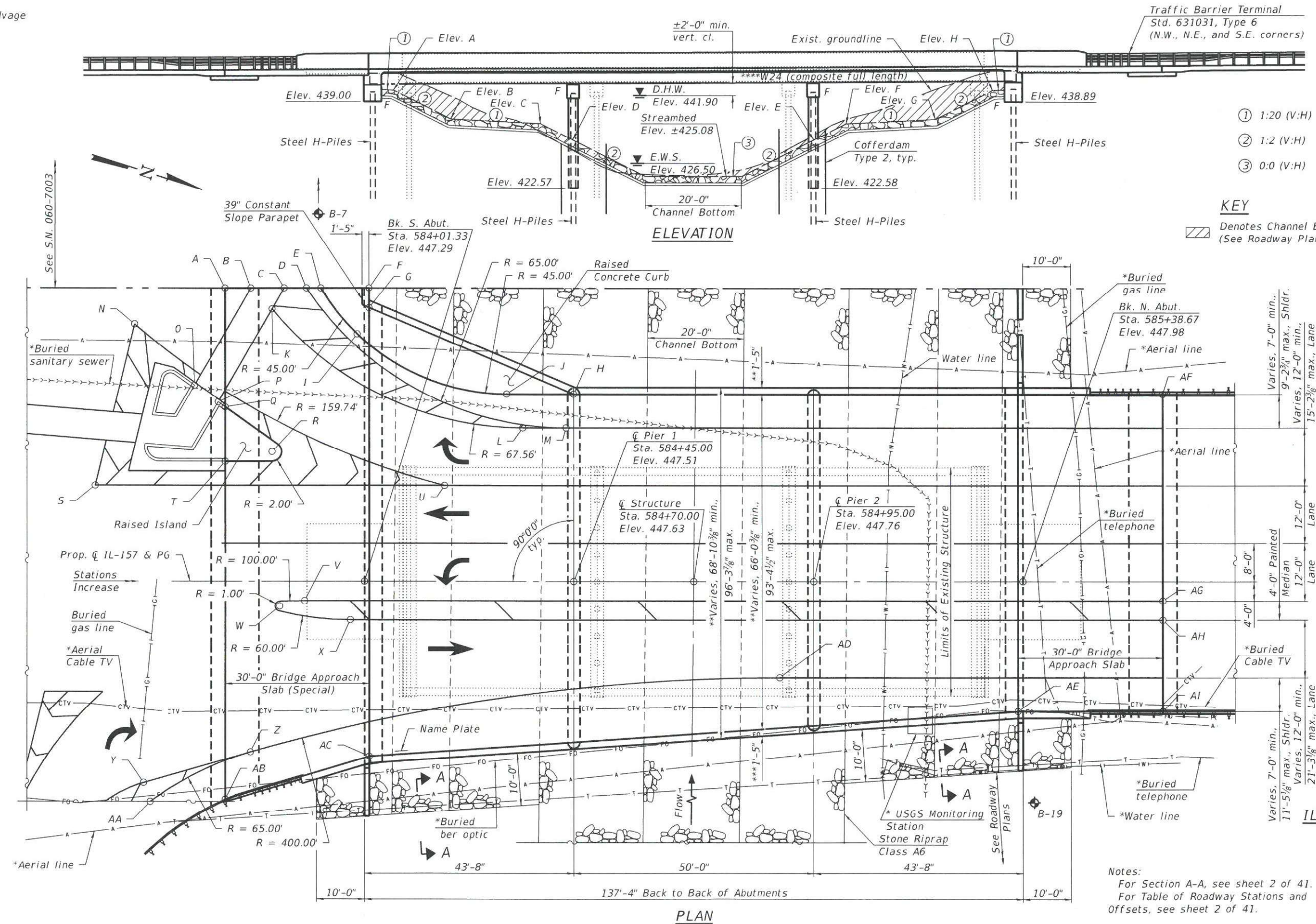


TABLE OF ELEVATIONS

Elev. A	±440.77
Elev. B	±436.67
Elev. C	±436.00
Elev. D	±432.58
Elev. E	±432.58
Elev. F	±436.00
Elev. G	±436.67
Elev. H	±441.42

- ① 1:20 (V:H)
② 1:2 (V:H)
③ 0:0 (V:H)

KEY

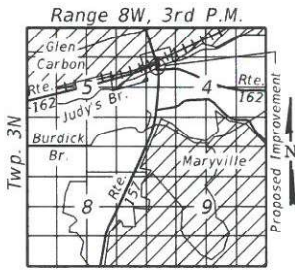
Denotes Channel Excavation (See Roadway Plans)

- * To be relocated
** Perpendicular to C IL-157
*** Perpendicular to E. Edge of Deck
**** Beams 1c thru 10
W18 x 130 for Beams 1a and 1b

APPROVED
For Structural Adequacy Only
Eric Lagemann
Engineer of Bridges & Structures



Eric Lagemann 4/17/24
License Expires 11/30/24 Date



GENERAL PLAN & ELEVATION
IL RTE. 157 OVER JUDYS BRANCH
F.A.P. ROUTE 586
SECTION 51-1R
MADISON COUNTY
STATION 584+70.00
STRUCTURE NO. 060-0229

Notes:
For Section A-A, see sheet 2 of 41.
For Table of Roadway Stations and Offsets, see sheet 2 of 41.

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3/5/2024 8:18:27 AM

FUHRMANN
ENGINEERING
WWW.FUHRMANN-ENG.COM

USER NAME	DESIGNED - T.S. Friederich	REVISED -
PLOT SCALE	CHECKED - E.M. Lagemann	REVISED -
PLOT DATE	DRAWN - T.S. Friederich	REVISED -
	CHECKED - E.M. Lagemann	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET 1 OF 41 SHEETS

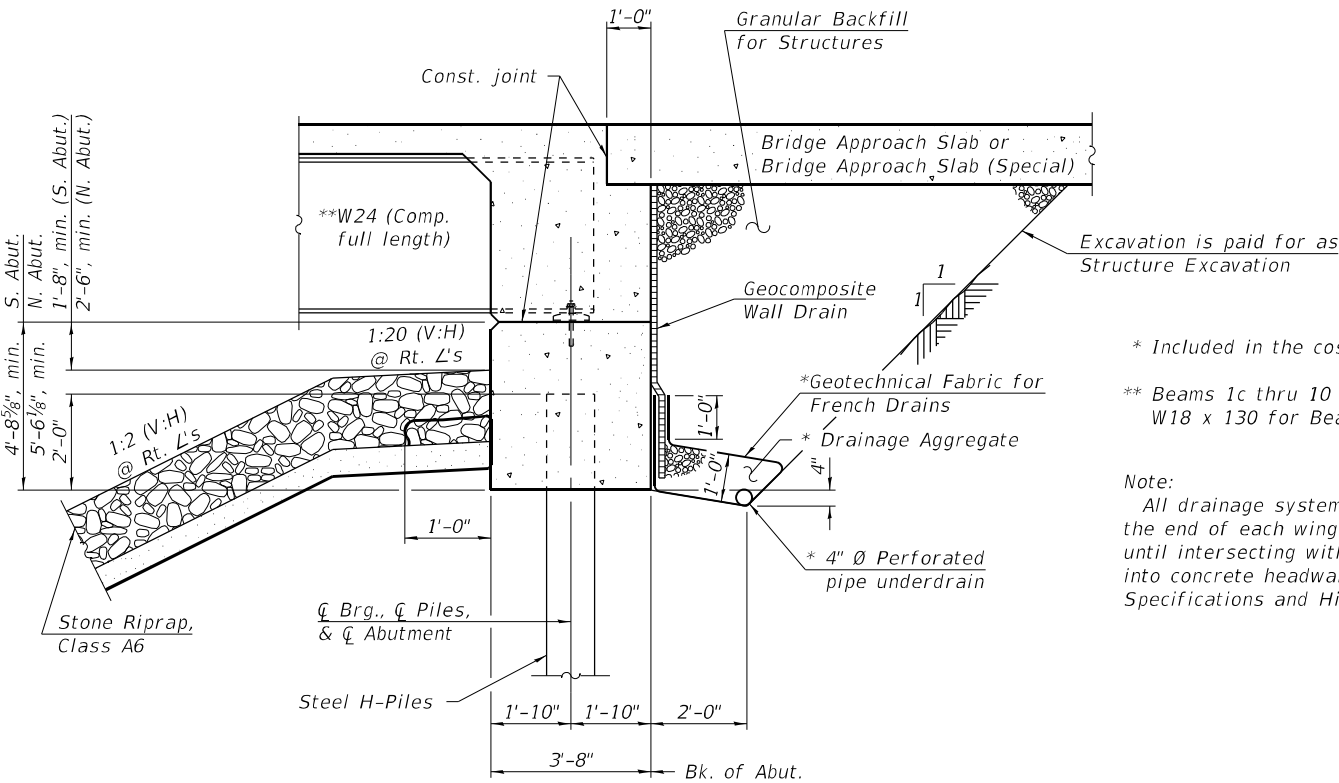
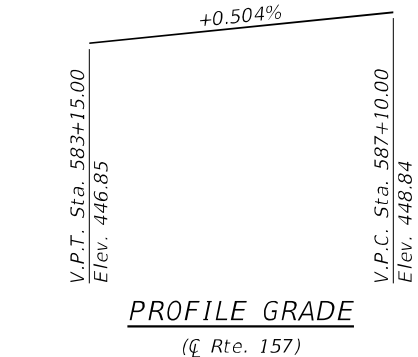
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
51-1R	51-1R	MADISON	296	143
			CONTRACT NO. 76A46	

ILLINOIS FED. AID PROJECT

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3/5/2024 10:34:53 AM

GENERAL NOTES

Except as otherwise specified, fasteners shall be ASTM F 3125 Grade A325 Type 1, mechanically galvanized bolts in painted areas. Bolts $\frac{3}{4}$ in. diameter, holes $1\frac{1}{8}$ in. diameter, unless otherwise noted.
Calculated weight of Structural Steel = 570 lbs. AASHTO M 270 Grade 70W.
Calculated weight of Structural Steel = 230,370 lbs. AASHTO M 270 Grade 50.
Calculated weight of Structural Steel = 20,310 lbs. AASHTO M 270 Grade 36.
No field welding is permitted except as specified in the contract documents.
Reinforcement bars designated (E) shall be epoxy coated.
The finishing machine rails shall be placed on the top of the top flange of the exterior beams within the deck pour. Beam blocks shall be placed between beams at all tie locations in each bay for the full width of the deck pour.
Slipforming of the parapets is not allowed.
Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of $\frac{1}{8}$ in. (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.
Granular Backfill behind the abutments shall be compacted according to Article 205.06 of the Standard Specifications.
Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to address the presence of lead on this project.
The Inorganic Zinc Rich Primer / Acrylic / Acrylic Paint System shall be used for shop and field painting of new structural steel except where otherwise noted.
The color of the final finish coat shall be gray, Munsell No 5B 7/1.



SECTION THRU INTEGRAL ABUTMENT

WATERWAY INFORMATION

Drainage Area = 8.6 sq. mi.		Existing Overtopping Elev. = 445.83 at Sta. 582+50.00 Proposed Overtopping Elev. = 446.42 at Sta. 581+42.36							
Flood Event	Freq. Yr.	Discharge, 0 C.F.S.	Waterway Opening - Ft ²		Natural H.W.E. - Ft.	Head - Ft.		Headwater Elevation - Ft.	
			Existing	Proposed		Existing	Proposed	Existing	Proposed
Design	50	5750	883	1146	441.9	0.5	0.3	442.4	442.2
Base	100	6590	941	1214	442.4	1.5	0.4	443.9	442.8
Scour Design Check	200	7600	987	1287	443.0	1.3	0.6	444.3	443.7
Overtop Existing	N/A	---	---	---	---	---	---	---	---
Overtop Proposed	N/A	---	---	---	---	---	---	---	---
Max. Calc.	500	8920	998	1367	443.7	1.3	1.6	445.0	445.3

10 Year Velocity Through Existing Bridge = 5.43 ft/s
10 Year Velocity Through Proposed Bridge = 4.46 ft/s

 WWW.FUHRMANN-ENG.COM	USER NAME = _____	DESIGNED - T.S. Friederich	REVISED - _____
	CHECKED - E.M. Lagemann	REVIS	ED - _____
	PLOT SCALE = _____	DRAWN - T.S. Friederich	REVISED - _____
	PLOT DATE = _____	CHECKED - E.M. Lagemann	REVISED - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DATA
STRUCTURE NO. 060-0229

SHEET 2 OF 41 SHEETS

INDEX OF SHEETS

1. General Plan and Elevation
2. General Data
3. Cofferdam Details
4. - 7. Top of Slab Elevations
8. Top of South Bridge Approach Slab Elevations
9. Top of North Bridge Approach Slab Elevations
10. - 15. Superstructure Details
16. - 17. South Abutment Diaphragm Details
18. North Abutment Diaphragm Details
19. - 23. South Bridge Approach Slab
24. - 25. North Bridge Approach Slab
26. Framing Plan
27. - 30. Beam Details
31. - 32. South Abutment Details
33. North Abutment Details
34. Pier 1
35. Pier 2
36. Pier Details
37. Steel H-Pile Details
38. Bar Splicer Assembly
39. - 41. Boring Logs

TABLE OF ROADWAY
STATIONS AND OFFSETS

Point	Station	0 set
A	583+72.33	61.03' Lt.
B	583+77.70	61.03' Lt.
C	583+84.65	61.03' Lt.
D	583+89.28	61.03' Lt.
E	583+92.29	61.03' Lt.
F	584+02.33	61.03' Lt.
G	584+02.33	56.94' Lt.
H	584+45.00	39.00' Lt.
I	583+99.90	51.44' Lt.
J	584+30.97	39.00' Lt.
K	583+82.12	56.69' Lt.
L	584+34.33	32.00' Lt.
M	584+43.42	32.00' Lt.
N	583+53.44	53.52' Lt.
O	583+65.92	40.83' Lt.
P	583+70.85	37.36' Lt.
Q	583+72.33	36.32' Lt.
R	583+82.07	27.00' Lt.
S	583+45.20	20.00' Lt.
T	583+72.33	25.00' Lt.
U	584+18.02	20.00' Lt.
V	583+88.86	4.00' Rt.
W	583+83.66	5.14' Rt.
X	583+98.38	8.00' Rt.
Y	583+55.28	41.92' Rt.
Z	583+77.55	35.52' Rt.
AA	583+56.66	45.87' Rt.
AB	583+72.33	45.37' Rt.
AC	584+02.33	36.43' Rt.
AD	584+87.90	20.00' Rt.
AE	585+37.67	27.03' Rt.
AF	585+67.67	39.00' Lt.
AG	585+67.67	4.00' Rt.
AH	585+67.67	8.00' Rt.
AI	585+67.67	27.00' Rt.

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge
Design Specifications, 9th Edition

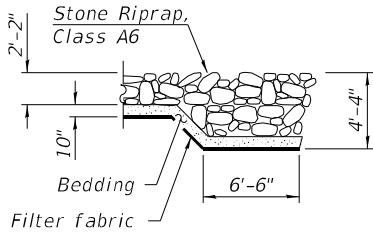
DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi
f'c = 4,000 psi (Superstructure)
fy = 60,000 psi (Reinforcement)
fy = 50,000 psi (M270 Grade 50)
fy = 70,000 psi (M270 Grade 70W)
All structural steel shall be painted.

SEISMIC DATA

Seismic Performance Zone (SPZ) = 2
Design Spectral Acceleration at 1.0 sec. (SD1) = 0.23g
Design Spectral Acceleration at 0.2 sec. (SDS) = 0.53g
Soil Site Class = D



SECTION A-A

DESIGN SCOUR ELEVATION TABLE

Event / Limit	Design Scour Elevations (ft.)				Item 113
	S. Abut.	Pier 1	Pier 2	N. Abut.	
State					
Q100	439.00	414.80	414.80	438.89	5
Q200	439.00	413.93	413.93	438.89	
Design	439.00	414.80	414.80	438.89	
Check	439.00	413.93	413.93	438.89	

STA. 584+70.00
BUILT 202X BY
STATE OF ILLINOIS
F.A.P. Rt. 586 Sec. 51-1R
LOADING HL-93
STR. NO. 060-0229

NAME PLATE

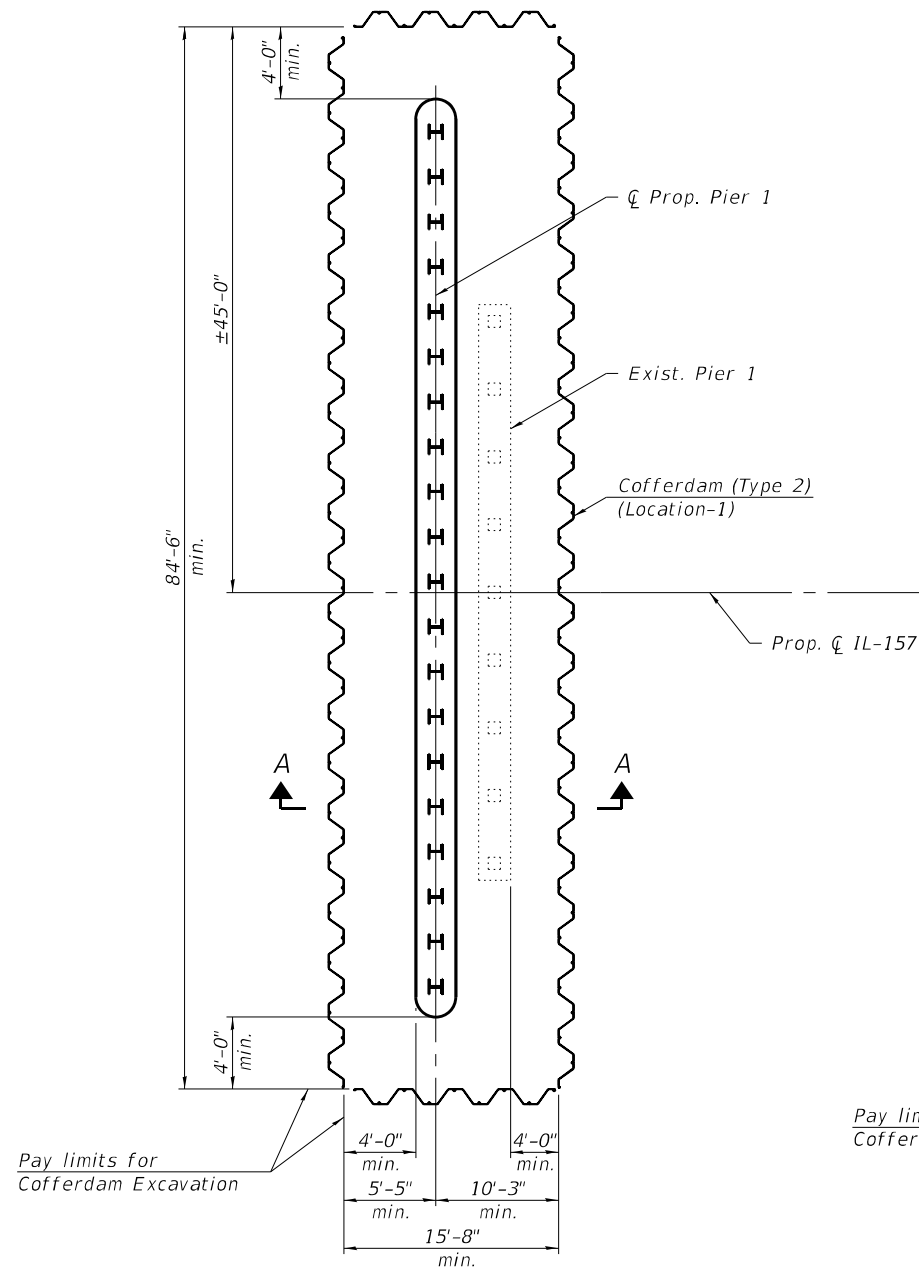
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Note:
For Location of Section A-A, see sheet 1 of 41.

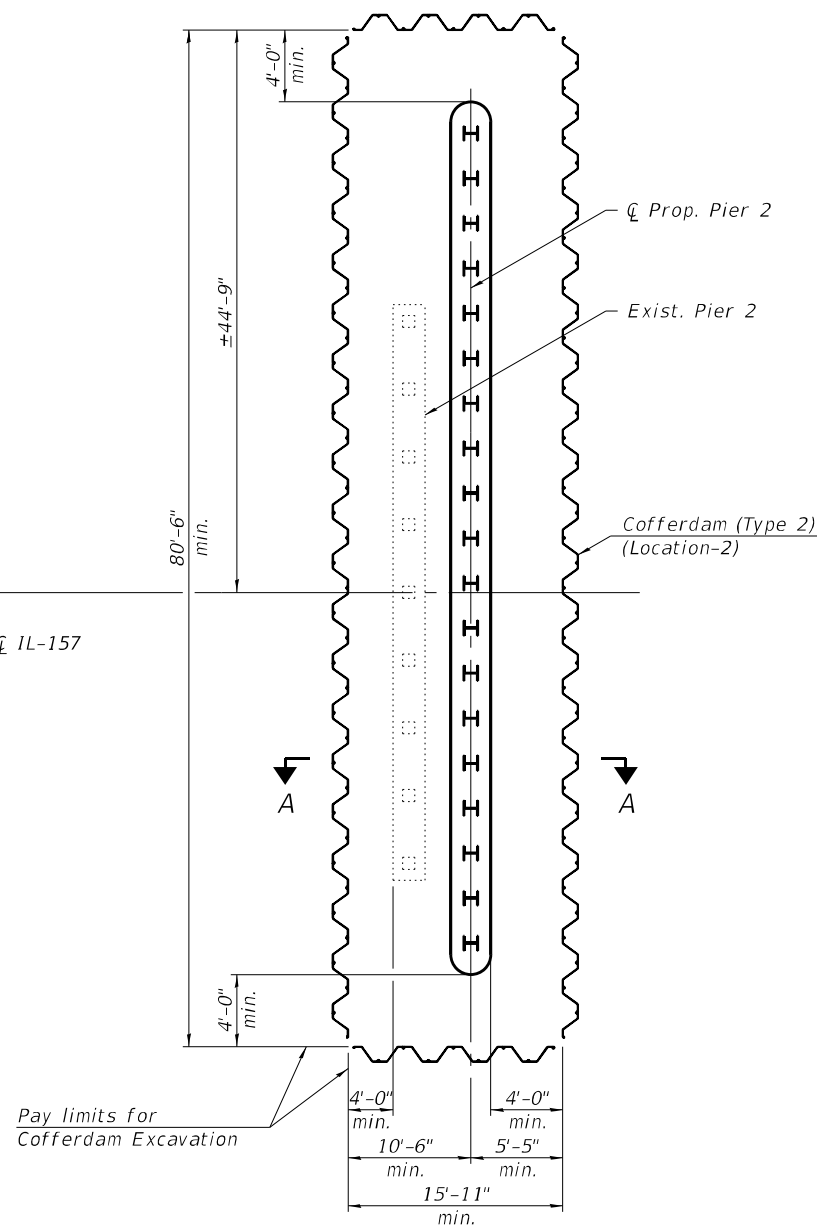
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CONTRACT NO. 76A46				
ILLINOIS			FED. AID PROJECT	

*588/592

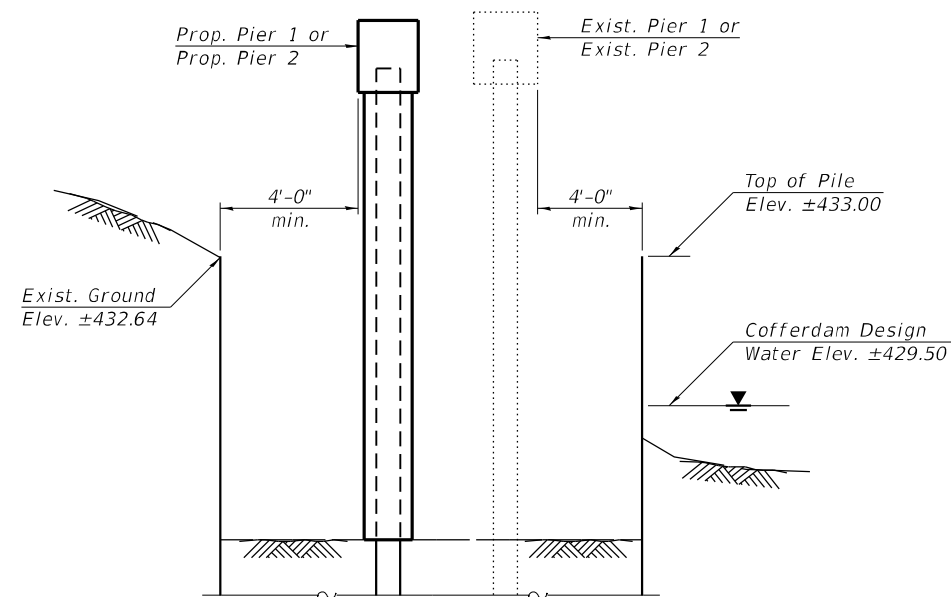
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3/5/2024 8:22:52 AM



COFFERDAM PLAN - PIER 1



COFFERDAM PLAN - PIER 2



SECTION A-A

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3/5/2024 8:30:31 AM

INSIDE FACE W. PARAPET - SPAN 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	584+01.33	-57.36	446.94	446.94
⌀ Brg. S. Abut.	584+03.16	-56.59	446.94	446.94
A	584+12.38	-52.72	446.92	447.02
B	584+21.60	-48.84	446.91	447.06
C	584+30.82	-44.96	446.90	447.03
Ca	584+40.04	-41.09	446.89	446.95
⌀ Pier 1	584+45.00	-39.00	446.89	446.89

BEAM 1a

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	584+01.33	-55.56	446.85	446.85
⌀ Brg. S. Abut.	584+03.16	-54.78	446.86	446.86
A	584+12.38	-50.91	446.87	446.97
B	584+21.60	-47.03	446.88	447.03
C	584+30.82	-43.15	446.90	447.03
Ca	584+40.04	-39.28	446.91	446.96
Beam 1a Conn. Pt.	584+44.66	-37.33	446.92	446.92

INSIDE FACE OF CURB

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	584+01.33	-50.14	446.60	446.60
⌀ Brg. S. Abut.	584+03.16	-48.62	446.62	446.62
A	584+11.64	-43.36	446.66	446.68
B	584+21.08	-40.10	446.72	446.77
P.O.C.	584+30.97	-39.00	446.81	446.83
⌀ Pier 1	584+45.00	-39.00	446.89	446.89

BEAM 1b

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	584+01.33	-46.88	446.63	446.63
⌀ Brg. S. Abut.	584+03.16	-46.11	446.64	446.64
A	584+12.38	-42.23	446.67	446.69
Beam 1b Conn. Pt.	584+24.02	-37.33	446.80	446.82

INSIDE FACE W. PARAPET - SPANS 2 & 3
& WEST CONSTRUCTION JOINT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	584+01.33	-39.00	446.71	446.71
⌀ Brg. S. Abut.	584+03.16	-39.00	446.72	446.72
A	584+13.16	-39.00	446.73	446.74
B	584+23.16	-39.00	446.76	446.78
C	584+33.16	-39.00	446.83	446.84
⌀ Pier 1	584+45.00	-39.00	446.89	446.89
D	584+55.00	-39.00	446.94	446.95
E	584+65.00	-39.00	446.99	447.01
F	584+75.00	-39.00	447.04	447.06
G	584+85.00	-39.00	447.09	447.10
⌀ Pier 2	584+95.00	-39.00	447.14	447.14
H	585+05.00	-39.00	447.19	447.20
I	585+15.00	-39.00	447.24	447.26
J	585+25.00	-39.00	447.29	447.31
⌀ Brg. N. Abut.	585+36.84	-39.00	447.35	447.35
Bk. N. Abut.	585+38.67	-39.00	447.36	447.36

WEST CROSS-SLOPE CHANGE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	584+01.33	-32.00	446.81	446.81
⌀ Brg. S. Abut.	584+03.16	-32.00	446.81	446.81
A	584+13.16	-32.00	446.86	446.88
B	584+23.16	-32.00	446.92	446.93
C	584+33.16	-32.00	446.97	446.98
⌀ Pier 1	584+45.00	-32.00	447.03	447.03
D	584+55.00	-32.00	447.08	447.08
E	584+65.00	-32.00	447.13	447.14
F	584+75.00	-32.00	447.18	447.19
G	584+85.00	-32.00	447.23	447.23
⌀ Pier 2	584+95.00	-32.00	447.28	447.28
H	585+05.00	-32.00	447.33	447.34
I	585+15.00	-32.00	447.38	447.40
J	585+25.00	-32.00	447.43	447.45
⌀ Brg. N. Abut.	585+36.84	-32.00	447.49	447.49
Bk. N. Abut.	585+38.67	-32.00	447.50	447.50

BEAM 1c

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	584+01.33	-37.33	446.73	446.73
⌀ Brg. S. Abut.	584+03.16	-37.33	446.74	446.74
A	584+13.16	-37.33	446.76	446.77
B	584+23.16	-37.33	446.80	446.82
Beam 1b Conn. Pt.	584+24.02	-37.33	446.80	446.82
C	584+33.16	-37.33	446.86	446.87
Beam 1a Conn. Pt.	584+44.66	-37.33	446.92	446.92
⌀ Pier 1	584+45.00	-37.33	446.92	446.92
D	584+55.00	-37.33	446.97	446.98
E	584+65.00	-37.33	447.02	447.04
F	584+75.00	-37.33	447.07	447.09
G	584+85.00	-37.33	447.12	447.13
⌀ Pier 2	584+95.00	-37.33	447.17	447.17
H	585+05.00	-37.33	447.22	447.23
I	585+15.00	-37.33	447.27	447.30
J	585+25.00	-37.33	447.32	447.35
⌀ Brg. N. Abut.	585+36.84	-37.33	447.38	447.38
Bk. N. Abut.	585+38.67	-37.33	447.39	447.39

BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	584+01.33	-30.00	446.84	446.84
⌀ Brg. S. Abut.	584+03.16	-30.00	446.84	446.84
A	584+13.16	-30.00	446.89	446.91
B	584+23.16	-30.00	446.95	446.96
C	584+33.16	-30.00	447.00	447.01
⌀ Pier 1	584+45.00	-30.00	447.06	447.06
D	584+55.00	-30.00	447.11	447.11
E	584+65.00	-30.00	447.16	447.17
F	584+75.00	-30.00	447.21	447.22
G	584+85.00	-30.00	447.26	447.26
⌀ Pier 2	584+95.00	-30.00	447.31	447.31
H	585+05.00	-30.00	447.36	447.37
I	585+15.00	-30.00	447.41	447.43
J	585+25.00	-30.00	447.46	447.48
⌀ Brg. N. Abut.	585+36.84	-30.00	447.52	447.52
Bk. N. Abut.	585+38.67	-30.00	447.53	447.53

MODEL: Default
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BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	584+01.33	-22.67	446.95	446.95
⌀ Brg. S. Abut.	584+03.16	-22.67	446.95	446.95
A	584+13.16	-22.67	447.00	447.02
B	584+23.16	-22.67	447.06	447.07
C	584+33.16	-22.67	447.11	447.12
⌀ Pier 1	584+45.00	-22.67	447.17	447.17
D	584+55.00	-22.67	447.22	447.22
E	584+65.00	-22.67	447.27	447.29
F	584+75.00	-22.67	447.32	447.34
G	584+85.00	-22.67	447.37	447.38
⌀ Pier 2	584+95.00	-22.67	447.42	447.42
H	585+05.00	-22.67	447.47	447.48
I	585+15.00	-22.67	447.52	447.54
J	585+25.00	-22.67	447.57	447.59
⌀ Brg. N. Abut.	585+36.84	-22.67	447.63	447.63
Bk. N. Abut.	585+38.67	-22.67	447.64	447.64

BEAM 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	584+01.33	-15.33	447.06	447.06
⌀ Brg. S. Abut.	584+03.16	-15.33	447.06	447.06
A	584+13.16	-15.33	447.11	447.13
B	584+23.16	-15.33	447.17	447.18
C	584+33.16	-15.33	447.22	447.23
⌀ Pier 1	584+45.00	-15.33	447.28	447.28
D	584+55.00	-15.33	447.33	447.33
E	584+65.00	-15.33	447.38	447.39
F	584+75.00	-15.33	447.43	447.44
G	584+85.00	-15.33	447.48	447.48
⌀ Pier 2	584+95.00	-15.33	447.53	447.53
H	585+05.00	-15.33	447.58	447.59
I	585+15.00	-15.33	447.63	447.65
J	585+25.00	-15.33	447.68	447.70
⌀ Brg. N. Abut.	585+36.84	-15.33	447.74	447.74
Bk. N. Abut.	585+38.67	-15.33	447.75	447.75

BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	584+01.33	-8.00	447.17	447.17
⌀ Brg. S. Abut.	584+03.16	-8.00	447.17	447.17
A	584+13.16	-8.00	447.22	447.24
B	584+23.16	-8.00	447.28	447.29
C	584+33.16	-8.00	447.33	447.34
⌀ Pier 1	584+45.00	-8.00	447.39	447.39
D	584+55.00	-8.00	447.44	447.44
E	584+65.00	-8.00	447.49	447.50
F	584+75.00	-8.00	447.54	447.55
G	584+85.00	-8.00	447.59	447.59
⌀ Pier 2	584+95.00	-8.00	447.64	447.64
H	585+05.00	-8.00	447.69	447.70
I	585+15.00	-8.00	447.74	447.76
J	585+25.00	-8.00	447.79	447.81
⌀ Brg. N. Abut.	585+36.84	-8.00	447.85	447.85
Bk. N. Abut.	585+38.67	-8.00	447.86	447.86

BEAM 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	584+01.33	-0.67	447.28	447.28
⌀ Brg. S. Abut.	584+03.16	-0.67	447.28	447.28
A	584+13.16	-0.67	447.33	447.35
B	584+23.16	-0.67	447.39	447.40
C	584+33.16	-0.67	447.44	447.45
⌀ Pier 1	584+45.00	-0.67	447.50	447.50
D	584+55.00	-0.67	447.55	447.55
E	584+65.00	-0.67	447.60	447.61
F	584+75.00	-0.67	447.65	447.66
G	584+85.00	-0.67	447.70	447.70
⌀ Pier 2	584+95.00	-0.67	447.75	447.75
H	585+05.00	-0.67	447.80	447.81
I	585+15.00	-0.67	447.85	447.87
J	585+25.00	-0.67	447.90	447.92
⌀ Brg. N. Abut.	585+36.84	-0.67	447.96	447.96
Bk. N. Abut.	585+38.67	-0.67	447.97	447.97

PROP. ⌀ IL-157 & PROFILE GRADE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	584+01.33	0.00	447.29	447.29
⌀ Brg. S. Abut.	584+03.16	0.00	447.29	447.29
A	584+13.16	0.00	447.34	447.36
B	584+23.16	0.00	447.40	447.41
C	584+33.16	0.00	447.45	447.46
⌀ Pier 1	584+45.00	0.00	447.51	447.51
D	584+55.00	0.00	447.56	447.56
E	584+65.00	0.00	447.61	447.62
F	584+75.00	0.00	447.66	447.67
G	584+85.00	0.00	447.71	447.71
⌀ Pier 2	584+95.00	0.00	447.76	447.76
H	585+05.00	0.00	447.81	447.82
I	585+15.00	0.00	447.86	447.88
J	585+25.00	0.00	447.91	447.93
⌀ Brg. N. Abut.	585+36.84	0.00	447.97	447.97
Bk. N. Abut.	585+38.67	0.00	447.98	447.98

BEAM 7

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	584+01.33	6.67	447.19	447.19
⌀ Brg. S. Abut.	584+03.16	6.67	447.19	447.19
A	584+13.16	6.67	447.24	447.26
B	584+23.16	6.67	447.30	447.31
C	584+33.16	6.67	447.35	447.36
⌀ Pier 1	584+45.00	6.67	447.41	447.41
D	584+55.00	6.67	447.46	447.46
E	584+65.00	6.67	447.51	447.52
F	584+75.00	6.67	447.56	447.57
G	584+85.00	6.67	447.61	447.61
⌀ Pier 2	584+95.00	6.67	447.66	447.66
H	585+05.00	6.67	447.71	447.72
I	585+15.00	6.67	447.76	447.78
J	585+25.00	6.67	447.81	447.83
⌀ Brg. N. Abut.	585+36.84	6.67	447.87	447.87
Bk. N. Abut.	585+38.67	6.67	447.88	447.88

MODEL: Default
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3/5/2024 8:37:59 AM

EAST CONSTRUCTION JOINT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	584+01.33	10.33	447.13	447.13
☒ Brg. S. Abut.	584+03.16	10.33	447.14	447.14
A	584+13.16	10.33	447.19	447.21
B	584+23.16	10.33	447.24	447.26
C	584+33.16	10.33	447.29	447.30
☒ Pier 1	584+45.00	10.33	447.35	447.35
D	584+55.00	10.33	447.40	447.41
E	584+65.00	10.33	447.45	447.47
F	584+75.00	10.33	447.50	447.52
G	584+85.00	10.33	447.55	447.56
☒ Pier 2	584+95.00	10.33	447.60	447.60
H	585+05.00	10.33	447.65	447.66
I	585+15.00	10.33	447.70	447.72
J	585+25.00	10.33	447.75	447.77
☒ Brg. N. Abut.	585+36.84	10.33	447.81	447.81
Bk. N. Abut.	585+38.67	10.33	447.82	447.82

BEAM 8

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	584+01.33	16.05	447.04	447.04
☒ Brg. S. Abut.	584+03.16	16.01	447.05	447.05
A	584+13.16	15.78	447.11	447.13
B	584+23.16	15.55	447.16	447.19
C	584+33.16	15.32	447.22	447.23
☒ Pier 1	584+45.00	15.04	447.28	447.28
D	584+55.00	14.81	447.33	447.34
E	584+64.99	14.58	447.39	447.40
F	584+74.99	14.35	447.44	447.46
G	584+84.99	14.12	447.49	447.50
☒ Pier 2	584+95.00	13.89	447.55	447.55
H	585+05.00	13.65	447.60	447.61
I	585+14.99	13.42	447.66	447.67
J	585+24.99	13.19	447.71	447.72
☒ Brg. N. Abut.	585+36.84	12.92	447.77	447.77
Bk. N. Abut.	585+38.67	12.88	447.78	447.78

EAST CROSS-SLOPE CHANGE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	584+01.33	20.00	446.99	446.99
☒ Brg. S. Abut.	584+03.16	20.00	446.99	446.99
A	584+13.16	20.00	447.04	447.06
B	584+23.16	20.00	447.10	447.12
C	584+33.16	20.00	447.15	447.16
☒ Pier 1	584+45.00	20.00	447.21	447.21
D	584+55.00	20.00	447.26	447.26
E	584+65.00	20.00	447.31	447.32
F	584+75.00	20.00	447.36	447.37
G	584+85.00	20.00	447.41	447.42
☒ Pier 2	584+95.00	20.00	447.46	447.46
H	585+05.00	20.00	447.51	447.52
I	585+15.00	20.00	447.56	447.57
J	585+25.00	20.00	447.61	447.62
☒ Brg. N. Abut.	585+36.84	20.00	447.67	447.67
Bk. N. Abut.	585+38.67	20.00	447.68	447.68

BEAM 9

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	584+01.33	25.44	446.88	446.88
☒ Brg. S. Abut.	584+03.16	25.35	446.89	446.89
A	584+13.15	24.89	446.95	446.97
B	584+23.14	24.43	447.01	447.03
C	584+33.13	23.97	447.07	447.08
☒ Pier 1	584+45.00	23.42	447.14	447.14
D	584+54.99	22.96	447.20	447.20
E	584+64.98	22.49	447.26	447.27
F	584+74.97	22.03	447.32	447.33
G	584+84.96	21.57	447.38	447.38
☒ Pier 2	584+95.00	21.10	447.44	447.44
H	585+04.99	20.64	447.49	447.50
I	585+14.98	20.18	447.55	447.57
J	585+24.97	19.72	447.61	447.63
☒ Brg. N. Abut.	585+36.84	19.17	447.68	447.68
Bk. N. Abut.	585+38.67	19.08	447.69	447.69

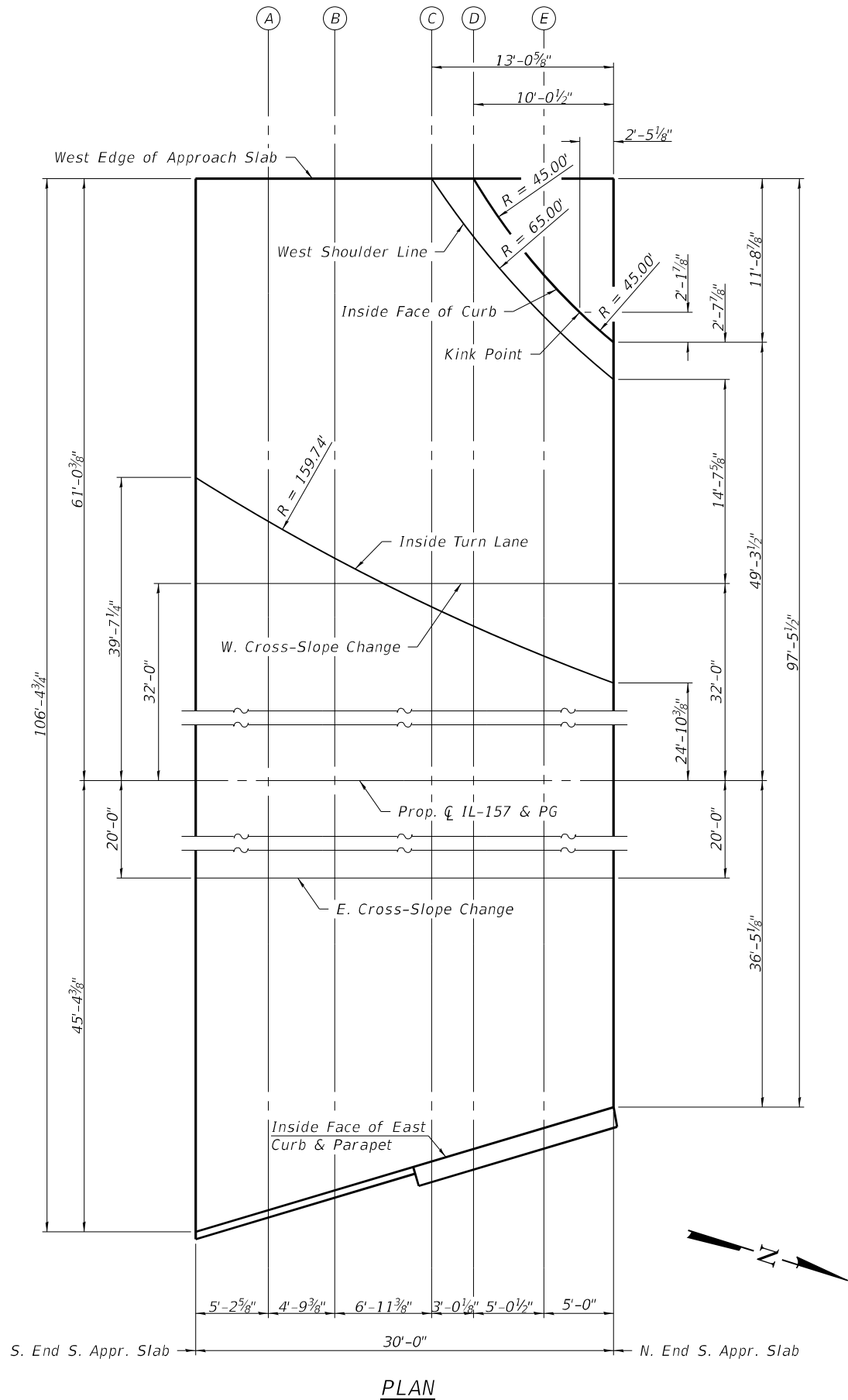
BEAM 10

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	584+01.33	34.83	446.69	446.69
☒ Brg. S. Abut.	584+03.16	34.70	446.70	446.70
A	584+13.14	34.01	446.76	446.78
B	584+23.12	33.32	446.83	446.85
C	584+33.09	32.62	446.89	446.91
☒ Pier 1	584+45.00	31.80	446.97	446.97
D	584+54.98	31.10	447.03	447.04
E	584+64.95	30.41	447.10	447.12
F	584+74.93	29.72	447.16	447.18
G	584+84.90	29.02	447.23	447.24
☒ Pier 2	584+95.00	28.32	447.29	447.29
H	585+04.98	27.63	447.35	447.36
I	585+14.95	26.94	447.42	447.44
J	585+24.93	26.24	447.48	447.50
☒ Brg. N. Abut.	585+36.84	25.42	447.56	447.56
Bk. N. Abut.	585+38.67	25.29	447.57	447.57

