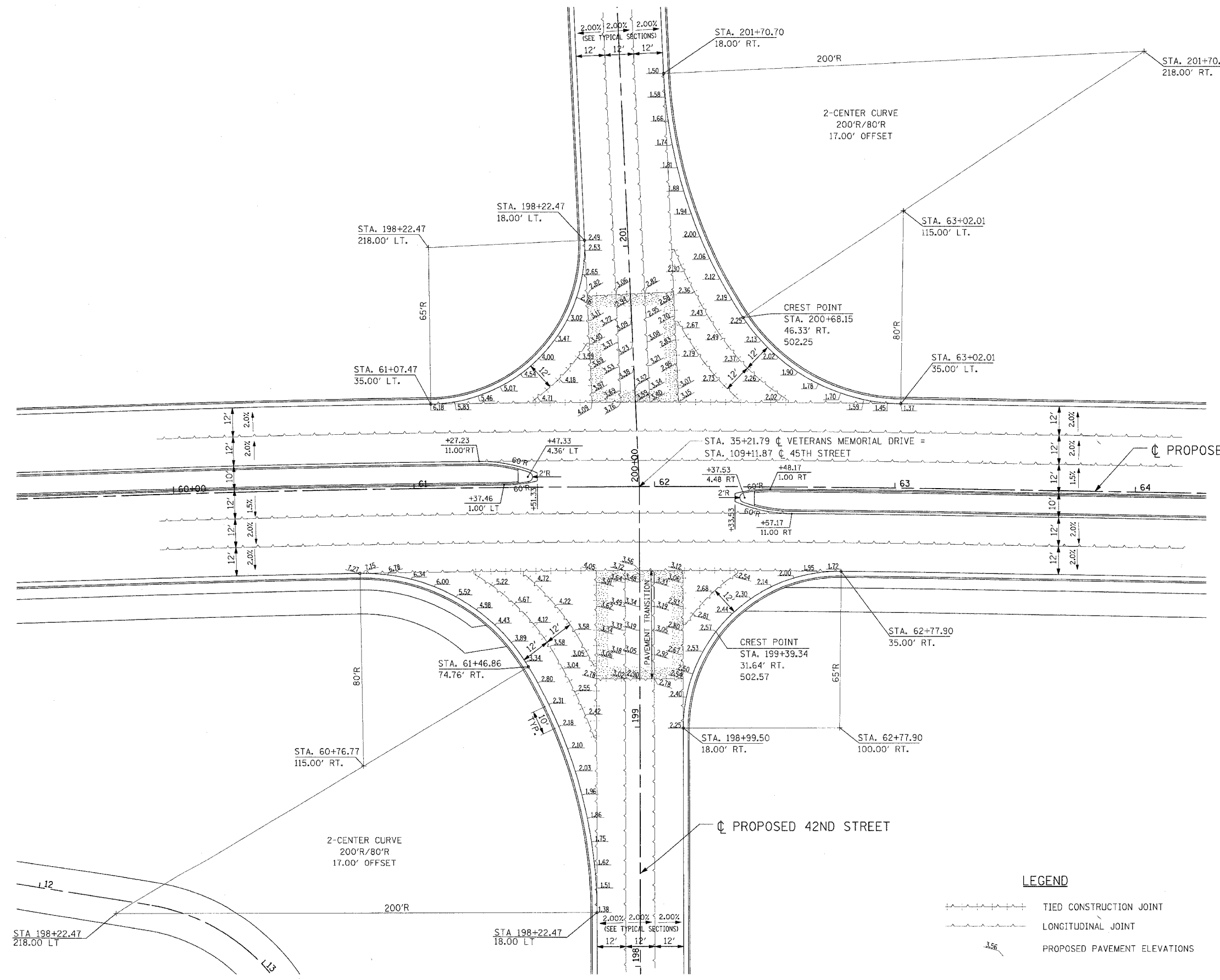


F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	41-3HBK	JEFFERSON	118	201
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 98963				

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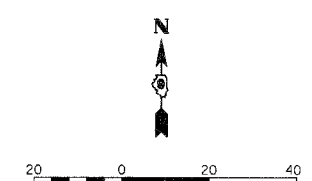
**NOTES:**

ADD 490' TO ALL PROPOSED PAVEMENT ELEVATIONS.

LONGITUDINAL CONSTRUCTION JOINTS SHALL CONSIST OF NO. 6 EPOXY COATED TIE BARS AT 24 INCH CENTERS. LONGITUDINAL SAWED JOINTS SHALL CONSIST OF NO. 6 EPOXY COATED TIE BARS AT 30 INCH CENTERS. SEE IDOT STANDARD 420001 FOR PAVEMENT JOINT DETAILS.

DOWELS AND TIE BARS SHALL BE CONSIDERED INCIDENTAL TO P.C.C. PAVEMENT.

TRANSVERSE CONTRACTION JOINTS TO BE PLACED IN ACCORDANCE WITH IDOT STANDARD 420106.



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LAYOUT	RLT	02/26/04
DRAWN	JED	04/12/04
REVIEWED	MTM	03/22/07

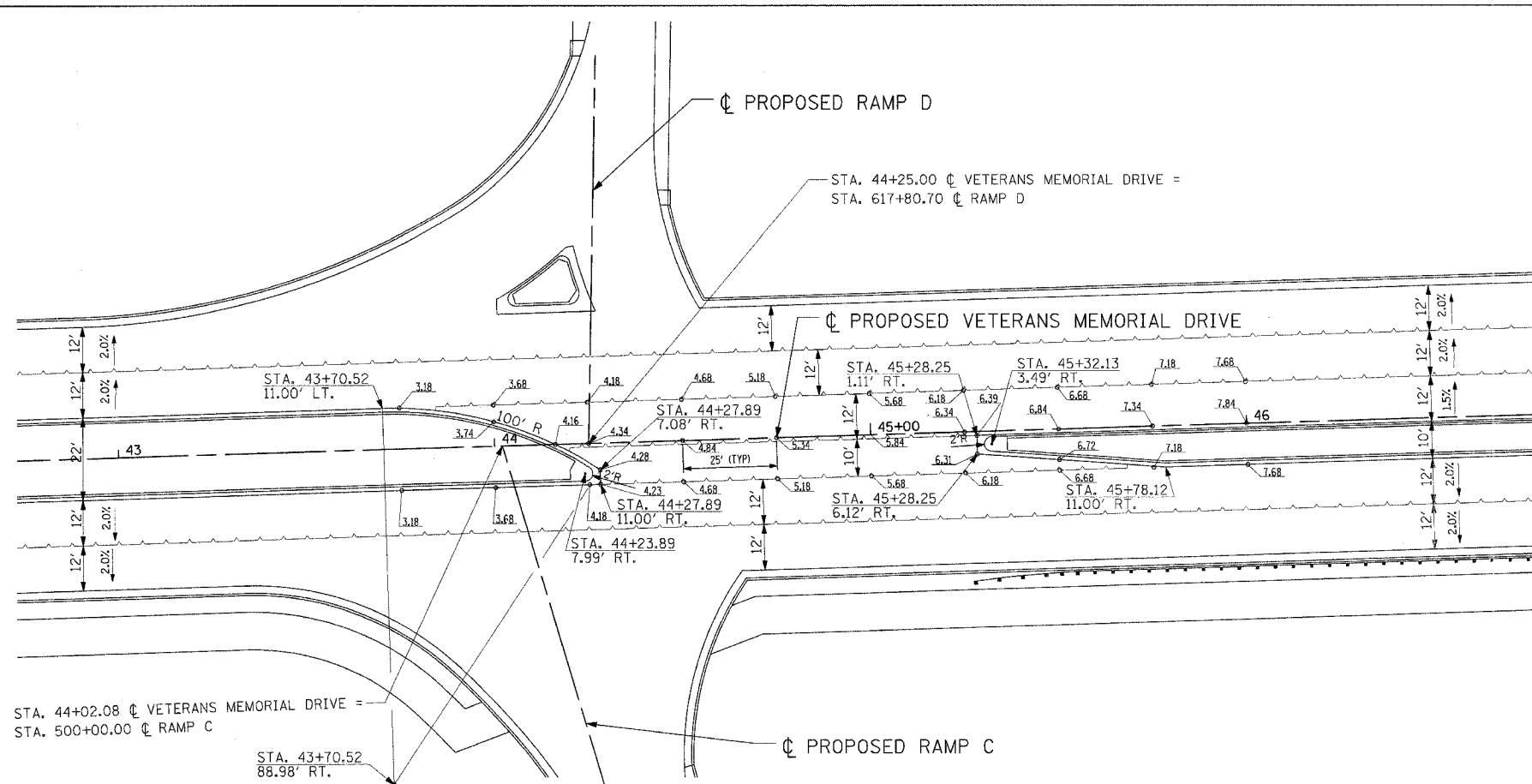
**LEGEND**

	TIED CONSTRUCTION JOINT
	LONGITUDINAL JOINT
	PROPOSED PAVEMENT ELEVATIONS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**INTERSECTION DETAILS**  
**VETERANS & 42ND STREET**  
 VETERANS MEMORIAL DRIVE  
 INTERCHANGE  
 SECTION (41-3)HBK  
 SCALE: 1"=20'  
 DATE 3-22-07  
 DRAWN BY RLT  
 CHECKED BY MTM

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	318	202
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 98963				