INSIDE FACE EAST PARAPET

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	584+01.33	36.73	446.65	446.65
☒ Brg. S. Abut.	584+03.16	36.37	446.67	446.67
A	584+13.14	35.68	446.73	446.75
B	584+23.12	34.99	446.80	446.82
C	584+33.09	34.29	446.86	446.87
☒ Pier 1	584+45.00	33.47	446.94	446.94
D	584+54.98	32.77	447.00	447.01
E	584+64.95	32.08	447.06	447.08
F	584+74.93	31.39	447.13	447.15
G	584+84.90	30.69	447.19	447.20
☒ Pier 2	584+95.00	29.99	447.26	447.26
H	585+04.98	29.30	447.32	447.33
I	585+14.95	28.61	447.39	447.41
J	585+24.93	27.91	447.45	447.47
☒ Brg. N. Abut.	585+36.84	27.09	447.53	447.53
Bk. N. Abut.	585+38.67	27.03	447.54	447.54

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3/5/2024 8:41:12 AM



PLAN

WEST EDGE OF APPROACH SLAB

Location	Station	Offset	Theoretical Grade Elevations
S. End S. Appr. Slab	583+72.33	-61.03	446.53
A	583+77.55	-61.03	446.55
B	583+82.33	-61.03	446.57
C	583+89.28	-61.03	446.59
D	583+92.29	-61.03	446.55
E	583+97.33	-61.03	446.85
N. End S. Appr. Slab	584+02.33	-61.03	447.14

INSIDE FACE OF CURB

Location	Station	Offset	Theoretical Grade Elevations
D	583+92.29	-61.03	446.55
E	583+97.33	-54.12	446.57
N. End S. Appr. Slab	584+02.33	-49.29	446.61

WEST SHOULDER LINE

Location	Station	Offset	Theoretical Grade Elevations
C	583+89.28	-61.03	446.59
D	583+92.29	-56.87	446.60
E	583+97.33	-51.17	446.61
N. End S. Appr. Slab	584+02.33	-46.63	446.63

INSIDE TURN LANE

Location	Station	Offset	Theoretical Grade Elevations
S. End S. Appr. Slab	583+72.33	-39.60	446.59
A	583+77.55	-36.46	446.66
B	583+82.33	-33.81	446.70
C	583+89.28	-30.32	446.77
D	583+92.29	-28.94	446.81
E	583+97.33	-26.79	446.86
N. End S. Appr. Slab	584+02.33	-24.86	446.92

WEST CROSS-SLOPE CHANGE

Location	Station	Offset	Theoretical Grade Elevations
S. End S. Appr. Slab	583+72.33	-32.00	446.66
A	583+77.55	-32.00	446.69
B	583+82.33	-32.00	446.71
C	583+89.28	-32.00	446.74
D	583+92.29	-32.00	446.76
E	583+97.33	-32.00	446.78
N. End S. Appr. Slab	584+02.33	-32.00	446.81

PROPOSED CL IL-157 & PROFILE GRADE

Location	Station	Offset	Theoretical Grade Elevations
S. End S. Appr. Slab	583+72.33	0.00	447.14
A	583+77.55	0.00	447.17
B	583+82.33	0.00	447.19
C	583+89.28	0.00	447.22
D	583+92.29	0.00	447.24
E	583+97.33	0.00	447.26
N. End S. Appr. Slab	584+02.33	0.00	447.29

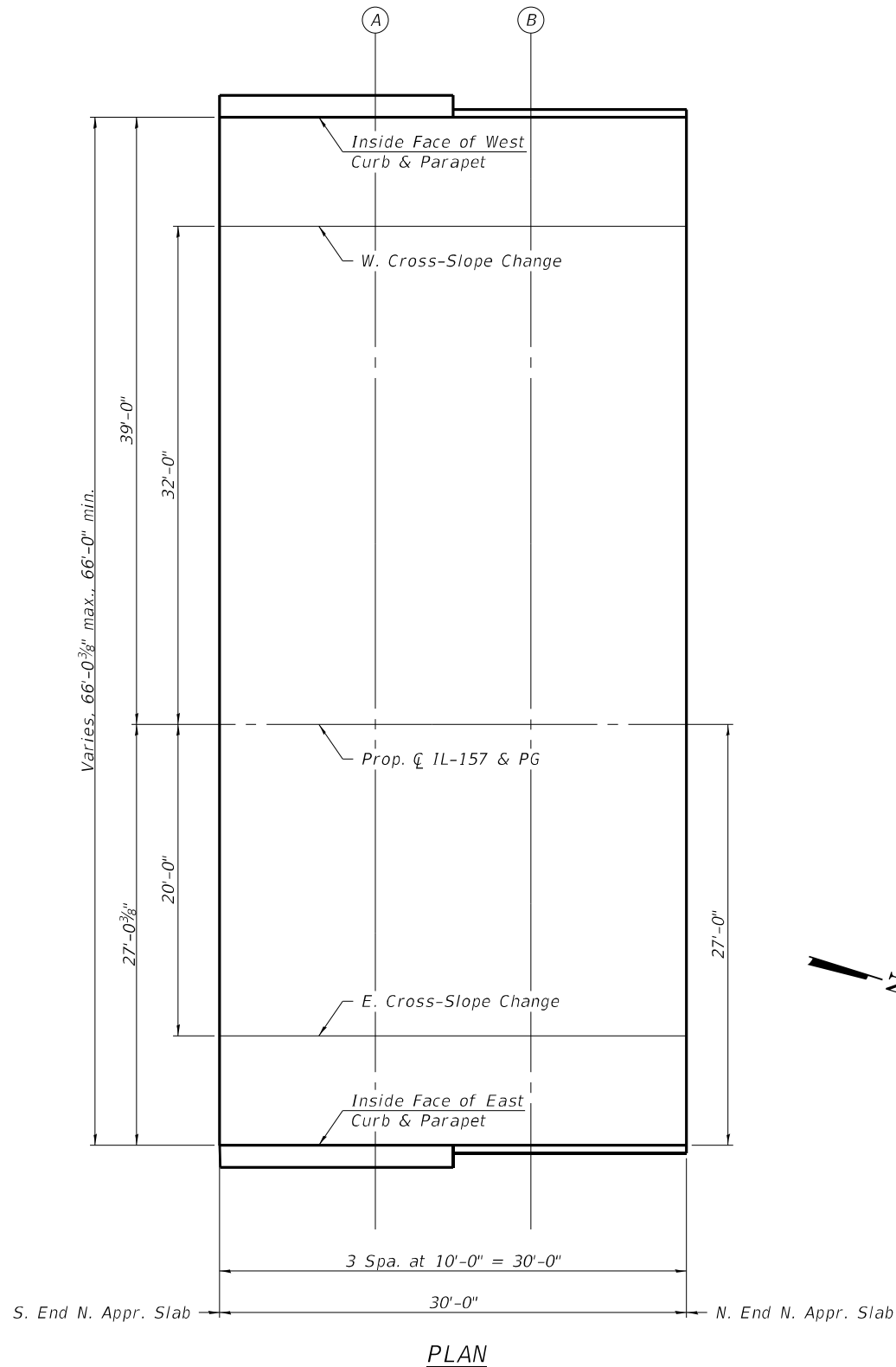
EAST CROSS-SLOPE CHANGE

Location	Station	Offset	Theoretical Grade Elevations
S. End S. Appr. Slab	583+72.33	20.00	446.84
A	583+77.55	20.00	446.87
B	583+82.33	20.00	446.89
C	583+89.28	20.00	446.92
D	583+92.29	20.00	446.94
E	583+97.33	20.00	446.96
N. End S. Appr. Slab	584+02.33	20.00	446.99

INSIDE FACE OF EAST CURB & PARAPET

Location	Station	Offset	Theoretical Grade Elevations
S. End S. Appr. Slab	583+72.33	45.37	446.33
A	583+77.55	43.81	446.39
B	583+82.33	42.39	446.44
C	583+89.28	40.32	446.52
D	583+92.29	39.42	446.55
E	583+97.33	37.92	446.61
N. End S. Appr. Slab	584+02.33	36.43	446.66

MODEL: Default
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3/5/2024 8:42:52 AM



INSIDE FACE OF WEST CURB & PARAPET

Location	Station	Offset	Theoretical Grade Elevations
S. End N. Appr. Slab	585+37.67	-39.00	447.35
A	585+47.67	-39.00	447.40
B	585+57.67	-39.00	447.45
N. End N. Appr. Slab	585+67.67	-39.00	447.50

WEST CROSS-SLOPE CHANGE

Location	Station	Offset	Theoretical Grade Elevations
S. End N. Appr. Slab	585+37.67	-32.00	447.49
A	585+47.67	-32.00	447.54
B	585+57.67	-32.00	447.59
N. End N. Appr. Slab	585+67.67	-32.00	447.64

PROPOSED C IL-157 & PROFILE GRADE

Location	Station	Offset	Theoretical Grade Elevations
S. End N. Appr. Slab	585+37.67	0.00	447.97
A	585+47.67	0.00	448.02
B	585+57.67	0.00	448.07
N. End N. Appr. Slab	585+67.67	0.00	448.12

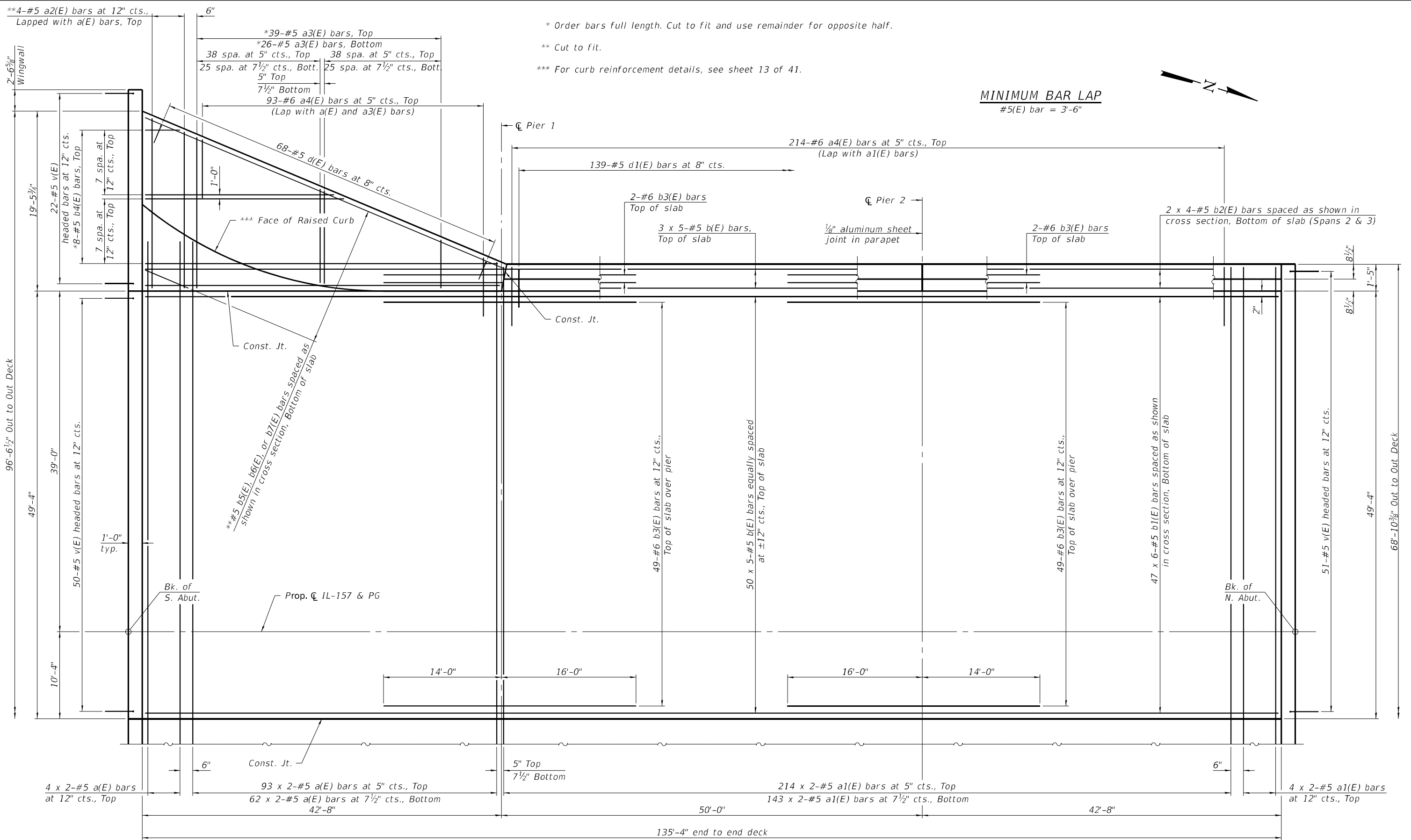
EAST CROSS-SLOPE CHANGE

Location	Station	Offset	Theoretical Grade Elevations
S. End N. Appr. Slab	585+37.67	20.00	447.67
A	585+47.67	20.00	447.72
B	585+57.67	20.00	447.77
N. End N. Appr. Slab	585+67.67	20.00	447.82

INSIDE FACE OF EAST CURB & PARAPET

Location	Station	Offset	Theoretical Grade Elevations
S. End N. Appr. Slab	585+37.67	27.03	447.53
A	585+47.67	27.02	447.58
B	585+57.67	27.01	447.63
N. End N. Appr. Slab	585+67.67	27.00	447.68

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3/5/2024 8:44:31 AM



* Order bars full length. Cut to fit and use remainder for opposite half.

** Cut to fit.

*** For curb reinforcement details, see sheet 13 of 41.

MINIMUM BAR LAP

#5(E) bar = 3'-6"

PART PLAN

Notes:

For east portion of deck plan, see sheet 11 of 41.

For Cross Sections, see sheet 12 of 41.

For superstructure details and Bill of Material, see sheets 13 thru 15 of 41.

Bars indicated thus 50 x 5-#5 etc. indicates 50 lines of bars with 5 lengths per line.



USER NAME =	DESIGNED - T.S. Friederich	REVISED -
	CHECKED - E.M. Lagemann	REVISED -
PLOT SCALE =	DRAWN - T.S. Friederich	REVISED -
PLOT DATE =	CHECKED - A.H. Morinaga Mansilla	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

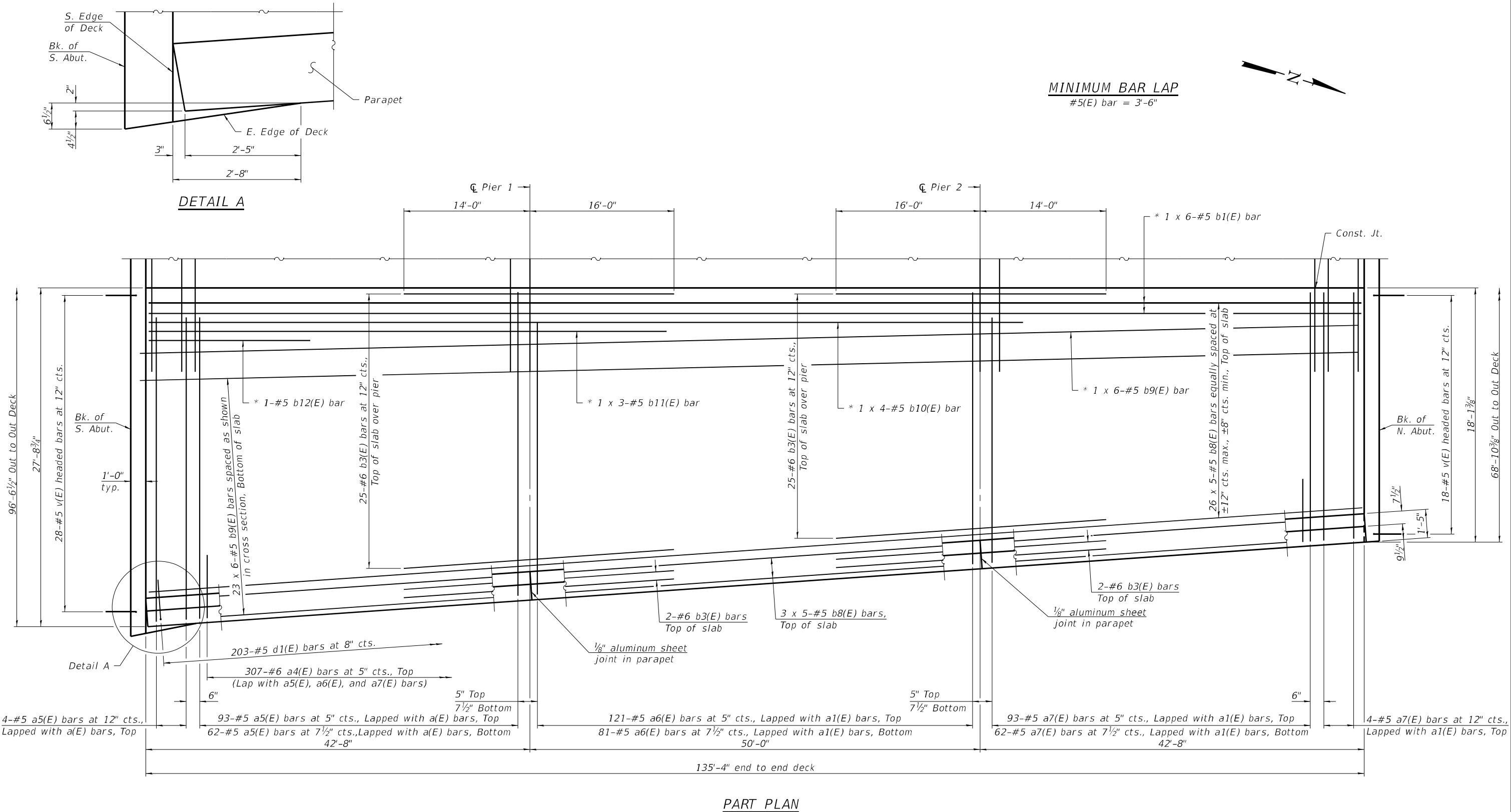
SUPERSTRUCTURE DETAILS I
STRUCTURE NO. 060-0229

SHEET 10 OF 41 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	152
CONTRACT NO. 76A46				
ILLINOIS FED. AID PROJECT				

*588/592

MODEL: Default
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3/5/2024 8:47:51 AM



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS II
STRUCTURE NO. 060-0229

SHEET 11 OF 41 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	153
CONTRACT NO. 76A46				
ILLINOIS		FED. AID PROJECT		

*588/592

- NEAR PIER
- E)
- ④ Varies, 9'-3 $\frac{1}{8}$ " max., 2'-3 $\frac{3}{4}$ " min.
- ⑤ Varies, 2'-3 $\frac{3}{4}$ " max., 0'-0" min.

(Looking North)

NEAR MIDSPAN

* Perpendicular to Beam
** Cut to fit

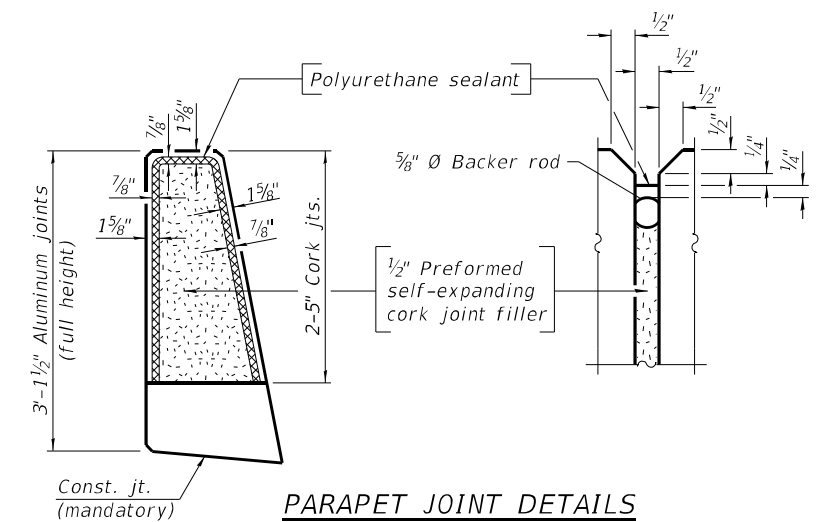
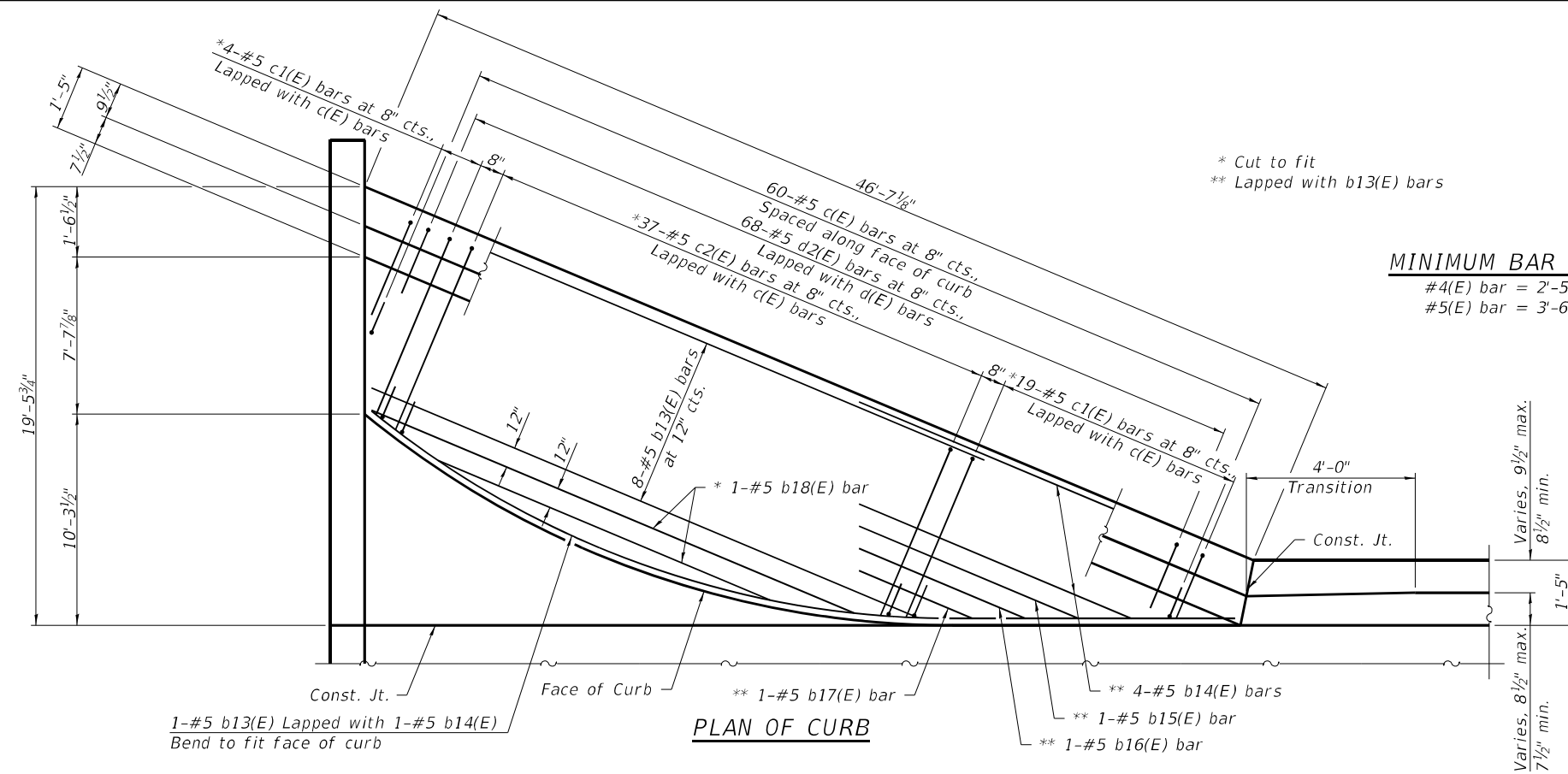


(Looking North)

NEAR MIDSPAN

3/5/2024 8:49:22 AM

*586/592

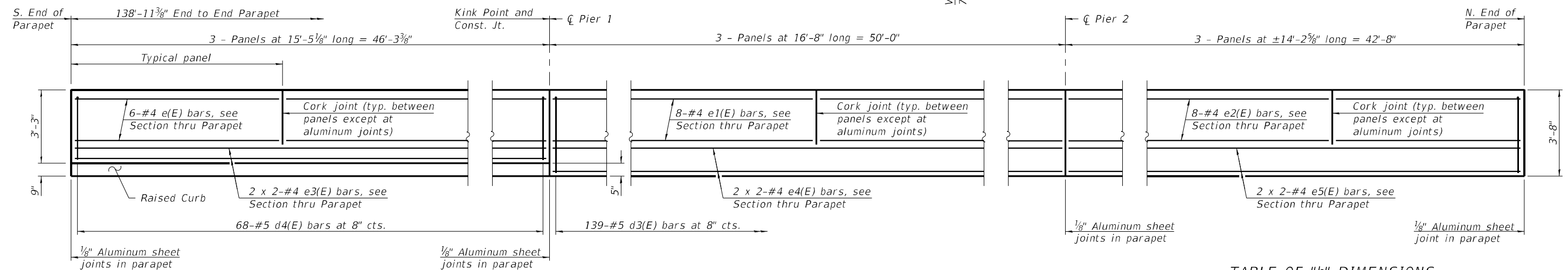


Notes:

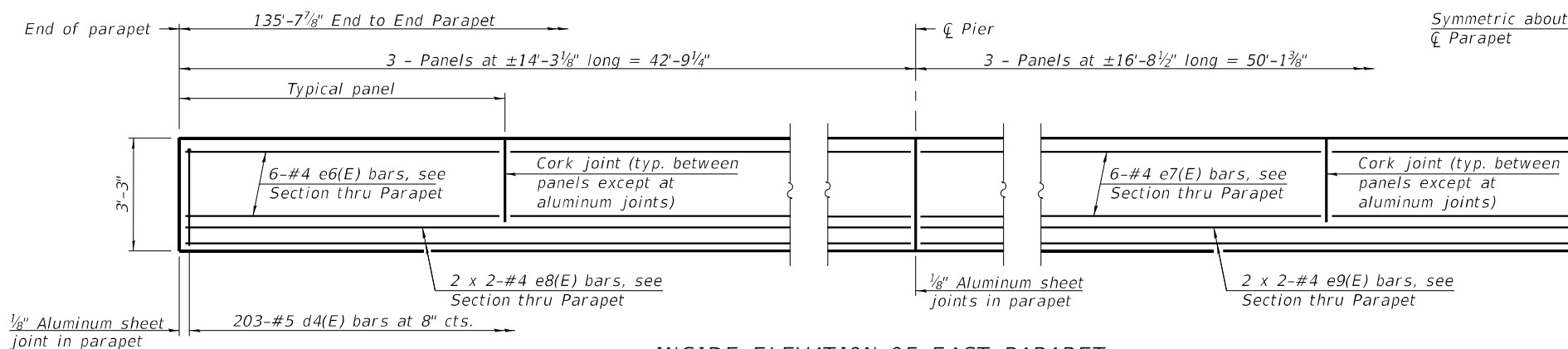
The 1/8" aluminum sheet shall be ASTM B 209 alloy 3003-H14 and coated to minimize reaction with wet concrete. Cost included with Concrete Superstructure.

The polyurethane sealant shall be according to Article 1050.04 of the Std. Spec. and the color shall be gray.

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.



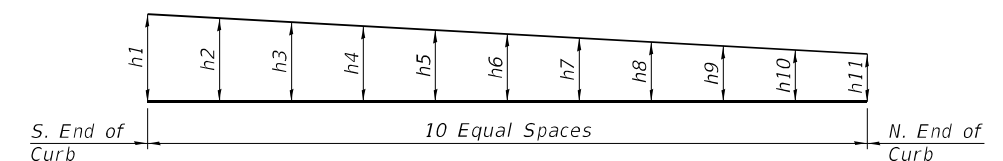
INSIDE ELEVATION OF WEST PARAPET



INSIDE ELEVATION OF EAST PARAPET

TABLE OF "h" DIMENSIONS

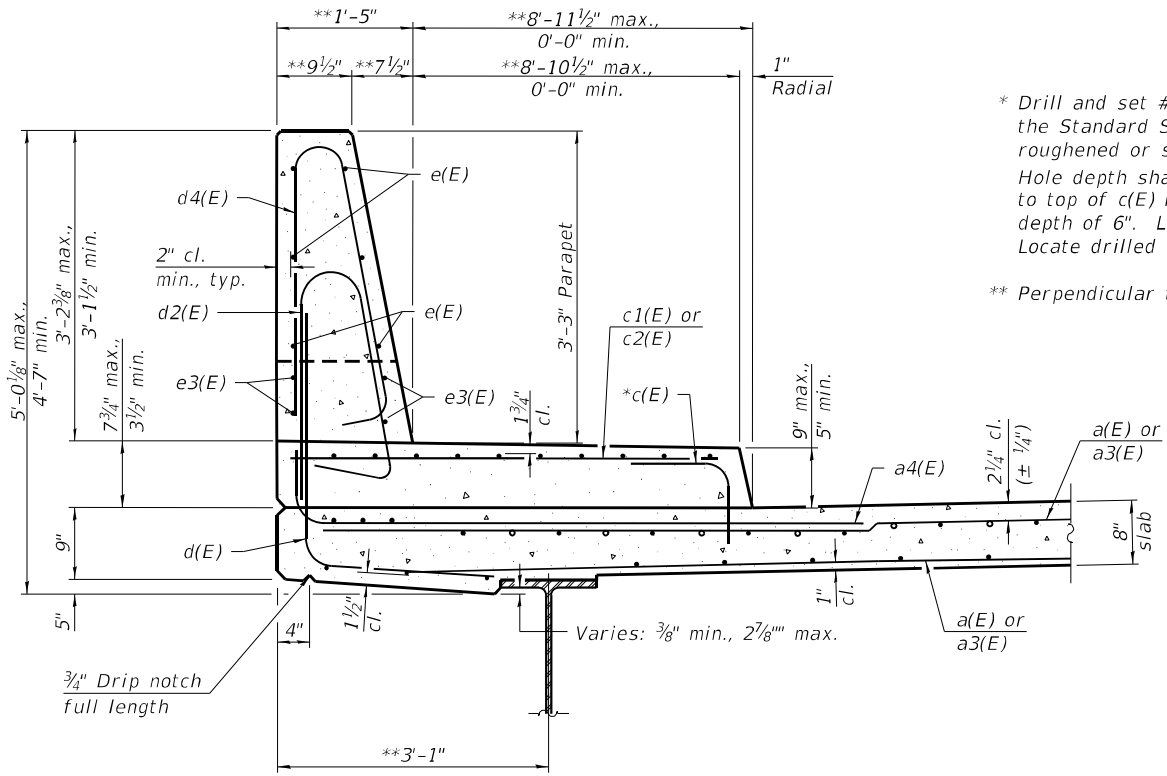
Location	h1	h2	h3	h4	h5	h6	h7	h8	h9	h10	h11
Face of Curb	9"	8 ⁵ / ₈ "	8 ¹ / ₄ "	7 ³ / ₄ "	7 ³ / ₈ "	7"	6 ⁵ / ₈ "	6 ¹ / ₄ "	5 ³ / ₄ "	5 ³ / ₈ "	5"
Face of Parapet	8"	7 ¹ / ₄ "	7 ³ / ₈ "	7 ¹ / ₈ "	6 ³ / ₄ "	6 ¹ / ₂ "	6 ¹ / ₄ "	5 ⁸ / ₈ "	5 ⁸ / ₈ "	5 ¹ / ₄ "	5"
Edge of Deck	7 ³ / ₄ "	7 ³ / ₈ "	6 ⁵ / ₈ "	6 ¹ / ₄ "	6"	5 ³ / ₈ "	5 ¹ / ₄ "	4 ³ / ₈ "	4 ³ / ₈ "	3 ⁵ / ₈ "	3 ¹ / ₄ "



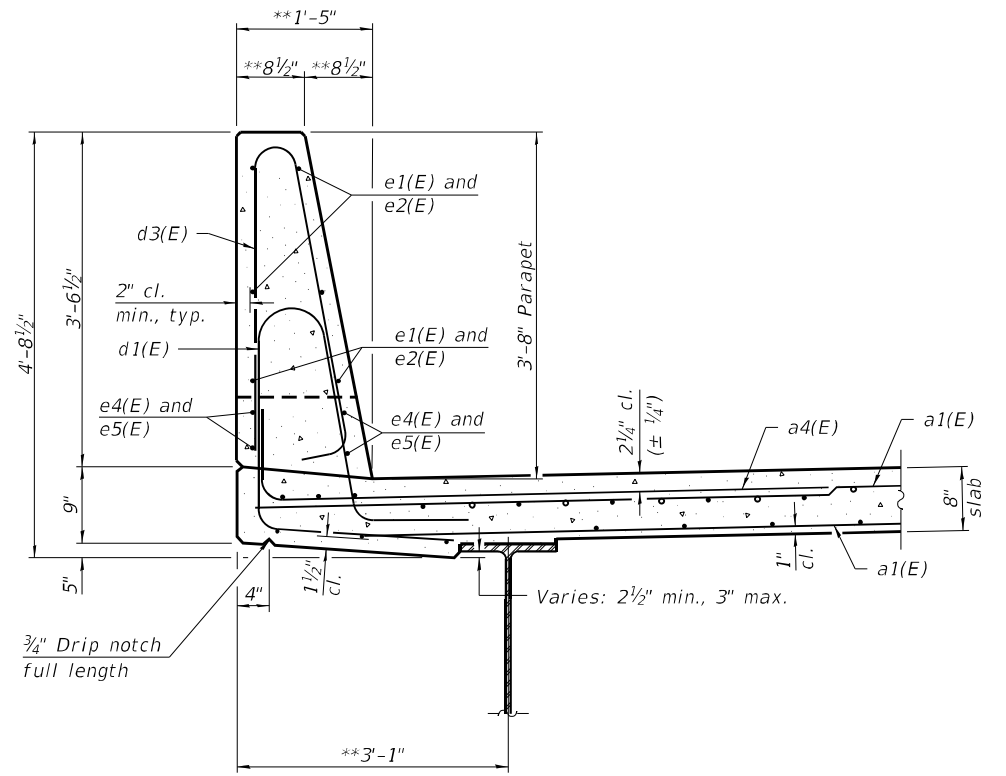
RAISED CURB HEIGHT DIAGRAM

Notes:
For superstructure details and Bill of Material, see sheets 14 and 15 of 41.
Bars indicated thus 2 x 2-#4 etc. indicates 2 lines of bars with 2 lengths per line.

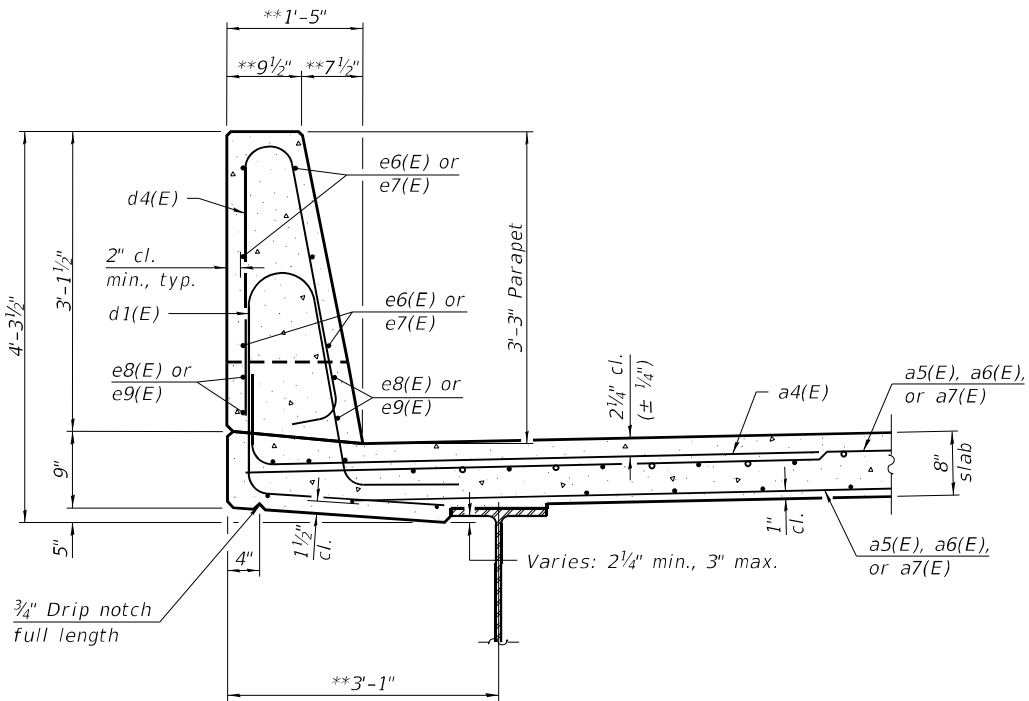
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3/5/2024 8:53:16 AM



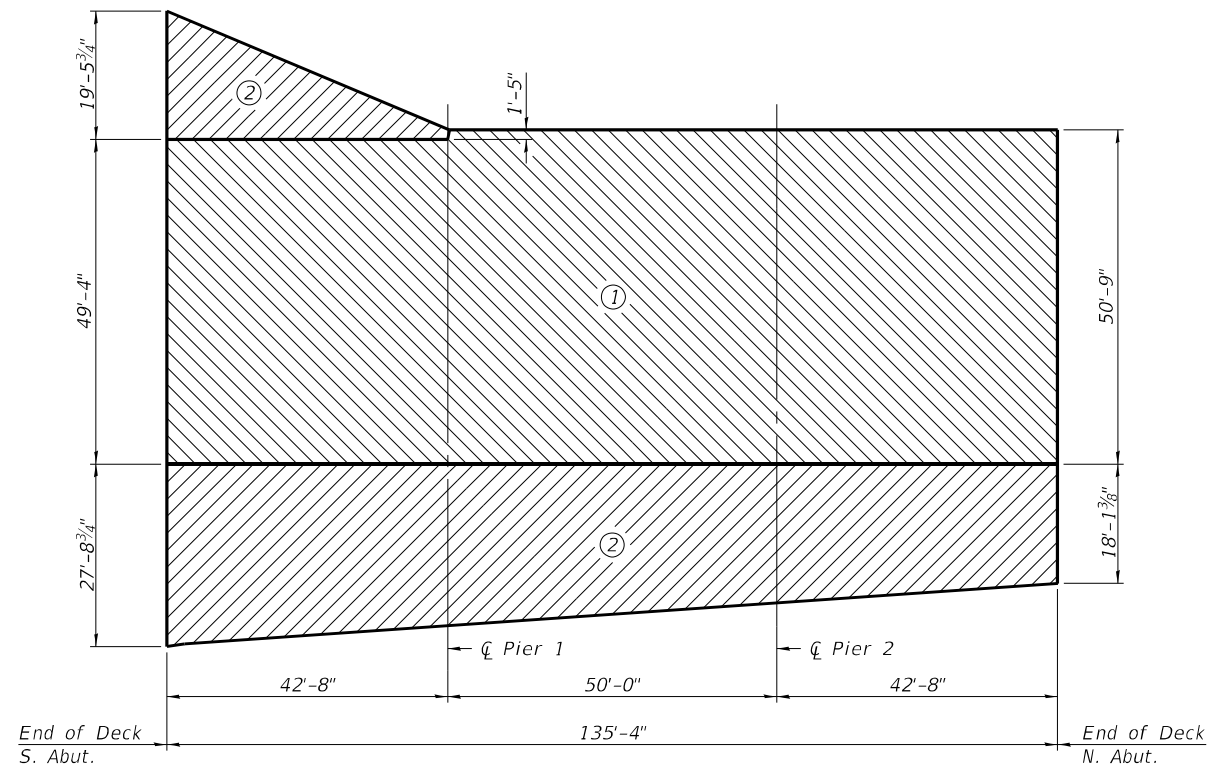
SECTION THRU WEST PARAPET - SPAN 1
(Looking North)



SECTION THRU WEST PARAPET - SPANS 2 & 3
(Looking North)



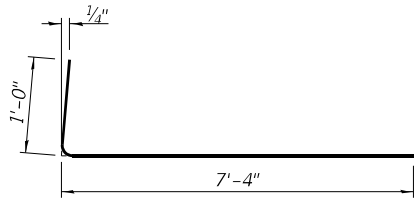
SECTION THRU EAST PARAPET
(Looking South)



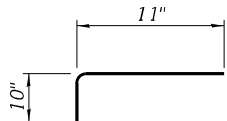
DECK POURING SEQUENCE

Note:
When the deck pour is stopped for the day at the longitudinal bonded construction joint in the deck pouring sequence as shown, the next pour shall not be made until both of the following are met:
a. At least 72 hours shall have elapsed from the end of the previous pour.
b. The concrete strength shall have attained a minimum flexural strength of 675 psi or a minimum compressive strength of 4,000 psi.

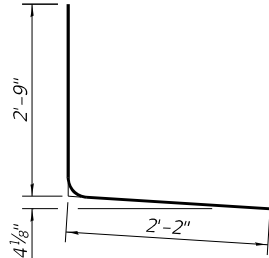
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3/5/2024 9:04:31 AM



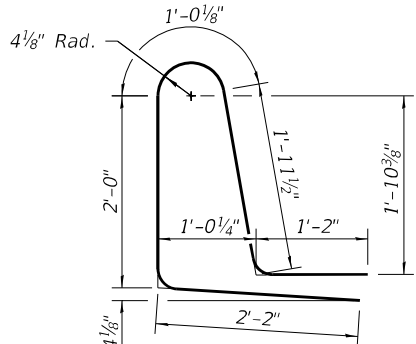
BAR a4(E)



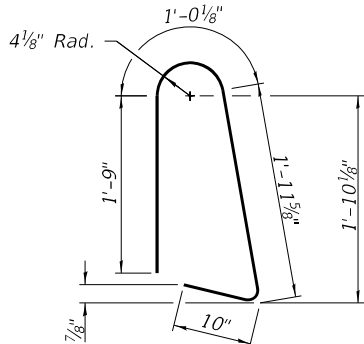
BAR c(E)



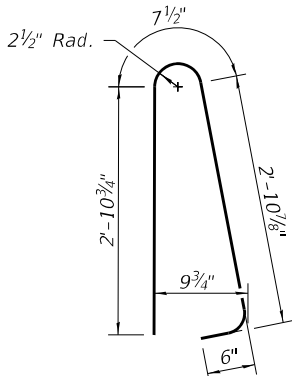
BAR d(E)



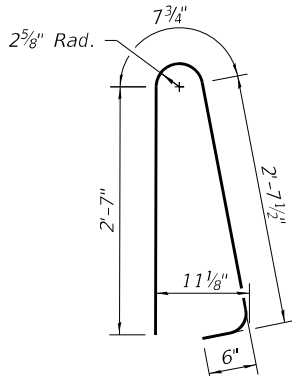
BAR d1(E)



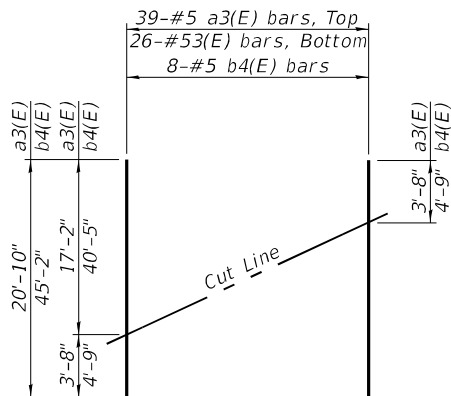
BAR d2(E)



BAR d3(E)

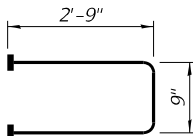


BAR d4(E)

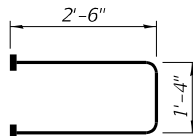


FIELD CUTTING DIAGRAM

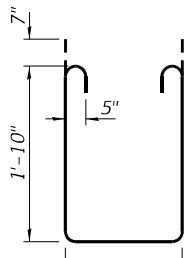
Order a3(E) and b4(E) bars full length.
Cut as shown and use remainder of
bars in opposite end of deck.



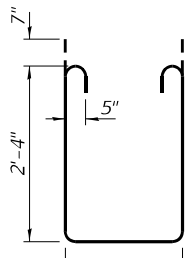
BAR s(E)
(Headed)



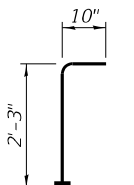
BAR s2(E)
(Headed)



BAR s1(E)



BAR s3(E)



BAR v(E)
(Headed)

BILL OF MATERIAL

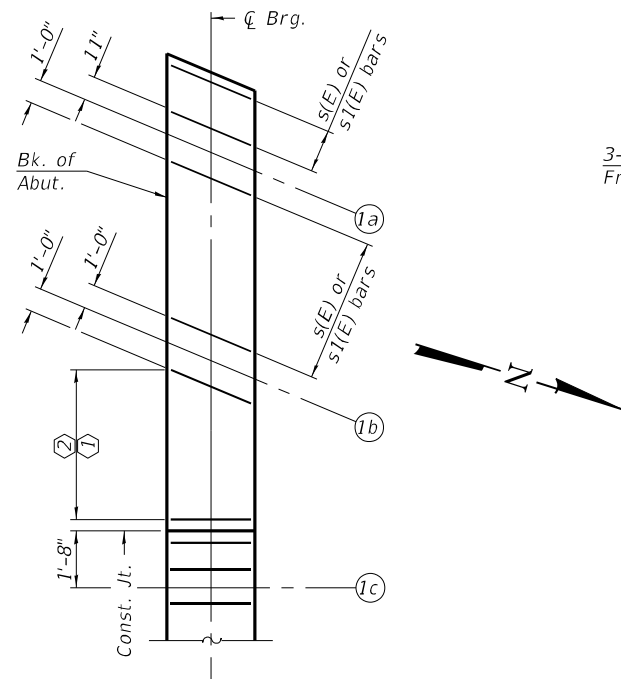
Bar	No.	Size	Length	Shape
a(E)	318	#5	32'-2"	—
a1(E)	722	#5	30'-10"	—
a2(E)	4	#5	18'-8"	—
a3(E)	65	#5	20'-10"	—
a4(E)	614	#6	8'-4"	—
a5(E)	159	#5	23'-11"	—
a6(E)	202	#5	20'-5"	—
a7(E)	159	#5	17'-6"	—
b(E)	265	#5	29'-10"	—
b1(E)	294	#5	25'-5"	—
b2(E)	8	#5	25'-9"	—
b3(E)	156	#6	30'-0"	—
b4(E)	8	#5	45'-2"	—
b5(E)	6	#5	24'-11"	—
b6(E)	8	#5	38'-5"	—
b7(E)	5	#5	16'-0"	—
b8(E)	145	#5	29'-11"	—
b9(E)	144	#5	25'-6"	—
b10(E)	4	#5	27'-2"	—
b11(E)	3	#5	21'-10"	—
b12(E)	1	#5	18'-9"	—
b13(E)	9	#5	29'-0"	—
b14(E)	5	#5	20'-8"	—
b15(E)	1	#5	13'-0"	—
b16(E)	1	#5	10'-2"	—
b17(E)	1	#5	7'-5"	—
b18(E)	2	#5	25'-7"	—
c(E)	60	#5	1'-9"	—
c1(E)	23	#5	8'-3"	—
c2(E)	37	#5	10'-1"	—
d(E)	68	#5	4'-11"	—
d1(E)	342	#5	8'-4"	—
d2(E)	68	#5	5'-7"	—
d3(E)	139	#5	7'-0"	—
d4(E)	271	#5	6'-5"	—
e(E)	18	#4	15'-1"	—
e1(E)	24	#4	16'-4"	—
e2(E)	24	#4	13'-10"	—
e3(E)	8	#4	24'-3"	—
e4(E)	8	#4	26'-1"	—
e5(E)	8	#4	22'-5"	—
e6(E)	36	#4	14'-0"	—
e7(E)	18	#4	16'-5"	—
e8(E)	16	#4	22'-6"	—
e9(E)	8	#4	26'-2"	—

BILL OF MATERIAL (CONT.)

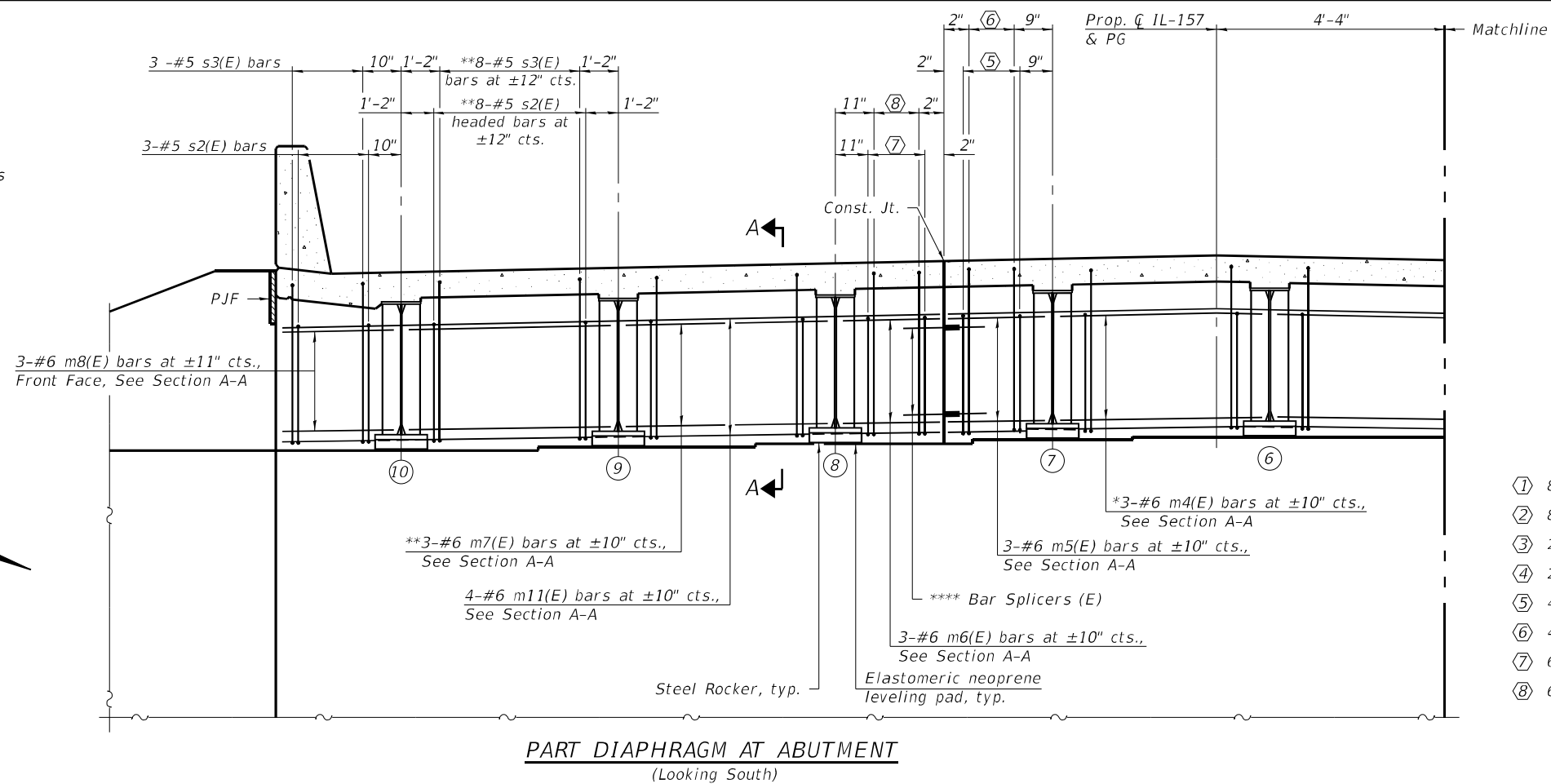
Bar	No.	Size	Length	Shape
h(E)	6	#5	6'-0"	—
m(E)	2	#6	2'-11"	—
m1(E)	2	#6	8'-2"	—
m2(E)	2	#6	6'-0"	—
m3(E)	2	#6	1'-4"	—
m4(E)	36	#6	7'-0"	—
m5(E)	6	#6	3'-4"	—
m6(E)	3	#6	5'-3"	—
m7(E)	6	#6	8'-10"	—
m8(E)	9	#6	2'-9"	—
m9(E)	3	#6	19'-5"	—
m10(E)	8	#6	26'-11"	—
m11(E)	4	#6	27'-6"	—
m12(E)	3	#6	2'-4"	—
m13(E)	6	#6	5'-11"	—
m14(E)	8	#6	27'-8"	—
m15(E)	4	#6	17'-9"	—
s(E)	18	#5	6'-3"	—
s1(E)	18	#5	7'-4"	—
s2(E)	140	#5	6'-4"	—
s3(E)	140	#5	8'-2"	—
v(E)	169	#5	3'-1"	—
Bridge Deck Grooving			Sq. Yd.	1,044
Concrete Superstructure			Cu. Yd.	363.8
Reinforcement Bars, Epoxy Coated			Pound	101,330

MODEL: Default
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3/8/2024 8:35:22 AM

* typ. between beams 1c thru 7
** typ. between beams 8 thru 10
*** 3-#6 Bar Splicers (E) for m9(E) and m10(E) bars
**** 4-#6 Bar Splicers (E) for m10(E) and m11(E) bars



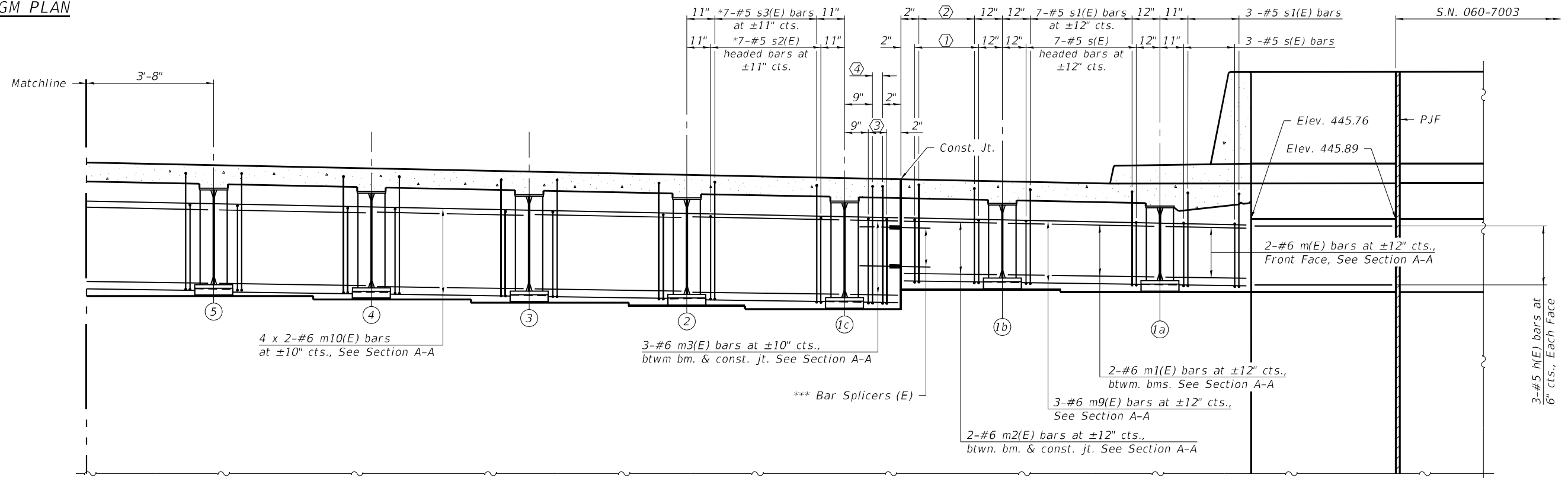
PART DIAPHRAGM PLAN



PART DIAPHRAGM AT ABUTMENT
(Looking South)

MINIMUM BAR LAP
#6(E) bar = 4'-10"

- ① 8-#5 s(E) headed bars flared at $\pm 12''$ cts., max.
- ② 8-#5 s1(E) bars flared at $\pm 12''$ cts., max.
- ③ 2-#5 s2(E) headed bars at $\pm 9''$ cts.
- ④ 2-#5 s3(E) bars at $\pm 9''$ cts.
- ⑤ 4-#5 s2(E) headed bars at $\pm 11''$ cts.
- ⑥ 4-#5 s3(E) bars at $\pm 11''$ cts.
- ⑦ 6-#5 s2(E) headed bars at $\pm 11''$ cts.
- ⑧ 6-#5 s3(E) bars at $\pm 11''$ cts.

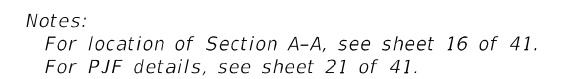
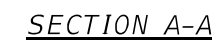


PART DIAPHRAGM AT ABUTMENT
(Looking South)

Notes:
For superstructure details and Bill of Material, see sheets 10 thru 15 of 41.
For Section A-A, see sheet 17 of 41.
Bars indicated thus 4 x 2-#6 etc. indicates 4 lines of bars with 2 lengths per line.

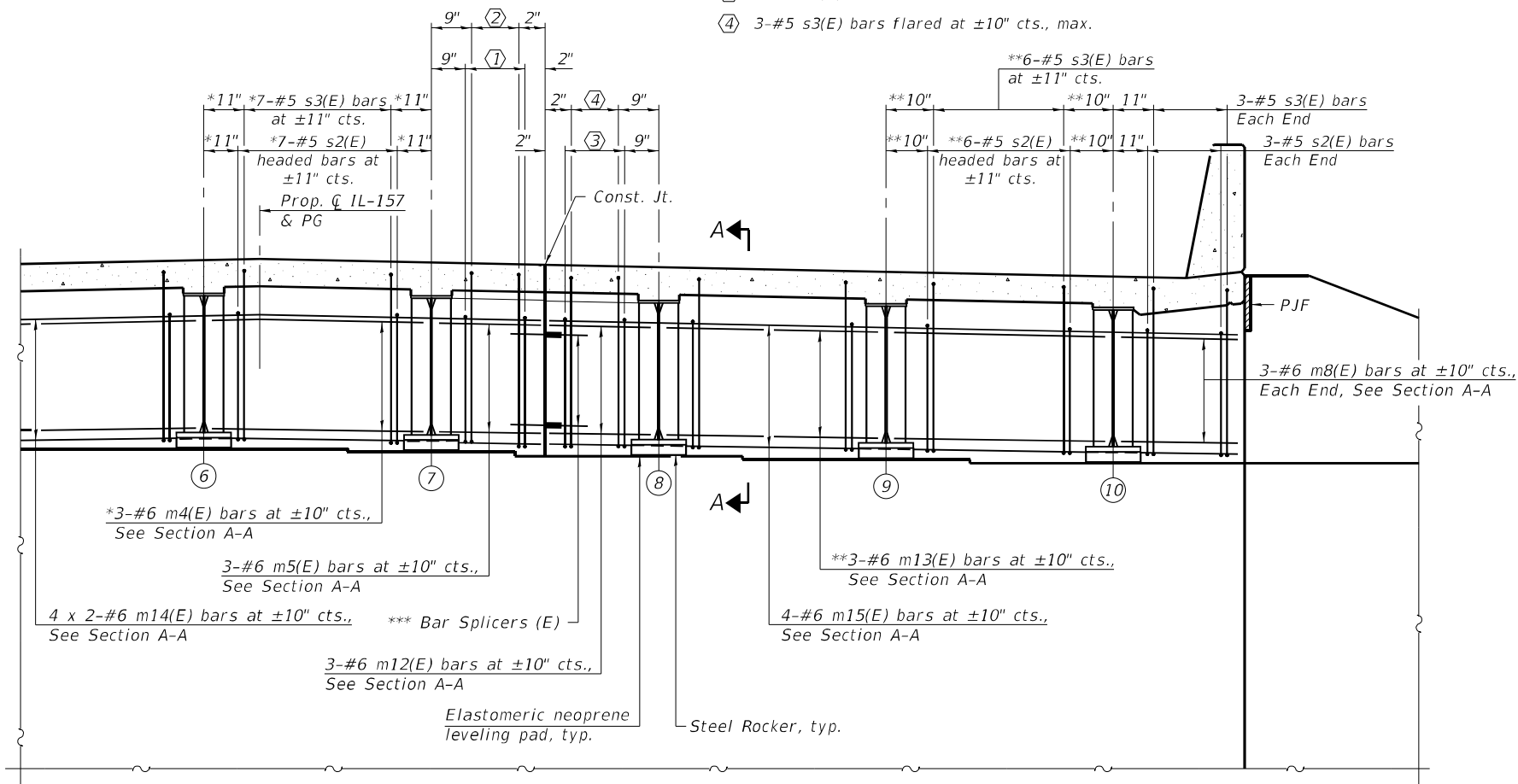
USER NAME	=	DESIGNED	-	T.S. Friederich	REVISED	-	
CHECKED	-	E.M. Lagemann	REVISED	-			
PLOT SCALE	=	DRAWN	-	T.S. Friederich	REVISED	-	
PLOT DATE	=	CHECKED	-	A.H. Moringa Mansilla	REVISED	-	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
51-1R	MADISON	296	158	
CONTRACT NO. 76A46				

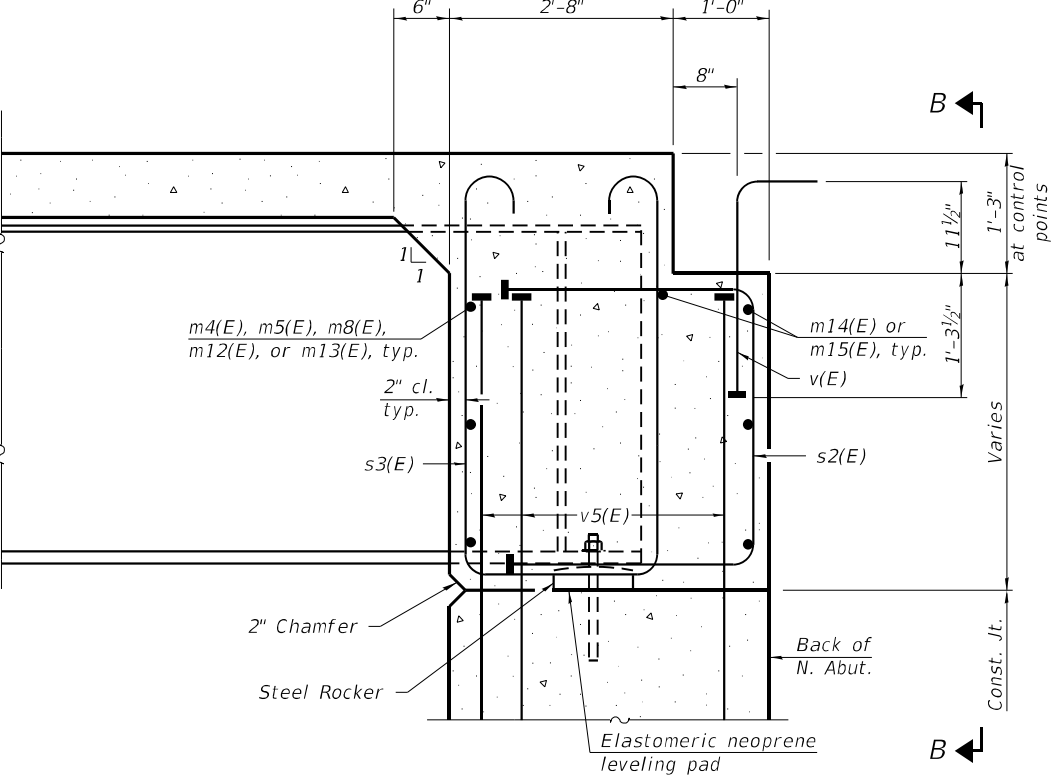


* typ. between beams 1c thru 7
** typ. between beams 8 thru 10
*** 4-#6 Bar Splicers (E) for m14(E) and m15(E) bars

- ① 4-#5 s2(E) headed bars at ±11" cts., max.
- ② 4-#5 s3(E) bars at ±11" cts., max.
- ③ 3-#5 s2(E) headed bars flared at ±10" cts., max.
- ④ 3-#5 s3(E) bars flared at ±10" cts., max.

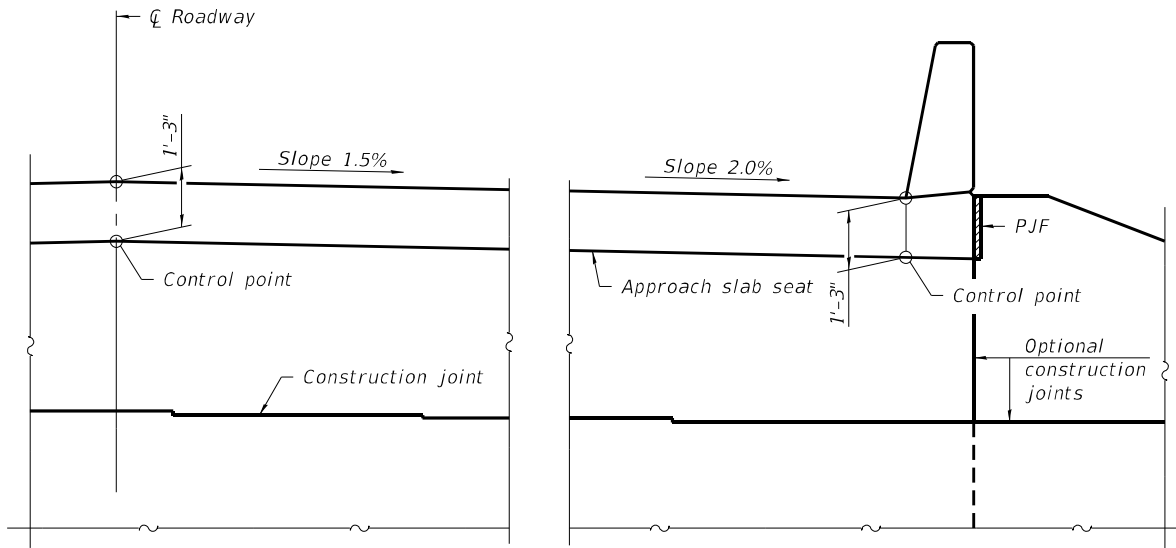


DIAPHRAGM AT ABUTMENT
(Looking North)

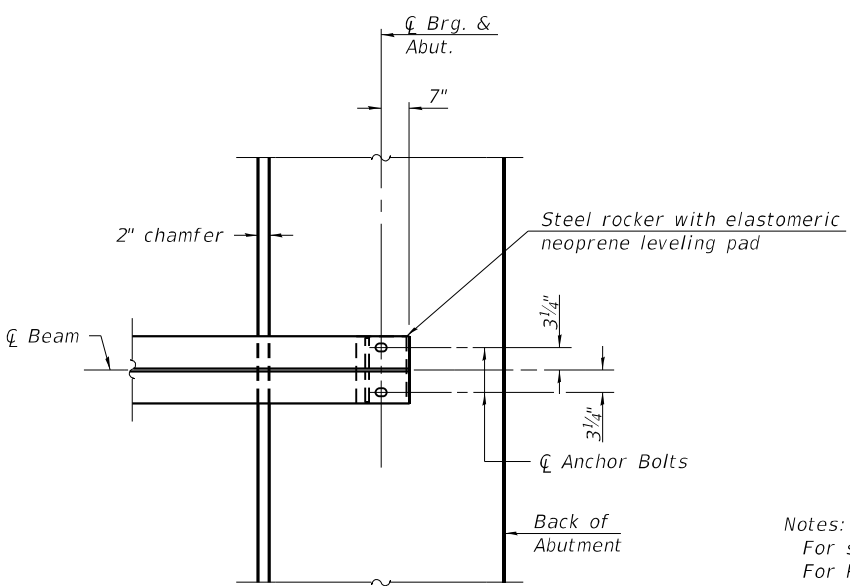


SECTION A-A

MINIMUM BAR LAP
#6(E) bar = 4'-10"



VIEW B-B



PLAN AT ABUTMENT
(Showing bottom flange of beam)

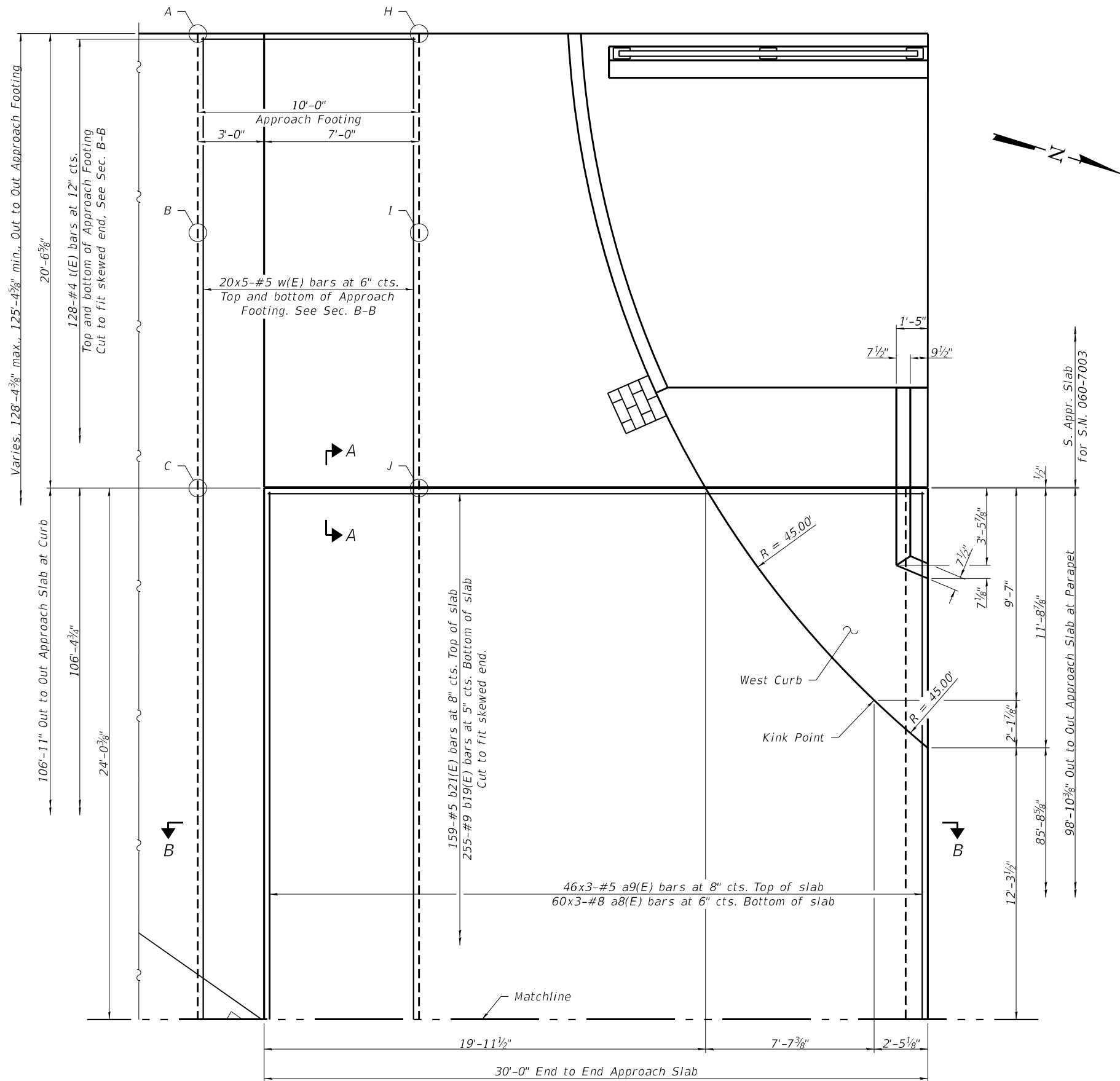
Notes:
For superstructure details and Bill of Material, see sheets 10 thru 15 of 41.
For P.J.F. details, see sheet 24 of 41.
The approach slab seat shall have a constant slope determined from the control points shown.
Bars indicated thus 4 x 2-#5 etc. indicates 4 lines of bars with 2 lengths per line.

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3/8/2024 8:36:52 AM

USER NAME =	DESIGNED - T.S. Friederich	REVISED -
PLOT SCALE =	CHECKED - E.M. Lagemann	REVISED -
PLOT DATE =	DRAWN - T.S. Friederich	REVISED -
	CHECKED - A.H. Morinaga Mansilla	REVISED -

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	160
CONTRACT NO. 76A46				
ILLINOIS FED. AID PROJECT				

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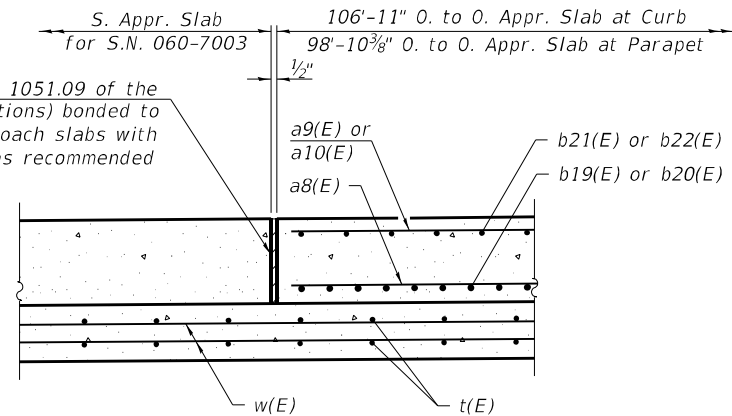


PART PLAN

TOP AND BOTTOM ELEVATIONS
FOR APPROACH FOOTING

Point/ Location	Station	Offset	Top	Bottom
A	583+69.33	-81.58 ft.	445.09	444.26
B	583+69.33	-72.58 ft.	445.20	444.37
C	583+69.33	-61.03 ft.	445.27	444.44
D	583+69.33	-32.00 ft.	445.39	444.56
E	583+69.33	0.00 ft.	445.87	445.04
F	583+69.33	20.00 ft.	445.57	444.74
G	583+69.33	46.78 ft.	445.03	444.20
H	583+79.33	-81.58 ft.	445.14	444.31
I	583+79.33	-72.58 ft.	445.27	444.44
J	583+79.33	-61.03 ft.	445.30	444.47
K	583+79.33	-32.00 ft.	445.44	444.61
L	583+79.33	0.00 ft.	445.92	445.09
M	583+79.33	20.00 ft.	445.62	444.79
N	583+79.33	43.81 ft.	445.14	444.31

1/2" PJF (per Article 1051.09 of the Standard Specifications) bonded to wingwalls and approach slabs with suitable adhesive as recommended by supplier.



SECTION A-A

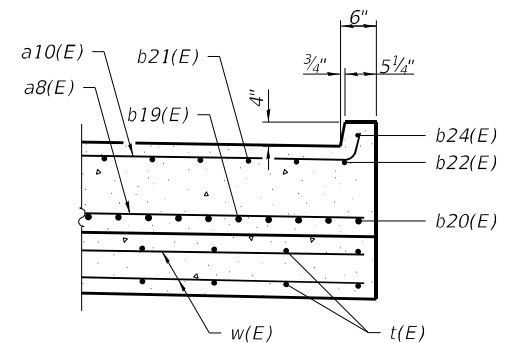
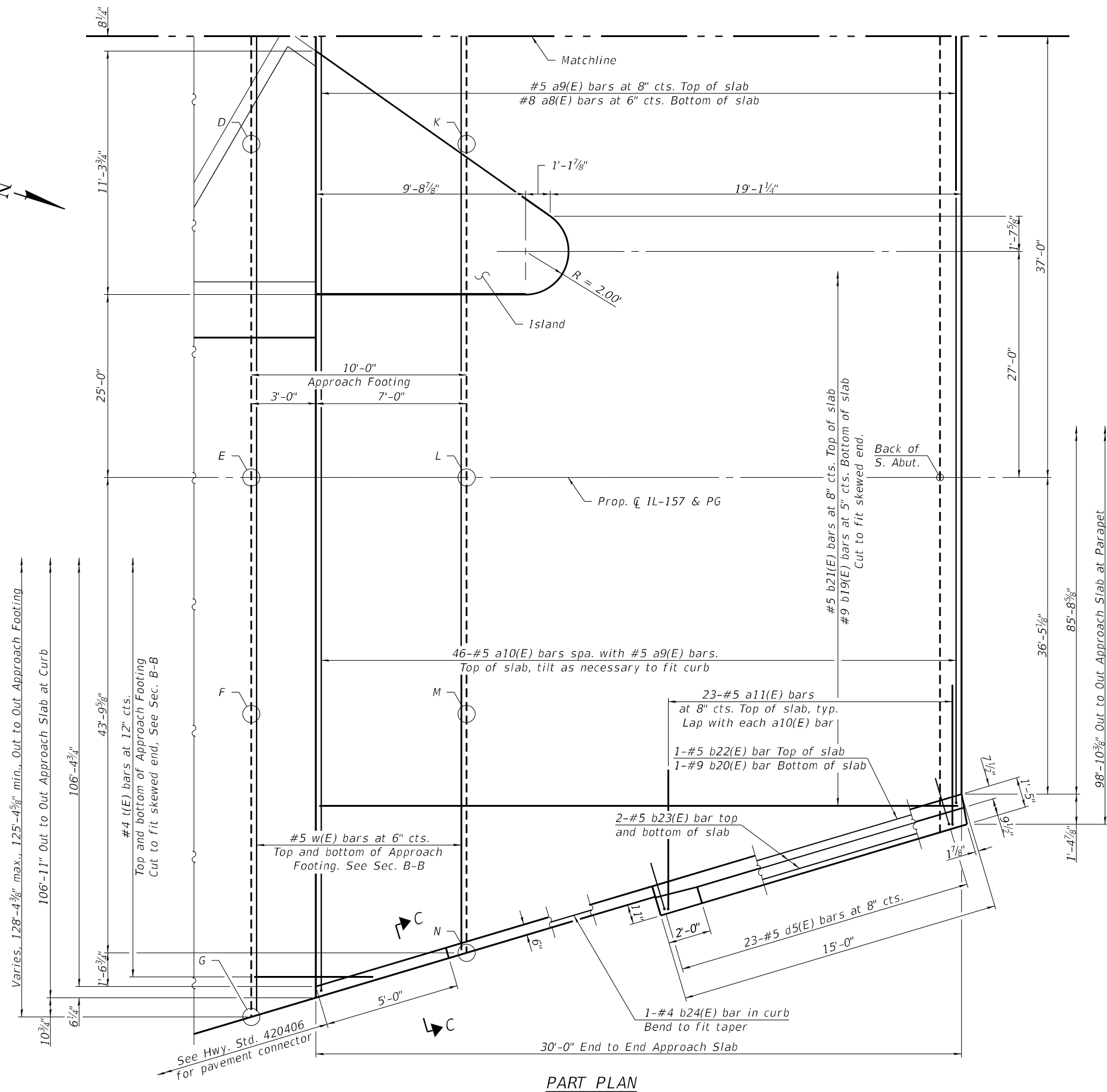
MINIMUM BAR LAP

#4(E) bar = 2'-5"
#5(E) bar = 3'-6"
#8(E) bar = 4'-9"

Notes:

The Approach Footing is a continuous footing supporting the South Approach Slabs of both this structure and S.N. 060-7003. Quantities for reinforcement and concrete are included in this structure plans. Reinforcement details for the West Curb and Parapet not shown for clarity. Bars indicated thus 20 x 5-#5 etc. indicates 20 lines of bars with 5 lengths per line. For portion of South Approach Slab east of the Matchline, see sheet 20 of 41. For Plan of West Curb and Section B-B, see sheet 22 of 41.

MODEL: Default
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3/5/2024 9:17:19 AM



SECTION C-C

MINIMUM BAR LAP

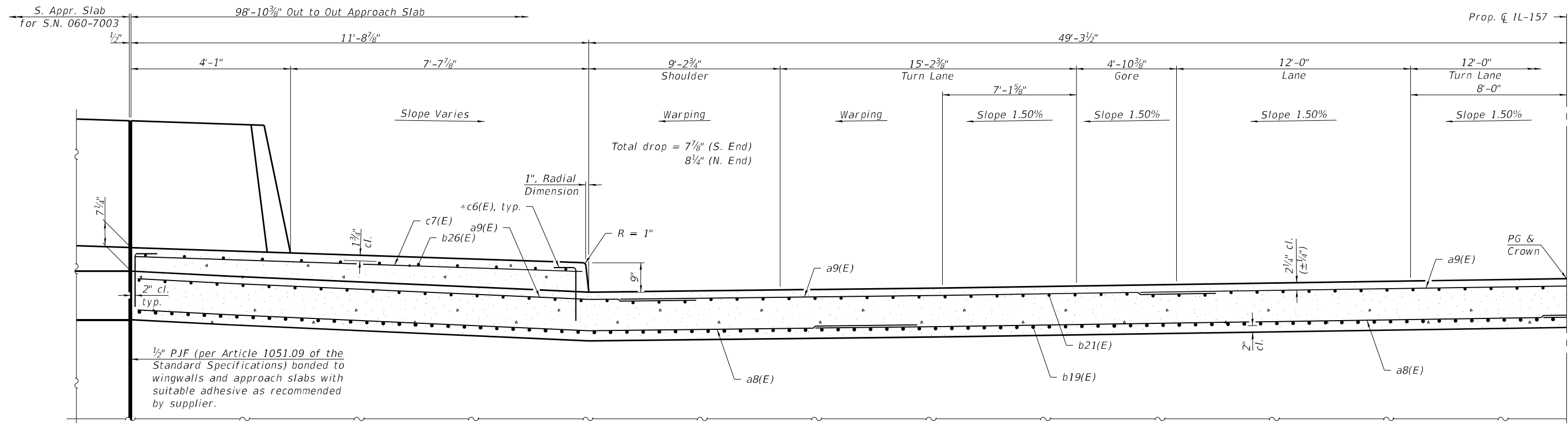
- #4(E) bar = 2'-5"
- #5(E) bar = 3'-6"
- #8(E) bar = 4'-9"

Notes:
The Approach Footing is a continuous footing supporting the South Approach Slabs of both this structure and S.N. 060-7003. Quantities for reinforcement and concrete are included in this structure plans.
Reinforcement details for the Island not shown for clarity.
For portion of South Approach Slab west of the Matchline, see sheet 19 of 41.
For Plan of Island, see sheet 21 of 41.

USER NAME	=	DESIGNED	-	E.M. Lagemann	REVISED	-	_____
PLOT SCALE	=	CHECKED	-	A.H. Morinaga-Mansilla	REVISED	-	_____
PLOT DATE	=	DRAWN	-	E.M. Lagemann	REVISED	-	_____
		CHECKED	-	A.H. Morinaga-Mansilla	REVISED	-	_____

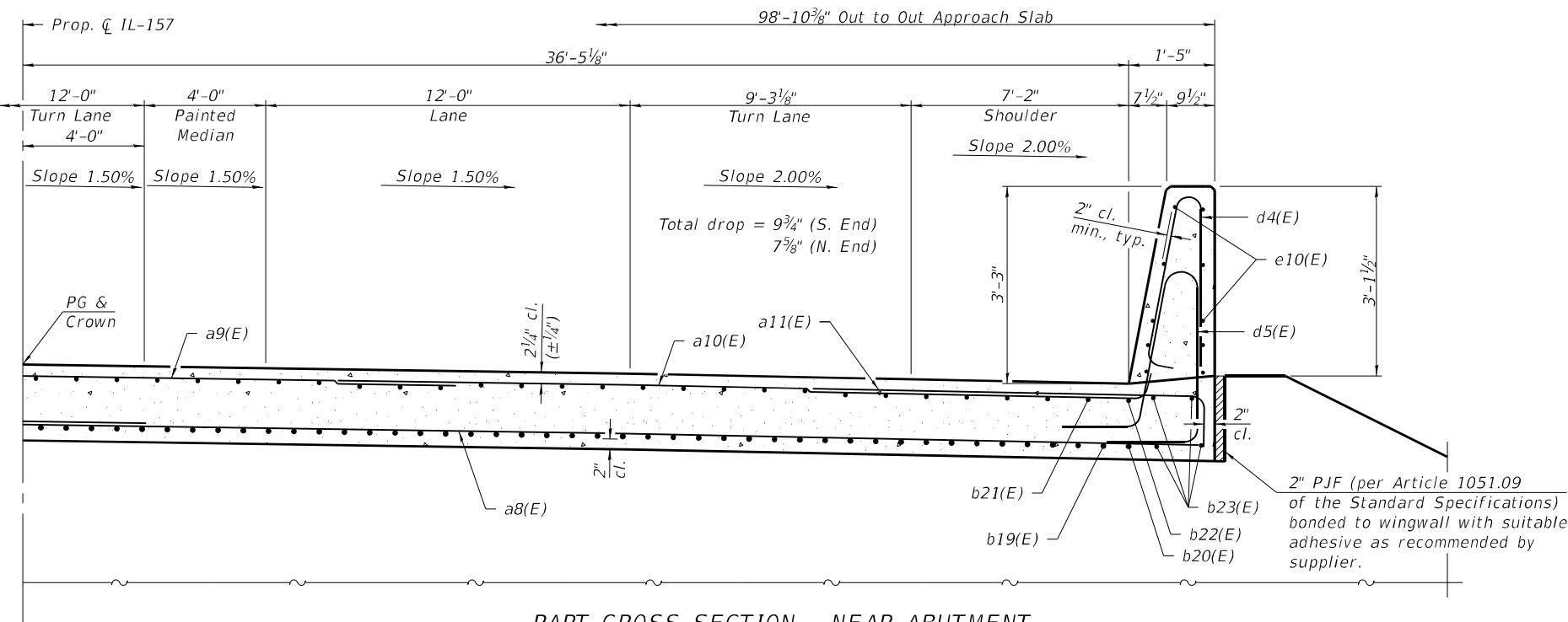
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	162
CONTRACT NO. 76A46				
ILLINOIS FED. AID PROJECT				

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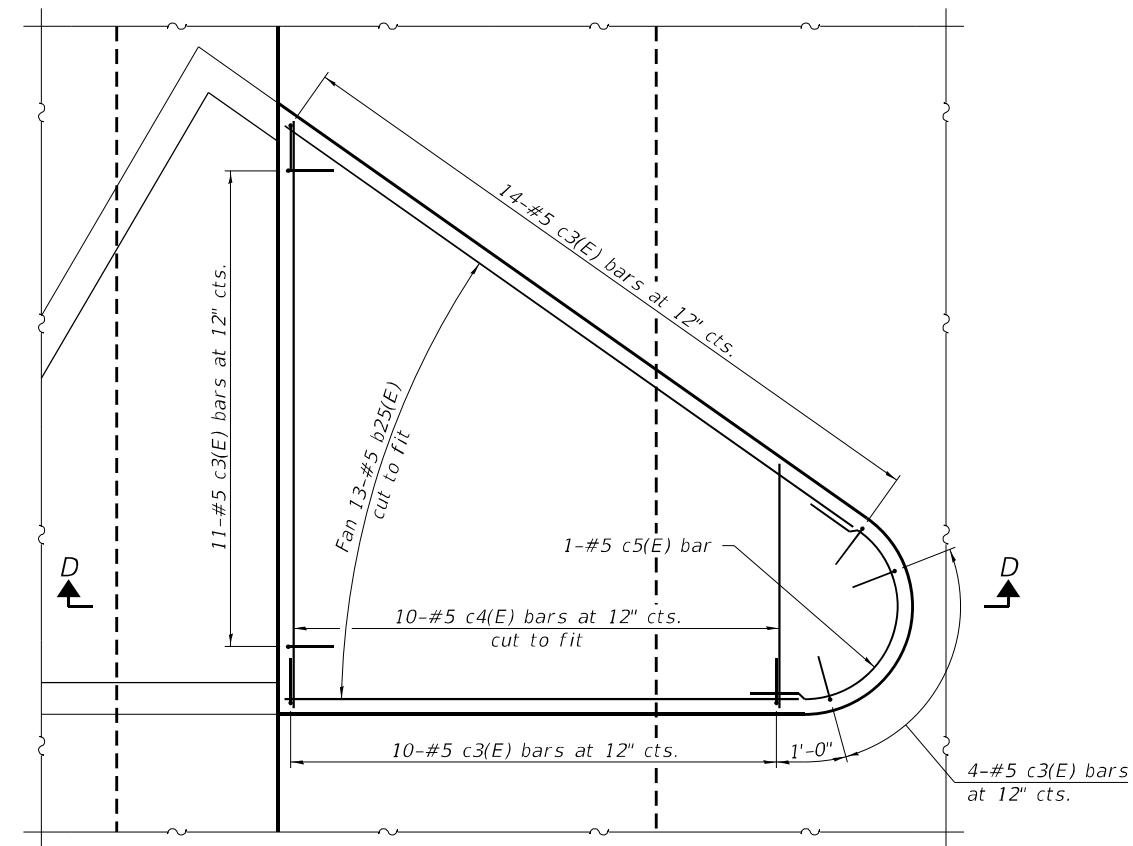


PART CROSS-SECTION - NEAR ABUTMENT
(Looking North)

* Drill and set #5 c3(E) and c6(E) bars according to Article 509.06 of the Standard Specifications. Drilled holes shall be roughened or scored per manufacturer's recommendation. Hole depth shall be deep enough to provide 1 3/4" clearance to top of c3(E) and c6(E) bars and top of curb, with a minimum hole depth of 6". Locate Longitudinal bars to miss drilled holes. Locate drilled holes to miss Transverse bars in appr. slab.