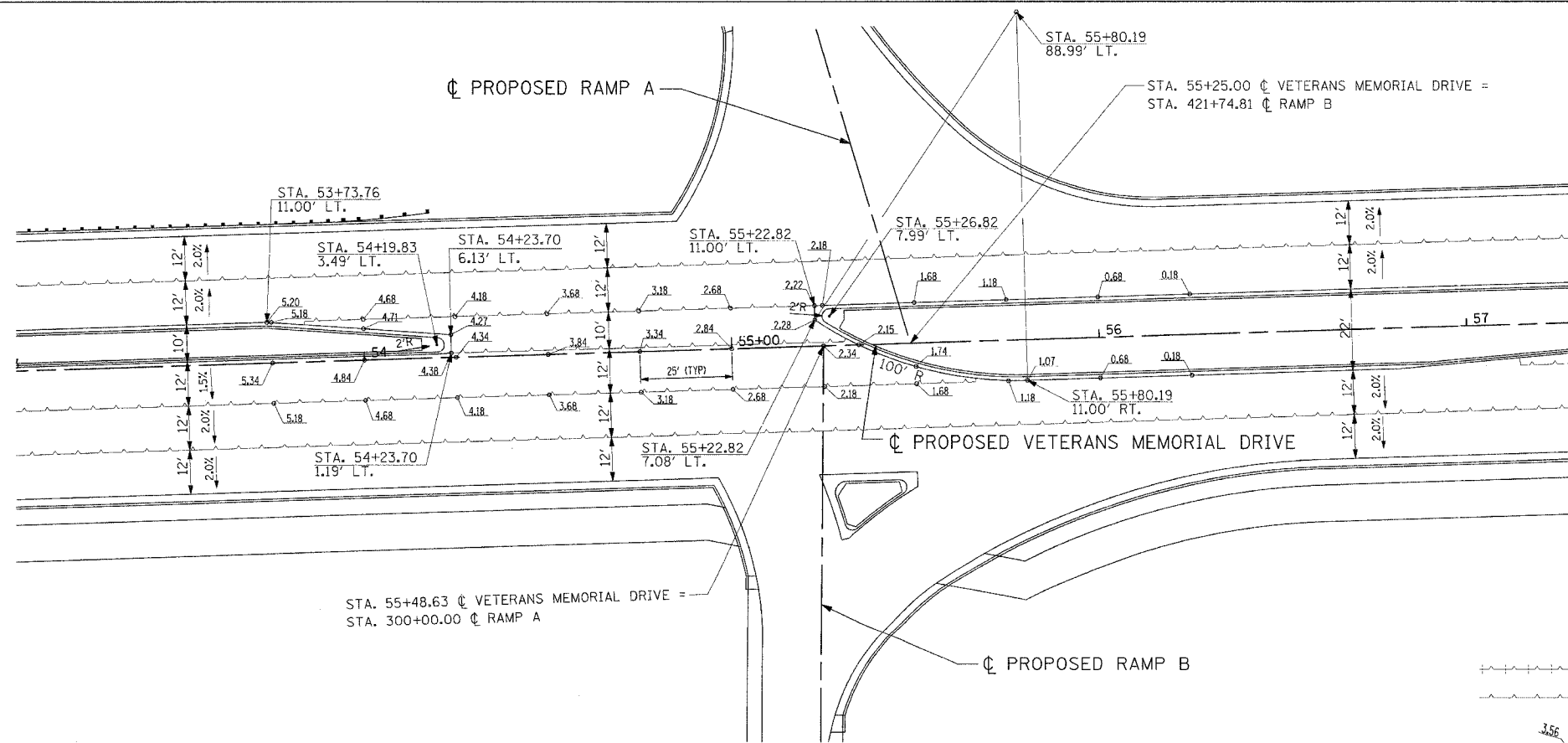
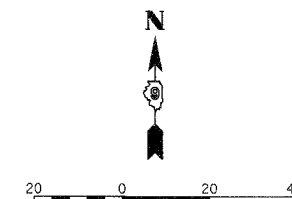


**NOTES:**

- ADD 520' TO ALL PROPOSED PAVEMENT ELEVATIONS.
- LONGITUDINAL CONSTRUCTION JOINTS SHALL CONSIST OF NO. 6 EPOXY COATED TIE BARS AT 24 INCH CENTERS. LONGITUDINAL SAWED JOINTS SHALL CONSIST OF NO. 6 EPOXY COATED TIE BARS AT 30 INCH CENTERS. SEE IDOT STANDARD 420001 FOR PAVEMENT JOINT DETAILS.
- DOWELS AND TIE BARS SHALL BE CONSIDERED INCIDENTAL TO P.C.C. PAVEMENT.
- TRANSVERSE CONTRACTION JOINTS TO BE PLACED IN ACCORDANCE WITH IDOT STANDARD 420106.

**LEGEND**

- TIED CONSTRUCTION JOINT
- LONGITUDINAL JOINT
- PROPOSED PAVEMENT ELEVATIONS

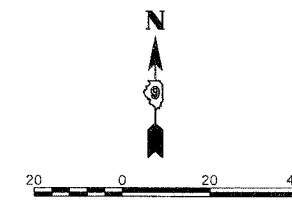


**NOTES:**

- ADD 520' TO ALL PROPOSED PAVEMENT ELEVATIONS.
- LONGITUDINAL CONSTRUCTION JOINTS SHALL CONSIST OF NO. 6 EPOXY COATED TIE BARS AT 24 INCH CENTERS. LONGITUDINAL SAWED JOINTS SHALL CONSIST OF NO. 6 EPOXY COATED TIE BARS AT 30 INCH CENTERS. SEE IDOT STANDARD 420001 FOR PAVEMENT JOINT DETAILS.
- DOWELS AND TIE BARS SHALL BE CONSIDERED INCIDENTAL TO P.C.C. PAVEMENT.
- TRANSVERSE CONTRACTION JOINTS TO BE PLACED IN ACCORDANCE WITH IDOT STANDARD 420106.

**LEGEND**

- TIED CONSTRUCTION JOINT
- LONGITUDINAL JOINT
- PROPOSED PAVEMENT ELEVATIONS



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**VETERANS INTERSECTION DETAILS**  
**VETERANS MEMORIAL DRIVE INTERCHANGE**  
**SECTION (41-3)HBK**

SCALE: 1"=20'  
DATE 3-22-07

DRAWN BY RL  
CHECKED BY MTM

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 DRAWN: JED 04/12/04  
 REVIEWED: MTM 03/22/07

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	518	203
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 98963				

**NOTE A**

PAVEMENT WIDTH TRANSITION  
LEFT LANE LINE TRANSITIONS FROM  
7.50' LT. STA. 195+81.70 TO  
6.00' LT. STA. 197+84.73

PAVEMENT WIDTH TRANSITION  
RIGHT LANE LINE TRANSITIONS FROM  
7.50' RT. STA. 195+85.66 TO  
6.00' RT. STA. 197+87.18

**NOTES:**

ADD 490' TO ALL PROPOSED PAVEMENT ELEVATIONS.

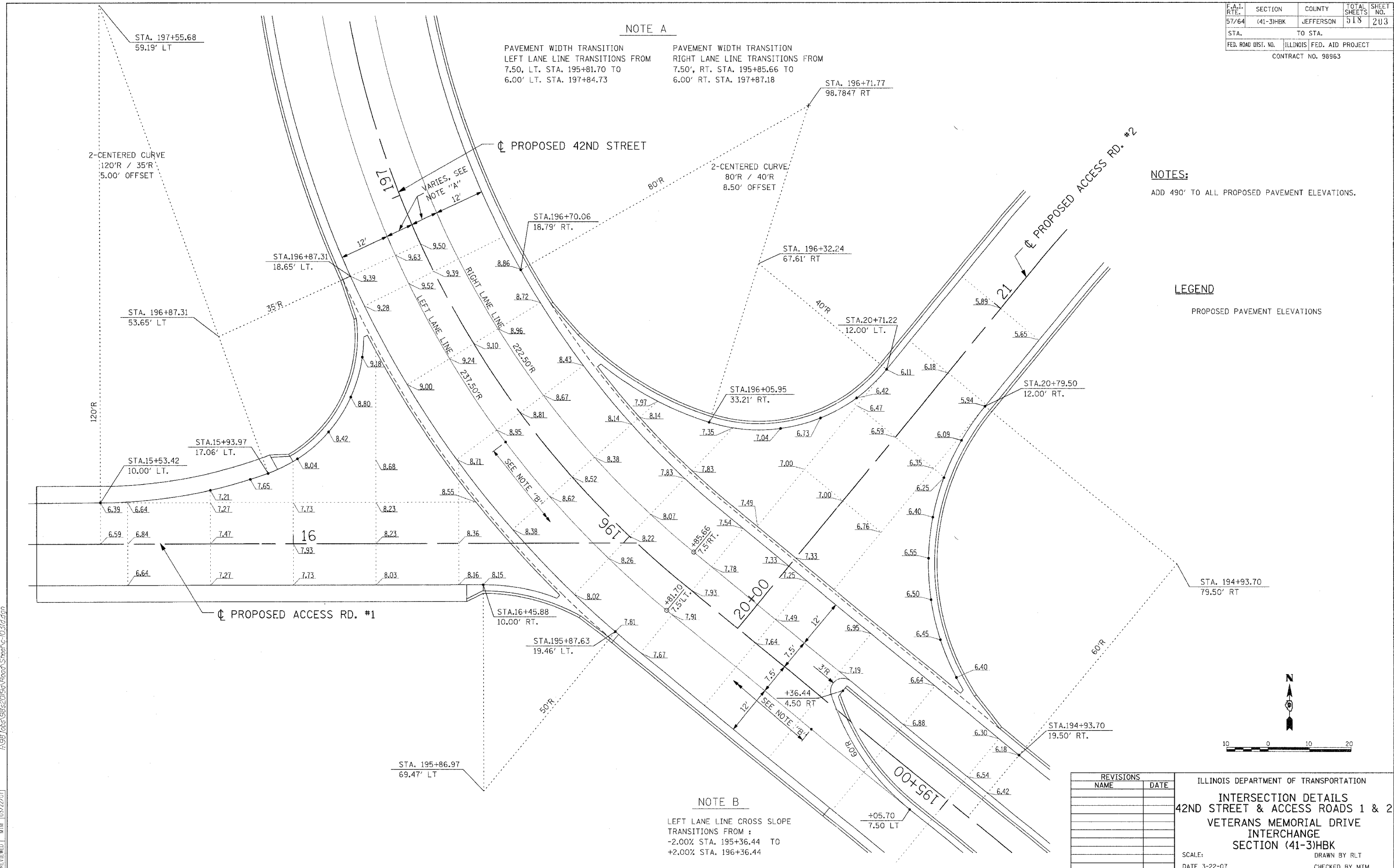
**LEGEND**

PROPOSED PAVEMENT ELEVATIONS

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LAYOUT	RLT	02/26/04
DRAWN	JED	04/12/04
REVIEWED	MTM	03/22/07



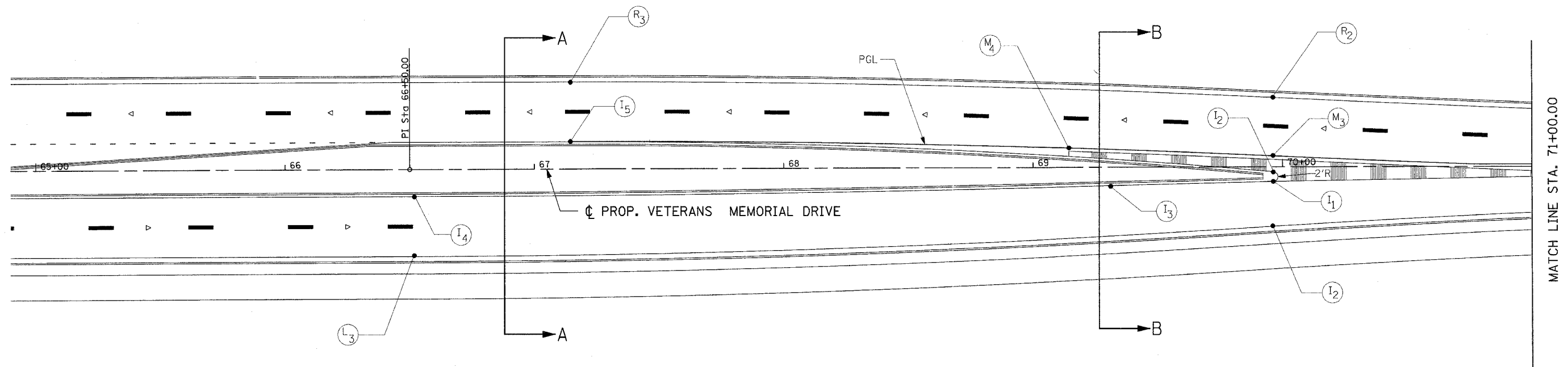
**NOTE B**

LEFT LANE LINE CROSS SLOPE  
TRANSITIONS FROM :  
-2.00% STA. 195+36.44 TO  
+2.00% STA. 196+36.44

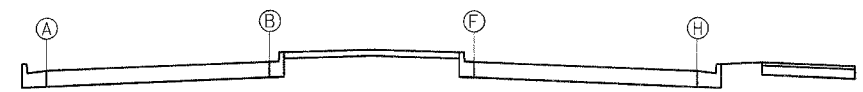
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**INTERSECTION DETAILS**  
**42ND STREET & ACCESS ROADS 1 & 2**  
**VETERANS MEMORIAL DRIVE**  
**INTERCHANGE**  
**SECTION (41-3)HBK**  
 SCALE: DRAWN BY RLT  
 DATE 3-22-07 CHECKED BY MTM

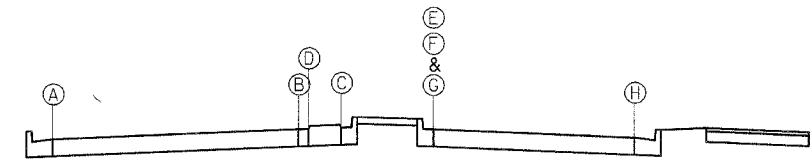
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	518	204
STA. 65+00.00		TO STA. 71+00.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 98963				



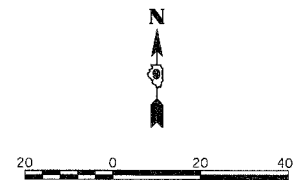
STATION	OFFSETS LEFT OF CL								OFFSETS RIGHT OF CL								
	LT. OEOP (A)		LT. PGL (B)		ISLAND (C)		MEDIAN (D)		MEDIAN (E)		ISLAND (F)		RT. PGL (G)		RT. OEOP (H)		
	OFF	ELEV	OFF	ELEV	OFF	ELEV	OFF	ELEV	OFF	ELEV	OFF	ELEV	OFF	ELEV	OFF	ELEV	
L <sub>3</sub> I <sub>4</sub>	66+51.71	35.00'	502.55	11.00'	503.03	11.00'	503.03	-	-	-	-	11.00'	503.03	11.00'	503.03	35.00'	502.55
	66+67.34	35.00'	502.81	11.00'	503.29	11.00'	503.29	-	-	-	-	10.99'	503.29	10.99'	503.29	34.98'	502.81
	66+90.34	35.00'	503.20	11.00'	503.68	11.00'	503.68	-	-	-	-	10.93'	503.68	10.93'	503.68	34.86'	503.20
I <sub>5</sub> R <sub>3</sub>	67+14.36	35+00'	503.60	11.00'	504.08	11.00'	504.08	-	-	-	-	10.82'	504.08	10.82'	504.08	34.63'	503.60
	67+17.34	35+00'	503.65	11.00'	504.13	11.00'	504.13	-	-	-	-	10.81'	504.13	10.81'	504.13	34.60'	503.65
	67+40.34	34.94'	504.03	10.94'	504.51	10.89'	504.51	-	-	-	-	10.65'	504.51	10.65'	504.51	34.27'	504.04
	67+65.34	34.77'	504.45	10.77'	504.93	10.58'	504.93	-	-	-	-	10.42'	504.93	10.42'	504.93	33.80'	504.46
	67+90.34	34.49'	504.87	10.49'	505.35	10.06'	505.35	-	-	-	-	10.14'	505.35	10.14'	505.35	33.21'	504.89
	68+15.34	34.09'	505.28	10.09'	505.76	9.33'	505.78	-	-	-	-	9.80'	505.76	9.80'	505.76	32.50'	505.31
	68+40.34	33.59'	505.70	9.59'	506.18	8.41'	506.20	-	-	-	-	9.41'	506.18	9.41'	506.18	31.68'	505.73
	68+65.34	32.98'	506.12	8.98'	506.60	7.27'	506.63	-	-	-	-	8.96'	506.60	8.96'	506.60	30.75'	506.16
	68+90.34	32.25'	506.54	8.25'	507.02	5.94'	507.07	-	-	-	-	8.45'	507.02	8.45'	507.02	29.69'	506.60
M <sub>4</sub>	69+14.33	31.45'	506.94	7.45'	507.42	4.40'	507.48	6.48'	507.50	-	-	7.91'	507.42	7.91'	507.42	28.58'	507.01
	69+15.34	31.42'	506.94	6.84'	507.43	4.40'	507.48	6.44'	507.49	-	-	7.89'	507.43	7.89'	507.43	28.53'	507.02
I <sub>3</sub>	69+30.99	30.84'	507.20	6.47'	507.69	3.33'	507.75	5.86'	507.77	-	-	7.51'	507.69	7.51'	507.69	22.73'	507.29
	69+40.34	30.47'	507.35	5.41'	507.85	2.65'	507.91	5.50'	507.90	-	-	7.28'	507.85	7.31'	507.85	27.24'	507.45
	69+65.34	29.41'	507.77	4.25'	508.27	0.69'	508.34	4.45'	508.34	-	-	6.68'	508.27	6.74'	508.27	25.84'	507.89
	69+90.34	28.25'	508.19	3.97'	508.68	-1.47'	508.79	3.29'	508.80	-	-	6.13'	508.68	6.14'	508.68	24.32'	508.32
L <sub>2</sub> I <sub>1</sub> I <sub>2</sub> M <sub>3</sub> R <sub>2</sub>	69+96.18	27.97'	508.28	3.07'	508.78	-2.00'	508.88	3.00'	508.88	6.00	508.78	6.00'	508.78	6.00'	508.78	23.96'	508.42
	70+15.34	27.08'	508.60	1.94'	509.10	-	-	2.06'	509.10	5.70'	509.10	-	-	5.70'	509.10	22.82'	508.76
	70+40.34	25.95'	509.02	0.84'	509.52	-	-	0.88'	509.52	5.28'	509.52	-	-	5.28'	509.52	21.43'	509.20
	70+65.34	24.88'	509.44	0.00'	509.94	-	-	-0.25'	509.95	4.82'	509.94	-	-	4.82'	509.94	20.15'	509.63
	70+90.34	23.85'	509.87	0.00'	510.35	-	-	-1.34'	510.38	4.33'	510.35	-	-	4.33'	510.35	18.97'	510.06