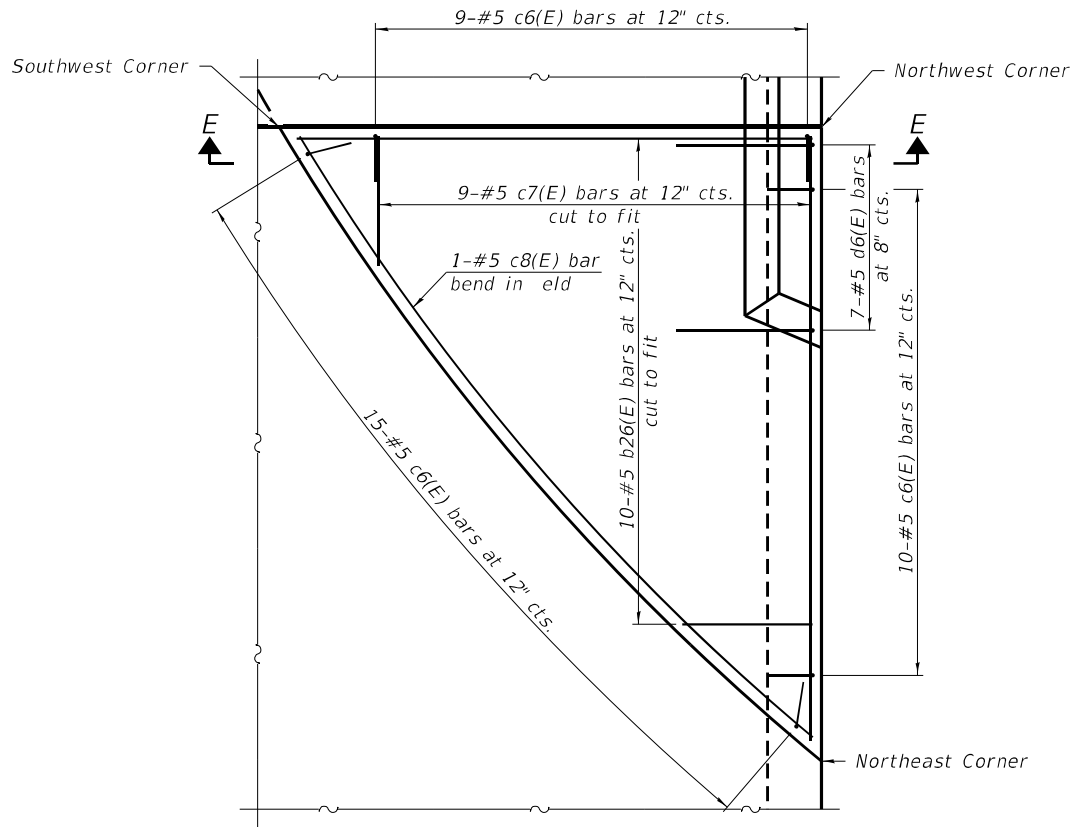


PART CROSS-SECTION - NEAR ABUTMENT
(Looking North)



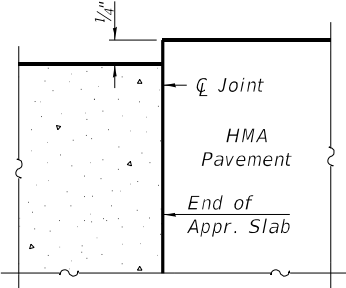
PLAN OF ISLAND

Note:
For Section D-D, see sheet 22 of 41.

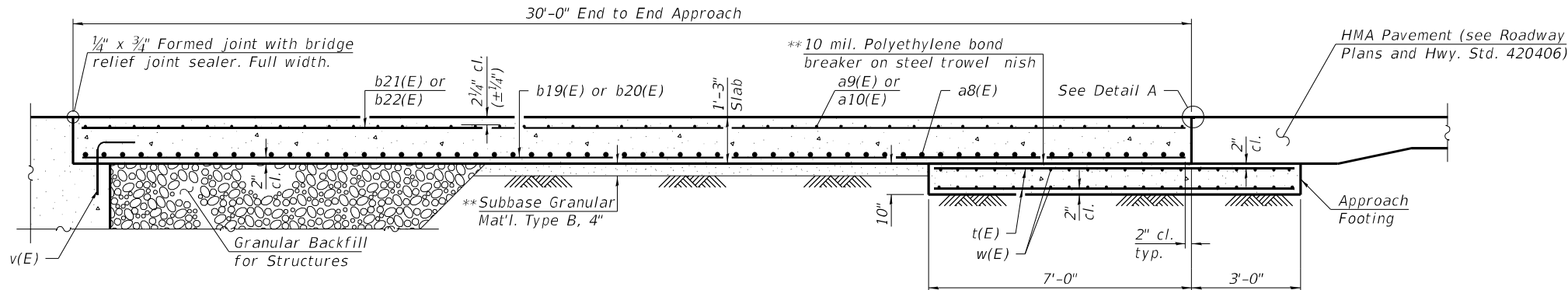


PLAN OF WEST CURB

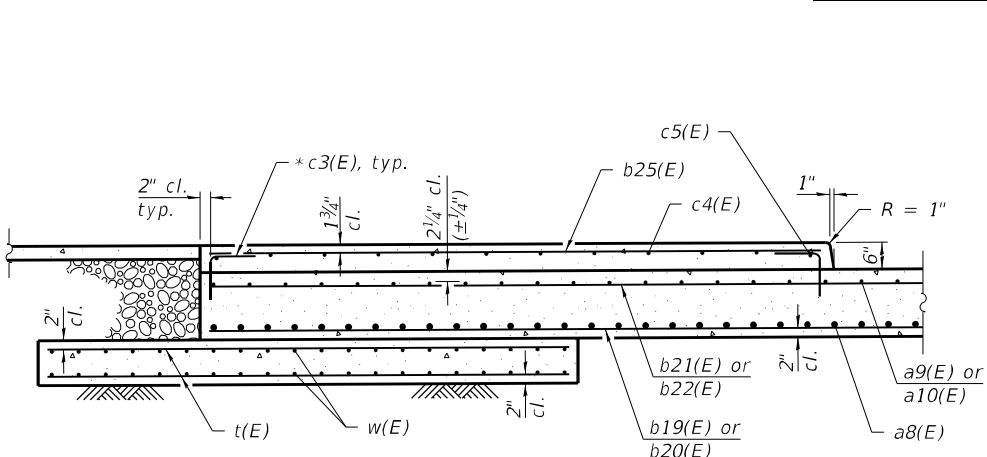
* Drill and set #5 c3(E) and c6(E) bars according to Article 509.06 of the Standard Specifications. Drilled holes shall be roughened or scored per manufacturer's recommendation. Hole depth shall be deep enough to provide 1 3/4" clearance to top of c3(E) and c6(E) bars and top of curb, with a minimum hole depth of 6". Locate Longitudinal bars to miss drilled holes. Locate drilled holes to miss Transverse bars in appr. slab.
 ** Cost included with Concrete Superstructure (Approach Slab).



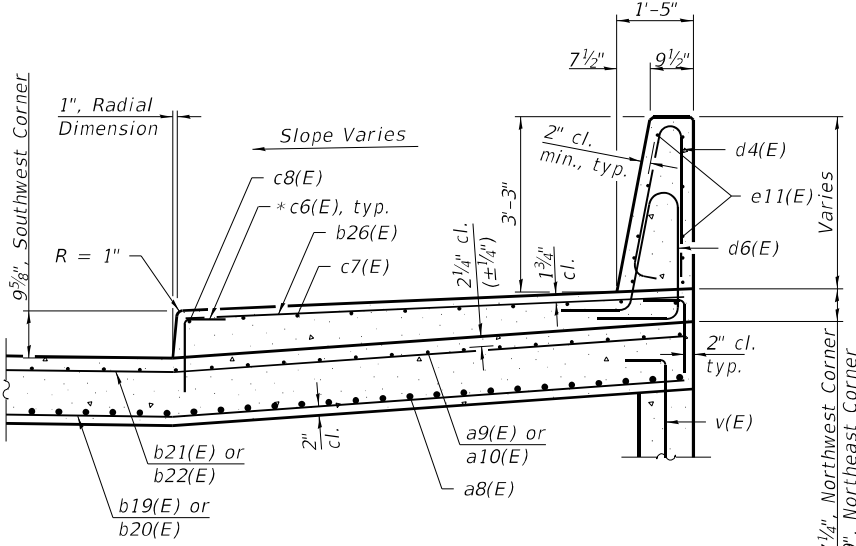
DETAIL A



SECTION B-B



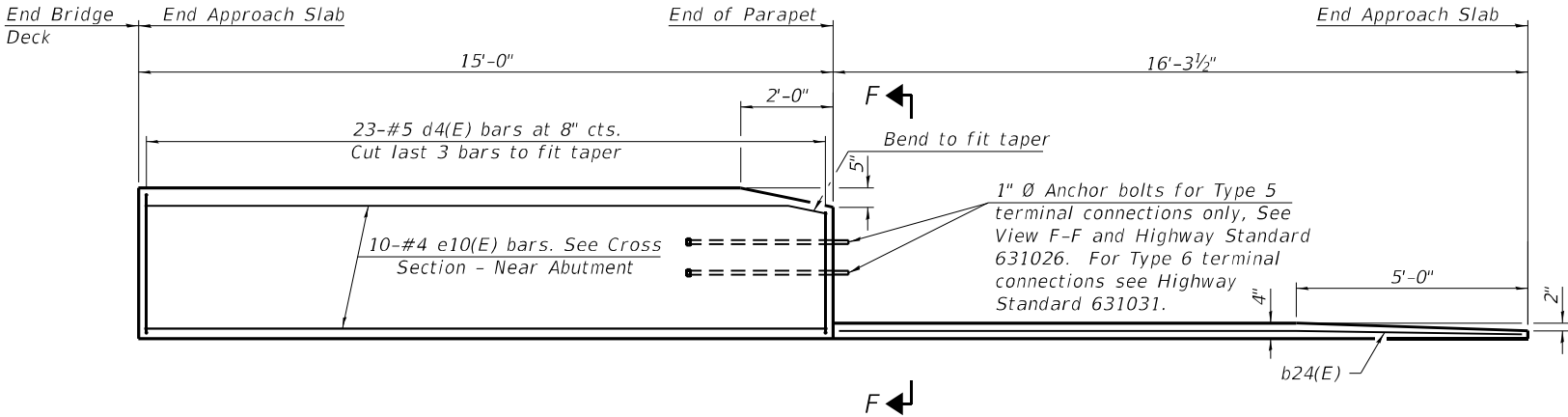
SECTION D-D



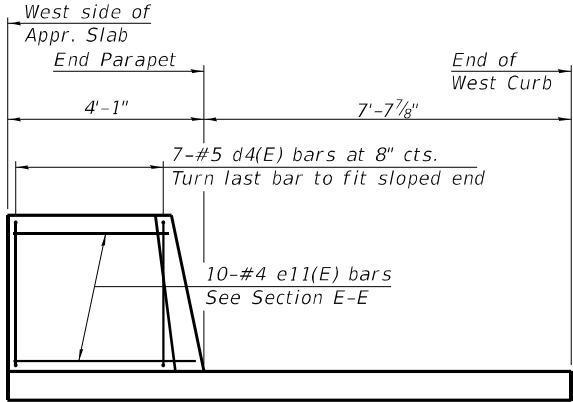
SECTION E-E

Notes:
 For location of Section B-B, see sheet 19 of 41.
 For location of Section D-D, see sheet 21 of 41.

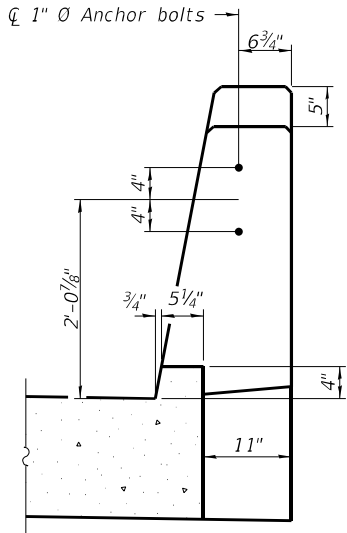
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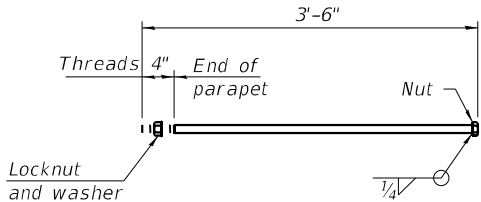
INSIDE ELEVATION OF EAST PARAPET AND CURB



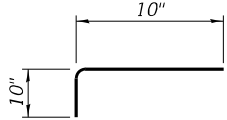
INSIDE ELEVATION OF WEST PARAPET AND CURB



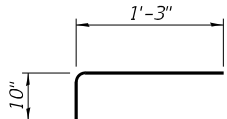
VIEW F-F



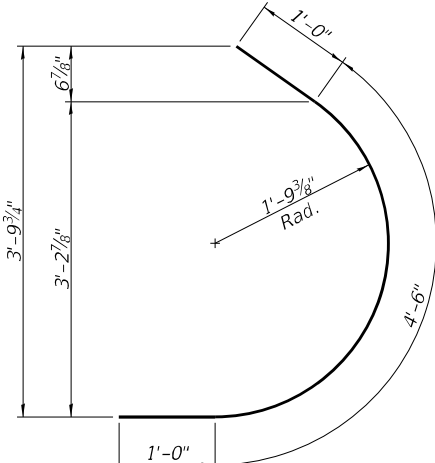
* 1" Ø ANCHOR BOLT
(Anchor bolt assemblies shall be galvanized according to Article 1006.09 of the Standard Specifications)



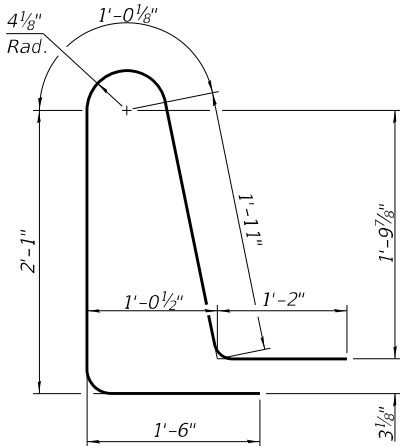
BAR c3(E)



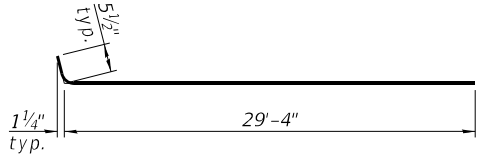
BAR c6(E)



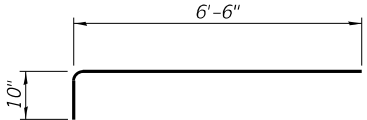
BAR c5(E)



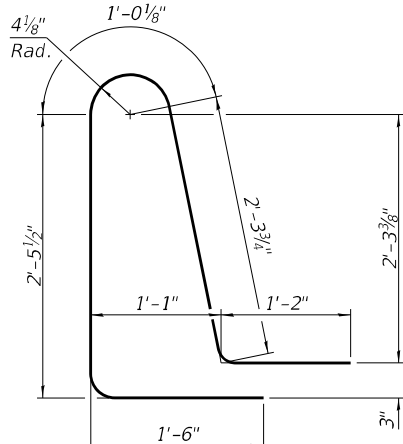
BAR d6(E)



BAR a10(E)



BAR a11(E)



BAR d5(E)

BILL OF MATERIAL

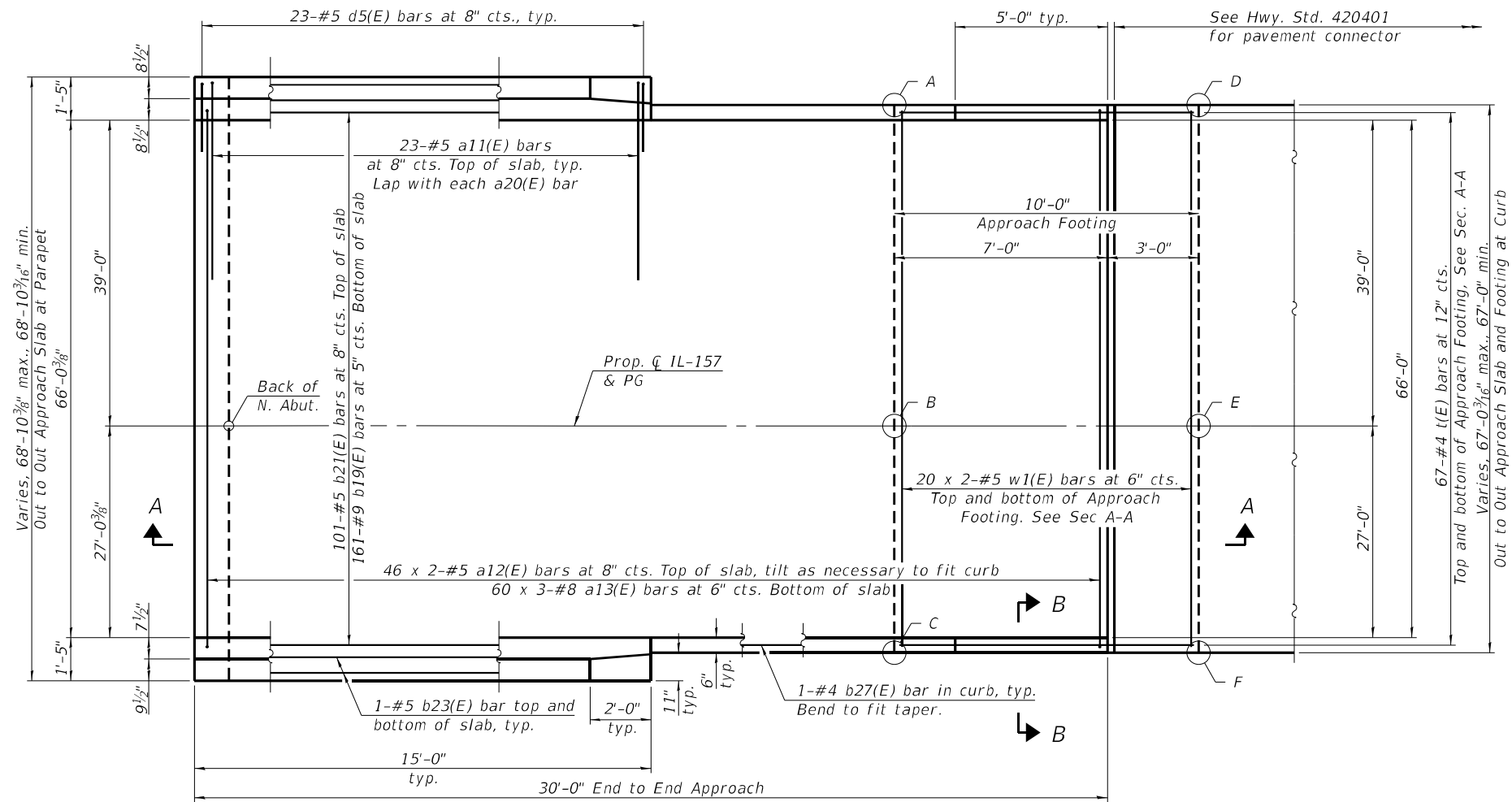
Bar	No.	Size	Length	Shape
a8(E)	180	#8	38'-9"	
a9(E)	138	#5	29'-4"	
a10(E)	46	#5	29'-10"	
a11(E)	23	#5	7'-4"	
b19(E)	255	#9	29'-8"	
b20(E)	1	#9	30'-11"	
b21(E)	159	#5	29'-8"	
b22(E)	1	#5	30'-11"	
b23(E)	4	#5	14'-8"	
b24(E)	1	#4	16'-0"	
b25(E)	13	#5	14'-0"	
b26(E)	10	#5	9'-6"	
c3(E)	39	#5	1'-8"	
c4(E)	10	#5	11'-0"	
c5(E)	1	#5	6'-6"	
c6(E)	34	#5	2'-1"	
c7(E)	9	#5	11'-5"	
c8(E)	1	#5	14'-9"	
d4(E)	30	#5	6'-5"	
d5(E)	23	#5	8'-6"	
d6(E)	7	#5	7'-8"	
e10(E)	10	#4	14'-8"	
e11(E)	10	#4	3'-9"	
t(E)	256	#4	9'-8"	
w(E)	200	#5	28'-5"	
Concrete Structures			Cu. Yd.	39.2
Concrete Superstructure			Cu. Yd.	5.8
Bridge Deck Grooving			Sq. Yd.	315
Concrete Superstructure (Approach Slab)			Cu. Yd.	143.0
Reinforcement Bars, Epoxy Coated			Pound	64,150

Notes:
The Approach Footing is a continuous footing supporting the South Approach Slabs of both this structure and S.N. 060-7003. Quantities for reinforcement and concrete are included in this structure plans.
Parapet, west curb, and island 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 Back II for Structures and drainage treatment details, see sheet 2 of 41. For Section E-E, see sheet 22 of 41. For d4(E) bar bending diagram, see sheet 15 of 41.

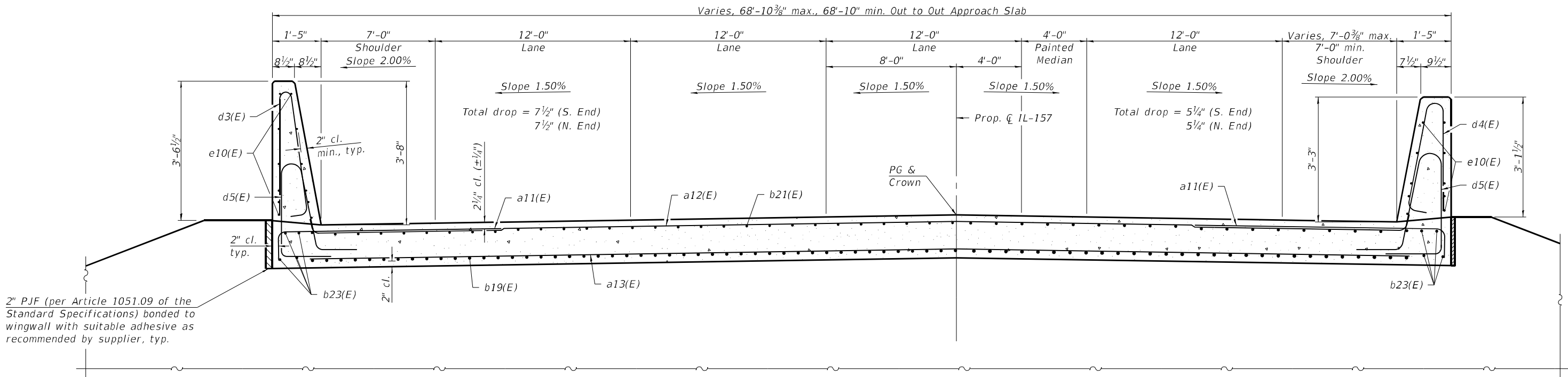
* Cost included with Concrete Superstructure (Approach Slab).

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PLAN



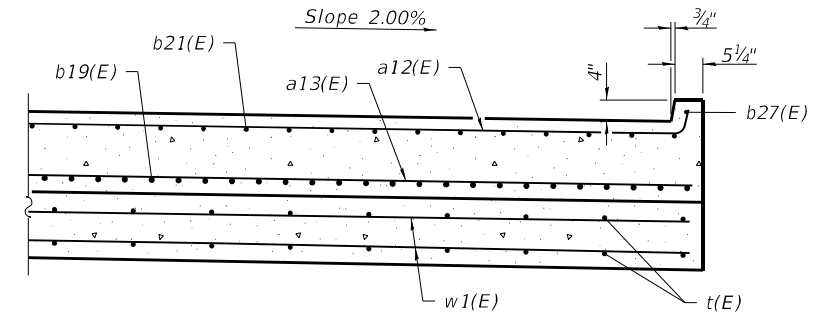
CROSS SECTION - NEAR ABUTMENT
(Looking North)

TOP AND BOTTOM ELEVATIONS
FOR APPROACH FOOTING

Point/Location	Station	Offset	Top	Bottom
A	585+60.67	-39.50'	446.21	445.38
B	585+60.67	0.00'	446.84	446.01
C	585+60.67	27.50'	446.39	445.56
D	585+70.67	-39.50'	446.26	445.43
E	585+70.67	0.00'	446.89	446.06
F	585+70.67	27.50'	446.44	445.61

MINIMUM BAR LAP

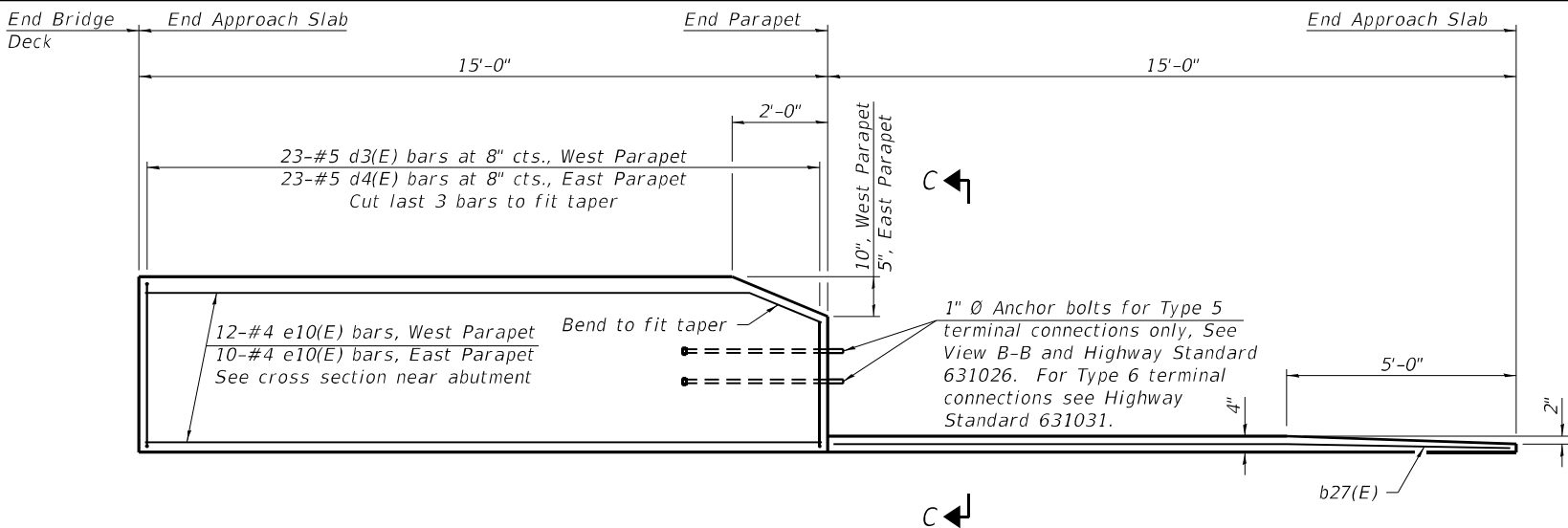
#5(E) bar = 3'-6"
#8(E) bar = 4'-9"



SECTION B-B

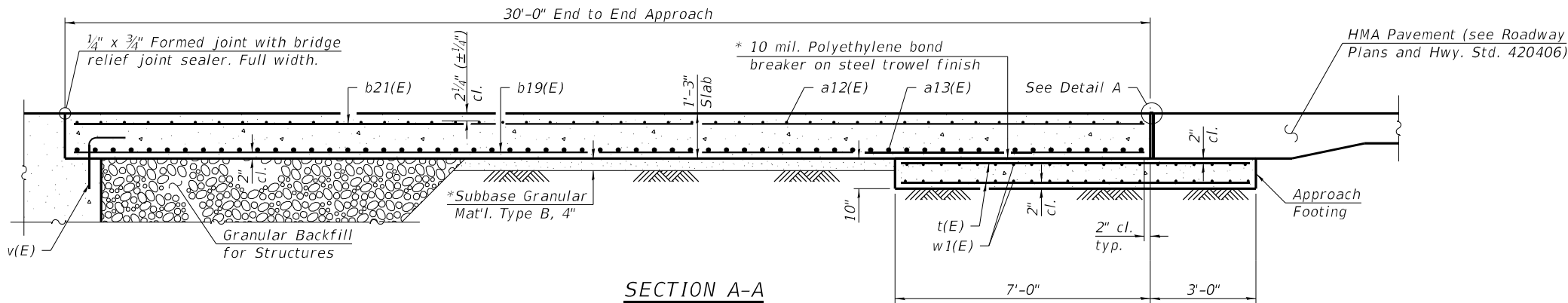
Notes:
For Section A-A, see sheet 25 of 41.
Bars indicated thus 46 x 2-#5 etc. indicates 46 lines of bars with 2 lengths per line.

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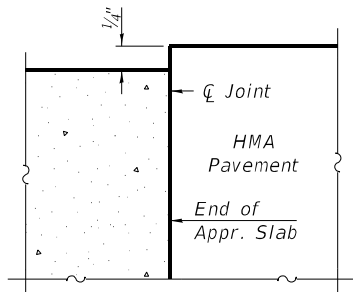


INSIDE ELEVATION OF PARAPET AND CURB

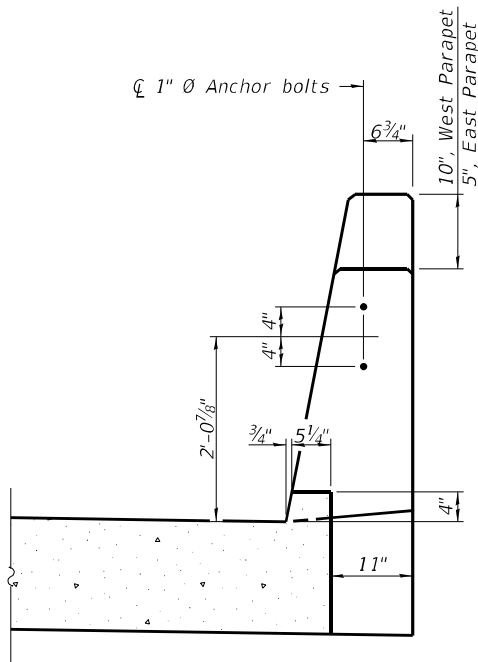
Notes:
Parapet concrete shall be paid for as Concrete Superstructure.
Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
Approach footing concrete shall be paid for as Concrete Structures.
The approach footing maximum applied service bearing pressure (Q_{max}) = 2.0 ksf.
Cost of excavation for approach footing included with Concrete Structures.
For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 41.



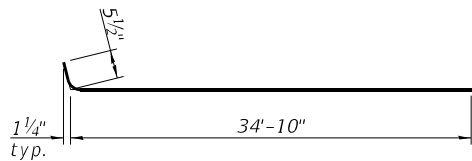
SECTION A-A



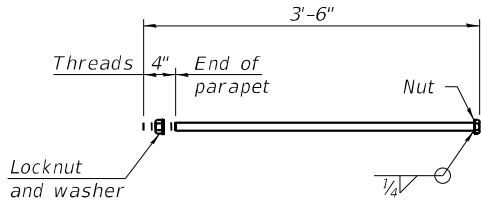
DETAIL A



VIEW C-C



BAR a12(E)



*1" Ø ANCHOR BOLT

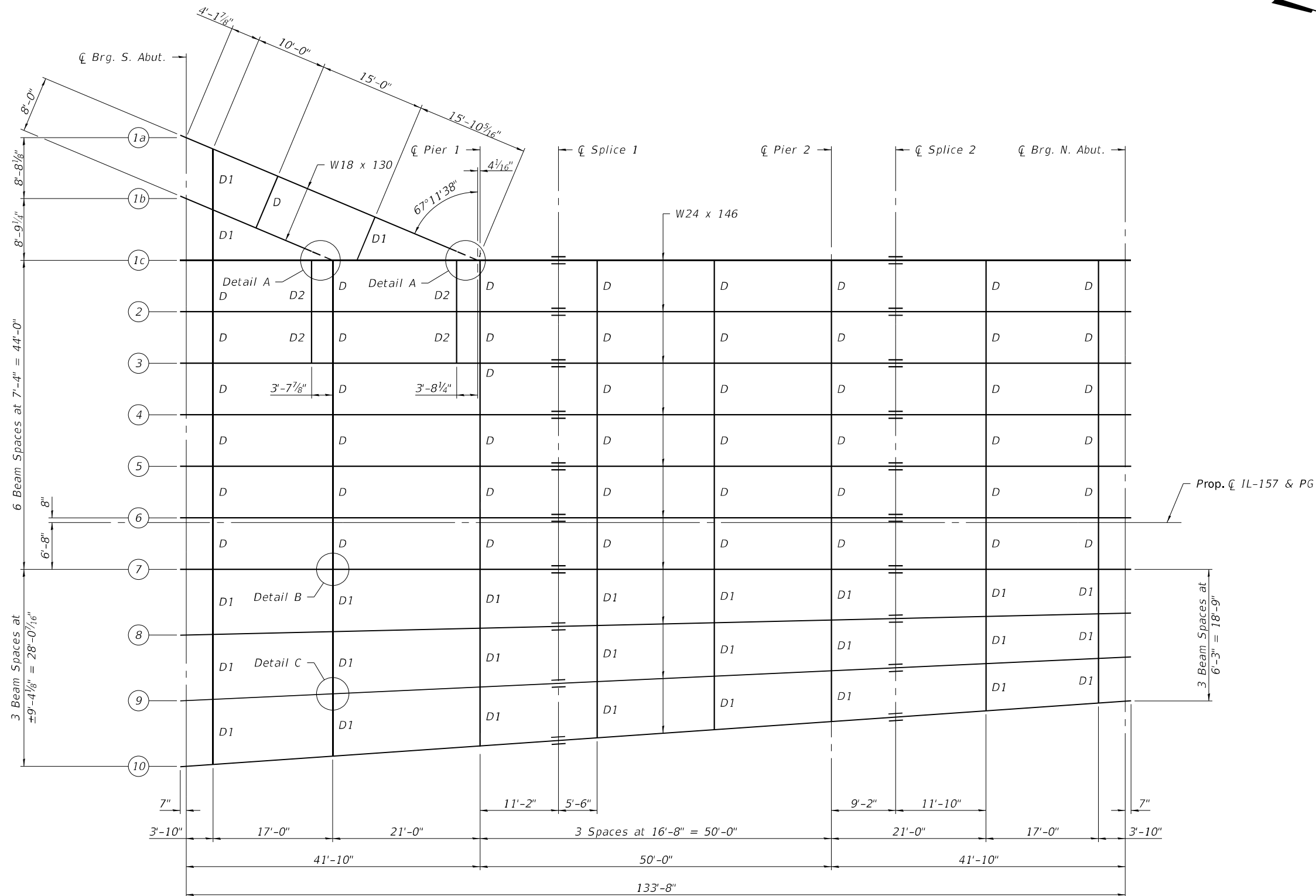
(Anchor bolt assemblies shall be galvanized according to Article 1006.09 of the Standard Specifications)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a11(E)	46	#5	7'-4"	
a12(E)	92	#5	35'-5"	
a13(E)	180	#8	25'-5"	
b19(E)	161	#9	29'-8"	
b21(E)	101	#5	29'-8"	
b23(E)	8	#5	14'-8"	
b27(E)	2	#4	14'-8"	
d3(E)	23	#5	7'-0"	
d4(E)	23	#5	6'-5"	
d5(E)	46	#5	8'-6"	
e10(E)	22	#4	14'-8"	
t(E)	134	#4	9'-8"	
w1(E)	80	#5	35'-0"	
Concrete Structures			Cu. Yd.	20.7
Concrete Superstructure			Cu. Yd.	4.1
Bridge Deck Grooving			Sq. Yd.	213
Concrete Superstructure (Approach Slab)			Cu. Yd.	94.5
Reinforcement Bars, Epoxy Coated			Pound	40,210

Notes:
For Location of Section A-A, see sheet 24 of 41.
For a11(E), d3(E), d4(E), and d5(E) bar bending diagrams, see sheets 15 and 23 of 41.

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FRAMING PLAN

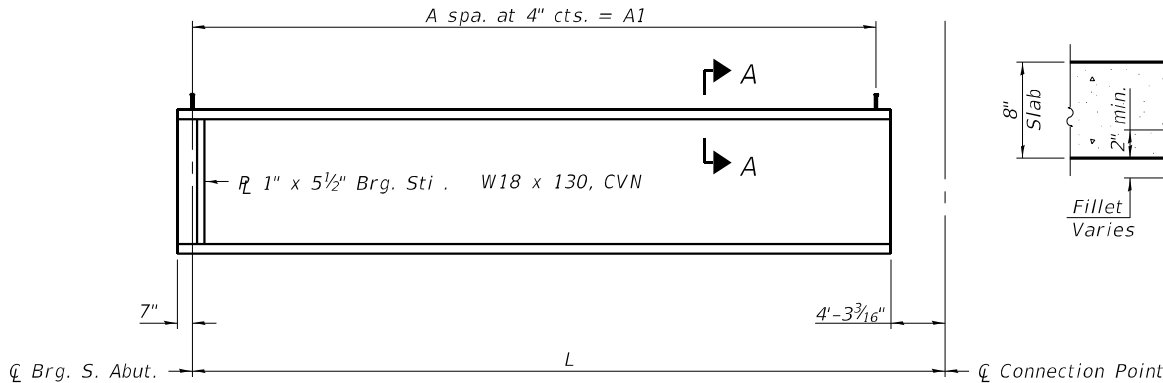
Notes:
All diaphragms between beams shall be installed with erection pins and bolts in accordance with the erection plan approved by the Engineer. Individual diaphragms at supports may be temporarily disconnected to install bearing anchor bolts.
For Details A thru C, see sheet 28 of 41.