SECTION A-A



SECTION B-B



REVISIONS	
NAME	DATE

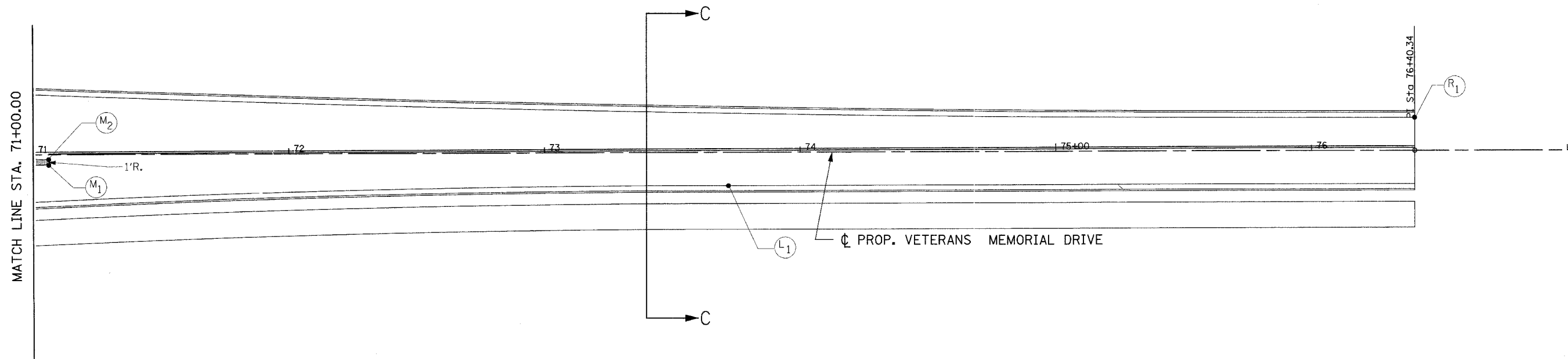
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**CHANNELIZATION DETAIL**  
 STA. 65+00.00 TO STA. 71+00.00  
**VETERANS MEMORIAL DRIVE**  
**INTERCHANGE**  
**SECTION (41-3)HBK**  
 SCALE: 1"=20'  
 DATE 3-22-07  
 DRAWN BY RLT  
 CHECKED BY MTM

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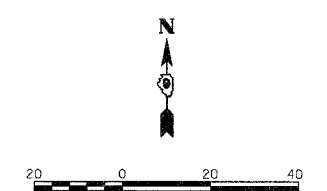
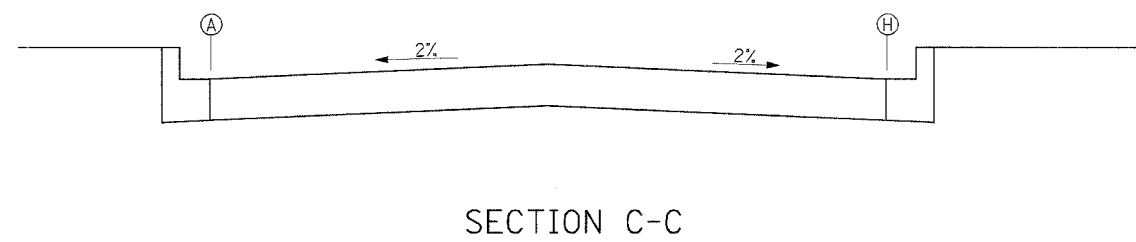
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LAYOUT: RLT 02/26/04  
 DRAWN: JEQ 04/12/05  
 REVIEWED: MTM 03/22/07

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	518	205
STA. 71+00.00		TO STA. 76+00.00		
FED. ROAD DIST. NO. _		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 98963				



STATION	OFFSETS LEFT OF C								OFFSETS RIGHT OF C							
	LT. OEOP (A)		LT. IEOP (B)		ISLAND (C)		MEDIAN (D)		MEDIAN (E)		ISLAND (F)		RT. IEOP/ISLAND (G)		RT. OEOP (H)	
	OFF	ELEV	OFF	ELEV	OFF	ELEV	OFF	ELEV	OFF	ELEV	OFF	ELEV	OFF	ELEV	OFF	ELEV
M <sub>1</sub> M <sub>2</sub> 71+06.18	23.22'	510.16	0.00'	510.62	-	-	-2.00	510.66	4.00	510.62	-	-	4.00'	510.62	18.28'	510.33
71+15.34	22.86'	510.31	0.00'	510.77	-	-	-	-	-	-	-	-	3.80'	510.77	17.90'	510.49
71+40.34	21.93'	510.75	0.00'	511.19	-	-	-	-	-	-	-	-	3.24'	511.19	16.93'	510.92
71+65.34	21.03'	511.18	0.00'	511.60	-	-	-	-	-	-	-	-	2.64'	511.60	16.07'	511.33
71+90.34	20.19'	511.62	0.00'	512.02	-	-	-	-	-	-	-	-	2.01'	512.02	15.31'	511.75
72+15.34	19.39'	512.05	0.00'	512.44	-	-	-	-	-	-	-	-	1.34'	512.44	14.66'	512.17
72+40.34	18.64'	512.49	0.00'	512.86	-	-	-	-	-	-	-	-	0.63'	512.86	14.12'	512.59
72+65.34	17.94'	512.91	0.00'	513.27	-	-	-	-	-	-	-	-	0.00'	513.27	13.68'	513.00
72+90.34	17.28'	513.34	0.00'	513.69	-	-	-	-	-	-	-	-	0.00'	513.69	13.35'	513.42
73+15.34	16.67'	513.78	0.00'	514.11	-	-	-	-	-	-	-	-	0.00'	514.11	13.12'	513.85
73+40.34	16.11'	514.20	0.00'	514.52	-	-	-	-	-	-	-	-	0.00'	514.52	13.00'	514.26
73+65.34	15.59'	514.63	0.00'	514.94	-	-	-	-	-	-	-	-	0.00'	514.94	12.99'	514.68
L <sub>1</sub> 73+71.97	15.46'	514.74	0.00'	515.05	-	-	-	-	-	-	-	-	0.00'	515.05	13.00	514.79
73+90.34	15.12'	515.06	0.00'	515.36	-	-	-	-	-	-	-	-	0.00'	515.36	13.00	515.10
74+15.34	14.70'	515.49	0.00'	515.78	-	-	-	-	-	-	-	-	0.00'	515.78	13.00'	515.52
74+40.34	14.33'	515.90	0.00'	516.19	-	-	-	-	-	-	-	-	0.00'	516.19	13.00'	515.93
74+65.34	14.00'	516.33	0.00'	516.61	-	-	-	-	-	-	-	-	0.00'	516.61	13.00'	516.35
74+90.34	13.71'	516.76	0.00'	517.03	-	-	-	-	-	-	-	-	0.00'	517.03	13.00'	516.77
75+15.34	13.48'	517.17	0.00'	517.44	-	-	-	-	-	-	-	-	0.00'	517.44	13.00'	517.18
75+40.34	13.29'	517.59	0.00'	517.86	-	-	-	-	-	-	-	-	0.00'	517.86	13.00'	517.60
75+65.34	13.15'	518.02	0.00'	518.28	-	-	-	-	-	-	-	-	0.00'	518.28	13.00'	518.02
75+90.34	13.00'	518.44	0.00'	518.70	-	-	-	-	-	-	-	-	0.00'	518.70	13.00'	518.44
76+15.34	13.00'	518.85	0.00'	519.11	-	-	-	-	-	-	-	-	0.00'	519.11	13.00'	518.85
R <sub>1</sub> 76+40.34	13.00'	519.27	0.00'	519.11	-	-	-	-	-	-	-	-	0.00'	519.53	13.00'	519.27



REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION	
NAME	DATE		

**CHANNELIZATION DETAIL**  
**STA. 71+00.00 TO STA. 76+00.00**  
**VETERANS MEMORIAL DRIVE**  
**INTERCHANGE**  
**SECTION (41-3)HBK**

SCALE: 1"=20'  
 DATE: 3-22-07  
 DRAWN BY: RL  
 CHECKED BY: MT

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 DESIGNED: JEO 04/12/04  
 REVIEWED: MTM 03/22/07