FUHRMANN ENGINEERING WWW.FUHRMANN-ENG.COM	USER NAME = _____	DESIGNED - T.S. Friederich	REVISED - _____	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		FRAMING PLAN STRUCTURE NO. 060-0229		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CHECKED - E.M. Lagemann	REVIS	ED - _____					*	51-1R	MADISON	296	168
	PLOT SCALE = _____	DRAWN - T.S. Friederich	REVISED - _____					CONTRACT NO. 76A46				
	PLOT DATE = _____	CHECKED - E.M. Lagemann	REVISED - _____					SHEET 26 OF 41 SHEETS		ILLINOIS	FED. AID PROJECT	

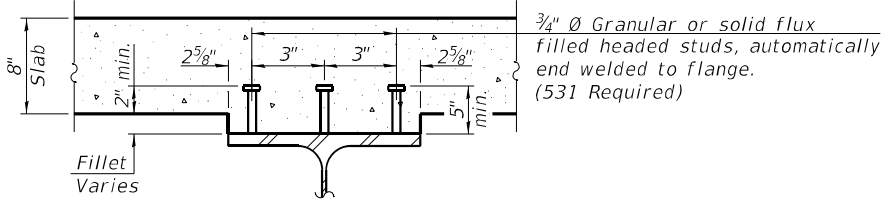
*TOP OF BEAM ELEVATIONS

Beam	℄ Brg. S. Abut.	Beam 1b Connection	Beam 1a Connection	℄ Pier 1	℄ Splice 1	℄ Pier 2	℄ Splice 2	℄ Brg. N. Abut.
1a	446.12	---	446.18	---	---	---	---	---
1b	445.84	446.08	---	---	---	---	---	---
1c	445.98	446.08	446.18	446.18	446.23	446.43	446.48	446.64
2	446.10	---	---	446.31	446.37	446.57	446.61	446.78
3	446.21	---	---	446.42	446.48	446.68	446.72	446.89
4	446.32	---	---	446.53	446.59	446.79	446.83	447.00
5	446.43	---	---	446.64	446.70	446.90	446.94	447.11
6	446.54	---	---	446.75	446.81	447.01	447.05	447.22
7	446.45	---	---	446.66	446.72	446.92	446.96	447.13
8	446.31	---	---	446.54	446.60	446.81	446.86	447.03
9	446.15	---	---	446.40	446.46	446.69	446.75	446.94
10	445.96	---	---	446.23	446.30	446.55	446.61	446.82

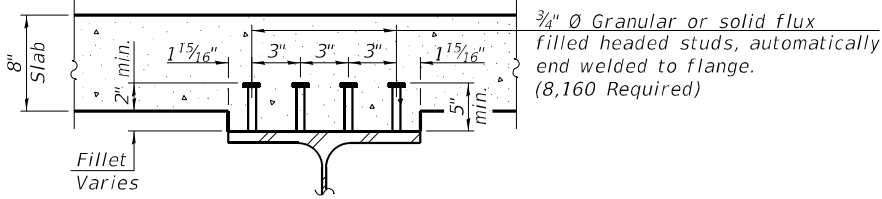
*For Fabrication Only



ELEVATION - BEAMS 1a AND 1b

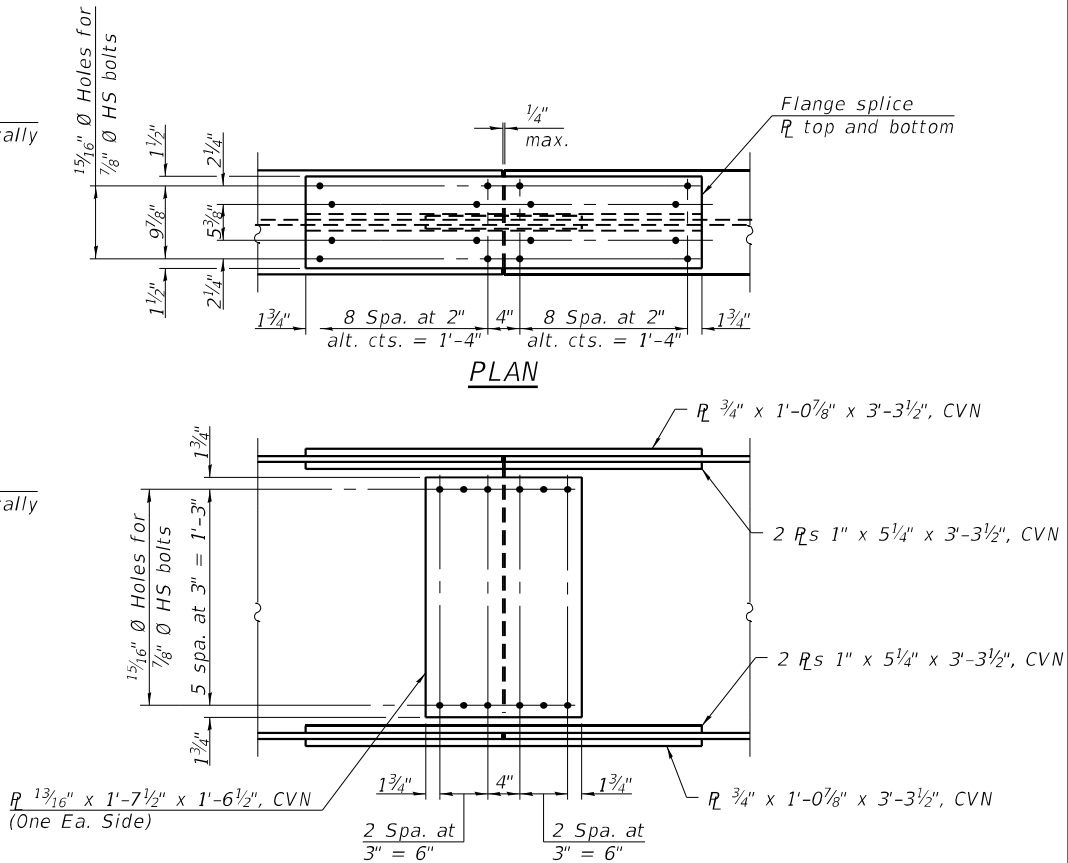


SECTION A-A

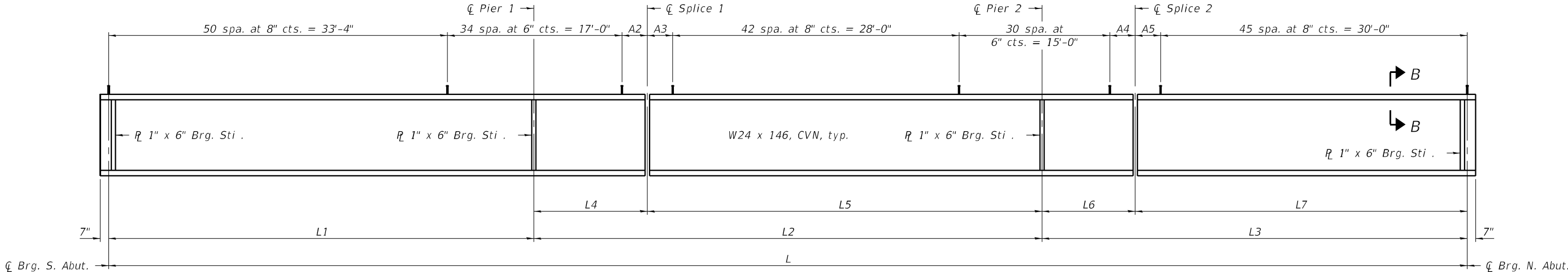


SECTION B-B

Notes:
Structural steel for all Beams, Brg. Stiffeners, splices, and Diaphragm D2 shall be AASHTO M270, Gr. 50.
For location of dimensions L8 thru L12, see sheet 4 of 41.



ELEVATION
SPLICE DETAIL
(20 Required)



ELEVATION - BEAM 1c THRU BEAM 10
"CVN" denotes Charpy-V-Notch impact energy requirements, zone 2.

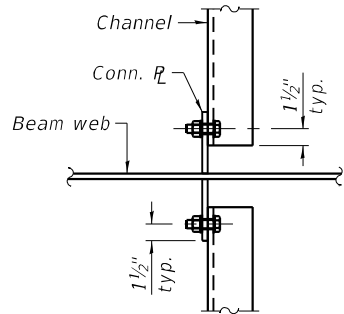
TABLE OF "L" DIMENSIONS

Beam	L	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	L12
1a	45'-0 3/16"	---	---	---	---	---	---	---	1'-11 7/8"	---	±11'-3 1/16"	---	---
1b	22'-7 9/16"	---	---	---	---	---	---	---	1'-11 7/8"	---	±5'-7 7/8"	---	---
1c	133'-8"	41'-10"	50'-0"	41'-10"	11'-2"	38'-10"	9'-2"	32'-8"	1'-10"	1'-10"	10'-5 1/2"	12'-6"	10'-5 1/2"
2 thru 7	133'-8"	41'-10"	50'-0"	41'-10"	11'-2"	38'-10"	9'-2"	32'-8"	1'-10"	1'-10"	10'-5 1/2"	12'-6"	10'-5 1/2"
8	133'-8 7/16"	41'-10 1/8"	50'-0 3/16"	41'-10 1/8"	11'-2 1/16"	38'-10 1/8"	9'-2"	32'-8 1/16"	1'-10"	1'-10"	±10'-5 1/2"	±12'-6 1/16"	±10'-5 1/2"
9	133'-9 3/4"	41'-10 9/16"	50'-0 3/8"	41'-10 9/16"	11'-2 1/8"	38'-10 1/2"	9'-2 1/8"	32'-8 1/8"	1'-10"	1'-10"	±10'-5 5/8"	±12'-6 1/8"	±10'-5 5/8"
10	133'-11 13/16"	41'-11 3/16"	50'-1 7/16"	41'-11 3/16"	11'-2 5/16"	38'-11 1/8"	9'-2 1/4"	32'-8 15/16"	1'-10 1/16"	1'-10 1/16"	±10'-5 13/16"	±12'-6 3/8"	±10'-5 13/16"

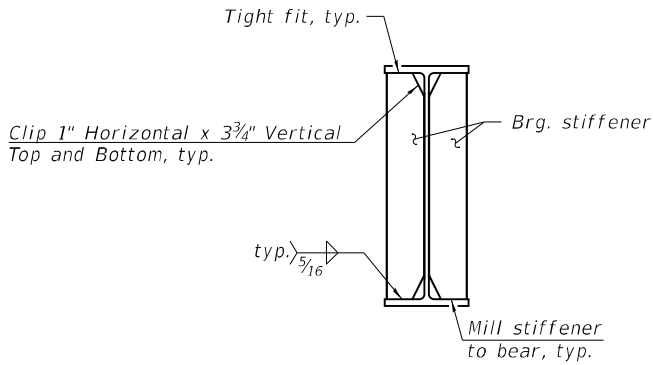
TABLE OF "A" DIMENSIONS

Beam	A	A1	A2	A3	A4	A5
1a	121	40'-4"	---	---	---	---
1b	54	18'-0"	---	---	---	---
1c	---	---	2'-8"	2'-6"	2'-6"	2'-8"
2 thru 6	---	---	2'-8"	2'-6"	2'-6"	2'-8"
7	---	---	2'-8"	2'-6"	2'-6"	2'-8"
8	---	---	2'-8 1/4"	2'-6 1/16"	2'-6 1/16"	2'-8 1/16"
9	---	---	2'-8 1/16"	2'-6 5/16"	2'-6 5/16"	2'-8 7/16"
10	---	---	2'-9 1/2"	2'-6 1 1/16"	2'-6 1 1/16"	2'-8 1 1/16"

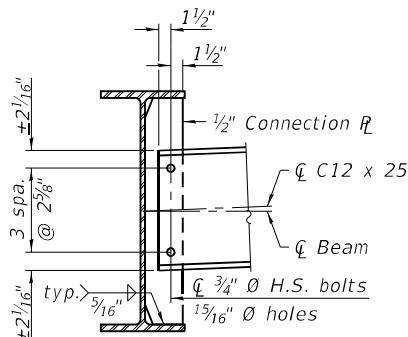
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3/5/2024 11:06:05 AM



DETAIL B



BEARING STIFFENER DETAIL



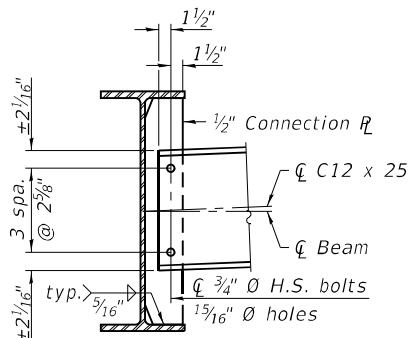
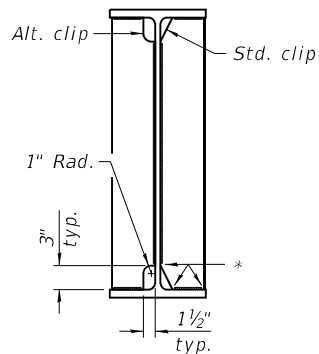
INTERIOR DIAPHRAGM

WELD LIMITS AND CLIP DETAILS

* Stop welds 1/4" ($\pm 1/8$ ") from edges as shown. Typical.

DIAPHRAGM D DETAILS

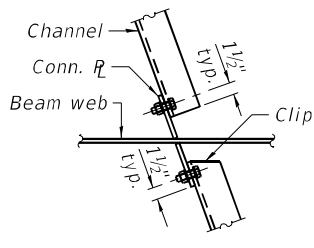
(49 required)



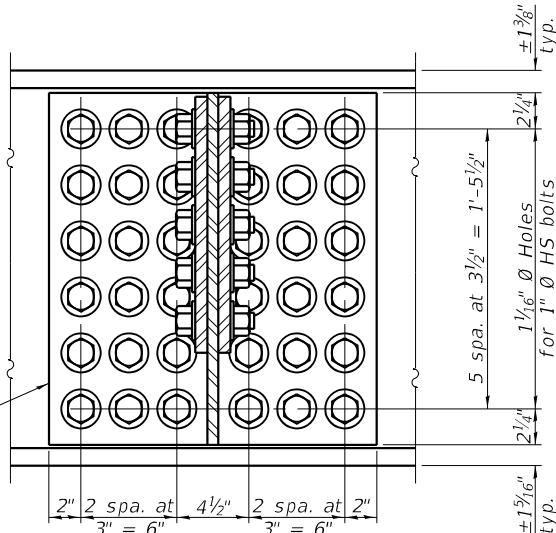
INTERIOR DIAPHRAGM

DIAPHRAGM D1 DETAILS

(27 required)



DETAIL C



SECTION B-B

Notes:

The bend line of the bent plate for the Beam 1a and 1b connection shall be perpendicular to final rolling.

Fasteners for Beams 1a and 1b connection, and Diaphragm D2 connection shall be ASTM F 3125 Grade A490 Type 1, mechanically galvanized bolts in painted areas.

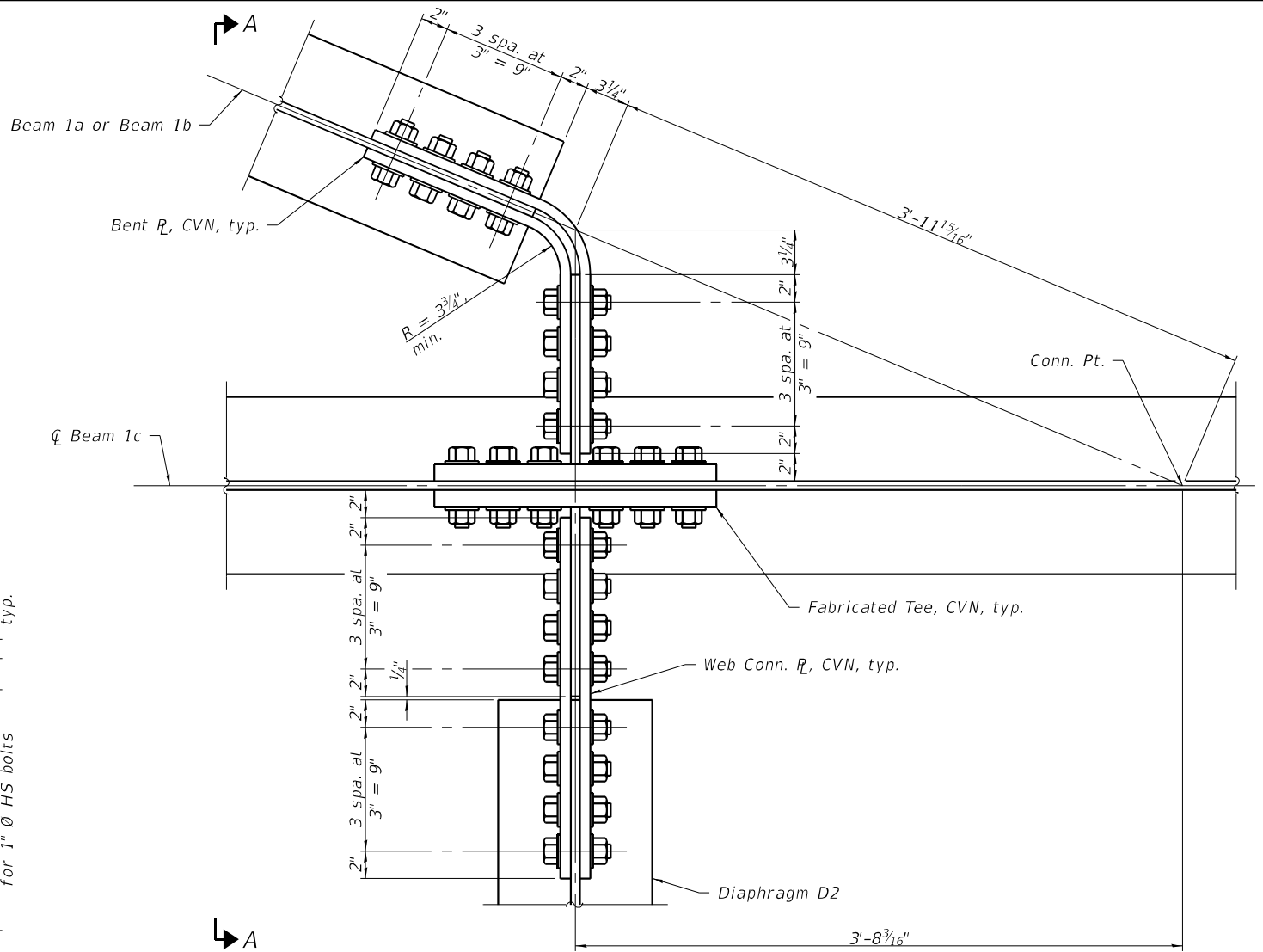
Structural steel for bent plates of Beams 1a and 1b connection shall be AASHTO M270 Grade 70W.

Structural steel for Diaphragms D2, fabricated tee, and web connection plates, shall be AASHTO M270 Grade 50.

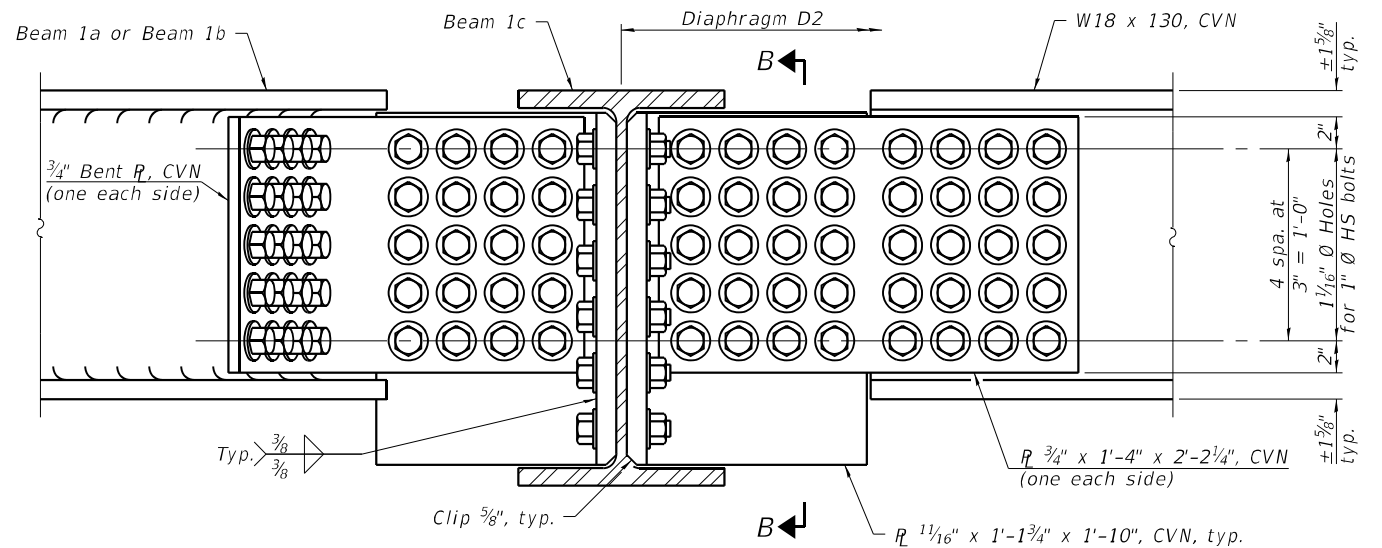
"CVN" denotes Charpy-V-Notch impact energy requirements, zone 2.

All diaphragms between beams shall be installed with erection pins and bolts in accordance with the erection plan approved by the Engineer. Individual diaphragms at supports may be temporarily disconnected to install bearing anchor bolts.

For location of Details A thru C, see sheet 26 of 41.



DETAIL A



SECTION A-A AND DIAPHRAGM D2 DETAILS

(4 Diaphragm D2 required)

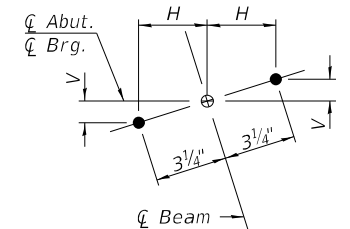
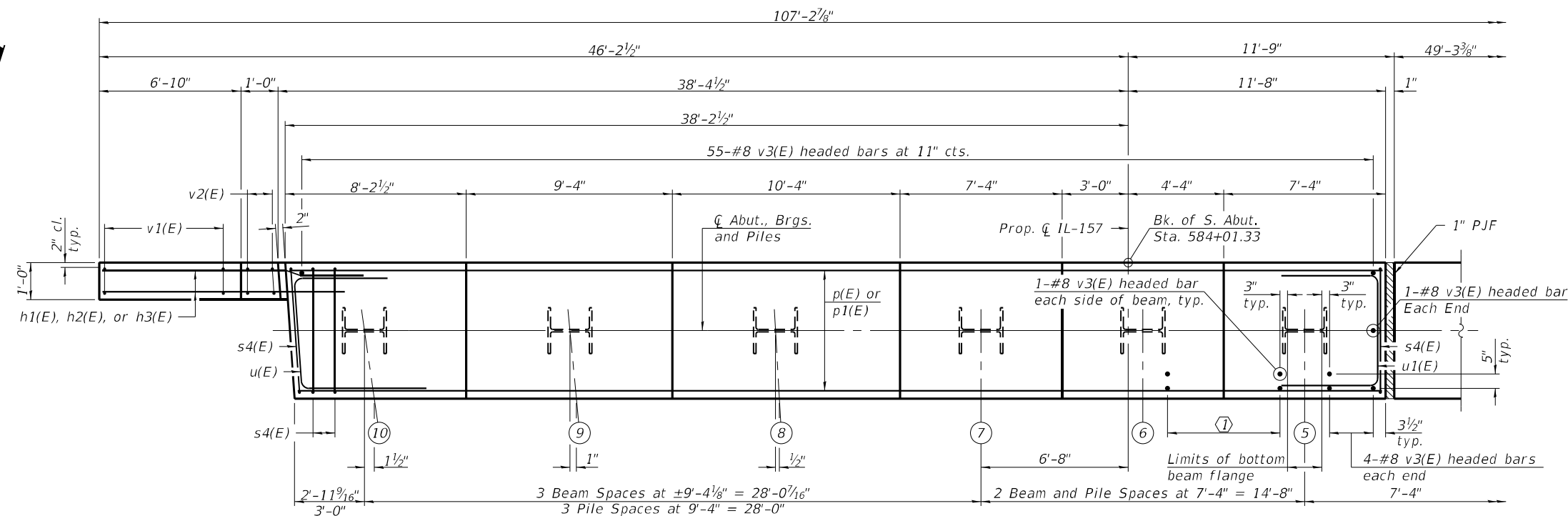
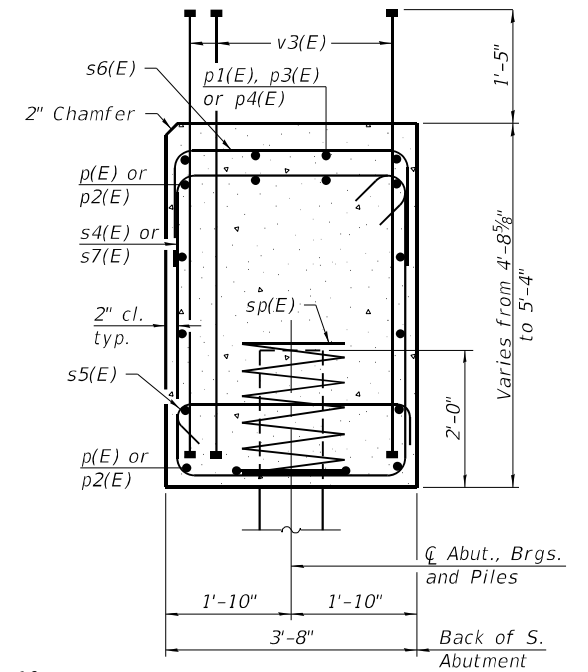
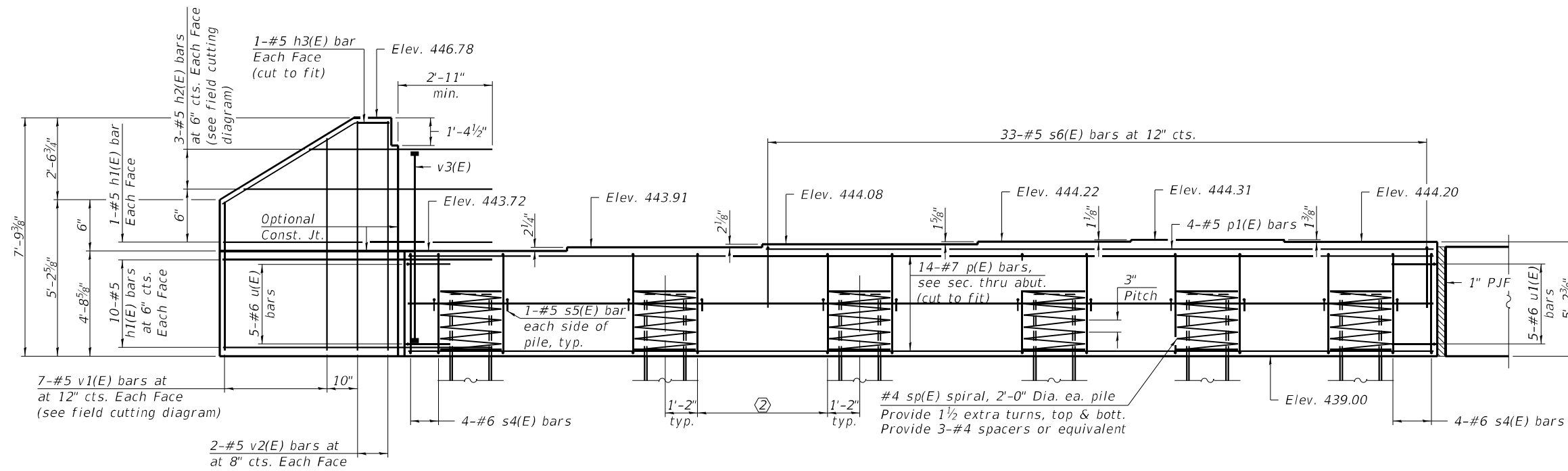
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3/8/2024 8:39:30 AM

FULL LENGTH BEAM MOMENT TABLE																					
		0.4 Span 1				Pier 1				0.5 Span 2				Pier 2				0.6 Span 3			
		Beam 1c	Beam 2	Beam 9	Beam 10	Beam 1c	Beam 2	Beam 9	Beam 10	Beam 1c	Beam 2	Beam 9	Beam 10	Beam 1c	Beam 2	Beam 9	Beam 10	Beam 1c	Beam 2	Beam 9	Beam 10
I _s	(in ⁴)	4,580	4,580	4,580	4,580	4,580	4,580	4,580	4,580	4,580	4,580	4,580	4,580	4,580	4,580	4,580	4,580	4,580	4,580	4,580	
I _c (n)	(in ⁴)	12,827	13,074	13,657	13,163	12,827	13,074	13,462	13,046	12,827	13,074	13,253	12,925	12,827	13,074	13,024	12,798	12,827	13,074	12,773	
I _c (3n)	(in ⁴)	9,445	9,691	10,297	9,781	9,445	9,691	10,091	9,663	9,445	9,691	9,873	9,542	9,445	9,691	9,641	9,418	9,445	9,691	9,393	
I _c (cr)	(in ⁴)	—	—	—	—	6,390	—	—	—	—	—	—	—	6,390	—	—	—	—	—	—	
S _s	(in ³)	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371	
S _c (n)	(in ³)	548	552	560	553	548	552	557	551	548	552	554	549	548	552	551	547	548	552	547	
S _c (3n)	(in ³)	496	500	510	501	496	500	507	499	496	500	503	497	496	500	499	495	496	500	495	
S _c (cr)	(in ³)	—	—	—	—	428	—	—	—	—	—	—	—	428	—	—	—	—	—	—	
DC1	(k/')	1.028	0.906	1.069	1.101	1.028	0.906	1.011	1.071	1.028	0.906	0.973	1.043	1.028	0.906	0.895	1.014	1.028	0.906	0.837	
M _{DC1}	(k)	205.7	114.2	137.7	139.8	-266.3	-196.1	-221.7	-232.4	88.6	93.6	98.6	107.2	-209.7	-197.4	-192.7	-218.6	135.4	116.0	104.9	
DC2	(k/')	2.000	0.150	0.179	0.179	3.500	-0.250	0.179	0.179	0.600	0.030	0.179	0.179	0.700	-0.090	0.179	0.179	0.600	0.030	0.179	
M _{DC2}	(k)	52.3	3.4	22.5	22.6	-163.5	24.7	-38.2	-38.3	52.2	-2.4	18.3	18.4	-127.3	12.1	-37.5	-37.6	84.7	1.0	22.8	
DW	(k/')	0.267	0.367	0.454	0.308	0.267	0.367	0.425	0.293	0.267	0.367	0.396	0.278	0.267	0.367	0.367	0.264	0.267	0.367	0.338	
M _{DW}	(k)	33.4	45.9	57.6	39.4	-56.7	-77.9	-90.1	-63.0	27.2	37.4	40.2	28.7	-55.6	-76.4	-73.8	-54.5	33.8	46.4	41.0	
LLDF		0.691	0.691	0.798	0.798	0.680	0.680	0.747	0.747	0.670	0.670	0.699	0.699	0.680	0.680	0.672	0.672	0.691	0.691	0.643	
M _L + IM	(k)	449.4	449.8	522.0	520.7	-477.1	-477.4	-530.2	-530.3	416.5	416.6	436.3	440.1	-453.9	-453.6	-451.3	-452.5	425.2	425.1	397.1	
M _u	(k)	1,159.1	1,003.0	1,200.2	1,173.3	-1,457.2	-1,166.6	-1,387.9	-1,360.9	945.7	899.2	970.0	970.2	-1,299.0	-1,140.0	-1,188.2	-1,193.9	1,069.9	959.8	916.1	
Ø _r M _n	(k)	2,764.7	2,839.2	2,901.7	2,853.6	—	—	—	—	2,764.7	2,839.2	2,885.2	2,767.3	—	—	—	—	2,764.7	2,839.2	2,749.4	
f _s DC1	(ksi)	6.65	3.69	4.45	4.52	-8.61	-6.34	-7.17	-7.52	2.87	3.03	3.19	3.47	-6.78	-6.38	-6.23	-7.07	4.38	3.75	3.39	
f _s DC2	(ksi)	1.27	0.08	0.53	0.54	-3.96	0.59	-0.90	-0.92	-1.26	-0.06	0.44	0.44	-3.08	0.29	-0.90	-0.91	2.05	0.02	0.55	
f _s DW	(ksi)	0.81	1.10	1.35	0.94	-1.37	-1.87	-2.13	-1.51	0.66	0.90	0.96	0.69	-1.35	-1.83	-1.77	-1.32	0.82	1.11	0.99	
f _s (L/4 +IM)	(ksi)	9.84	9.79	11.18	11.30	-13.36	-13.44	-14.54	-14.73	9.12	9.06	9.45	9.61	-12.71	-12.77	-12.39	-12.48	9.31	9.25	8.71	
f _s (Service II)	(ksi)	21.52	17.60	20.87	20.70	-31.32	-25.09	-29.11	-29.09	16.65	15.65	16.87	17.10	-27.74	-24.53	-25.01	-25.53	19.36	16.91	16.26	
Service II Resistance	(ksi)	47.50	47.50	47.50	47.50	47.50	47.50	47.50	47.50	47.50	47.50	47.50	47.50	47.50	47.50	47.50	47.50	47.50	47.50	47.50	
f _s (Strength I)	(ksi)	—	—	—	—	-41.16	-33.51	-38.74	-38.59	—	—	—	—	-36.60	-32.71	-33.26	-33.80	—	—	—	
Ø _r F _n	(ksi)	—	—	—	—	50.00	50.00	50.00	50.00	—	—	—	—	50.00	50.00	50.00	50.00	—	—	—	
V _r	(k)	16.5	16.5	19.1	16.6	24.5	24.5	25.5	21.8	17.1	17.1	18.5	15.8	22.8	22.7	22.4	19.3	17.4	16.5	12.7	

FULL LENGTH BEAM REACTION TABLE																	
		South Abutment				Pier 1				Pier 2				North Abutment			
		Beam 1c	Beam 2	Beam 9	Beam 10	Beam 1c	Beam 2	Beam 9	Beam 10	Beam 1c	Beam 2	Beam 9	Beam 10	Beam 1c	Beam 2	Beam 9	Beam 10
LLDF		0.655	0.767	0.907	0.695	0.655	0.767	0.840	0.644	0.655	0.767	0.759	0.581	0.655	0.767	0.689	0.528
OCF		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
R _{DC1}	(k)	21.1	14.6	17.7	17.8	80.3	47.4	53.2	55.8	52.0	47.6	46.7	52.6	16.8	14.7	13.3	15.7
R _{DC2}	(k)	-0.2	1.0	2.8	2.9	62.8	-9.5	9.2	9.2	32.7	-4.8	9.1	9.1	10.9	-1.3	2.9	2.9
R _{DW}	(k)	4.2	5.8	7.3	5.0	13.6	18.7	21.6	15.1	13.6	18.6	18.2	13.4	4.2	5.8	5.1	3.9
R _L	(k)	40.4	47.3	59.8	45.8	77.9	91.3	100.1	76.7	76.5	89.5	88.7	68.0	42.2	49.4	44.3	34.0
R _{Im}	(k)	10.7	12.5	16.0	12.2	18.1	21.2	23.3	17.8	17.9	20.9	20.7	15.9	11.4	13.3	11.9	9.1
R _{Total} (Strength I)(Impact)	(k)	121.7	132.9	169.0	134.8	367.4	272.3	326.2	269.3	291.3	274.7	288.5	244.1	134.7	135.3	126.2	104.5
R _{Total} (Strength I)(No Impact)	(k)	103.1	111.1	141.2	113.4	335.7	235.1	285.5	238.1	260.1	238.1	252.3	216.3	114.8	112.0	105.4	88.5

Note:
For definition of terms, see sheet 30 of 41.

 WWW.FUHRMANN-ENG.COM	USER NAME = _____	DESIGNED - T.S. Friederich	REVISED - _____	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BEAM DETAILS III STRUCTURE NO. 060-0229	SHEET 29 OF 41 SHEETS	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = _____	CHECKED - E.M. Lagemann	REVISED - _____				*	51-1R	MADISON	296	171
	PLOT DATE = _____	DRAWN - T.S. Friederich	REVISED - _____				CONTRACT NO. 76A46				
		CHECKED - E.M. Lagemann	REVISED - _____				ILLINOIS		FED. AID PROJECT		



ANCHOR BOLT LAYOUT
BEAMS 5 THRU 10

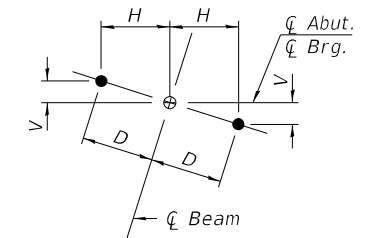
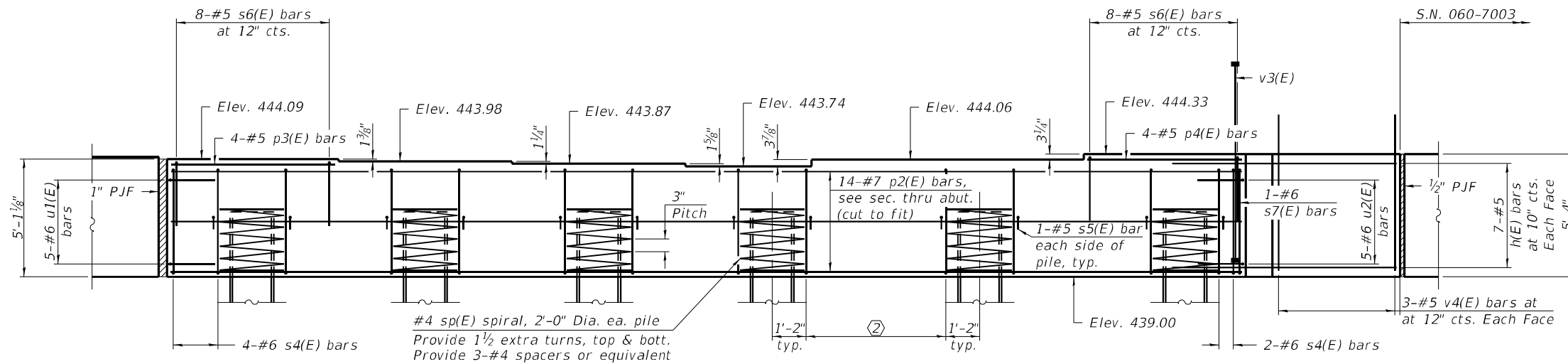
TABLE OF VARIABLE
DIMENSIONS

Beam	V	H
5 thru 7	0"	3¼"
8	1/16"	3¼"
9	1/8"	3¼"
10	1/4"	3¼"

PILE DATA

Type:	HP14x117
Nominal Required Bearing:	361 kips
Factored Resistance Available:	167 kips
Est. Length:	84 ft.
No. Production Piles:	11
No. Test Piles:	1

Notes:
PJF (per Article 1051.09 of the Standard Specifications)
shall be bonded between abutment caps with suitable adhesive
as recommended by supplier. Cost included with Concrete
Structures.
Pour steps monolithically with cap.
For west portion of South Abutment, Bill of Materials, and
bar bending diagrams, see sheet 32 of 41.
For details of piles, see sheet 37 of 41.



ANCHOR BOLT LAYOUT
BEAMS 1a THRU 4

TABLE OF VARIABLE
DIMENSIONS

Beam	D	V	H
1a & 1b	2 $\frac{3}{4}$ "	1 $\frac{1}{16}$ "	2 $\frac{9}{16}$ "
1c thru 4	3 $\frac{1}{4}$ "	0"	3 $\frac{1}{4}$ "

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h1(E)	14	#5	6'-0"	
h1(E)	22	#5	10'-11"	
h2(E)	3	#5	17'-8"	
h3(E)	2	#5	8'-0"	
p1(E)	14	#7	49'-6"	
p1(E)	4	#5	32'-0"	
p2(E)	14	#7	46'-8"	
p3(E)	4	#5	6'-11"	
p4(E)	4	#5	7'-11"	
s4(E)	84	#6	16'-10"	
s5(E)	24	#5	4'-4"	
s6(E)	49	#5	7'-0"	
s7(E)	1	#6	18'-7"	
sp(E)	12	#4	2'-0"	
u1(E)	5	#6	11'-11"	
u1(E)	10	#6	11'-11"	
u2(E)	5	#6	12'-2"	
v1(E)	7	#5	12'-1"	
v2(E)	4	#5	7'-5"	
v3(E)	238	#8	5'-11"	
v4(E)	6	#5	6'-3"	
Structure Excavation			Cu. Yd.	218
Concrete Structures			Cu. Yd.	68.3
Reinforcement bars, Epoxy Coated			Pound	10,270
Furnishing Steel Piles HP14x117			Foot	924
Driving Piles			Foot	924
Test Pile Steel HP14x117			Each	1

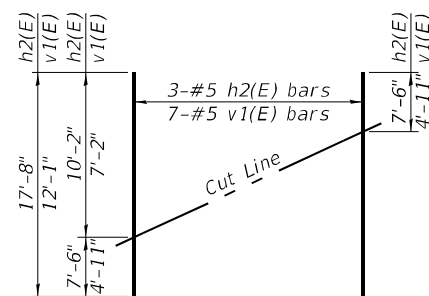
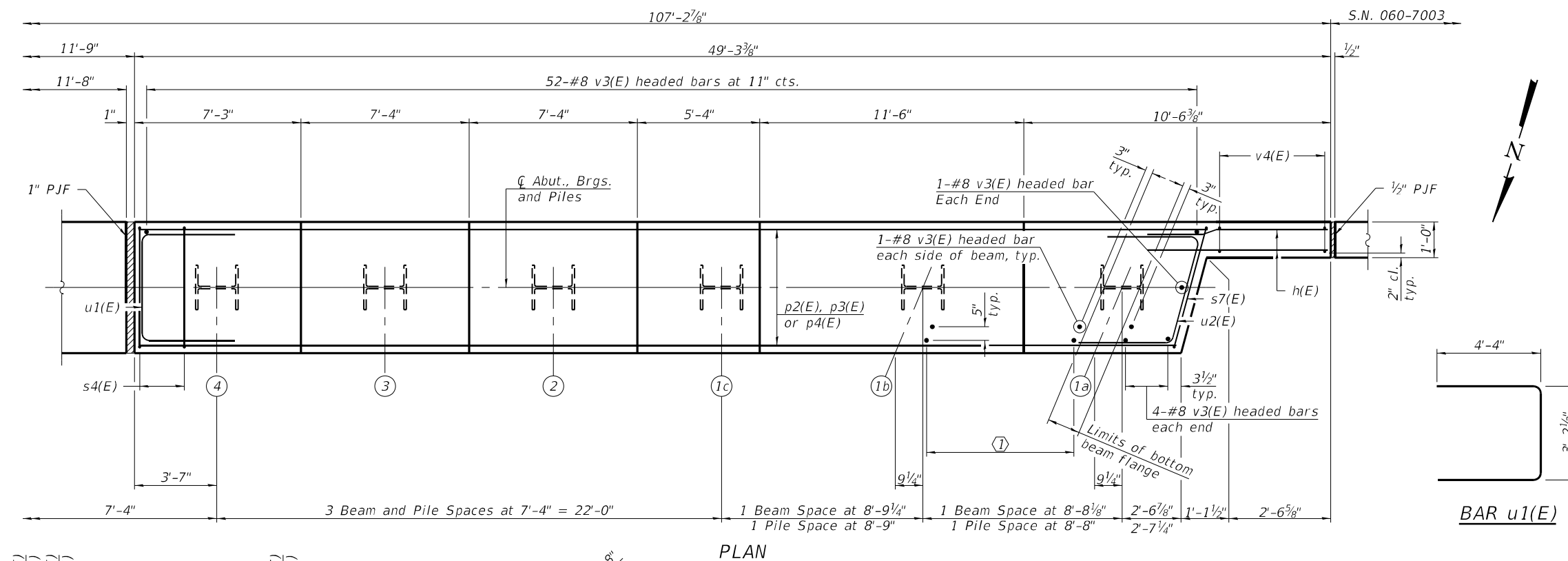
* Length is height of spiral.

Notes:
PJF (per Article 1051.09 of the Standard Specification)
shall be bonded between abutment caps with suitable
adhesive as recommended by supplier. Cost included with
Concrete Structures.

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.

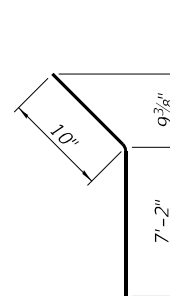
For Pile Data, Section Thru Abutment, and east portion of South Abutment, see sheet 31 of 41.

For details of piles see sheet 37 of 41.

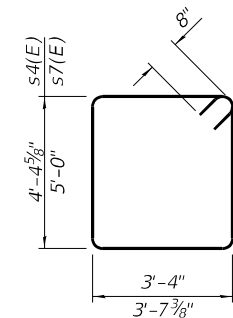


FIELD CUTTING DIAGRAM

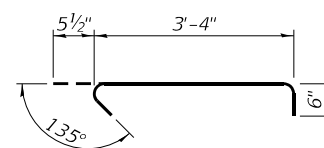
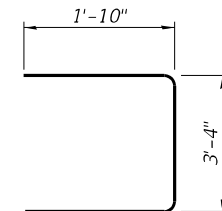
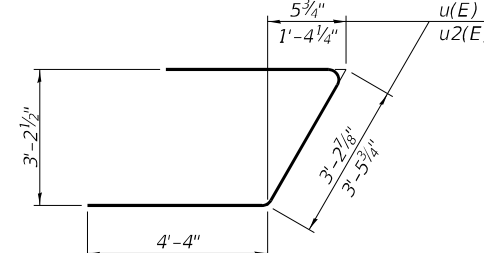
Order h2(E) and v1(E) full length. Cut as shown and use remainder of bars in opposite face of wing.



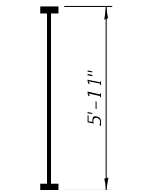
BAR h3(E)

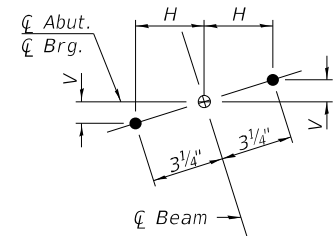
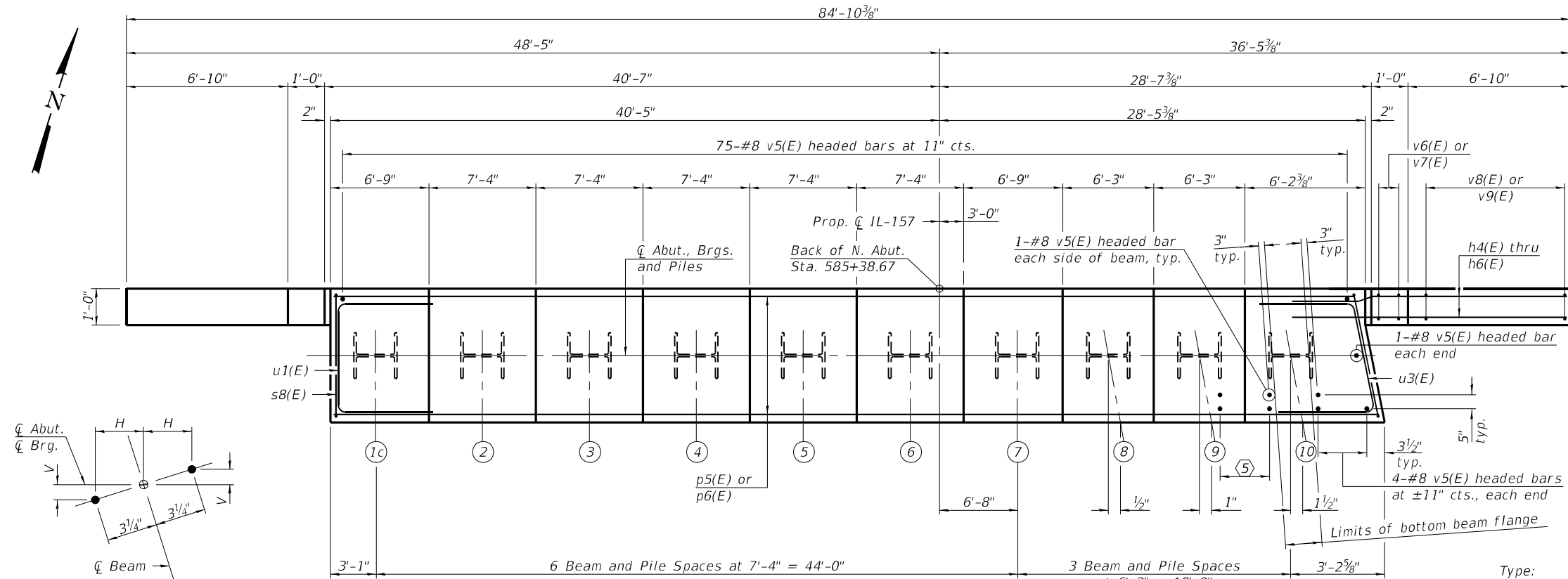


BARS $s_4(E)$ & $s_7(E)$

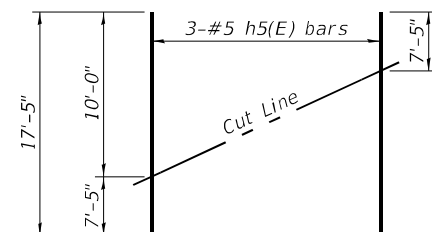
 $BAR \ s5(E)$  $BAR \ s6(E)$ 

BARS $u(E)$ & $u_2(E)$

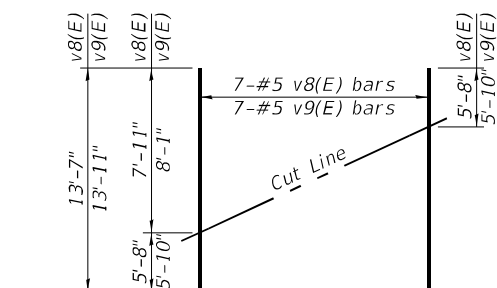
 $BAR \vee 3(E)$



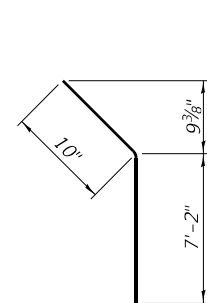
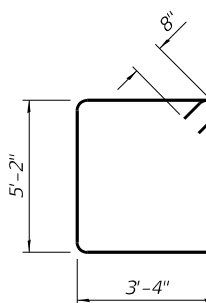
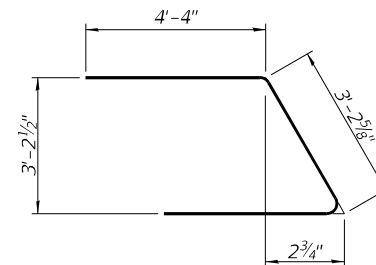
Beam	V	H
1c thru 7	0"	3¼"
8	1/16"	3¼"
9	1/8"	3¼"
10	1/4"	3¼"



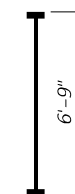
Order h5(E) full length. Cut as shown and use remainder of bars in opposite wing.



Order v8(E) and v9(E) full length. Cut as shown and use remainder of bars in opposite face.

 $BAR \ h6(E)$ 
$$\overline{BAR} \ s8(E)$$


BAR $u3(E)$



BAR v5(E)
(Headed)

PILE DATA

HP14x117
277 kips
152 kips
92
9
1



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h4(E)	52	#5	10'-9"	
h5(E)	6	#5	17'-5"	
h6(E)	4	#5	8'-0"	
p5(E)	28	#7	36'-11"	
p6(E)	4	#5	34'-8"	
s5(E)	20	#5	4'-4"	
s6(E)	36	#5	7'-0"	
s8(E)	57	#6	18'-4"	
* sp(E)	10	#4	2'-0"	
u1(E)	6	#6	11'-11"	
u3(E)	6	#6	11'-11"	
v5(E)	165	#8	6'-9"	
v6(E)	4	#5	8'-2"	
v7(E)	4	#5	8'-4"	
v8(E)	7	#5	13'-7"	
v9(E)	7	#5	13'-11"	
Structure Excavation			Cu. Yd.	187
Concrete Structures			Cu. Yd.	59.1
Reinforcement Bars, Epoxy Coated			Pound	8,380
Furnishing Steel Piles HP14x117			Foot	828
Driving Piles			Foot	828
Test Pile HP14x117			Each	1

* Length is height of spiral.

Notes:

Pour steps monolithically with cap.

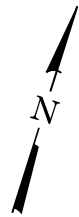
Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.

Bars indicated thus 14 x 2-#7 etc. indicates 14 lines of bars with 2 lengths per line.

For s5(E), s6(E), and u1(E) bar bending diagrams, see sheet 32 of 41.

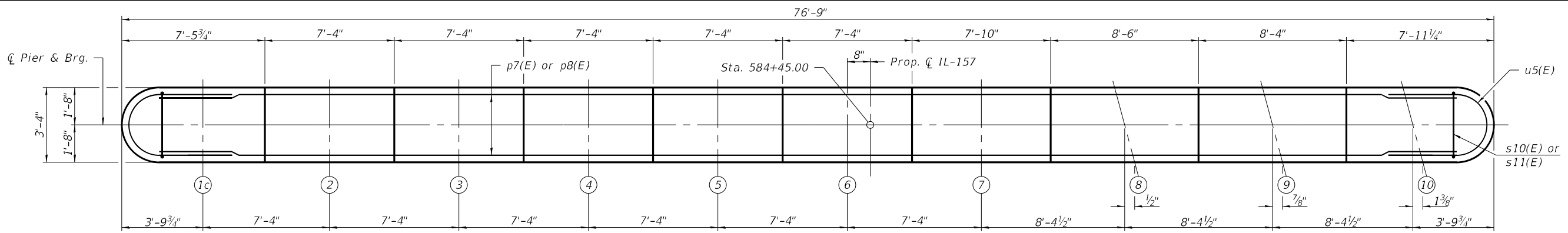
For Pile Details, see sheet 37 of 41.

MODEL: Default
FILE NAME: G:\FEI\jobs\2020\20-1581_PTB 195-57 REALIGNMENT IL 162 AT IL 157 PH II D-98-009-04 - FEI PRIHE(CADD)\CADD Sheets\0600229-76A46-034-Pier1.dgn
3/4/2024 3:24:06 PM

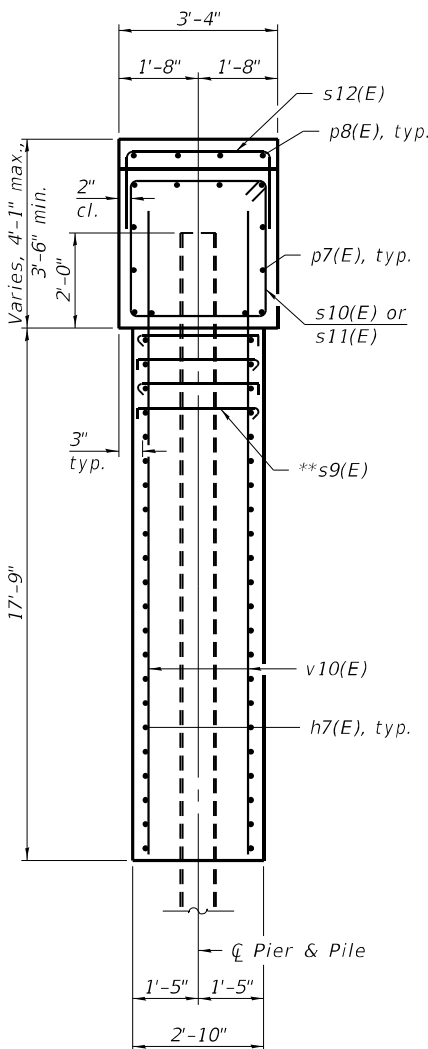


MINIMUM BAR LAP

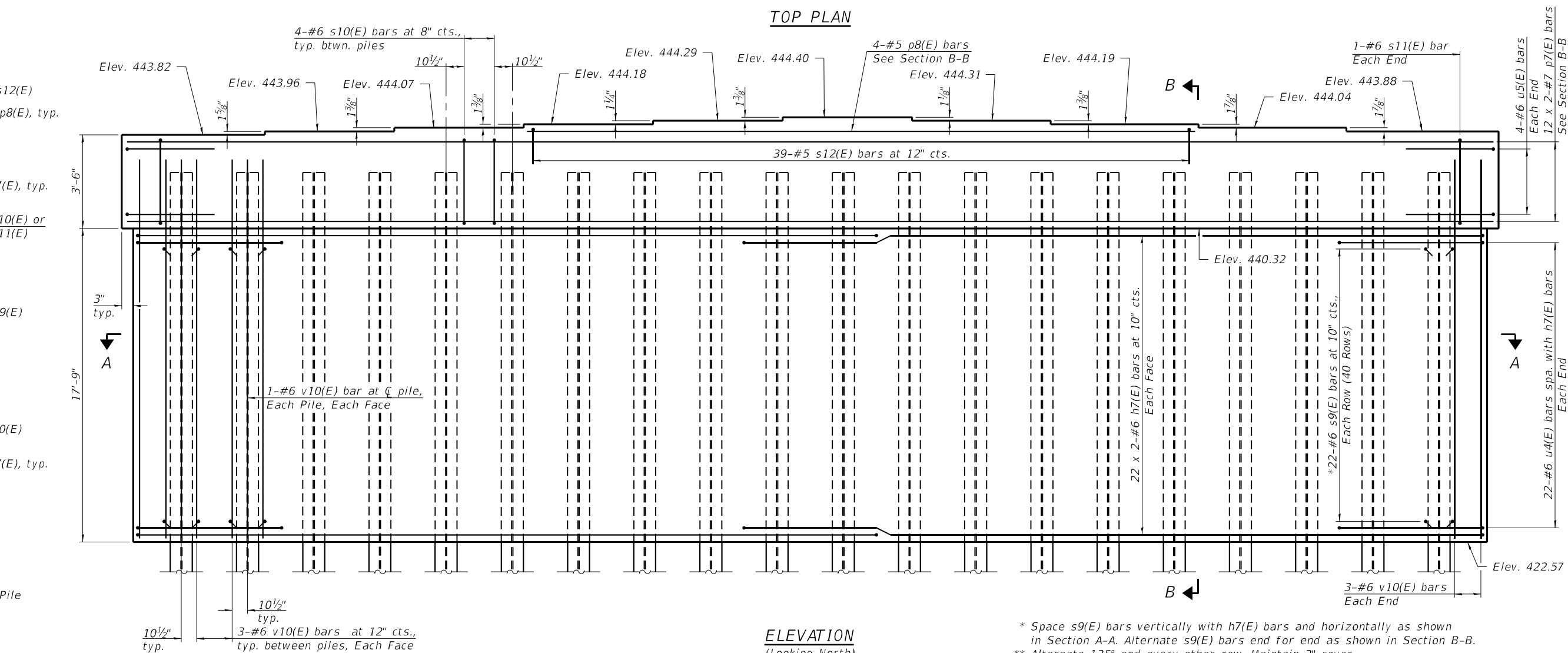
#6(E) bar = 4'-4"
#7(E) bar = 5'-0"



TOP PLAN



SECTION B-B



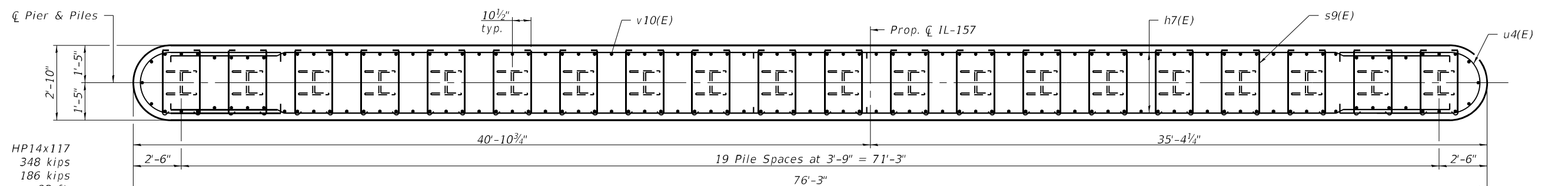
ELEVATION

(Looking North)

* Space s9(E) bars vertically with h7(E) bars and horizontally as shown in Section A-A. Alternate s9(E) bars end for end as shown in Section B-B.
** Alternate 135° end every other row. Maintain 2" cover.

PILE DATA

Type: HP14x117
Nominal Required Bearing: 348 kips
Factored Resistance Available: 186 kips
Est. Length: 92 ft.
No. Production Piles: 20
No. Test Piles: 0



SECTION A-A

Notes:
Bars indicated thus 22 x 2-#7 etc. indicates 22 lines of bars with 2 lengths per line.
For anchor bolt layout, bar bending diagrams and Bill of Material, see sheet 36 of 41.



USER NAME =	DESIGNED - T.S. Friederich	REVISED -
PLOT SCALE =	CHECKED - E.M. Lagemann	REVISED -
PLOT DATE =	DRAWN - T.S. Friederich	REVISED -
	CHECKED - E.M. Lagemann	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 1
STRUCTURE NO. 060-0229

SHEET 34 OF 41 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
51-1R	MADISON	296	176	
CONTRACT NO. 76A46				

ILLINOIS FED. AID PROJECT

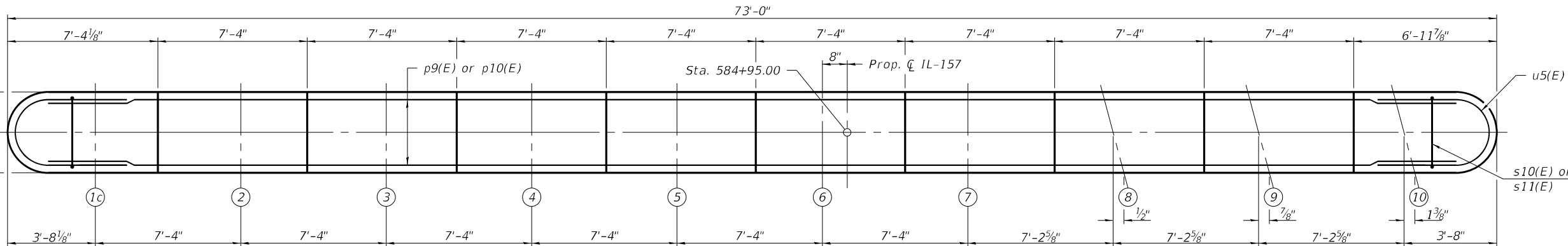
*586/592

MODEL: Default
FILE NAME: G:\FEI\jobs\2020\20-1581_PTB 195-57 REALIGNMENT IL 162 AT IL 157 PH II D-98-009-04 - FEI PRIHE(CADD) Sheets\0600229-76A46-035-Pier2.dgn
3/4/2024 3:24:48 PM

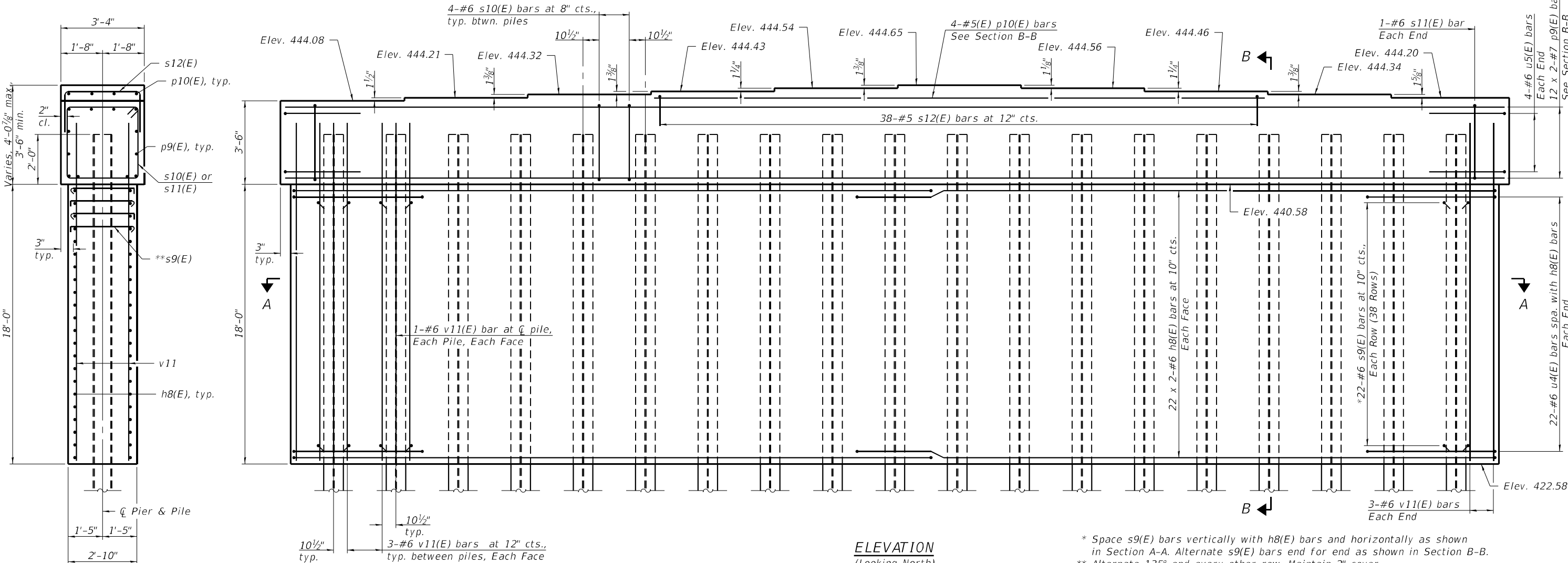


MINIMUM BAR LAP

#6(E) bar = 4'-4"
#7(E) bar = 5'-0"



TOP PLAN



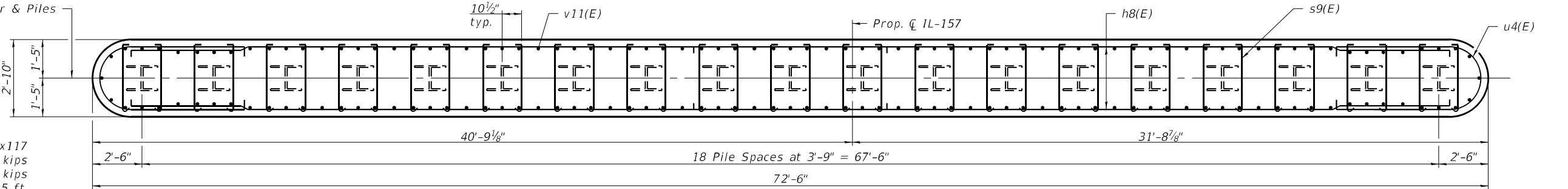
ELEVATION

(Looking North)

* Space s9(E) bars vertically with h8(E) bars and horizontally as shown in Section A-A. Alternate s9(E) bars end for end as shown in Section B-B.
** Alternate 135° end every other row. Maintain 2" cover.

SECTION B-B

CL Pier & Piles



SECTION A-A

Notes:
Bars indicated thus 22 x 2 #6 indicates 22 lines of bars with 2 lengths per line.
For anchor bolt layout, bar bending diagrams and Bill of Material, see sheet 36 of 41.

PILE DATA

Type: HP14x117
Nominal Required Bearing: 272 kips
Factored Resistance Available: 140 kips
Est. Length: 95 ft.
No. Production Piles: 19
No. Test Piles: 0



USER NAME =	DESIGNED - T.S. Friederich	REVISED -
PLOT SCALE =	CHECKED - E.M. Lagemann	REVISED -
PLOT DATE =	DRAWN - T.S. Friederich	REVISED -
	CHECKED - E.M. Lagemann	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 2
STRUCTURE NO. 060-0229

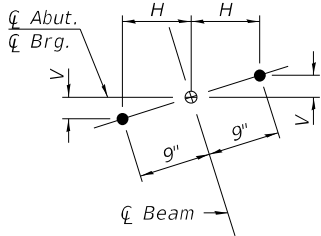
SHEET 35 OF 41 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
51-1R	MADISON	296	177	
CONTRACT NO. 76A46				

ILLINOIS FED. AID PROJECT

*588/592

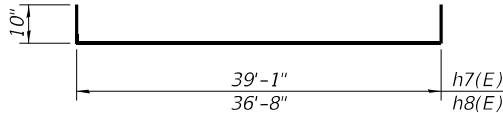
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3/5/2024 10:11:22 AM



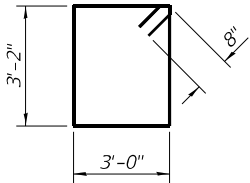
ANCHOR BOLT LAYOUT

TABLE OF VARIABLE DIMENSIONS

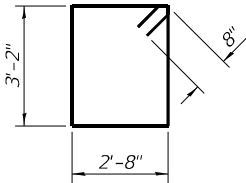
Beam	V	H
1c thru 7	0"	9"
8	3/16"	9"
9	7/16"	9"
10	5/8"	9"



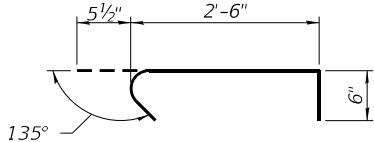
BARS h7(E) & h8(E)



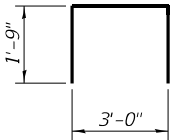
BAR s10(E)



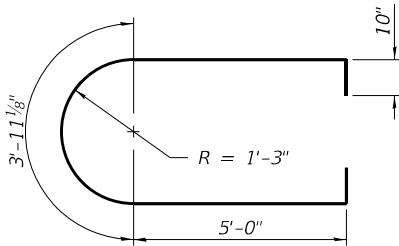
BAR s11(E)



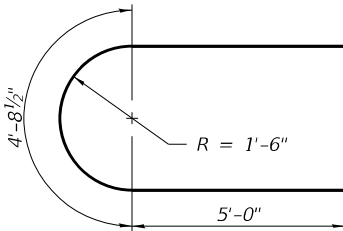
BAR s9(E)



BAR s12(E)



BAR u4(E)



BAR u5(E)

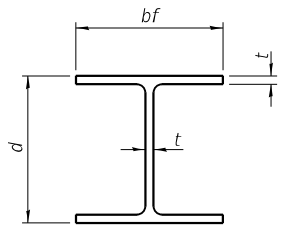
PIER 1
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h7(E)	88	#6	40'-9"	
p7(E)	24	#7	39'-3"	
p8(E)	4	#5	38'-0"	
s9(E)	880	#6	3'-6"	
s10(E)	76	#6	13'-8"	
s11(E)	2	#6	13'-0"	
s12(E)	39	#5	6'-6"	
u4(E)	44	#6	15'-8"	
u5(E)	8	#6	14'-9"	
v10(E)	160	#6	20'-6"	
Cofferdam Excavation			Cu. Yd.	382
Cofferdam (Type 2) (Location - 1)			Each	1
Concrete Structures			Cu. Yd.	176.5
Reinforcement Bars, Epoxy Coated			Pound	20,100
Furnishing Steel Piles HP14x117			Foot	1,840
Driving Piles			Foot	1,840

PIER 2
BILL OF MATERIAL

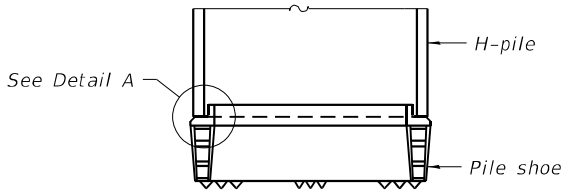
Bar	No.	Size	Length	Shape
h8(E)	88	#6	38'-4"	
p9(E)	24	#7	37'-4"	
p10(E)	4	#5	36'-4"	
s9(E)	836	#6	3'-6"	
s10(E)	72	#6	13'-8"	
s11(E)	2	#6	13'-0"	
s12(E)	38	#5	6'-6"	
u4(E)	44	#6	15'-8"	
u5(E)	8	#6	14'-9"	
v11(E)	152	#6	20'-9"	
Cofferdam Excavation			Cu. Yd.	462
Cofferdam (Type 2) (Location - 2)			Each	1
Concrete Structures			Cu. Yd.	169.7
Reinforcement Bars, Epoxy Coated			Pound	19,170
Furnishing Steel Piles HP14x117			Foot	1,805
Driving Piles			Foot	1,805

Notes:
Space reinforcement in cap to miss anchor bolts.
Pour steps monolithically with cap.
For Pier 1 Details, see sheet 34 of 41.
For Pier 2 Details, see sheet 35 of 41.
For details of piles, see sheet 37 of 41.

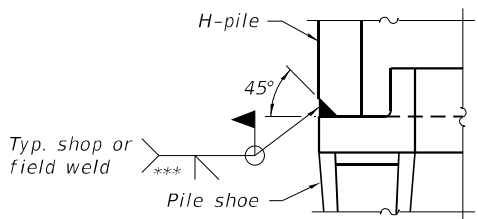


STEEL PILE TABLE

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 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	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"



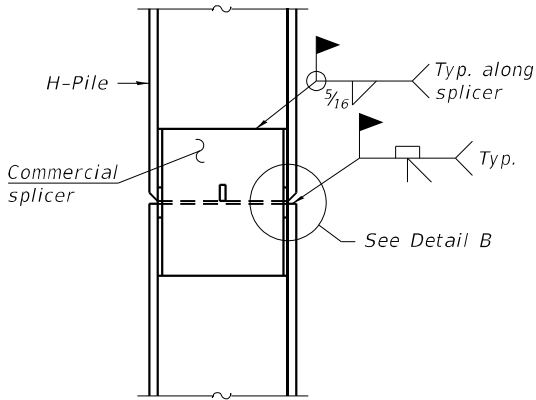
ELEVATION



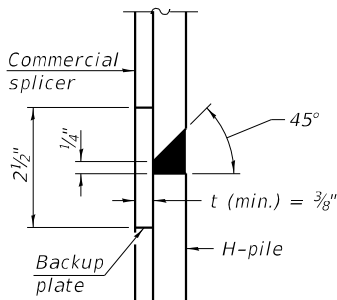
DETAIL A

SHOE ATTACHMENT

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

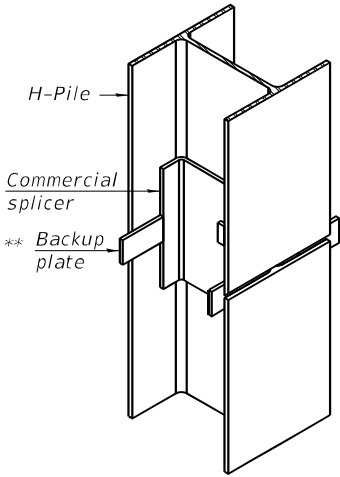


ELEVATION

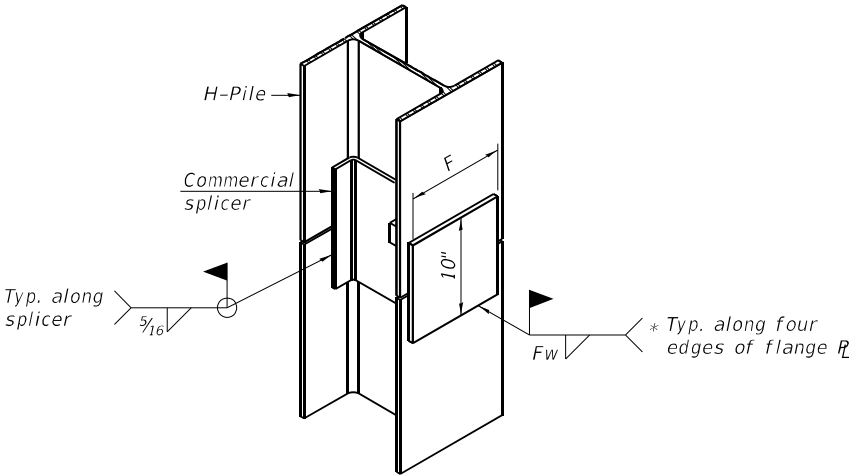


DETAIL "B"

WELDED COMMERCIAL SPLICE



ISOMETRIC VIEW



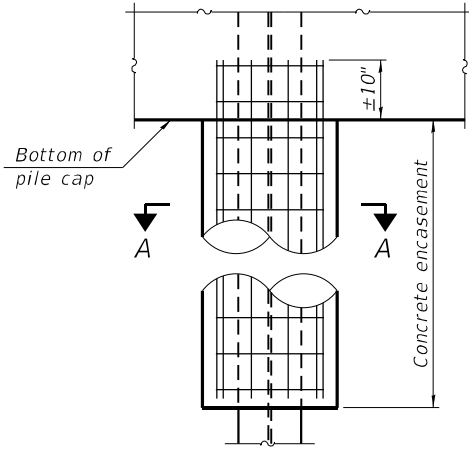
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

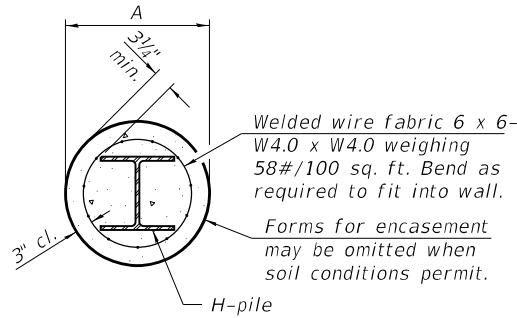
* Interrupt welds 1/4" from end of web and/or each flange.

** Remove portions of backup plates that extend outside the flanges.

*** Weld size per pile shoe manufacturer (5/16" min.).

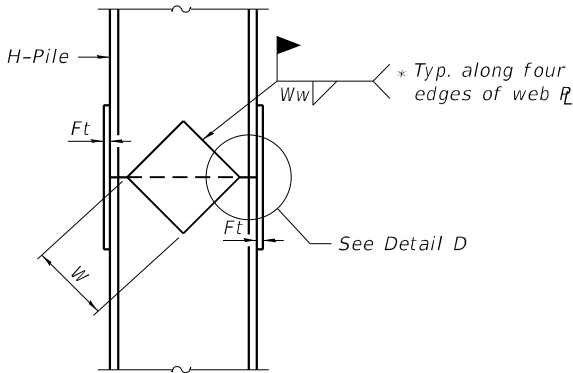


ELEVATION

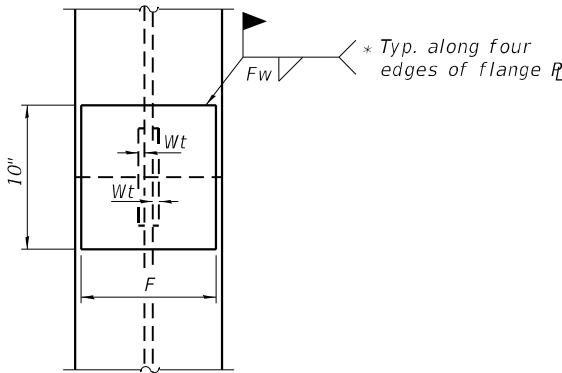


SECTION A-A

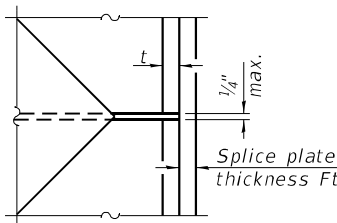
INDIVIDUAL PILE
CONCRETE ENCASEMENT
(when specified)



ELEVATION



END VIEW



DETAIL D

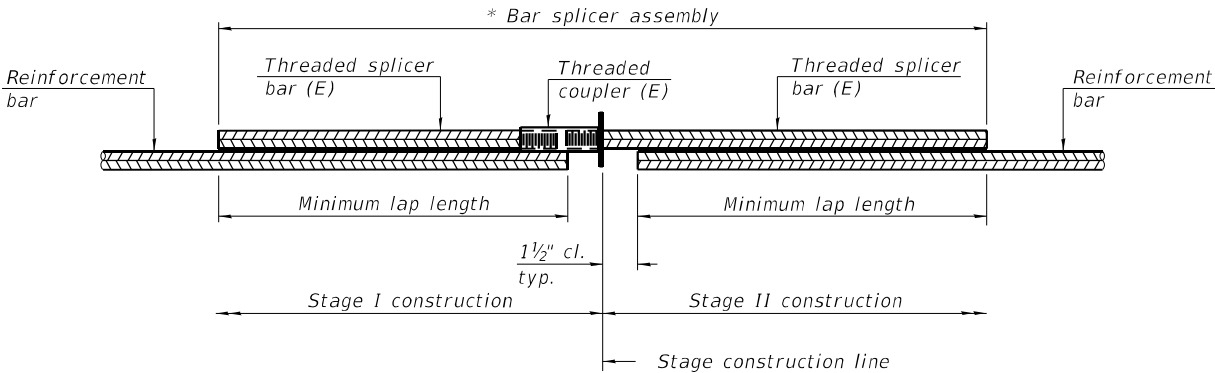
Designation	F	Ft	Fw	W	Wt	Ww
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	1 1/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	1 1/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	1 1/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"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

WELDED PLATE FIELD SPLICE

F-HP

2-1-2023

MODEL: Default
FILE NAME: G:\FEI\jobs\2020\20-1581_PTB 195-57_REALIGNMENT IL 162 AT IL 157 PH II D-98-009-04 - FEI PRIME\CADD\ Sheets\0600229-76A46-038-Bar Splicer Assembly.dgn



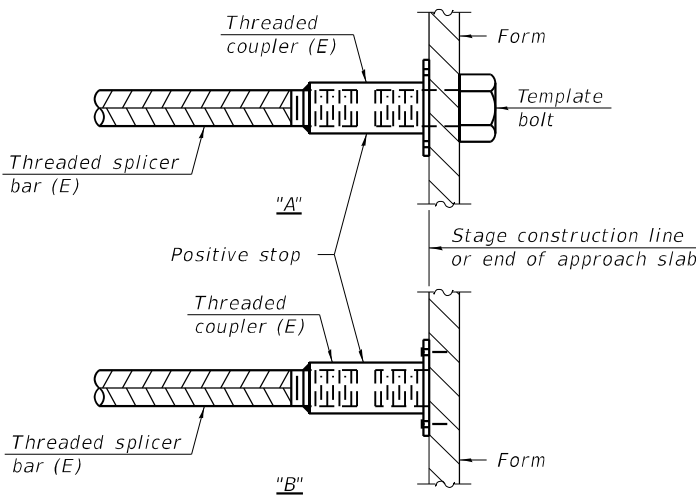
STANDARD BAR SPLICER ASSEMBLY PLAN

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
S. Abut. Diaphr.	#6	7	4'-10"
N. Abut. Diaphr.	#6	4	4'-10"

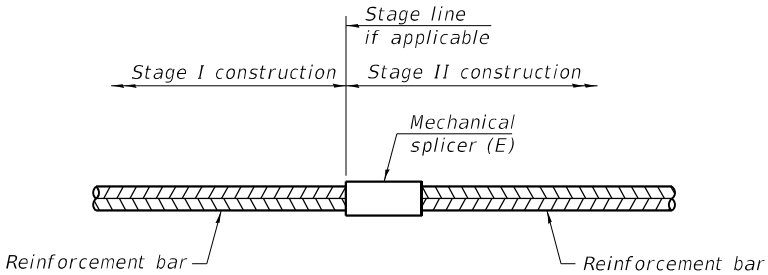


INSTALLATION AND SETTING METHODS

"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.

BSD-1

2-1-2023

FUHRMANN ENGINEERING WWW.FUHRMANN-ENG.COM	USER NAME = _____	DESIGNED - T.S. Friederich	REVISED - _____	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS STRUCTURE NO. 060-0229	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = _____	CHECKED - E.M. Lagemann	REVISED - _____			*	51-1R	MADISON	296	180
	PLOT DATE = _____	DRAWN - A.H. Morinaga Mansilla	REVISED - _____			CONTRACT NO. 76A46				
		CHECKED - T.S. Friederich	REVISED - _____			ILLINOIS FED. AID PROJECT				
SHEET 38 OF 41 SHEETS						*588/592				



The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)



**Illinois Department
of Transportation**

Division of Highways
SCI Engineering, Inc.

SOIL BORING LOG

Page 3 of 3

Date 3/1,2/2022

ROUTE Route 157/162 DESCRIPTION IL - Route 157 over Judy's Branch LOGGED BY SCI

SECTION 51-1R LOCATION Madison County, Illinois, SEC. 4, TWP. 3N, RNG. 8W

Lat 38.740837 Long -90.002113

COUNTY Madison DRILLING METHOD CME 550 w/HSA and Mud Rotary HAMMER TYPE Automatic

STRUCT. NO. SN 060-0229/ SN 060-7003
Station 584+70.00 and 11+32.26

BORING NO. B-7
Station 17+86
Offset 50 ft LT
Ground Surface Elev. 438.0 ft

D
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P
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H

B
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O
W
S

U
C
S
Qu

M
O
I
S
T

(ft) (lb/in) (tsf) (%)

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
First Encounter 425.0 ft ▼
Upon Completion N/A ft
After N/A Hrs. N/A ft

Gray weathered CLAYEY SHALE,
hard (continued)

6
11
20

-85

50/5.5"

50/2"

50/5"

50/1"

-100

350.5
Sampler Refusal at 87.5 feet.
Borehole grouted upon
completion.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)



**Illinois Department
of Transportation**

Division of Highways
SCI Engineering, Inc.

SOIL BORING LOG

Page 1 of 3

Date 3/14,15/2022

ROUTE Route 157/162 DESCRIPTION IL - Route 157 over Judy's Branch LOGGED BY SCI

SECTION 51-1R LOCATION Madison County, Illinois, SEC. 4, TWP. 3N, RNG. 8W

Lat 38.741338 Long -90.001838

COUNTY Madison DRILLING METHOD CME 550 w/HSA and Mud Rotary HAMMER TYPE Automatic

STRUCT. NO. SN 060-0229
Station 584+70.00

BORING NO. B-19
Station 585+41
Offset 46 ft RT
Ground Surface Elev. 438.0 ft

D
E
P
T
H

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W
S

U
C
S
Qu

M
O
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S
T

(ft) (lb/in) (tsf) (%)

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
First Encounter 422.0 ft ▼
Upon Completion N/A ft
After N/A Hrs. N/A ft

Brown SILTY CLAY (A-6), very
soft

WOH
1
1

435.5

1
1
2

-5

2
2
2

WOH
2
3

426.0

1
1
2

-15

WOH
2
2

-20

Gray CLAY (A-7), some fine to
medium sand, clay is loose to
medium stiff

1
1
2

-5

2
2
2

430.0
Tan and gray CLAY (A-7), soft

2
2
2

-10

CLAYEY SAND (A-2), sand is fine
to coarse, very loose

1
1
2

-15

422.0 ▼
Gray CLAY (A-6), soft

2
2
2

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)

MODEL: Default
FILE NAME: G:\FEI\Jobs\2020\20-1581_PTB 195-57_REALIGNMENT IL 162 AT IL 157 PH II D-98-009-04 - FEI PRIME\CADD\CADD Sheets\0600229-76A46-040-BoringLogs02.dgn
3/4/2024 3:29:31 PM



USER NAME = _____
DESIGNED - T.S. Friederich
CHECKED - E.M. Lagemann
PLOT SCALE = _____
DRAWN - E.M. Lagemann
PLOT DATE = _____
CHECKED - T.S. Friederich
REVISED - _____

DESIGNED - T.S. Friederich
CHECKED - E.M. Lagemann
DRAWN - E.M. Lagemann
CHECKED - T.S. Friederich
REVISED - _____

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS II
STRUCTURE NO. 060-0229

SHEET 40 OF 41 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	51-1R	MADISON	296	182
CONTRACT NO. 76A46				
ILLINOIS FED. AID PROJECT				

*586/592

Benchmark: Found cut square (with +) on top parapet wall northwest corner of SN 060-0087. Elev. 449.226
Existing Structure: None

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.