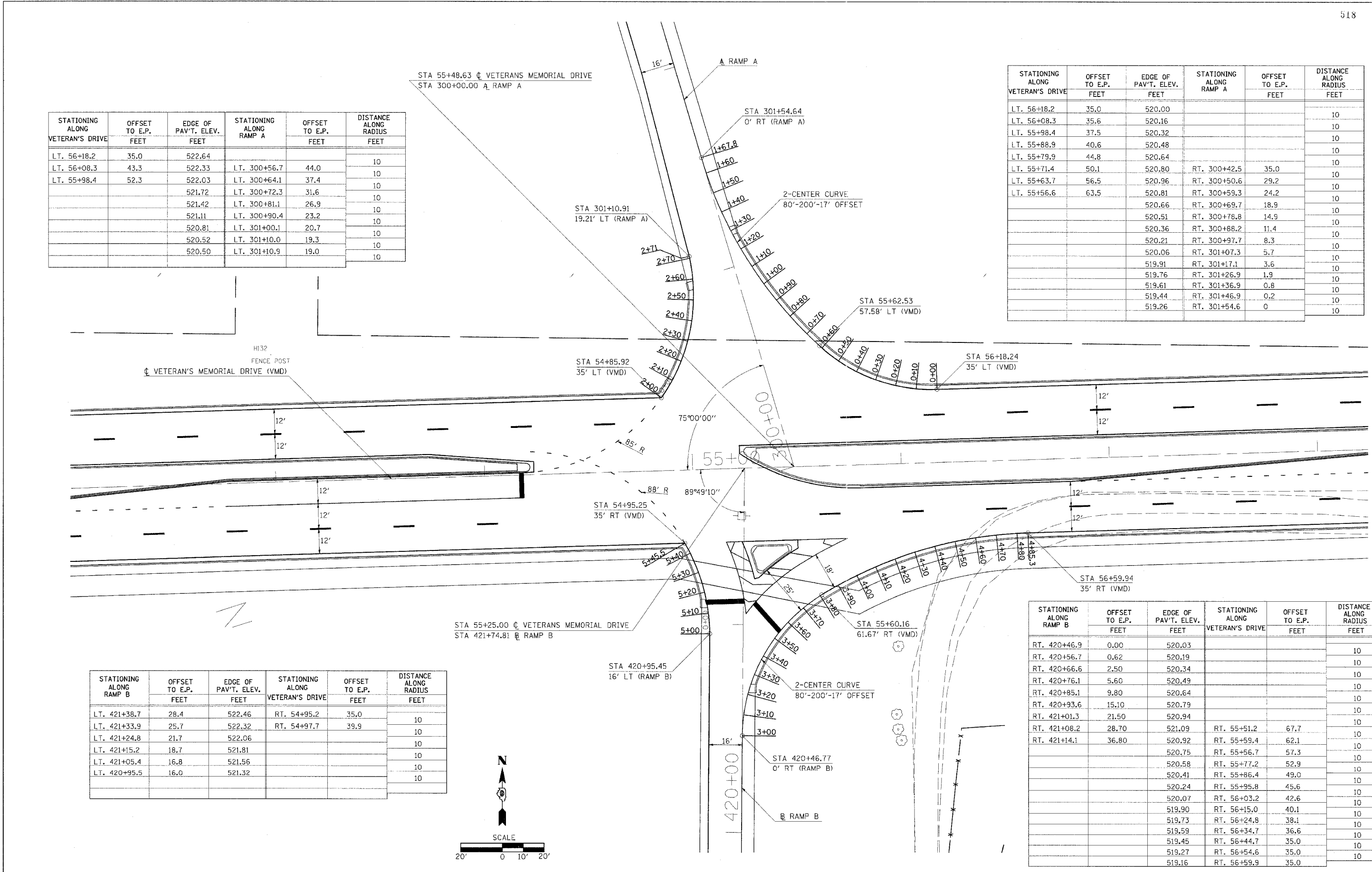
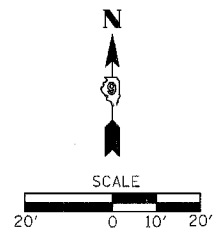
STATIONING ALONG VETERAN'S DRIVE	OFFSET TO E.P. FEET	EDGE OF PAV'T. ELEV. FEET	STATIONING ALONG RAMP A	OFFSET TO E.P. FEET	DISTANCE ALONG RADIUS FEET
LT. 56+18.2	35.0	522.64			10
LT. 56+08.3	43.3	522.33	LT. 300+56.7	44.0	10
LT. 55+98.4	52.3	522.03	LT. 300+64.1	37.4	10
		521.72	LT. 300+72.3	31.6	10
		521.42	LT. 300+81.1	26.9	10
		521.11	LT. 300+90.4	23.2	10
		520.81	LT. 301+00.1	20.7	10
		520.52	LT. 301+10.0	19.3	10
		520.50	LT. 301+10.9	19.0	10

STATIONING ALONG VETERAN'S DRIVE	OFFSET TO E.P. FEET	EDGE OF PAV'T. ELEV. FEET	STATIONING ALONG RAMP A	OFFSET TO E.P. FEET	DISTANCE ALONG RADIUS FEET
LT. 56+18.2	35.0	520.00			10
LT. 56+08.3	35.6	520.16			10
LT. 55+98.4	37.5	520.32			10
LT. 55+88.9	40.6	520.48			10
LT. 55+79.9	44.8	520.64			10
LT. 55+71.4	50.1	520.80	RT. 300+42.5	35.0	10
LT. 55+63.7	56.5	520.96	RT. 300+50.6	29.2	10
LT. 55+56.6	63.5	520.81	RT. 300+59.3	24.2	10
		520.66	RT. 300+69.7	18.9	10
		520.51	RT. 300+78.8	14.9	10
		520.36	RT. 300+88.2	11.4	10
		520.21	RT. 300+97.7	8.3	10
		520.06	RT. 301+07.3	5.7	10
		519.91	RT. 301+17.1	3.6	10
		519.76	RT. 301+26.9	1.9	10
		519.61	RT. 301+36.9	0.8	10
		519.44	RT. 301+46.9	0.2	10
		519.26	RT. 301+54.6	0	10

STATIONING ALONG RAMP B	OFFSET TO E.P. FEET	EDGE OF PAV'T. ELEV. FEET	STATIONING ALONG VETERAN'S DRIVE	OFFSET TO E.P. FEET	DISTANCE ALONG RADIUS FEET
LT. 421+38.7	28.4	522.46	RT. 54+95.2	35.0	10
LT. 421+33.9	25.7	522.32	RT. 54+97.7	39.9	10
LT. 421+24.8	21.7	522.06			10
LT. 421+15.2	18.7	521.81			10
LT. 421+05.4	16.8	521.56			10
LT. 420+95.5	16.0	521.32			10

STATIONING ALONG RAMP B	OFFSET TO E.P. FEET	EDGE OF PAV'T. ELEV. FEET	STATIONING ALONG VETERAN'S DRIVE	OFFSET TO E.P. FEET	DISTANCE ALONG RADIUS FEET
RT. 420+46.9	0.00	520.03			10
RT. 420+56.7	0.62	520.19			10
RT. 420+66.6	2.50	520.34			10
RT. 420+76.1	5.60	520.49			10
RT. 420+85.1	9.80	520.64			10
RT. 420+93.6	15.10	520.79			10
RT. 421+01.3	21.50	520.94			10
RT. 421+08.2	28.70	521.09	RT. 55+51.2	67.7	10
RT. 421+14.1	36.80	520.92	RT. 55+59.4	62.1	10
		520.75	RT. 55+56.7	57.3	10
		520.58	RT. 55+77.2	52.9	10
		520.41	RT. 55+86.4	49.0	10
		520.24	RT. 55+95.8	45.6	10
		520.07	RT. 56+03.2	42.6	10
		519.90	RT. 56+15.0	40.1	10
		519.73	RT. 56+24.8	38.1	10
		519.59	RT. 56+34.7	36.6	10
		519.45	RT. 56+44.7	35.0	10
		519.27	RT. 56+54.6	35.0	10
		519.16	RT. 56+59.9	35.0	10

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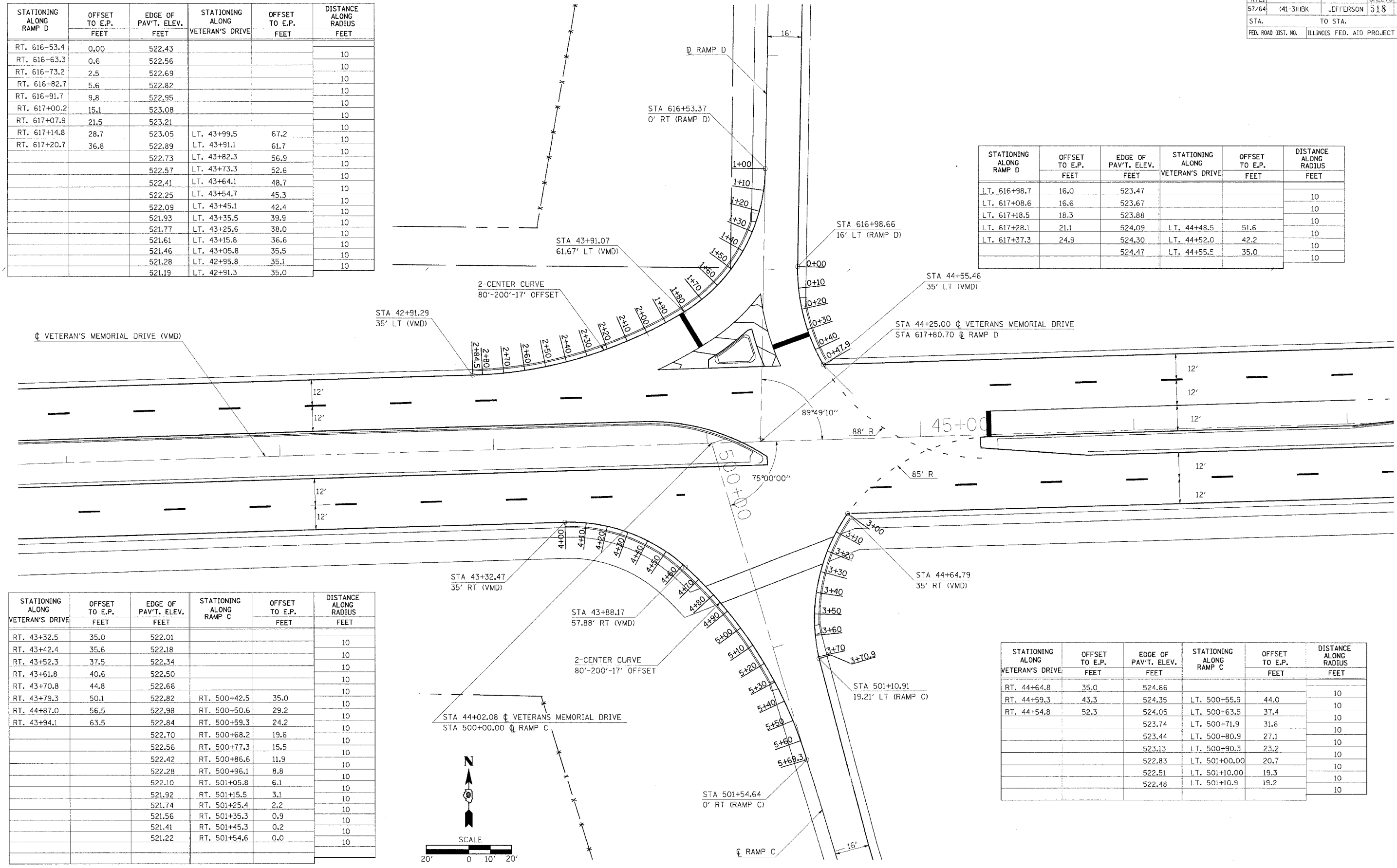