SEISMIC DATA

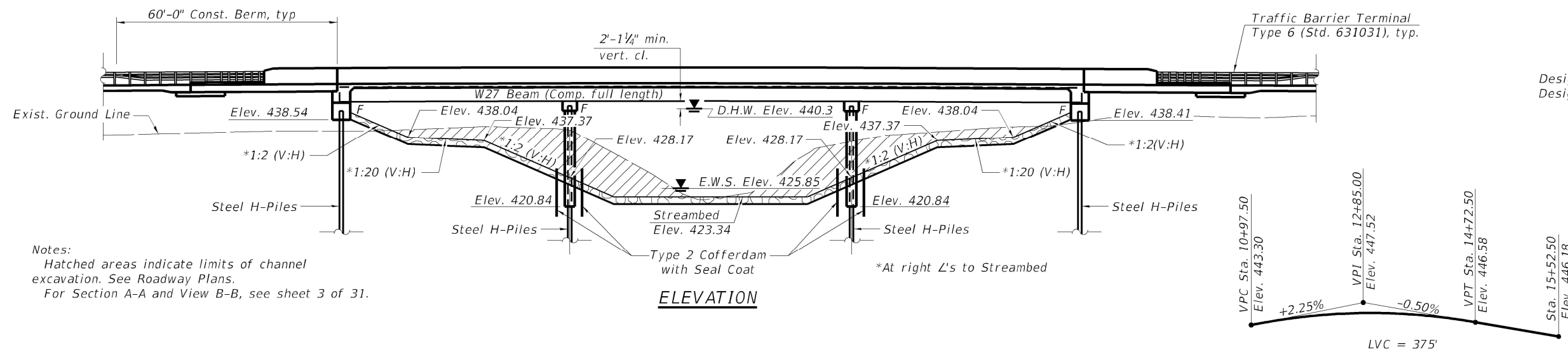
Seismic Performance Zone (SPZ) = 2
Design Spectral Acceleration at 1.0 sec. (SD1) = 0.23g
Design Spectral Acceleration at 0.2 sec. (SDS) = 0.53g
Soil Site Class = D

DESIGN STRESSES

All structural steel shall be painted

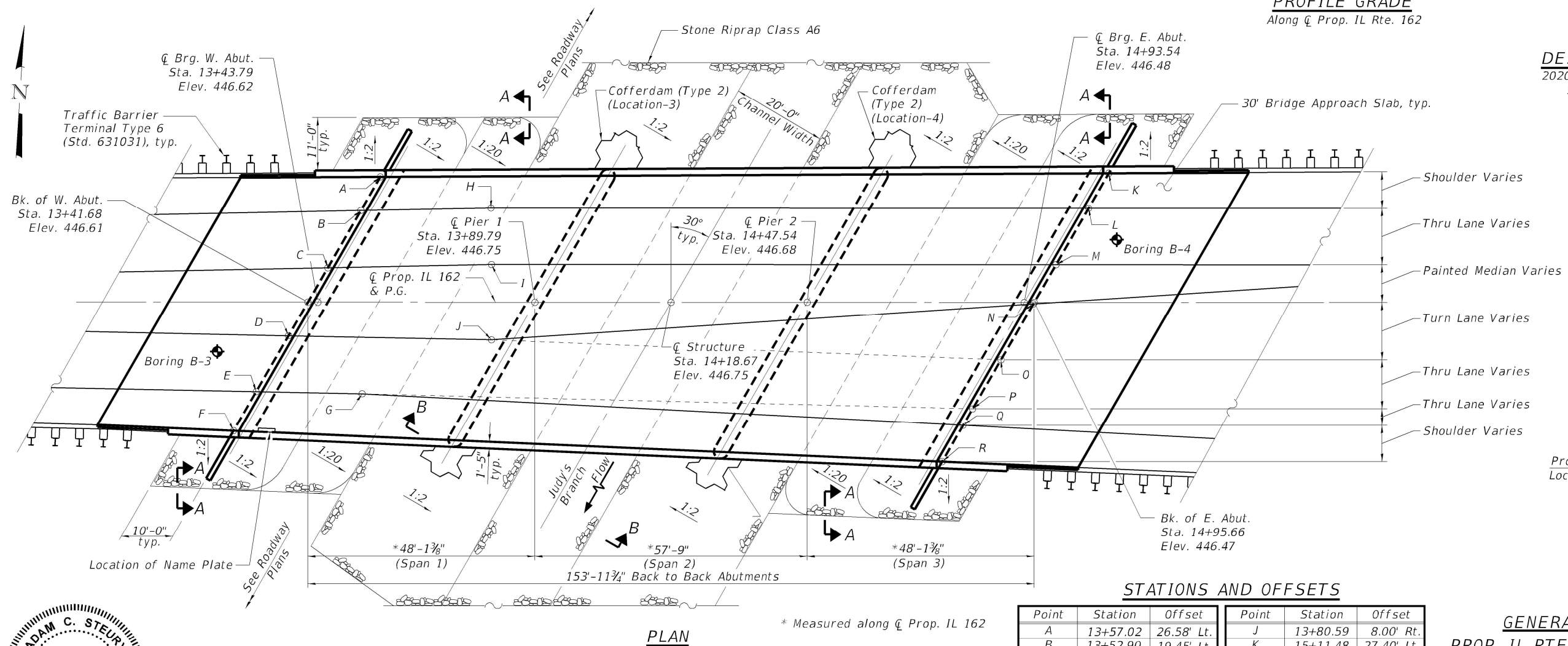
FIELD UNITS

$f'_c = 3,500 \text{ psi}$
 $f'_c = 4,000 \text{ psi}$ (Superstructure)
 $f_y = 60,000 \text{ psi}$ (Reinforcement)
 $f_y = 50,000 \text{ psi}$ (M270 Grade 50)
 $f_y = 36,000 \text{ psi}$ (A709 Grade 36)

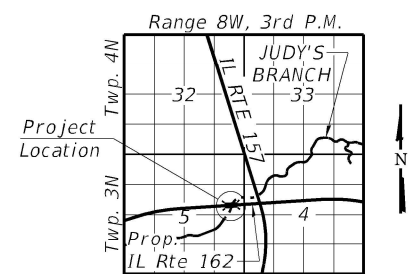
PROFILE GRADE

Along & Prop. IL Rte. 162

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design
Specifications, 9th Edition

LOCATION SKETCH



STATIONS AND OFFSETS

<i>Point</i>	<i>Station</i>	<i>Offset</i>	<i>Point</i>	<i>Station</i>	<i>Offset</i>
<i>A</i>	13+57.02	26.58' Lt.	<i>J</i>	13+80.59	8.00' R
<i>B</i>	13+52.90	19.45' Lt.	<i>K</i>	15+11.48	27.40' Lt.
<i>C</i>	13+45.89	7.31' Lt.	<i>L</i>	15+07.21	20.00' Lt.
<i>D</i>	13+37.55	7.14' Rt.	<i>M</i>	15+00.28	8.00' Lt.
<i>E</i>	13+30.70	19.01' Rt.	<i>N</i>	14+95.46	0.34' R
<i>F</i>	13+25.92	27.30' Rt.	<i>O</i>	14+91.04	8.00' R
<i>G</i>	13+53.16	19.45' Rt.	<i>P</i>	14+84.11	20.00' R
<i>H</i>	13+80.47	20.00' Lt.	<i>Q</i>	14+80.58	26.12' R
<i>I</i>	13+80.59	8.00' Lt.	<i>R</i>	14+76.15	33.78' R

GENERAL PLAN & ELEVATION

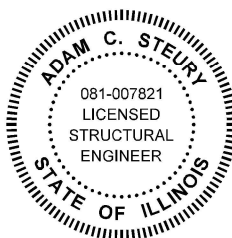
PROP. IL RTE. 162 OVER JUDY'S BRANCH

F.A.P. RTE. 586 - SEC. 51-1R

MADISON COUNTY

STATION 14+18.67

STRUCTURE NO. 060-0241



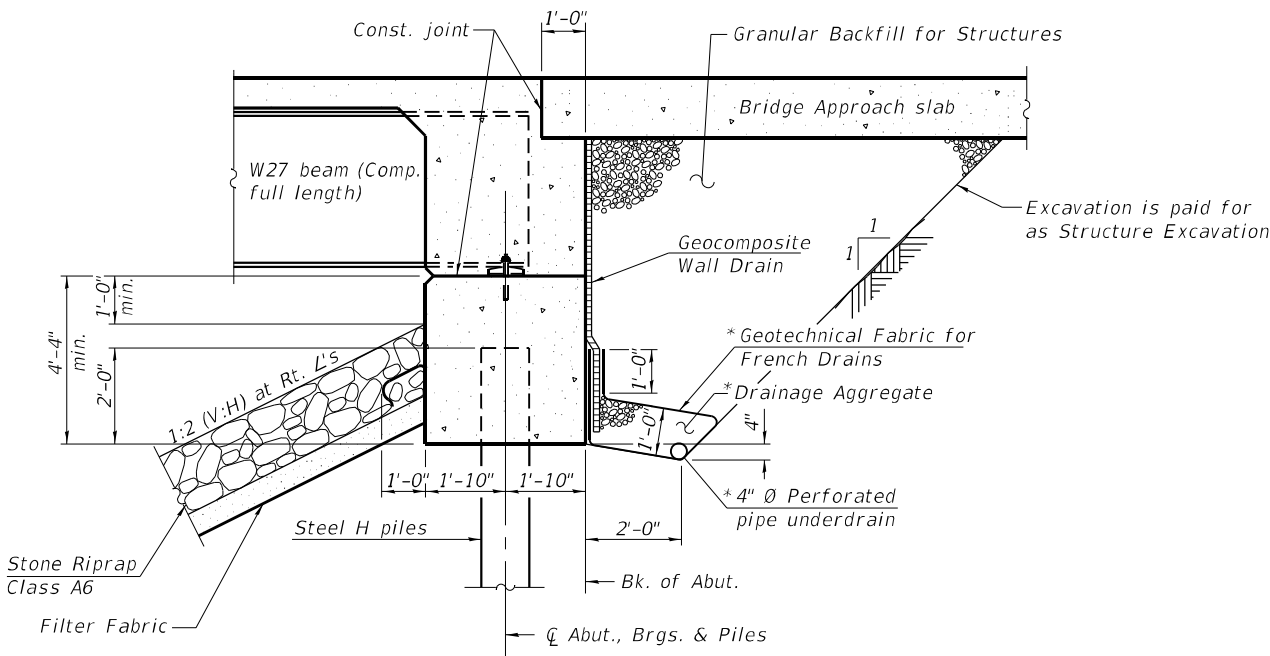
SIGNED: Adam J. Smith Date: 04/09/2024
ILLINOIS STRUCTURAL ENGINEER NO. 081-007821
LICENSE EXPIRES: 11-30-2024

APPROVED
For Structural Adequacy Only
[Signature]
Engineer of Bridges & Structures

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SHEET NO. 1 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
586	51-1R	MADISON	296	184
SN 060-0241		CONTRACT NO. 76A46		
ILLINOIS FED. AID PROJECT				



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

* Included in the cost of Pipe Underdrains for Structures

Note:

All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).

DESIGN SCOUR ELEVATION TABLE

Event / Limit State	Design Scour Elevations (ft.)				Item 113
	W. Abut.	Pier 1	Pier 2	E. Abut.	
Q100	439.38	415.46	415.46	439.25	5
Q200	439.38	415.16	415.16	439.25	
Design	439.38	415.46	415.46	439.25	
Check	439.38	415.16	415.16	439.25	

WATERWAY INFORMATION

Drainage Area = 8.6 sq. mi.			Existing Overtopping Elev. = N/A				at Sta.		
			Proposed Overtopping Elev. = 438.54*				at Sta. 7+45.00		
Flood Event	Freq. Yr.	Discharge Ft ³ /S	Waterway Opening - Ft ²		Natural H.W.E. - Ft.	Head - Ft.		Headwater Elevation - Ft.	
			Existing	Proposed		Existing	Proposed	Existing	Proposed
Overtop Existing	<10	<3880	603	772					438.2*
Design	50	5750	783	885	440.3	-	0.3	-	440.6
Base	100	6590	866	927	440.7	-	0.5	-	441.2
Scour Design Check	200	7600	959	972	441.1	-	0.6	-	441.7
Overtop Proposed	N/A	-	-	-	-	-	-	-	-
Max. Calc.	500	8920	1067	1019	441.6	-	2.0	-	443.6

10 Year Velocity Through Existing Bridge = N/A ft/s
10 Year Velocity Through Proposed Bridge = 4.99 ft/s

GENERAL NOTES

Fasteners shall be ASTM F 3125 Grade A325 Type 1, mechanically galvanized bolts in painted areas. Bolts 7/8 in. diameter, holes 15/16 in. diameter, unless otherwise noted.

Calculated weight of Structural Steel = 184,746 pounds (Grade 50) and 27,343 pounds (Grade 36).

No field welding is permitted except as specified in the contract documents.

Reinforcement bars designated (E) shall be epoxy coated.

The finishing machine rails shall be placed on the top of the top flange of the exterior beams within the deck pour. Beam blocks shall be placed between beams at all tie locations in each bay for the full width of the deck pour.

Slipforming of the parapets is not allowed.

Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 in. (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.

The Seal coat design thickness is based on the Cofferdam Design Water Elevation (CDWE) shown. Final cofferdam design, details and seal coat thickness shall be submitted to the Engineer for approval. The CDWE is equal to the Estimated Water Surface Elevation (EWSE) plus 3 feet.

Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.

The Inorganic Zinc Rich Primer / Acrylic / Acrylic Paint System shall be used for shop and field painting of new structural steel except where otherwise noted. The color of the final finish coat shall be Gray, Munsell No 5B 7/1.

STA. 14+18.67
BUILT 20__ BY
STATE OF ILLINOIS
F.A.P. RT. 586 SEC. 51-1R
LOADING HL-93
STR. NO. 060-0241

NAME PLATE

See Std. 515001

(Location of Name Plate on
S.W. corner of bridge)

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A6	Sq. Yd.		1,223	1,223
Filter Fabric	Sq. Yd.		1,223	1,223
Structure Excavation	Cu. Yd.		441	441
Cofferdam Excavation	Cu. Yd.		920	920
Cofferdam (Type 2) (Location-3)	Each		1	1
Cofferdam (Type 2) (Location-4)	Each		1	1
Concrete Structures	Cu. Yd.		431.6	431.6
Concrete Superstructure	Cu. Yd.	326.9		326.9
Bridge Deck Grooving	Sq. Yd.	1,308		1,308
Seal Coat Concrete	Cu. Yd.		186.2	186.2
Protective Coat	Sq. Yd.	1,449		1,449
Concrete Superstructure (Approach Slab)	Cu. Yd.	165.6		165.6
Furnishing and Erecting Structural Steel	L Sum	0.46		0.46
Stud Shear Connectors	Each	7,863		7,863
Reinforcement Bars, Epoxy Coated	Pound	165,520	38,000	203,520
Furnishing Steel Piles HP14x117	Foot		5,418	5,418
Driving Piles	Foot		5,418	5,418
Test Pile Steel HP14x117	Each		1	1
Name Plates	Each	1		1
Anchor Bolts, 3/4"	Each	32		32
Anchor Bolts, 1"	Each	32		32
Granular Backfill for Structures	Cu. Yd.		196	196
Geocomposite Wall Drain	Sq. Yd.		104	104
Pipe Underdrains for Structures 4"	Foot		191	191



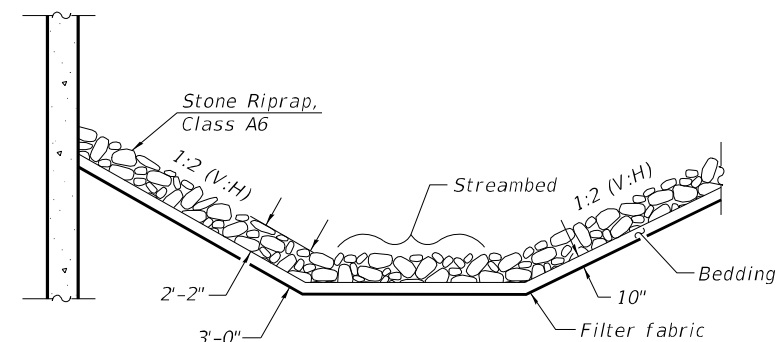
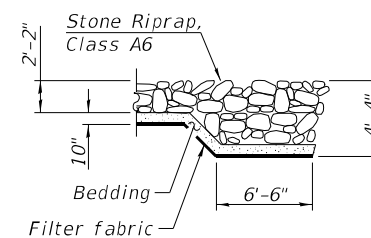
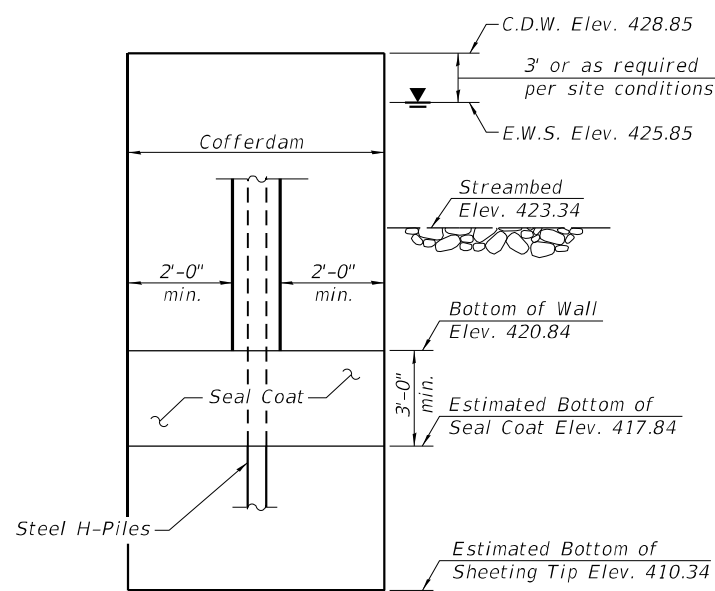
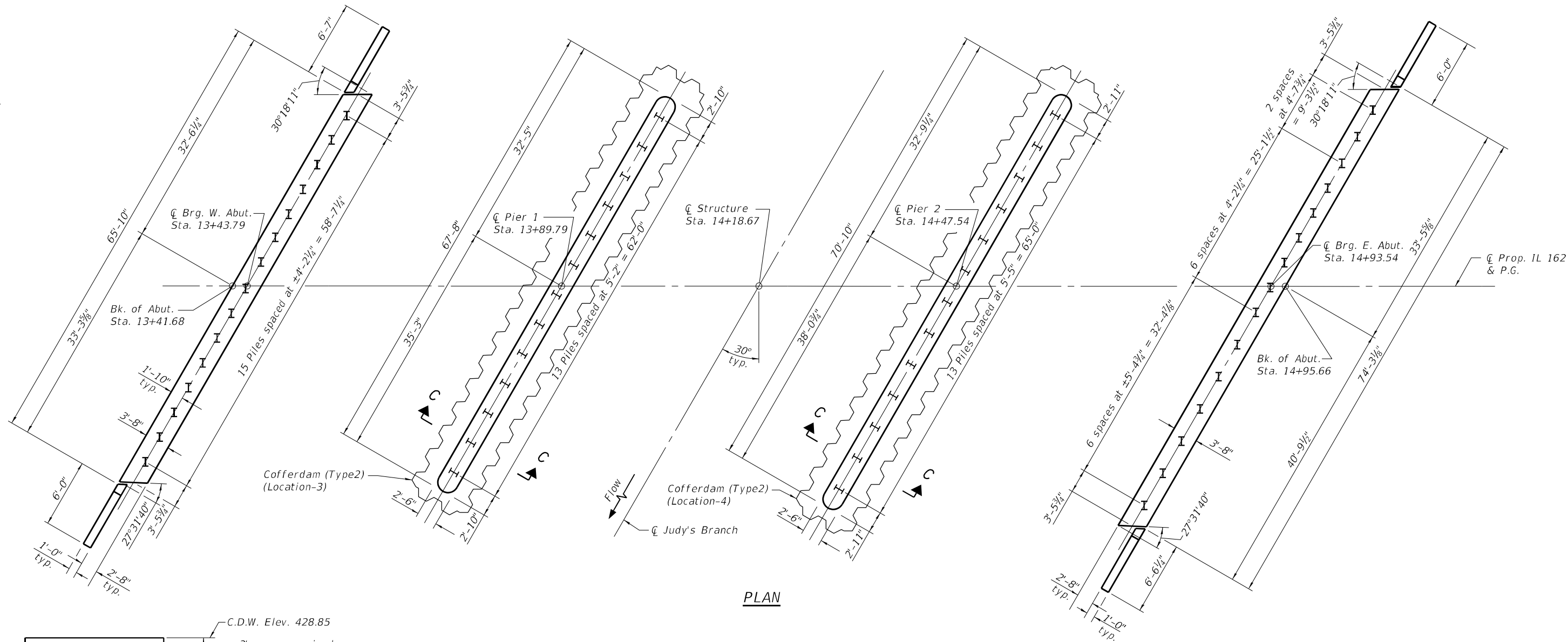
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	CHECKED - LDG	REVISED
PLOT SCALE =	DRAWN - WJS	REVISED
PLOT DATE = 3/4/2024	CHECKED - LDG	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DATA
STRUCTURE NO. 060-0241

SHEET NO. 2 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
586	51-1R	MADISON	296	185
SN 060-0241		CONTRACT NO. 76A46		
ILLINOIS		FED. AID PROJECT		



(All slopes taken at Rt. L's to Creek)



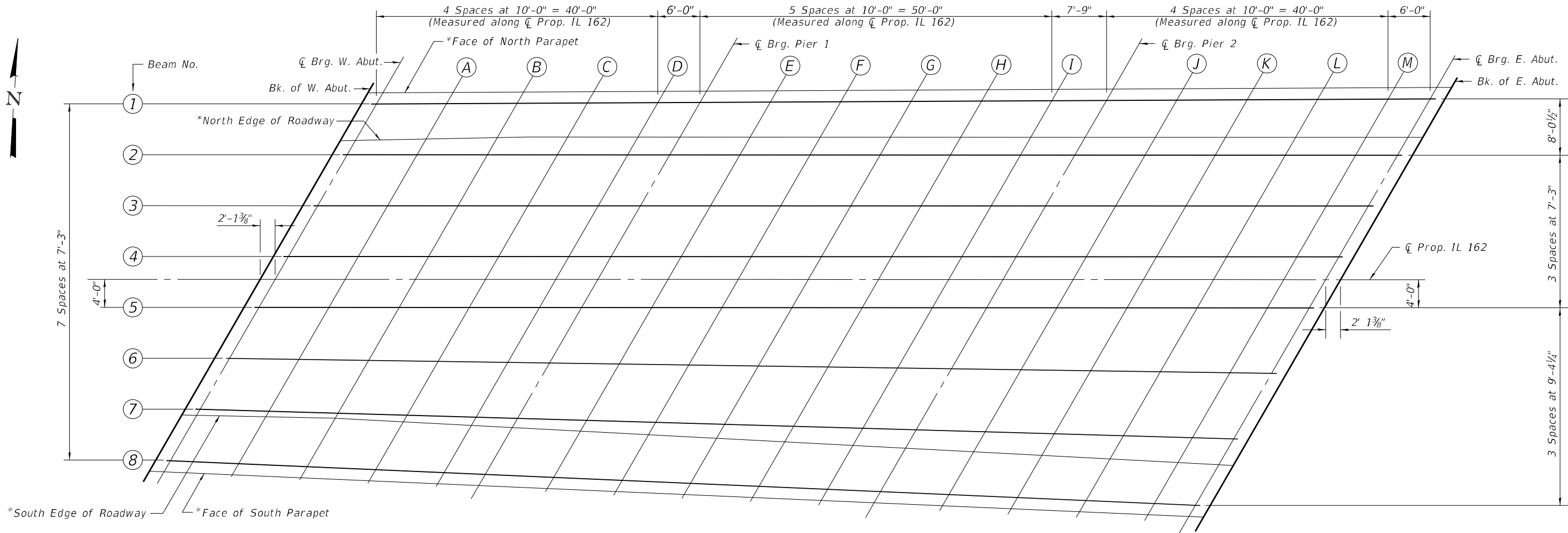
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PLOT DATE = 3/4/2024	DRAWN - WJS	REVISED
	CHECKED - LDG	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FOOTING PLAN AND CONSTRUCTION DETAILS
STRUCTURE NO. 060-0241

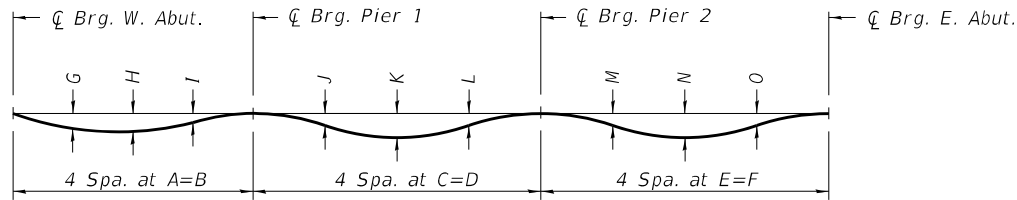
SHEET NO. 3 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
586	51-1R	MADISON	296	186
SN 060-0241		CONTRACT NO. 76A46		
ILLINOIS FED. AID PROJECT				



LAYOUT PLAN FOR DECK ELEVATIONS

* For Stations and Offsets see sheet 1 of 31.



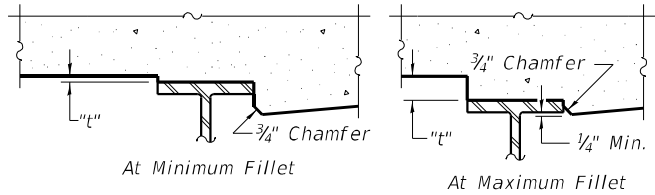
DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

DEAD LOAD DEFLECTION TABLE

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
Beam 1	11'-6 ⁷ / ₁₆ "	46'-1 ³ / ₄ "	14'-5 ³ / ₄ "	57'-11 ¹ / ₈ "	11'-6 ⁷ / ₁₆ "	46'-1 ³ / ₄ "	¹ / ₈ "	¹ / ₄ "	¹ / ₈ "	¹ / ₈ "	¹ / ₄ "	¹ / ₈ "	¹ / ₈ "	¹ / ₄ "	¹ / ₈ "
Beam 2 -5	11'-6"	46'-0"	14'-5 ¹ / ₄ "	57'-9"	11'-6"	46'-0"	¹ / ₈ "	¹ / ₄ "	¹ / ₈ "	¹ / ₈ "	¹ / ₄ "	¹ / ₈ "	¹ / ₈ "	¹ / ₄ "	¹ / ₈ "
Beam 6	11'-4 ⁷ / ₈ "	45'-7 ⁵ / ₈ "	14'-3 ⁷ / ₈ "	57'-3 ¹ / ₂ "	11'-4 ⁷ / ₈ "	45'-7 ⁵ / ₈ "	¹ / ₈ "	¹ / ₄ "	¹ / ₈ "	¹ / ₈ "	¹ / ₄ "	¹ / ₈ "	¹ / ₈ "	¹ / ₄ "	¹ / ₈ "
Beam 7	11'-3 ¹ / ₁₆ "	45'-3 ¹ / ₄ "	14'-2 ¹ / ₂ "	56'-10"	11'-3 ¹ / ₁₆ "	45'-3 ¹ / ₄ "	¹ / ₈ "	¹ / ₄ "	¹ / ₈ "	¹ / ₈ "	¹ / ₄ "	¹ / ₈ "	¹ / ₈ "	¹ / ₄ "	¹ / ₈ "
Beam 8	11'-2 ³ / ₄ "	44'-11 ¹ / ₈ "	14'-1 ³ / ₁₆ "	56'-4 ³ / ₄ "	11'-2 ³ / ₄ "	44'-11 ¹ / ₈ "	¹ / ₈ "	¹ / ₄ "	¹ / ₈ "	¹ / ₈ "	¹ / ₄ "	¹ / ₈ "	¹ / ₈ "	¹ / ₄ "	¹ / ₈ "

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 5 thru 9 of 31.



To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown above. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on sheets 5 thru 9 of 31, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS

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USER NAME =	DESIGNED - ACS	REVISED
	CHECKED - LDG	REVISED
PLOT SCALE =	DRAWN - WJS	REVISED
PLOT DATE = 3/4/2024	CHECKED - LDG	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 060-0241

SHEET NO. 4 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
586	51-1R	MADISON	296	187
SN 060-0241		CONTRACT NO. 76A46		
ILLINOIS		FED. AID PROJECT		

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FACE OF NORTH PARAPET

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of W. Abut.	13+57.01	-26.58	446.24	446.24
⊘ Brg. W. Abut.	13+59.14	-26.59	446.24	446.24
A	13+69.17	-26.64	446.27	446.29
B	13+79.20	-26.69	446.30	446.31
C	13+89.24	-26.74	446.31	446.32
D	13+99.27	-26.80	446.32	446.32
⊘ Brg. Pier 1	14+05.29	-26.83	446.32	446.32
E	14+15.32	-26.88	446.31	446.32
F	14+25.35	-26.94	446.30	446.32
G	14+35.38	-26.99	446.28	446.30
H	14+45.41	-27.04	446.25	446.27
I	14+55.43	-27.09	446.22	446.22
⊘ Brg. Pier 2	14+63.21	-27.13	446.18	446.18
J	14+73.24	-27.19	446.14	446.14
K	14+83.27	-27.24	446.08	446.10
L	14+93.30	-27.29	446.03	446.05
M	15+03.33	-27.35	445.98	445.99
⊘ Brg. E. Abut.	15+09.35	-27.38	445.95	445.95
Bk. of East Abut.	15+11.48	-27.39	445.94	445.94

BEAM 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of W. Abut.	13+56.09	-24.99	446.27	446.27
⊘ Brg. W. Abut.	13+58.22	-25.00	446.27	446.27
A	13+68.25	-25.05	446.30	446.32
B	13+78.28	-25.11	446.33	446.34
C	13+88.31	-25.16	446.34	446.35
D	13+98.34	-25.21	446.35	446.35
⊘ Brg. Pier 1	14+04.36	-25.24	446.35	446.35
E	14+14.39	-25.30	446.34	446.35
F	14+24.42	-25.35	446.33	446.35
G	14+34.45	-25.40	446.31	446.34
H	14+44.48	-25.45	446.28	446.30
I	14+54.51	-25.51	446.25	446.25
⊘ Brg. Pier 2	14+62.29	-25.55	446.22	446.22
J	14+72.32	-25.60	446.17	446.18
K	14+82.35	-25.65	446.12	446.14
L	14+92.38	-25.71	446.07	446.09
M	15+02.41	-25.76	446.02	446.03
⊘ Brg. E. Abut.	15+08.43	-25.79	445.99	445.99
Bk. of East Abut.	15+10.55	-25.80	445.98	445.98

NORTH EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of W. Abut.	13+52.91	-19.47	446.36	446.36
⊘ Brg. W. Abut.	13+55.05	-19.49	446.37	446.37
A	13+65.17	-19.60	446.40	446.42
B	13+75.29	-19.71	446.43	446.44
C	13+85.34	-19.82	446.44	446.45
D	13+95.34	-19.93	446.45	446.45
⊘ Brg. Pier 1	14+01.34	-20.00	446.45	446.45
E	14+11.34	-20.00	446.45	446.46
F	14+21.34	-20.00	446.44	446.46
G	14+31.34	-20.00	446.43	446.45
H	14+41.34	-20.00	446.40	446.42
I	14+51.34	-20.00	446.37	446.38
⊘ Brg. Pier 2	14+59.09	-20.00	446.34	446.34
J	14+69.09	-20.00	446.30	446.31
K	14+79.09	-20.00	446.25	446.27
L	14+89.09	-20.00	446.20	446.22
M	14+99.09	-20.00	446.15	446.16
⊘ Brg. E. Abut.	15+05.09	-20.00	446.12	446.12
Bk. of East Abut.	15+07.21	-20.00	446.11	446.11



USER NAME =	DESIGNED - ACS	REVISED
	CHECKED - LDG	REVISED
PLOT SCALE =	DRAWN - WJS	REVISED
PLOT DATE = 3/4/2024	CHECKED - LDG	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 060-0241

SHEET NO. 5 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
586	51-1R	MADISON	296	188
SN 060-0241		CONTRACT NO. 76A46		
ILLINOIS FED. AID PROJECT				

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BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of W. Abut.	13+51.93	-17.75	446.39	446.39
⌒ Brg. W. Abut.	13+54.04	-17.75	446.39	446.39
A	13+64.07	-17.75	446.43	446.44
B	13+74.10	-17.75	446.45	446.47
C	13+84.13	-17.75	446.47	446.48
D	13+94.16	-17.75	446.48	446.49
⌒ Brg. Pier 1	14+00.04	-17.75	446.49	446.49
E	14+10.04	-17.75	446.49	446.49
F	14+20.04	-17.75	446.48	446.50
G	14+30.04	-17.75	446.46	446.49
H	14+40.04	-17.75	446.44	446.46
I	14+50.04	-17.75	446.41	446.42
⌒ Brg. Pier 2	14+57.79	-17.75	446.38	446.38
J	14+67.79	-17.75	446.34	446.35
K	14+77.79	-17.75	446.29	446.31
L	14+87.79	-17.75	446.24	446.26
M	14+97.79	-17.75	446.19	446.20
⌒ Brg. E. Abut.	15+03.79	-17.75	446.16	446.16
Bk. of E. Abut.	15+05.90	-17.75	446.15	446.15

BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of W. Abut.	13+47.74	-10.50	446.48	446.48
⌒ Brg. W. Abut.	13+49.85	-10.50	446.49	446.49
A	13+59.85	-10.50	446.52	446.54
B	13+69.85	-10.50	446.55	446.57
C	13+79.85	-10.50	446.57	446.59
D	13+89.85	-10.50	446.59	446.59
⌒ Brg. Pier 1	13+95.85	-10.50	446.59	446.59
E	14+05.85	-10.50	446.60	446.60
F	14+15.85	-10.50	446.59	446.61
G	14+25.85	-10.50	446.58	446.60
H	14+35.85	-10.50	446.56	446.58
I	14+45.85	-10.50	446.53	446.54
⌒ Brg. Pier 2	14+53.60	-10.50	446.51	446.51
J	14+63.60	-10.50	446.47	446.47
K	14+73.60	-10.50	446.42	446.43
L	14+83.60	-10.50	446.37	446.39
M	14+93.60	-10.50	446.32	446.33
⌒ Brg. E. Abut.	14+99.60	-10.50	446.29	446.29
Bk. of E. Abut.	15+01.71	-10.50	446.28	446.28

BEAM 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of W. Abut.	13+43.56	-3.25	446.57	446.57
⌒ Brg. W. Abut.	13+45.67	-3.25	446.58	446.58
A	13+55.67	-3.25	446.62	446.63
B	13+65.67	-3.25	446.65	446.67
C	13+75.67	-3.25	446.67	446.69
D	13+85.67	-3.25	446.69	446.69
⌒ Brg. Pier 1	13+91.67	-3.25	446.70	446.70
E	14+01.67	-3.25	446.70	446.71
F	14+11.67	-3.25	446.70	446.72
G	14+21.67	-3.25	446.69	446.72
H	14+31.67	-3.25	446.68	446.70
I	14+41.67	-3.25	446.65	446.66
⌒ Brg. Pier 2	14+49.42	-3.25	446.63	446.63
J	14+59.42	-3.25	446.59	446.60
K	14+69.42	-3.25	446.55	446.57
L	14+79.42	-3.25	446.50	446.52
M	14+89.42	-3.25	446.45	446.46
⌒ Brg. E. Abut.	14+95.42	-3.25	446.42	446.42
Bk. of E. Abut.	14+97.53	-3.25	446.41	446.41



USER NAME =	DESIGNED - ACS	REVISED
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PLOT SCALE =	DRAWN - WJS	REVISED
PLOT DATE = 3/4/2024	CHECKED - LDG	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 060-0241

SHEET NO. 6 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
586	51-1R	MADISON	296	189
SN 060-0241		CONTRACT NO. 76A46		
ILLINOIS		FED. AID PROJECT		

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CL ROADWAY & P.G

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of W. Abut.	13+41.68	0.00	446.61	446.61
CL Brg. W. Abut.	13+43.79	0.00	446.62	446.62
A	13+53.79	0.00	446.66	446.67
B	13+63.79	0.00	446.69	446.71
C	13+73.79	0.00	446.72	446.73
D	13+83.79	0.00	446.74	446.74
CL Brg. Pier 1	13+89.79	0.00	446.75	446.75
E	13+99.79	0.00	446.75	446.76
F	14+09.79	0.00	446.75	446.77
G	14+19.79	0.00	446.74	446.77
H	14+29.79	0.00	446.73	446.75
I	14+39.79	0.00	446.71	446.71
CL Brg. Pier 2	14+47.54	0.00	446.68	446.68
J	14+57.54	0.00	446.65	446.66
K	14+67.54	0.00	446.61	446.62
L	14+77.54	0.00	446.56	446.58
M	14+87.54	0.00	445.51	445.52
CL Brg. E. Abut.	14+93.54	0.00	446.48	446.48
Bk. of E. Abut.	14+95.65	0.00	446.47	446.47

BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of W. Abut.	13+39.37	4.00	446.54	446.54
CL Brg. W. Abut.	13+41.48	4.00	446.55	446.55
A	13+51.48	4.00	446.59	446.60
B	13+61.48	4.00	446.63	446.64
C	13+71.48	4.00	446.65	446.66
D	13+81.48	4.00	446.67	446.68
CL Brg. Pier 1	13+87.48	4.00	446.68	446.68
E	13+97.48	4.00	446.69	446.70
F	14+07.48	4.00	446.69	446.71
G	14+17.48	4.00	446.69	446.71
H	14+27.48	4.00	446.67	446.69
I	14+37.48	4.00	446.65	446.66
CL Brg. Pier 2	14+45.23	4.00	446.63	446.63
J	14+55.23	4.00	446.60	446.61
K	14+65.23	4.00	446.56	446.58
L	14+75.23	4.00	446.51	446.53
M	14+85.23	4.00	446.46	446.47
CL Brg. E. Abut.	14+91.23	4.00	446.43	446.43
Bk. of E. Abut.	14+93.35	4.00	446.42	446.42

BEAM 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of W. Abut.	13+35.19	11.22	446.41	446.41
CL Brg. W. Abut.	13+37.29	11.25	446.42	446.42
A	13+47.21	11.39	446.46	446.48
B	13+57.13	11.53	446.50	446.52
C	13+67.05	11.67	446.53	446.54
D	13+76.97	11.81	446.55	446.55
CL Brg. Pier 1	13+82.92	11.90	446.56	446.56
E	13+92.84	12.04	446.57	446.58
F	14+02.76	12.18	446.57	446.59
G	14+12.68	12.32	446.57	446.59
H	14+22.59	12.46	446.55	446.57
I	14+32.51	12.60	446.53	446.54
CL Brg. Pier 2	14+40.20	12.71	446.52	446.52
J	14+50.12	12.85	446.48	446.49
K	14+60.04	12.99	446.44	446.46
L	14+69.96	13.13	446.40	446.42
M	14+79.88	13.27	446.35	446.36
CL Brg. E. Abut.	14+85.83	13.35	446.32	446.32
Bk. of E. Abut.	14+87.93	13.38	446.30	446.30



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PLOT SCALE =
PLOT DATE = 3/4/2024

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REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 060-0241

SHEET NO. 7 OF 31 SHEETS

F.A.P.
RTE.
586

SECTION
51-1R
SN 060-0241

COUNTY
MADISON
CONTRACT NO. 76A46

TOTAL
SHEETS
296
SHEET
NO.
190

ILLINOIS FED. AID PROJECT

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BEAM 7

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of W. Abut.	13+31.02	18.44	446.28	446.28
⌒ Brg. W. Abut.	13+33.11	18.50	446.29	446.29
A	13+42.95	18.78	446.33	446.35
B	13+52.78	19.06	446.37	446.39
C	13+62.62	19.34	446.40	446.41
D	13+72.45	19.62	446.42	446.42
⌒ Brg. Pier 1	13+78.36	19.79	446.43	446.43
E	13+88.20	20.07	446.44	446.45
F	13+98.03	20.35	446.45	446.47
G	14+07.87	20.64	446.44	446.47
H	14+17.71	20.92	446.43	446.45
I	14+27.55	21.20	446.42	446.42
⌒ Brg. Pier 2	14+35.18	21.42	446.40	446.40
J	14+45.02	21.70	446.37	446.37
K	14+54.85	21.98	446.33	446.35
L	14+64.69	22.26	446.29	446.31
M	14+74.52	22.54	446.23	446.24
⌒ Brg. E. Abut.	14+80.43	22.71	446.20	446.20
Bk. of E. Abut.	14+82.51	22.77	446.19	446.19

SOUTH EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of W. Abut.	13+30.71	18.97	446.27	446.27
⌒ Brg. W. Abut.	13+32.80	19.05	446.28	446.28
A	13+42.68	19.42	446.33	446.34
B	13+52.56	19.79	446.36	446.37
C	13+62.28	20.16	446.38	446.40
D	13+72.00	20.52	446.41	446.41
⌒ Brg. Pier 1	13+77.82	20.74	446.42	446.42
E	13+87.53	21.25	446.42	446.43
F	13+97.23	21.76	446.42	446.44
G	14+06.94	22.27	446.42	446.44
H	14+16.64	22.77	446.41	446.42
I	14+24.16	23.17	446.39	446.40
⌒ Brg. Pier 2	14+33.87	23.67	446.37	446.37
J	14+43.58	24.18	446.33	446.34
K	14+53.28	24.69	446.29	446.31
L	14+62.99	25.20	446.25	446.27
M	14+68.81	25.50	446.20	446.21
⌒ Brg. E. Abut.	14+78.53	26.01	446.16	446.16
Bk. of E. Abut.	14+80.59	26.12	446.15	446.15

BEAM 8

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of W. Abut.	13+26.85	25.66	446.11	446.11
⌒ Brg. W. Abut.	13+28.92	25.75	446.12	446.12
A	13+38.68	26.17	446.17	446.18
B	13+48.44	26.59	446.20	446.22
C	13+58.20	27.02	446.23	446.24
D	13+67.96	27.44	446.26	446.26
⌒ Brg. Pier 1	13+73.80	27.69	446.27	446.27
E	13+83.56	28.11	446.28	446.29
F	13+93.32	28.53	446.29	446.30
G	14+03.09	28.95	446.28	446.31
H	14+12.85	29.38	446.28	446.29
I	14+22.61	29.80	446.26	446.27
⌒ Brg. Pier 2	14+30.15	30.12	446.24	446.24
J	14+39.91	30.55	446.22	446.22
K	14+49.67	30.97	446.18	446.20
L	14+59.43	31.39	446.14	446.16
M	14+69.19	31.81	446.09	446.10
⌒ Brg. E. Abut.	14+75.03	32.06	446.06	446.06
Bk. of E. Abut.	14+77.09	32.15	446.05	446.05



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PLOT SCALE =	DRAWN - WJS	REVISED
PLOT DATE = 3/4/2024	CHECKED - LDG	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 060-0241

SHEET NO. 8 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
586	51-1R	MADISON	296	191
SN 060-0241		CONTRACT NO. 76A46		
ILLINOIS		FED. AID PROJECT		

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FACE OF SOUTH PARAPET

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of W. Abut	13+25.91	27.30	446.08	446.08
CL Brg. W. Abut.	13+27.98	27.39	446.09	446.09
A	13+37.74	27.81	446.13	446.14
B	13+47.50	28.23	446.17	446.18
C	13+57.26	28.65	446.20	446.21
D	13+67.02	29.07	446.22	446.22
CL Brg. Pier 1	13+72.86	29.32	446.23	446.23
E	13+82.62	29.74	446.25	446.25
F	13+92.38	30.17	446.25	446.27
G	14+02.15	30.59	446.25	446.27
H	14+11.91	31.01	446.24	446.26
I	14+21.67	31.43	446.23	446.23
CL Brg. Pier 2	14+29.21	31.76	446.21	446.21
J	14+38.97	32.18	446.19	446.19
K	14+48.73	32.60	446.15	446.17
L	14+58.49	33.02	446.11	446.13
M	14+68.25	33.44	446.06	446.07
CL Brg. E. Abut.	14+74.09	33.69	446.03	446.03
Bk. of E. Abut.	14+76.15	33.78	446.02	446.02



USER NAME =	
PLOT SCALE =	
PLOT DATE =	3/4/2024

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REVISED	
REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 060-0241

SHEET NO. 9 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
586	51-1R	MADISON	296	192
SN 060-0241		CONTRACT NO. 76A46		
ILLINOIS		FED. AID PROJECT		

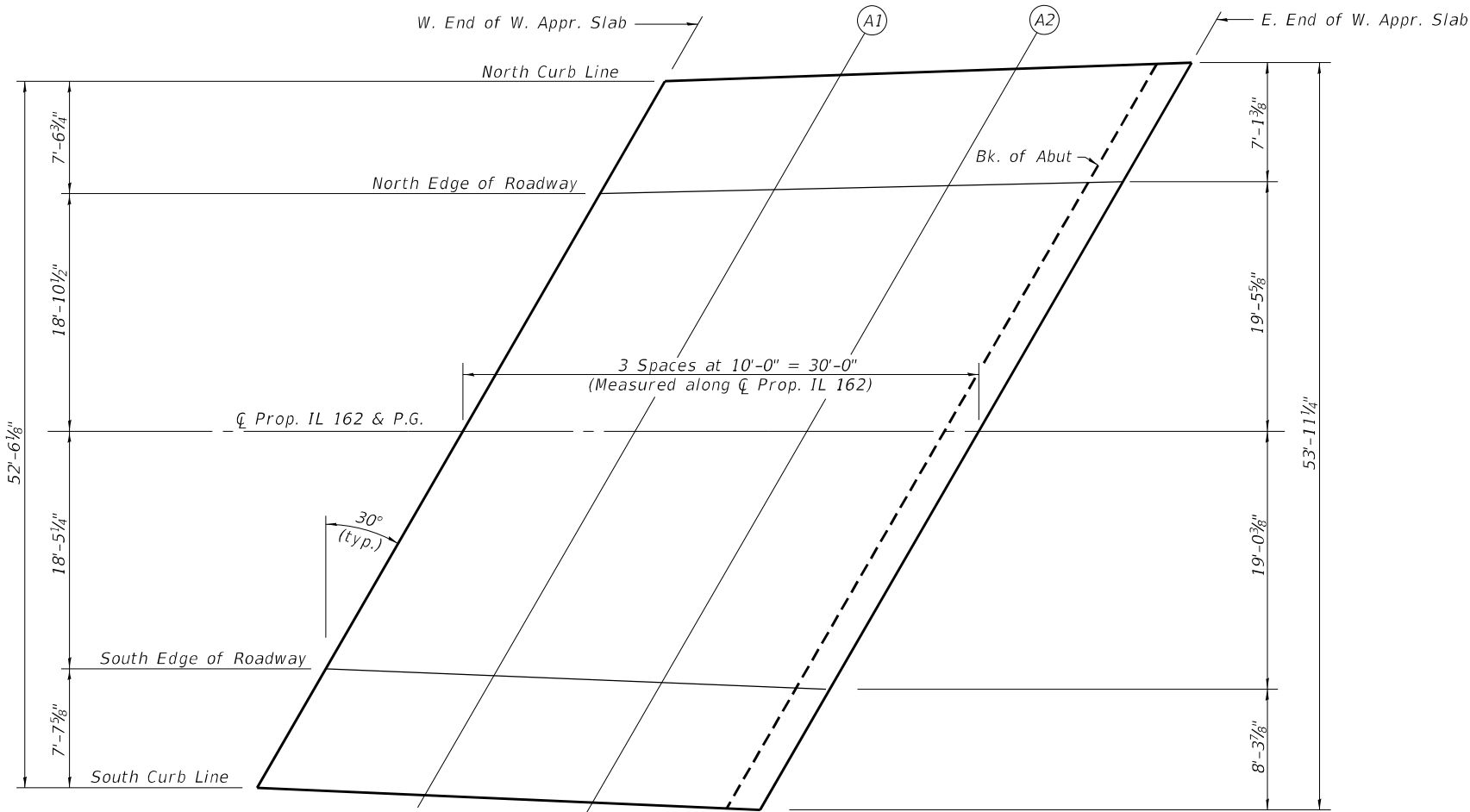
NORTH CURB LINE			
Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Slab	13+28.09	-26.43	446.11
A1	13+38.12	-26.48	446.16
A2	13+48.15	-26.53	446.20
E. End of W. Appr. Slab	13+58.18	-26.58	446.24

NORTH EDGE OF ROADWAY			
Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Slab	13+23.72	-18.87	446.23
A1	13+33.84	-19.07	446.28
A2	13+43.96	-19.27	446.33
E. End of W. Appr. Slab	13+54.07	-19.47	446.37

CL PROP. IL 162 & P.G.			
Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Slab	13+12.83	0.00	446.45
A1	13+22.83	0.00	446.51
A2	13+32.83	0.00	446.57
E. End of W. Appr. Slab	13+42.83	0.00	446.61

SOUTH EDGE OF ROADWAY			
Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Slab	13+02.19	18.44	446.09
A1	13+12.07	18.63	446.16
A2	13+21.96	18.83	446.22
E. End of W. Appr. Slab	13+31.84	19.03	446.27

SOUTH CURB LINE			
Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Slab	12+97.77	26.08	445.91
A1	13+07.53	26.50	445.97
A2	13+17.29	26.92	446.03
E. End of W. Appr. Slab	13+27.04	27.35	446.08



PLAN

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF WEST APPROACH SLAB ELEVATIONS
STRUCTURE NO. 060-0241

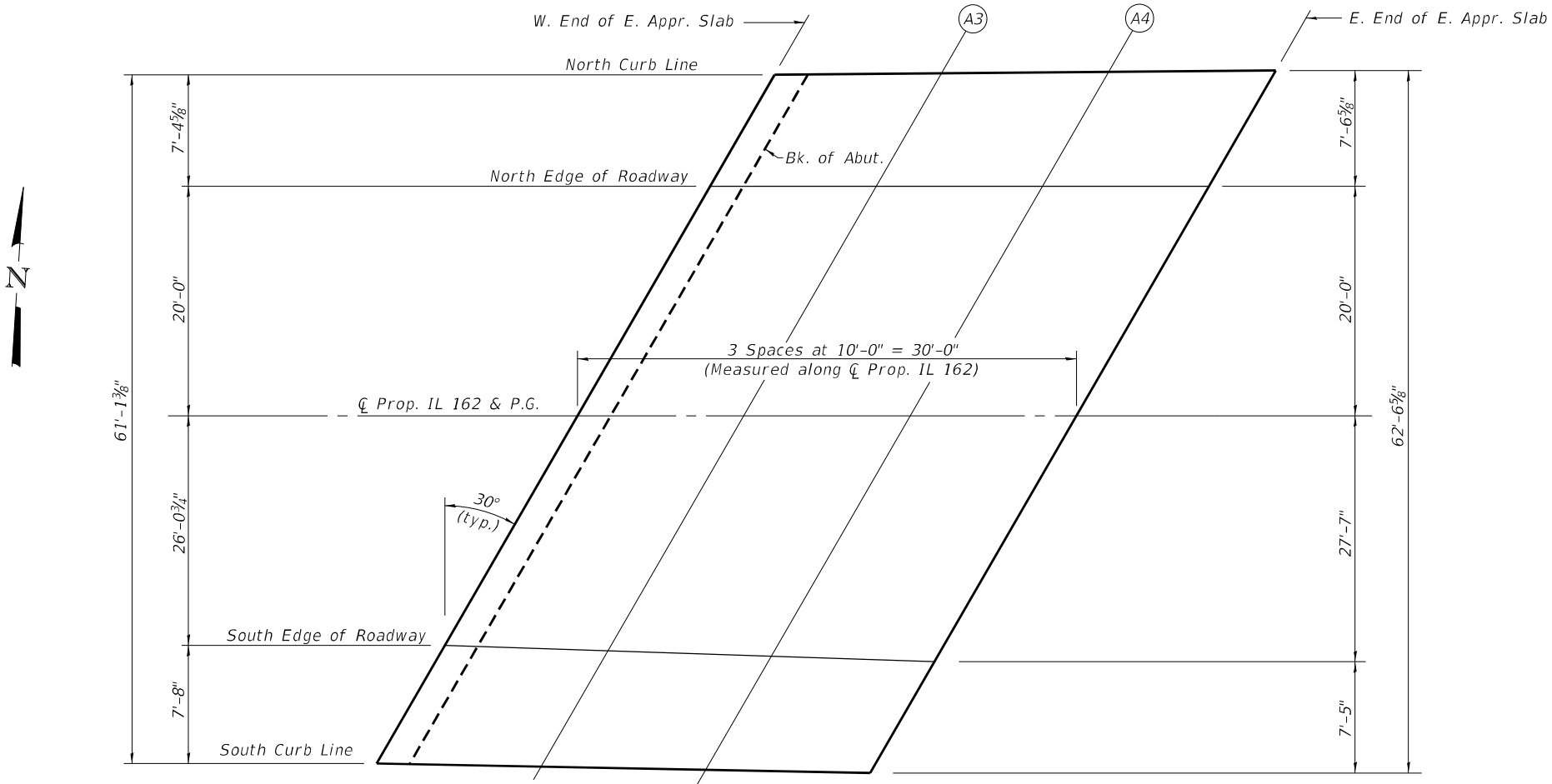
SHEET NO. 10 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
586	51-1R	MADISON	296	193
SN 060-0241		CONTRACT NO. 76A46		
ILLINOIS		FED. AID PROJECT		

NORTH CURB LINE			
Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr. Slab	15+10.32	-27.39	445.95
A3	15+20.35	-27.44	445.89
A4	15+30.38	-27.50	445.84
E. End of E. Appr. Slab	15+40.41	-27.55	445.79

NORTH EDGE OF ROADWAY			
Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr. Slab	15+06.05	-20	446.11
A3	15+16.05	-20	446.06
A4	15+26.05	-20	446.01
E. End of E. Appr. Slab	15+36.05	-20	445.96

CL PROP. IL 162 & P.G.			
Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr. Slab	14+94.51	0.00	446.47
A3	15+04.51	0.00	446.42
A4	15+14.51	0.00	446.37
E. End of E. Appr. Slab	15+24.51	0.00	446.32



PLAN

SOUTH EDGE OF ROADWAY			
Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr. Slab	14+79.46	26.06	446.16
A3	14+89.17	26.56	446.10
A4	14+98.88	27.07	446.04
E. End of E. Appr. Slab	15+08.58	27.58	445.99

SOUTH CURB LINE			
Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr. Slab	14+75.03	33.73	446.02
A3	14+84.79	34.16	445.97
A4	14+94.54	34.58	445.91
E. End of E. Appr. Slab	15+04.30	35.00	445.86

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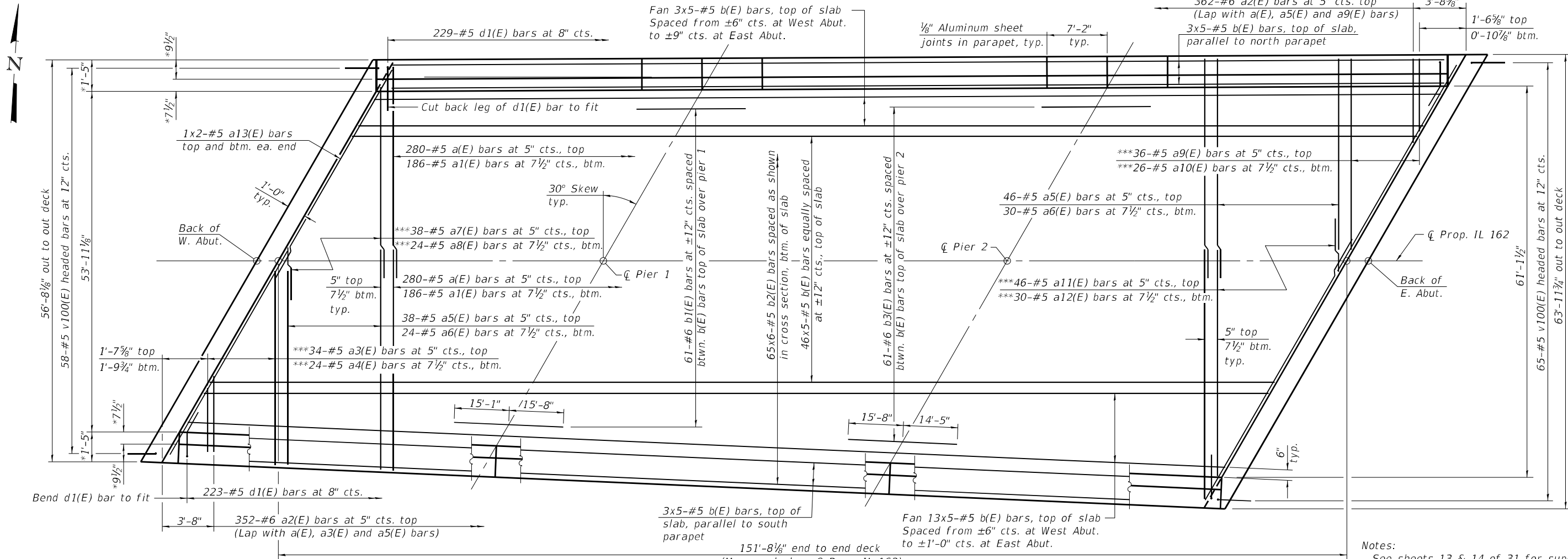
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	CHECKED - LDG	REVISED
PLOT SCALE =	DRAWN - WJS	REVISED
PLOT DATE = 3/4/2024	CHECKED - LDG	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF EAST APPROACH SLAB ELEVATIONS
STRUCTURE NO. 060-0241

SHEET NO. 11 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
586	51-1R	MADISON	296	194
SN 060-0241		CONTRACT NO. 76A46		
ILLINOIS FED. AID PROJECT				



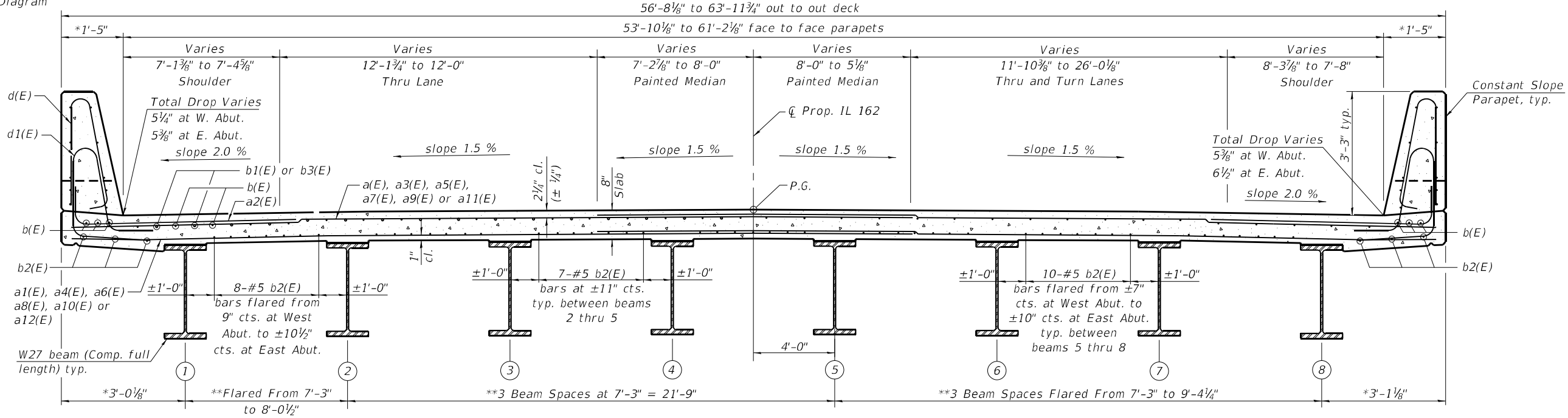
Notes:
See sheets 13 & 14 of 31 for superstructure details and Bill of Material.
Bars indicated thus 20x3-#5 etc. indicates 20 lines of bars with 3 lengths per line.

MINIMUM BAR LAP

#5 bar = 3'-6"

***See Field Cutting Diagram on sheet 14 of 31.

PLAN VIEW



* Perpendicular to Fascia Beam.
** Perpendicular to $\bar{C}$ Roadway.



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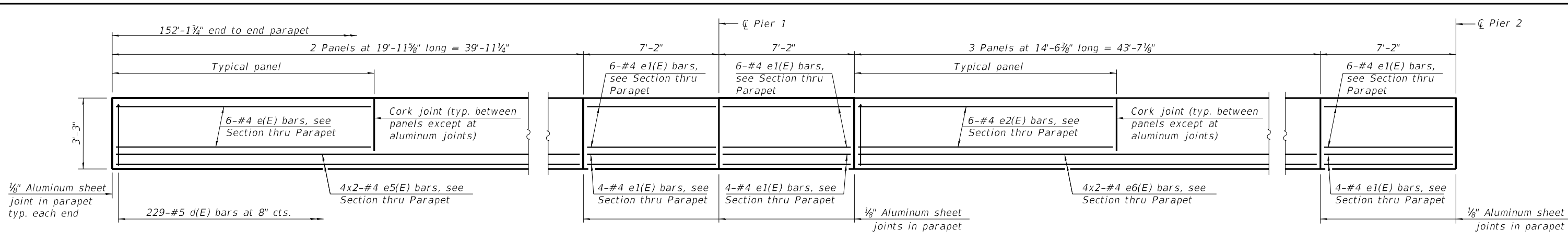
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE
STRUCTURE NO. 060-0241

SHEET NO. 12 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
586	51-1R	MADISON	296	195
SN 060-0241		CONTRACT NO. 76A46		

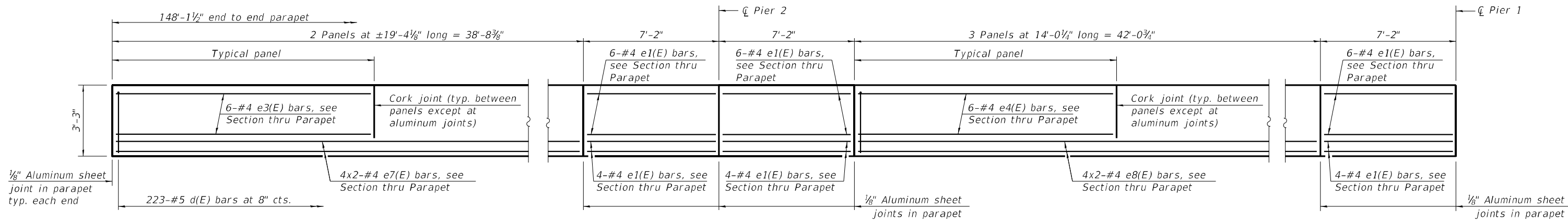
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SPAN 1 OR SPAN 3 (MIRRORED)

SPAN 2

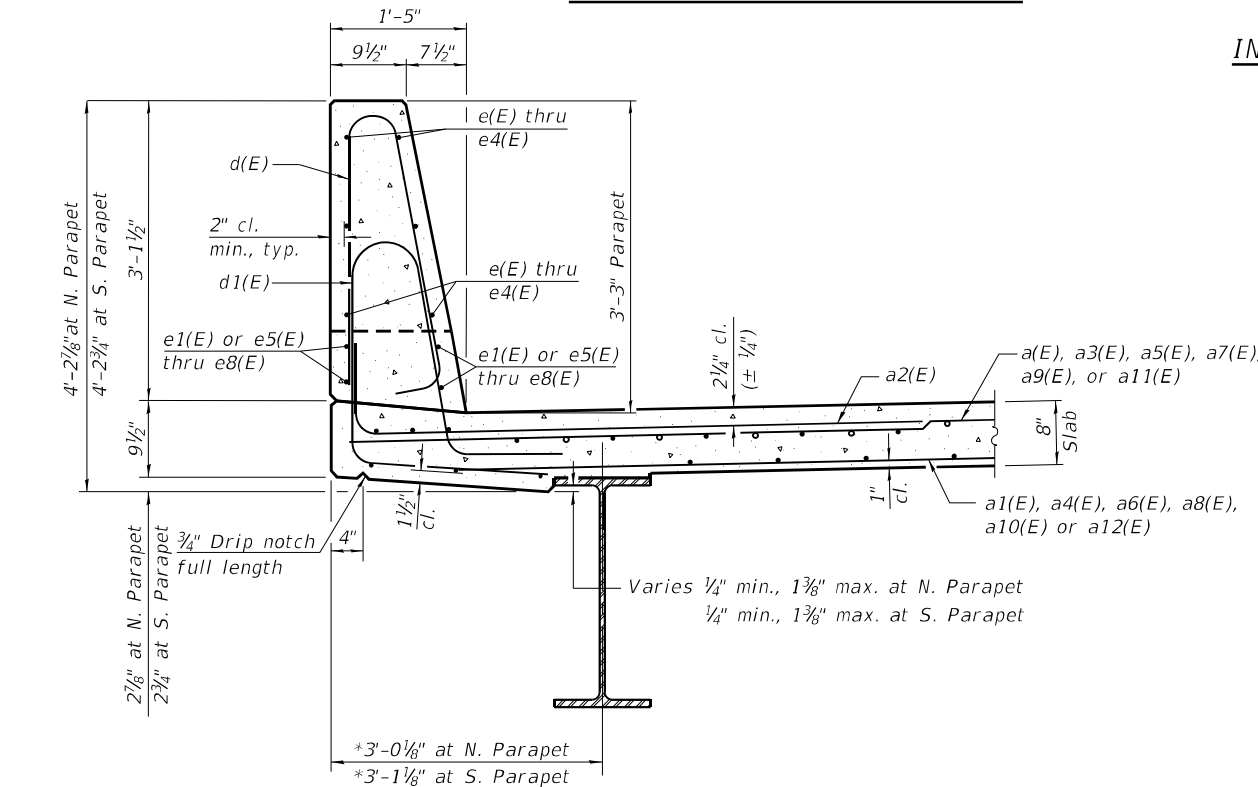
INSIDE ELEVATION OF PARAPET
(NORTH PARAPET)



SPAN 3 OR SPAN 1 (MIRRORED)

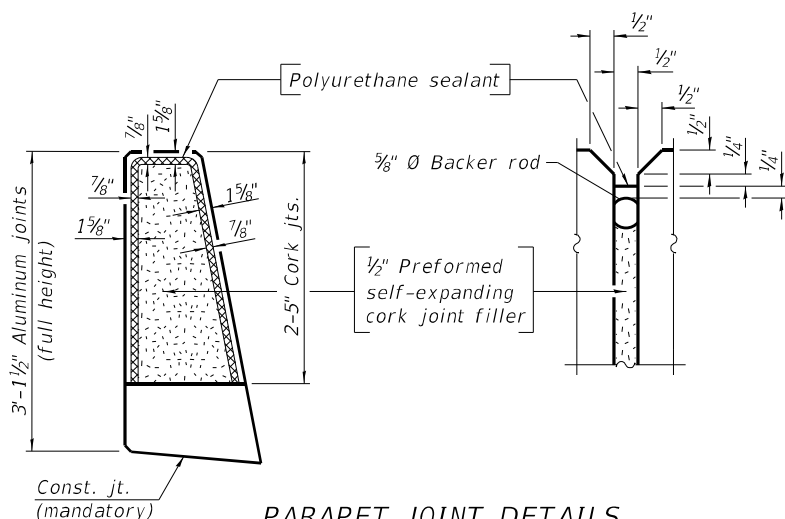
SPAN 2

INSIDE ELEVATION OF PARAPET
(SOUTH PARAPET)



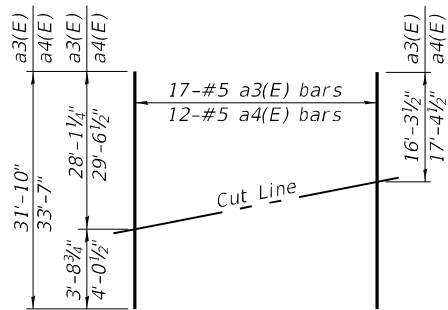
SECTION THRU PARAPET
* Perpendicular to Fascia Beam

MINIMUM BAR LAP
#4 bar = 2'-5"



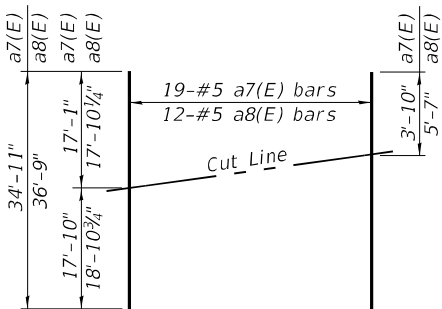
PARAPET JOINT DETAILS

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



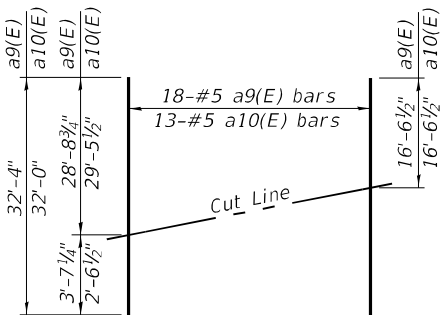
FIELD CUTTING DIAGRAM

Order a3(E) and a4(E) bars full length.
Cut as shown and use remainder of bars
within specified range as shown on
superstructure plan view.



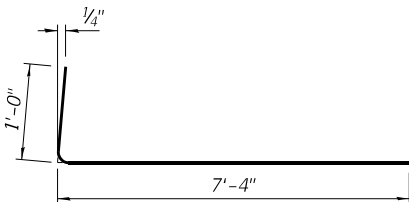
FIELD CUTTING DIAGRAM

Order a7(E) and a8(E) bars full length.
Cut as shown and use remainder of bars
within specified range as shown on
superstructure plan view.

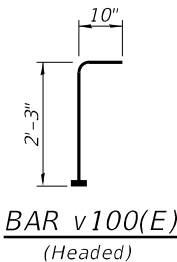


FIELD CUTTING DIAGRAM

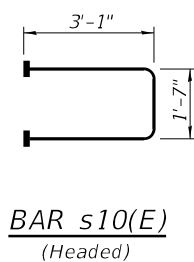
Order a9(E) and a10(E) bars full length.
Cut as shown and use remainder of bars
within specified range as shown on
superstructure plan view.



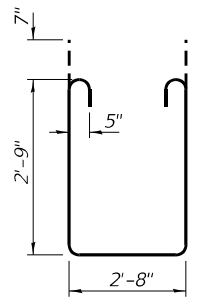
BAR a2(E)



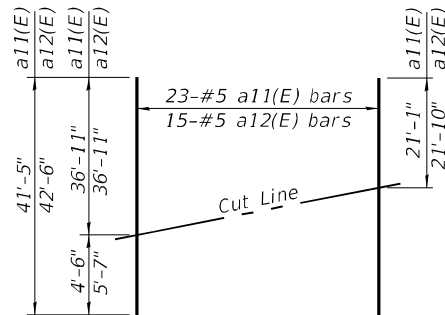
BAR v100(E)
(Headed)



BAR s10(E)
(Headed)

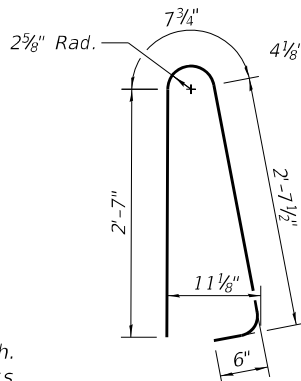


BAR s11(E)

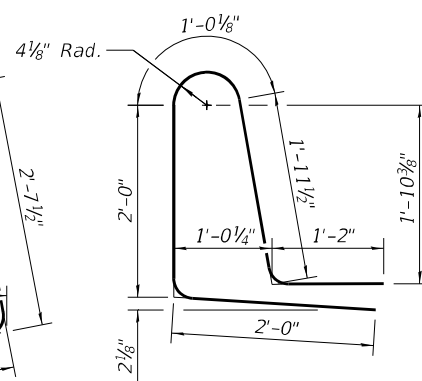


FIELD CUTTING DIAGRAM

Order a11(E) and a12(E) bars full length.
Cut as shown and use remainder of bars
within specified range as shown on
superstructure plan view.



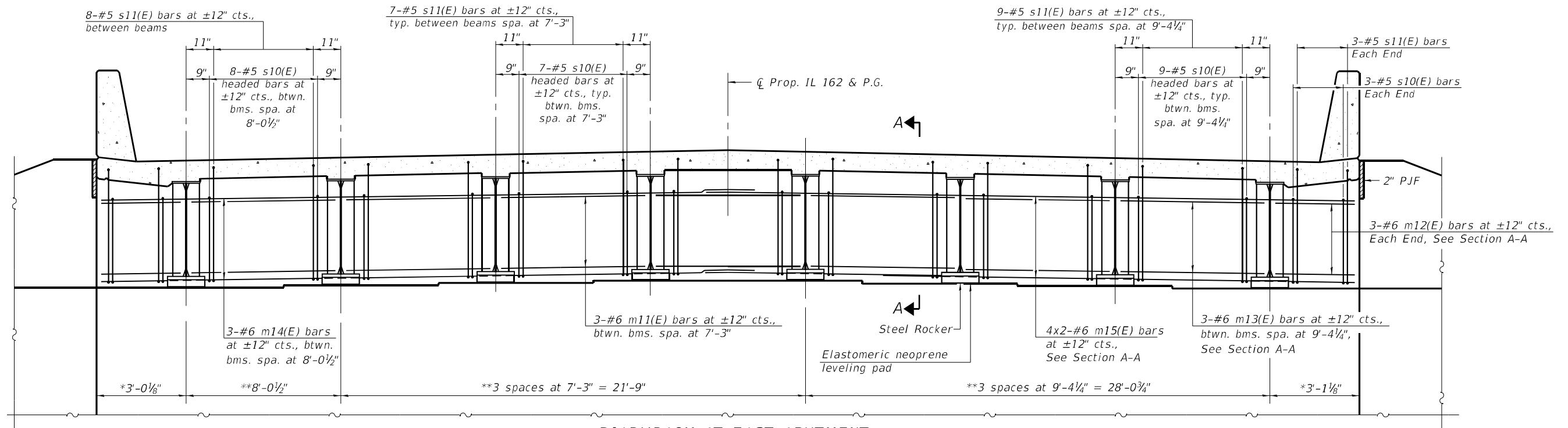
BAR d(E)



BAR d1(E)

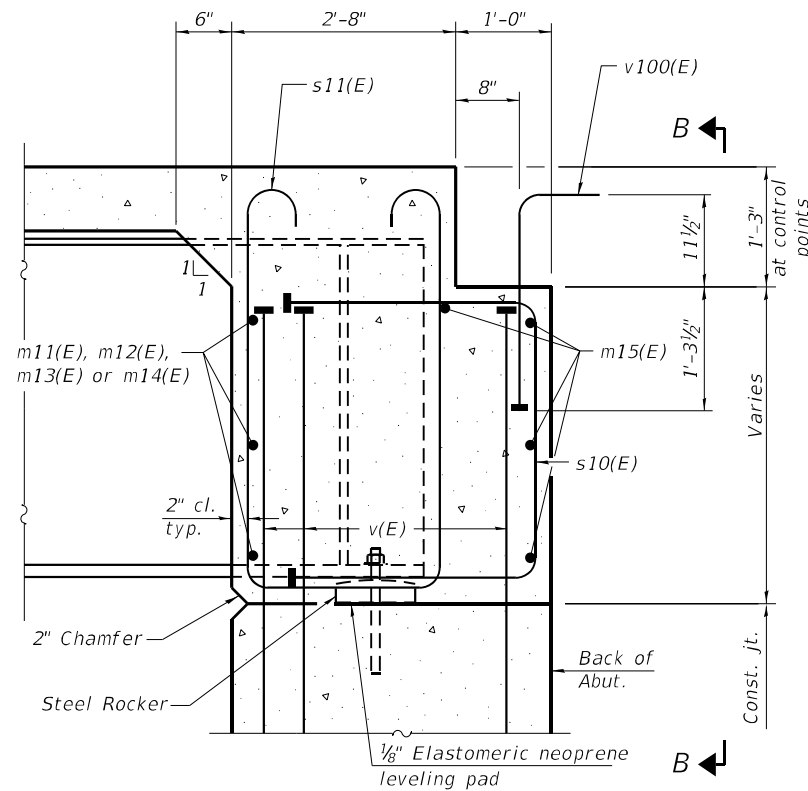
SUPERSTRUCTURE
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	560	#5	33'-6"	—
a1(E)	372	#5	33'-6"	—
a2(E)	714	#6	8'-4"	—
a3(E)	17	#5	31'-10"	—
a4(E)	12	#5	33'-7"	—
a5(E)	84	#5	28'-7"	—
a6(E)	54	#5	28'-7"	—
a7(E)	19	#5	34'-11"	—
a8(E)	12	#5	36'-9"	—
a9(E)	18	#5	32'-4"	—
a10(E)	13	#5	32'-0"	—
a11(E)	23	#5	41'-5"	—
a12(E)	15	#5	42'-6"	—
a13(E)	8	#5	33'-9"	—
b(E)	340	#5	33'-2"	—
b1(E)	61	#6	30'-9"	—
b2(E)	390	#5	28'-3"	—
b3(E)	61	#6	30'-1"	—
d(E)	452	#5	6'-5"	—
d1(E)	452	#5	8'-2"	—
e(E)	24	#4	19'-7"	—
e1(E)	80	#4	6'-10"	—
e2(E)	18	#4	14'-2"	—
e3(E)	24	#4	19'-0"	—
e4(E)	18	#4	13'-8"	—
e5(E)	16	#4	21'-1"	—
e6(E)	8	#4	23'-0"	—
e7(E)	16	#4	20'-5"	—
e8(E)	8	#4	22'-3"	—
m10(E)	8	#6	34'-7"	—
m11(E)	30	#6	7'-10"	—
m12(E)	12	#6	3'-0"	—
m13(E)	9	#6	10'-3"	—
m14(E)	3	#6	8'-9"	—
m15(E)	8	#6	38'-11"	—
s10(E)	117	#5	7'-9"	—
s11(E)	117	#5	9'-4"	—
v100(E)	123	#5	3'-1"	—
Concrete Superstructure			Cu. Yds.	319.3
Reinforcement Bars, Epoxy Coated			Pound	92,410

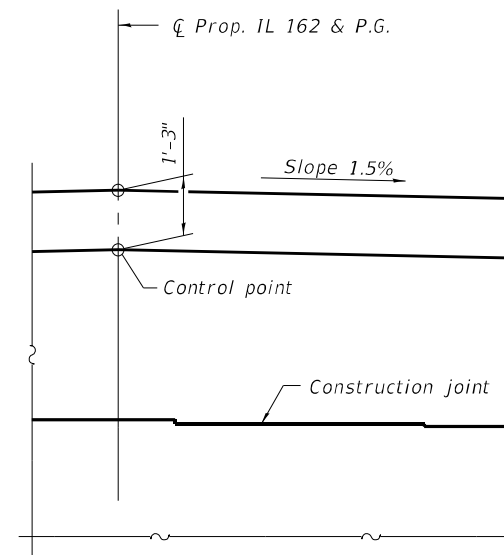


DIAPHRAGM AT EAST ABUTMENT

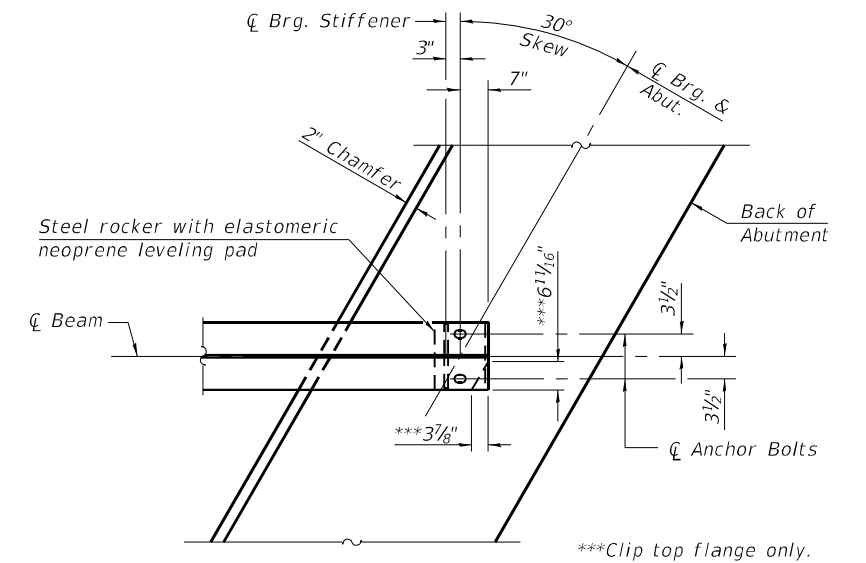
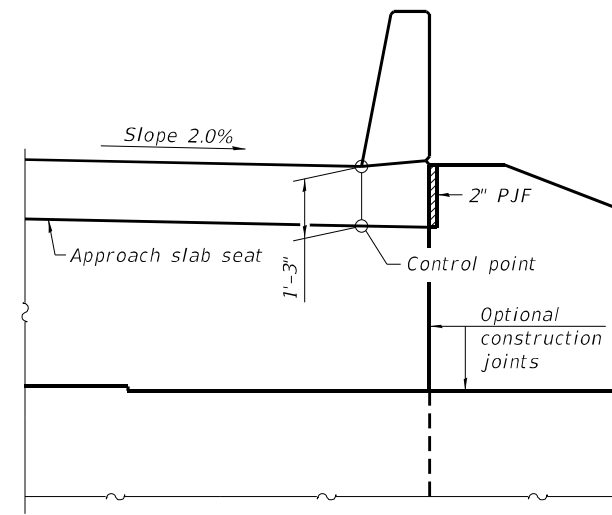
*Perpendicular to Fascia Beam.
**Perpendicular to $\varnothing$ Prop. IL 162.



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



VIEW B-B



PLAN AT EAST ABUTMENT
(Showing bottom flange of beam and top flange clip)

Notes:
See sheet 14 of 31 for superstructure details and Bill of Material.
See sheet 19 of 31 for PJF details.
The s10(E) and s11(E) bars shall be placed parallel to the beams.
Spacing for these bars shall be at right angles to the beams.
The approach slab seat shall have a constant slope determined from the control points shown.
Bars indicated thus 4x2-#6 etc. indicates 4 lines of bars with 2 lengths per line.



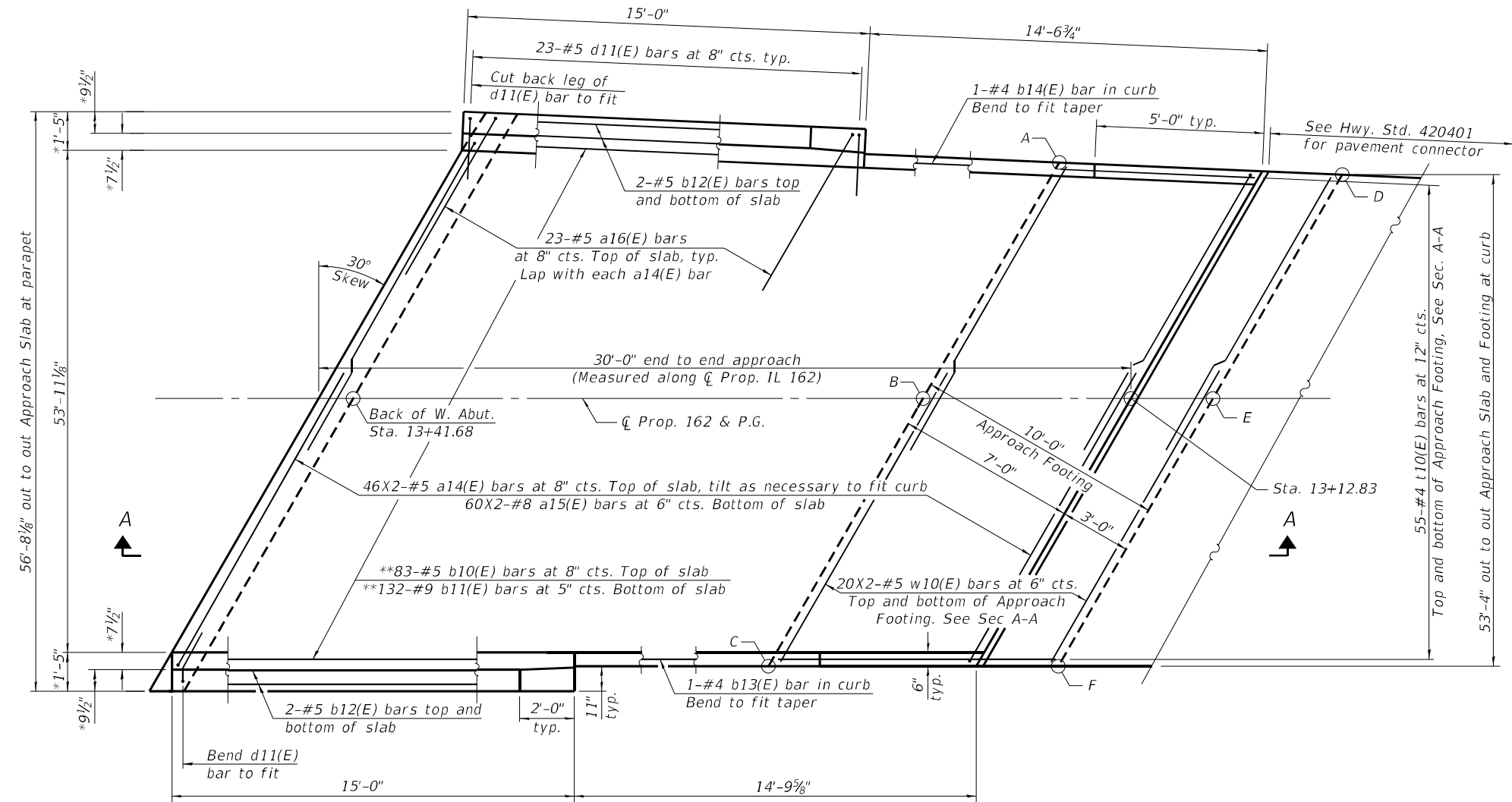
USER NAME =	DESIGNED - ACS	REVISED
	CHECKED - LDG	REVISED
PLOT SCALE =	DRAWN - WJS	REVISED
PLOT DATE = 3/4/2024	CHECKED - LDG	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST DIAPHRAGM DETAILS
STRUCTURE NO. 060-0241

SHEET NO. 16 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
586	51-1R	MADISON	296	199
SN 060-0241		CONTRACT NO. 76A46		
ILLINOIS FED. AID PROJECT				



* Perpendicular to face of parapet.
** Cut to fit.

PLAN

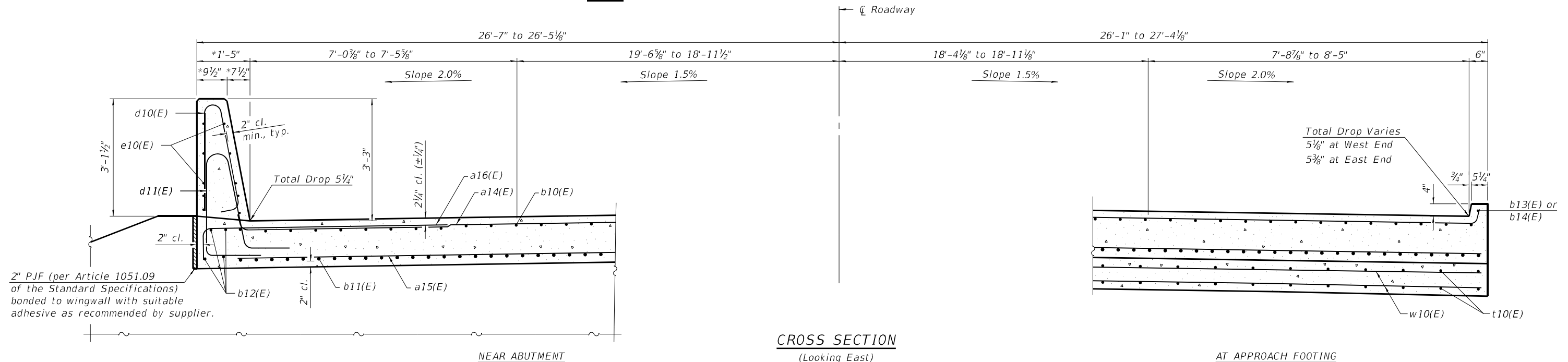
Notes:
Flare b10(E), b11(E) & t10(E) bars as required.
Bars indicated thus 20x2-#5 etc. indicates 20 lines of bars with 2 length per line.
For additional stations and offsets, see sheet 10 of 31.

**TOP AND BOTTOM ELEVATIONS
FOR APPROACH FOOTING**

Approach		
Point/Location	Top	Bottom
A - South Edge of Slab	444.69	443.86
B - $\bar{C}$ Prop. IL 162	445.25	444.42
C - North Edge of Slab	444.89	444.05
D - South Edge of Slab	444.62	443.79
E - $\bar{C}$ Prop. IL 162	445.17	444.34
F - North Edge of Slab	444.83	443.99

MINIMUM BAR LAP

#5 bar = 3'-4"
#8 bar = 4'-9"



CROSS SECTION
(Looking East)

AT APPROACH FOOTING



USER NAME =	DESIGNED - ACS	REVISED
	CHECKED - LDG	REVISED
PLOT SCALE =	DRAWN - WJS	REVISED
PLOT DATE = 3/4/2024	CHECKED - LDG	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**WEST BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 060-0241**

SHEET NO. 17 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
586	51-1R	MADISON	296	200
SN 060-0241		CONTRACT NO. 76A46		
ILLINOIS FED. AID PROJECT				