GEOMETRICS - INTERSECTION RAMPS A/B

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	518	207
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

STATIONING ALONG RAMP D	OFFSET TO E.P. FEET	EDGE OF PAV'T. ELEV. FEET	STATIONING ALONG VETERAN'S DRIVE	OFFSET TO E.P. FEET	DISTANCE ALONG RADIUS FEET
RT. 616+53.4	0.00	522.43			10
RT. 616+63.3	0.6	522.56			10
RT. 616+73.2	2.5	522.69			10
RT. 616+82.7	5.6	522.82			10
RT. 616+91.7	9.8	522.95			10
RT. 617+00.2	15.1	523.08			10
RT. 617+07.9	21.5	523.21			10
RT. 617+14.8	28.7	523.05	LT. 43+99.5	67.2	10
RT. 617+20.7	36.8	522.89	LT. 43+91.1	61.7	10
		522.73	LT. 43+82.3	56.9	10
		522.57	LT. 43+73.3	52.6	10
		522.41	LT. 43+64.1	48.7	10
		522.25	LT. 43+54.7	45.3	10
		522.09	LT. 43+45.1	42.4	10
		521.93	LT. 43+35.5	39.9	10
		521.77	LT. 43+25.6	38.0	10
		521.61	LT. 43+15.8	36.6	10
		521.46	LT. 43+05.8	35.5	10
		521.28	LT. 42+95.8	35.1	10
		521.19	LT. 42+91.3	35.0	10

STATIONING ALONG RAMP D	OFFSET TO E.P. FEET	EDGE OF PAV'T. ELEV. FEET	STATIONING ALONG VETERAN'S DRIVE	OFFSET TO E.P. FEET	DISTANCE ALONG RADIUS FEET
LT. 616+98.7	16.0	523.47			10
LT. 617+08.6	16.6	523.67			10
LT. 617+18.5	18.3	523.88			10
LT. 617+28.1	21.1	524.09	LT. 44+48.5	51.6	10
LT. 617+37.3	24.9	524.30	LT. 44+52.0	42.2	10
		524.47	LT. 44+55.5	35.0	10

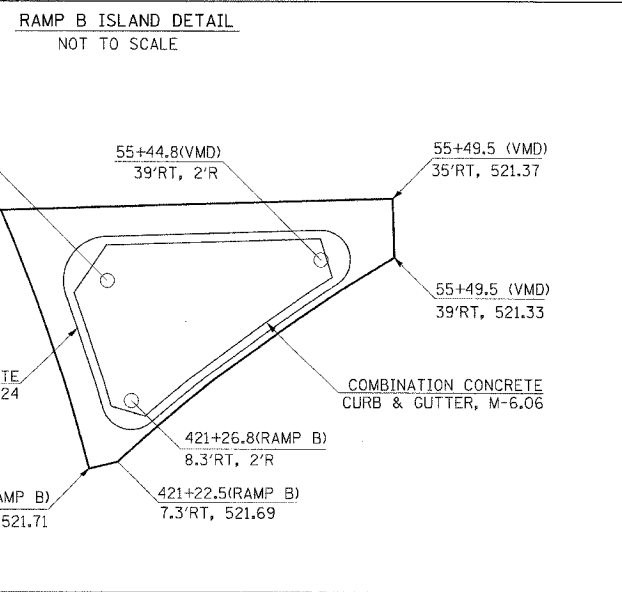
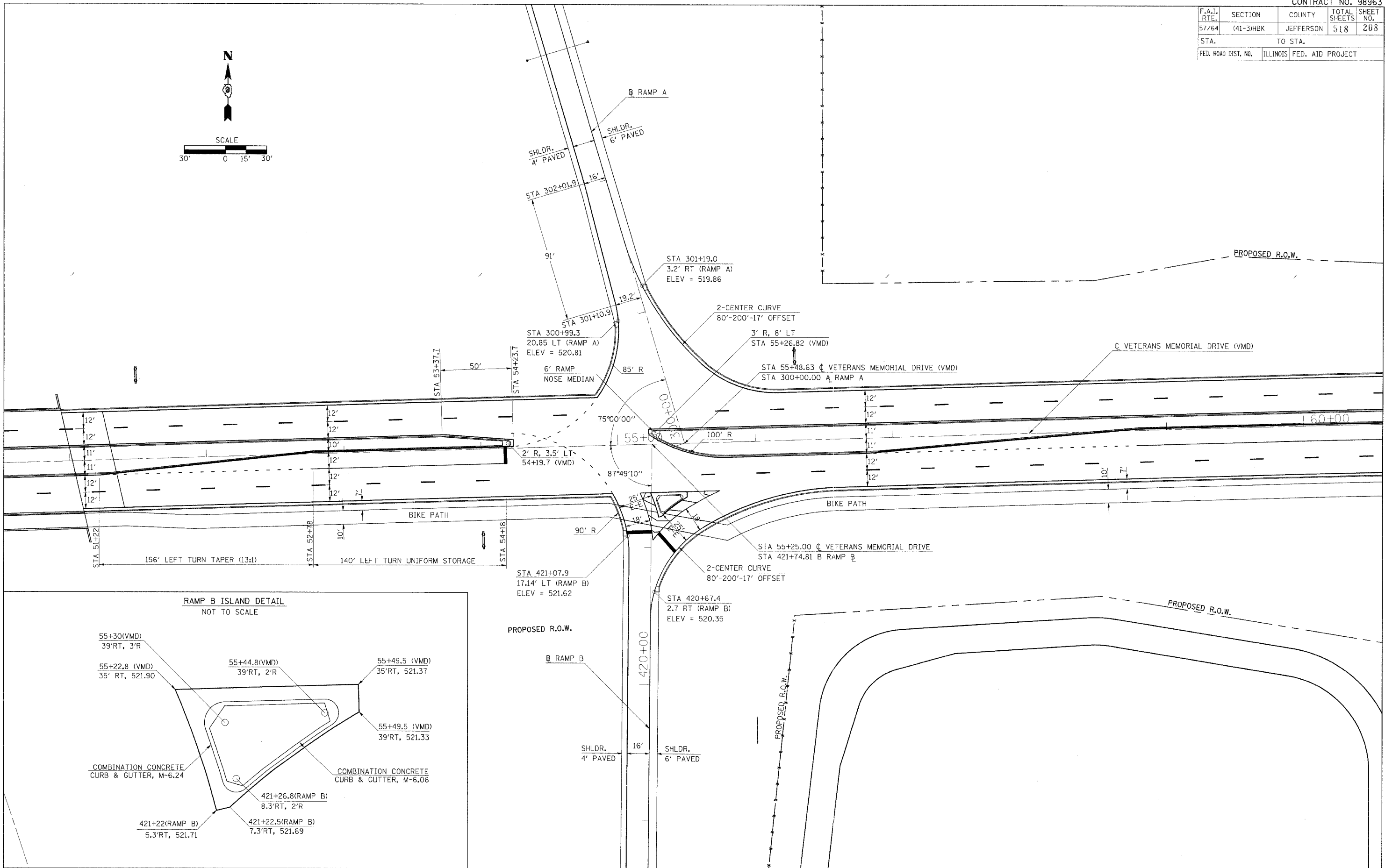
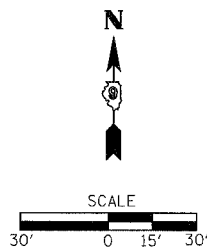


STATIONING ALONG VETERAN'S DRIVE	OFFSET TO E.P. FEET	EDGE OF PAV'T. ELEV. FEET	STATIONING ALONG RAMP C	OFFSET TO E.P. FEET	DISTANCE ALONG RADIUS FEET
RT. 43+32.5	35.0	522.01			10
RT. 43+42.4	35.6	522.18			10
RT. 43+52.3	37.5	522.34			10
RT. 43+61.8	40.6	522.50			10
RT. 43+70.8	44.8	522.66			10
RT. 43+79.3	50.1	522.82	RT. 500+42.5	35.0	10
RT. 44+87.0	56.5	522.98	RT. 500+50.6	29.2	10
RT. 43+94.1	63.5	522.84	RT. 500+59.3	24.2	10
		522.70	RT. 500+68.2	19.6	10
		522.56	RT. 500+77.3	15.5	10
		522.42	RT. 500+86.6	11.9	10
		522.28	RT. 500+96.1	8.8	10
		522.10	RT. 501+05.8	6.1	10
		521.92	RT. 501+15.5	3.1	10
		521.74	RT. 501+25.4	2.2	10
		521.56	RT. 501+35.3	0.9	10
		521.41	RT. 501+45.3	0.2	10
		521.22	RT. 501+54.6	0.0	10

STATIONING ALONG VETERAN'S DRIVE	OFFSET TO E.P. FEET	EDGE OF PAV'T. ELEV. FEET	STATIONING ALONG RAMP C	OFFSET TO E.P. FEET	DISTANCE ALONG RADIUS FEET
RT. 44+64.8	35.0	524.66			10
RT. 44+59.3	43.3	524.35	LT. 500+55.9	44.0	10
RT. 44+54.8	52.3	524.05	LT. 500+63.5	37.4	10
		523.74	LT. 500+71.9	31.6	10
		523.44	LT. 500+80.9	27.1	10
		523.13	LT. 500+90.3	23.2	10
		522.83	LT. 501+00.00	20.7	10
		522.51	LT. 501+10.00	19.3	10
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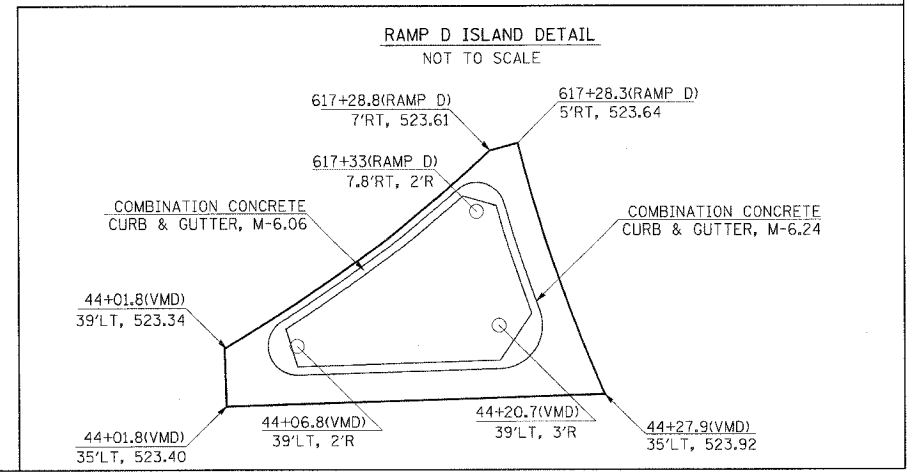
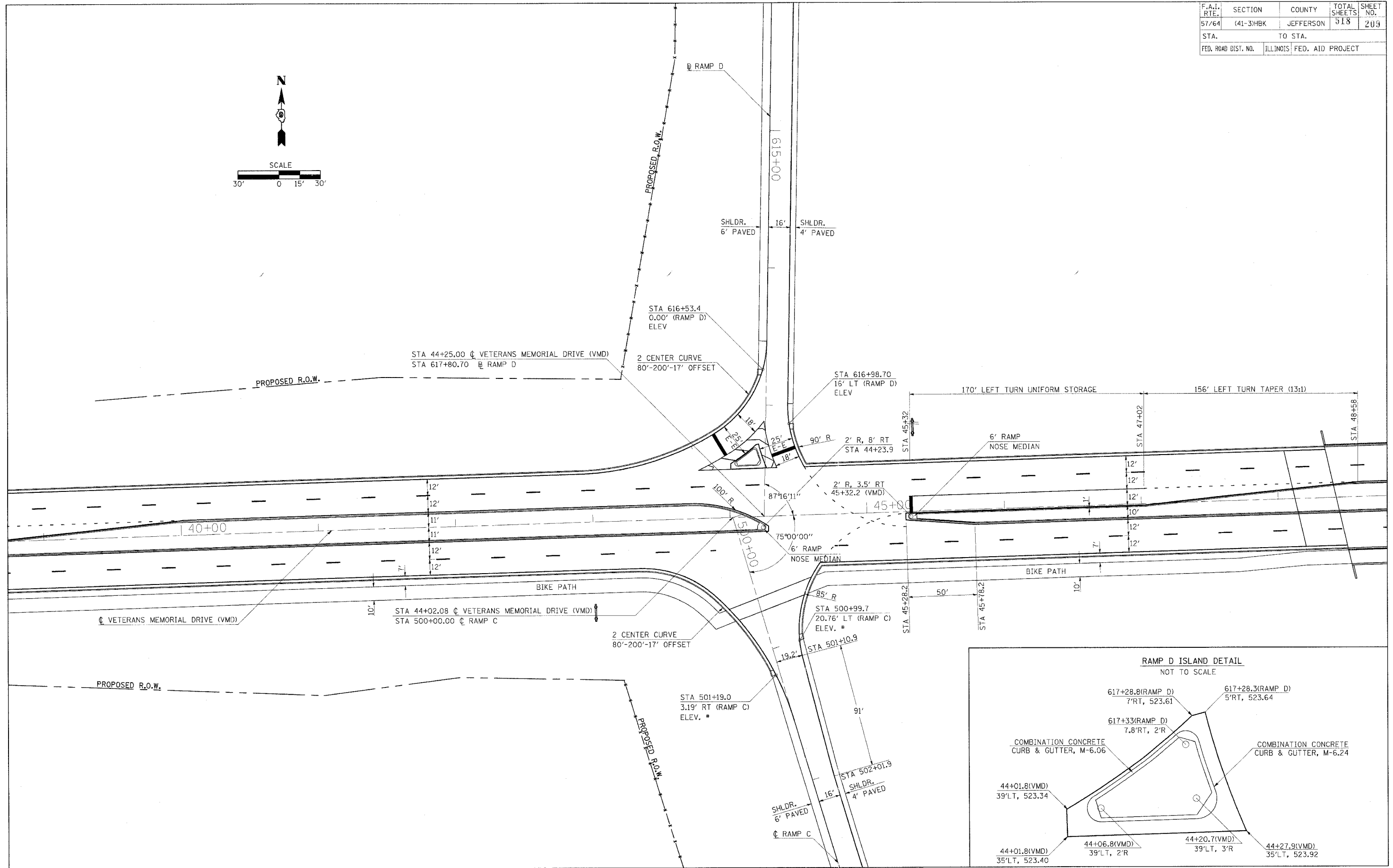
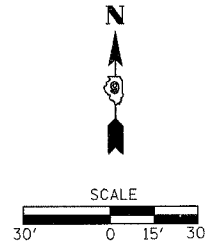
F.A.T. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	518	208
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	318	209
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

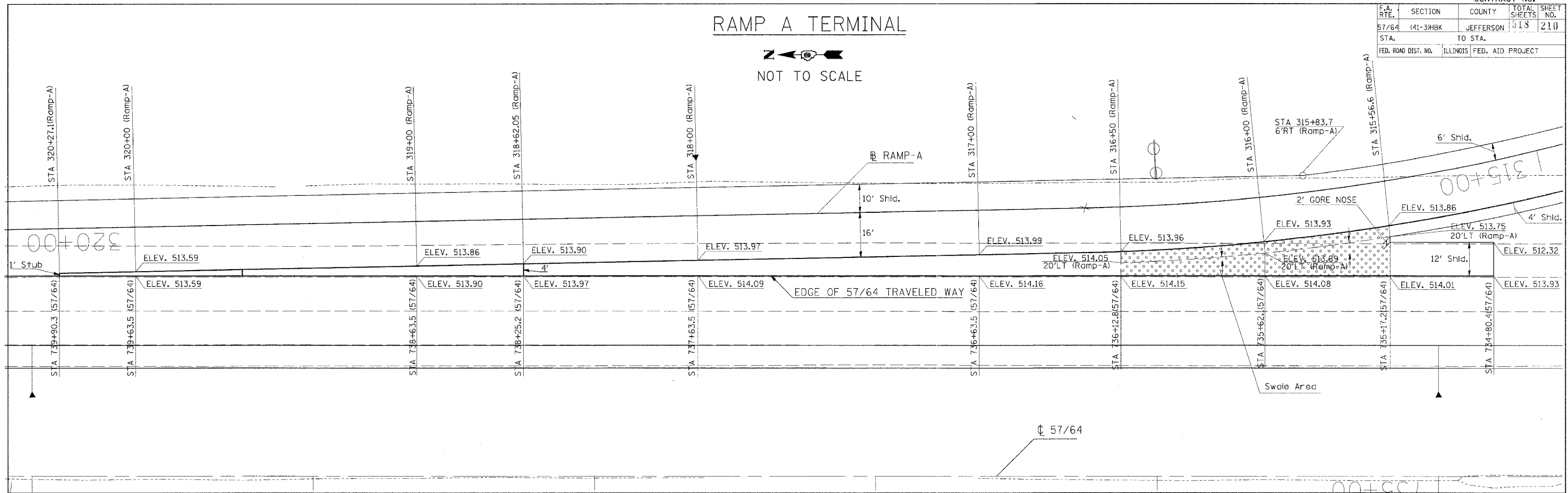


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CONTRACT NO.					
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
57/64	(41-3)HBK	JEFFERSON	618	210	
STA.		TO STA.			
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

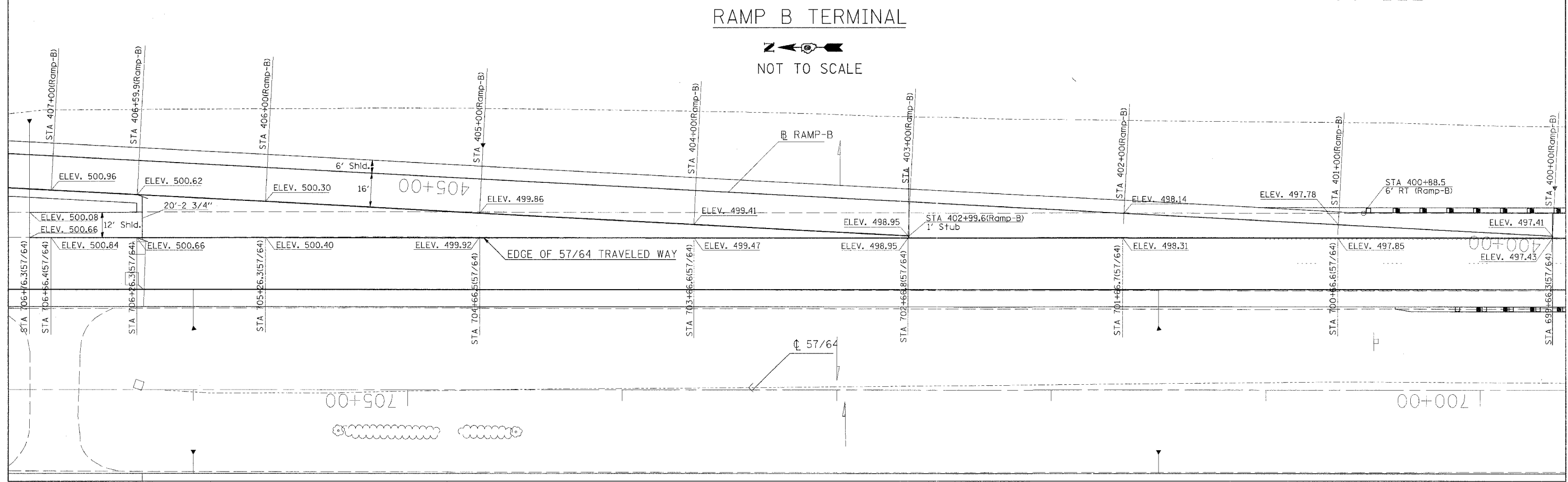
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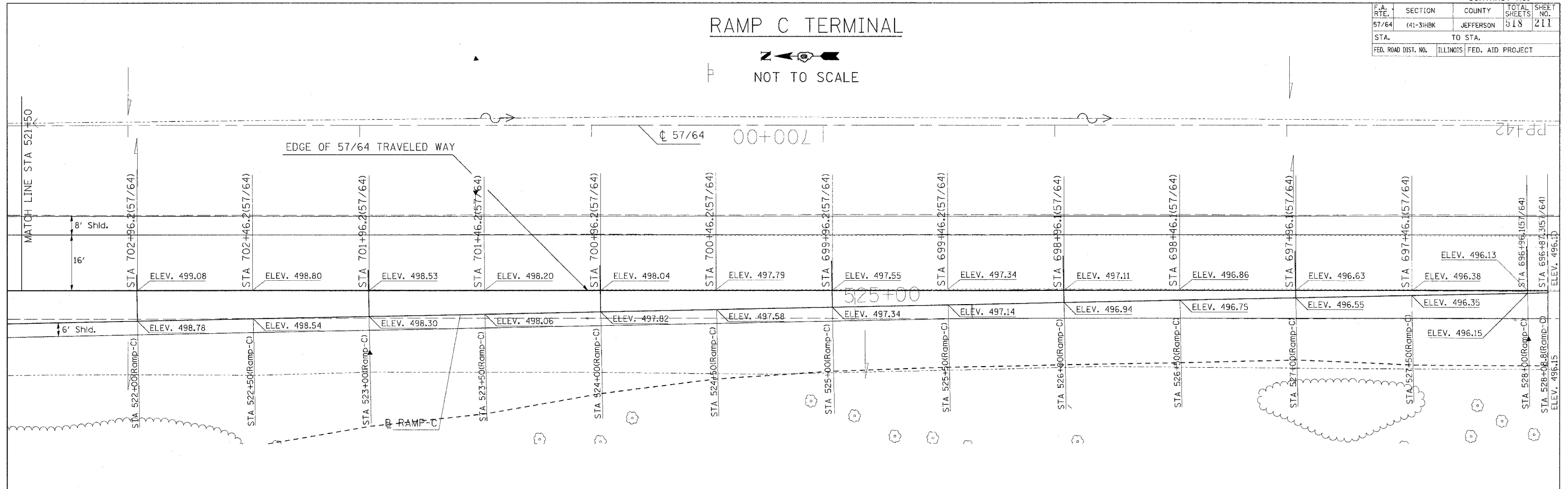


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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	518	211
STA. TO STA.		ILLINOIS FED. AID PROJECT		

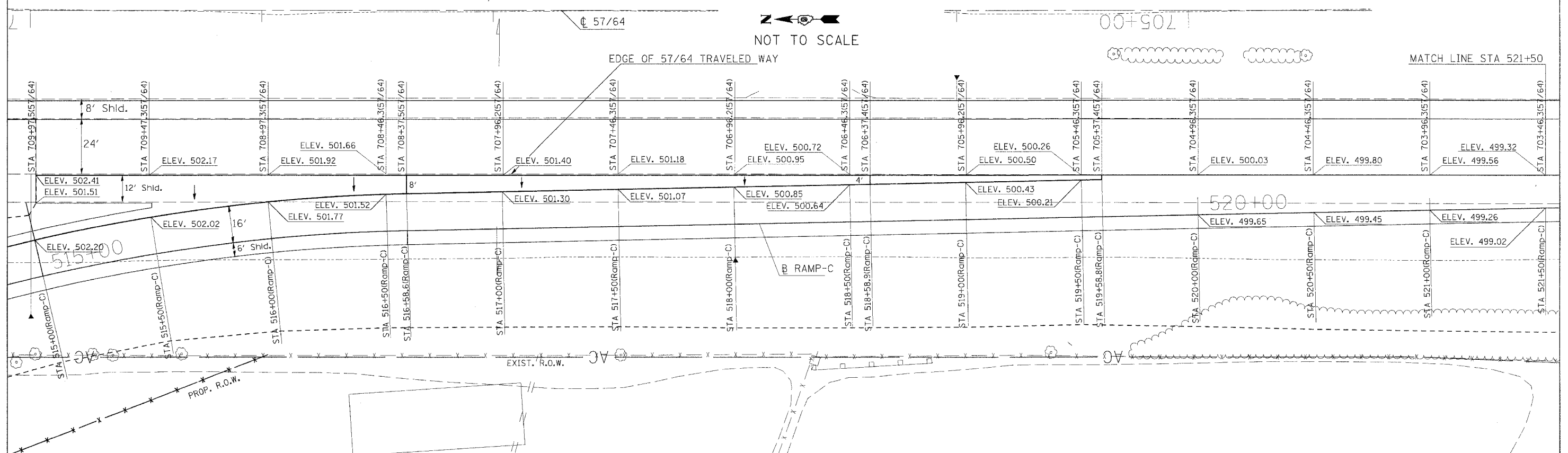
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### RAMP C TERMINAL

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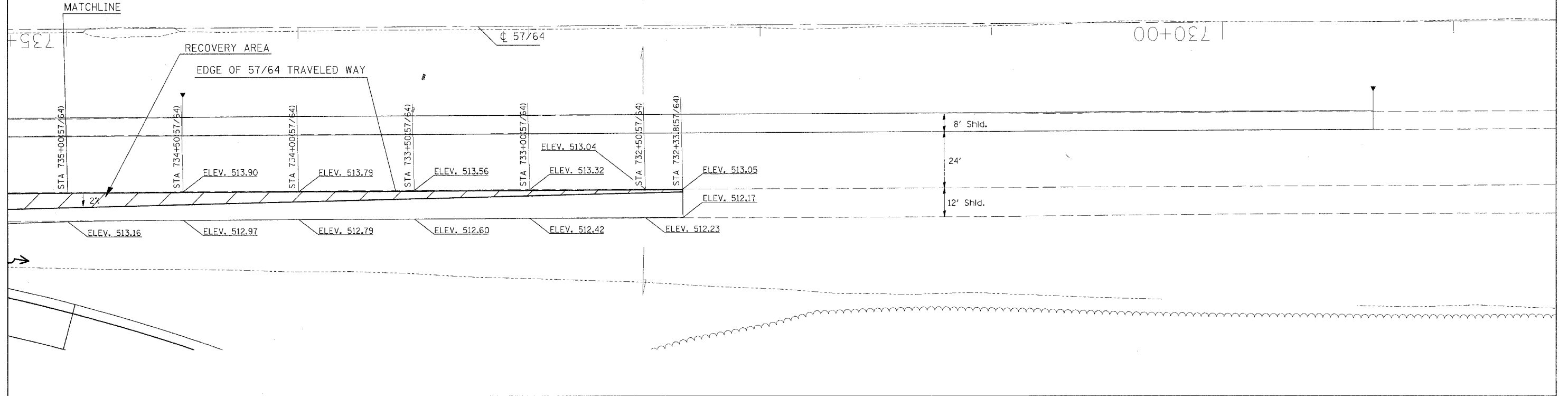


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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	518	212
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

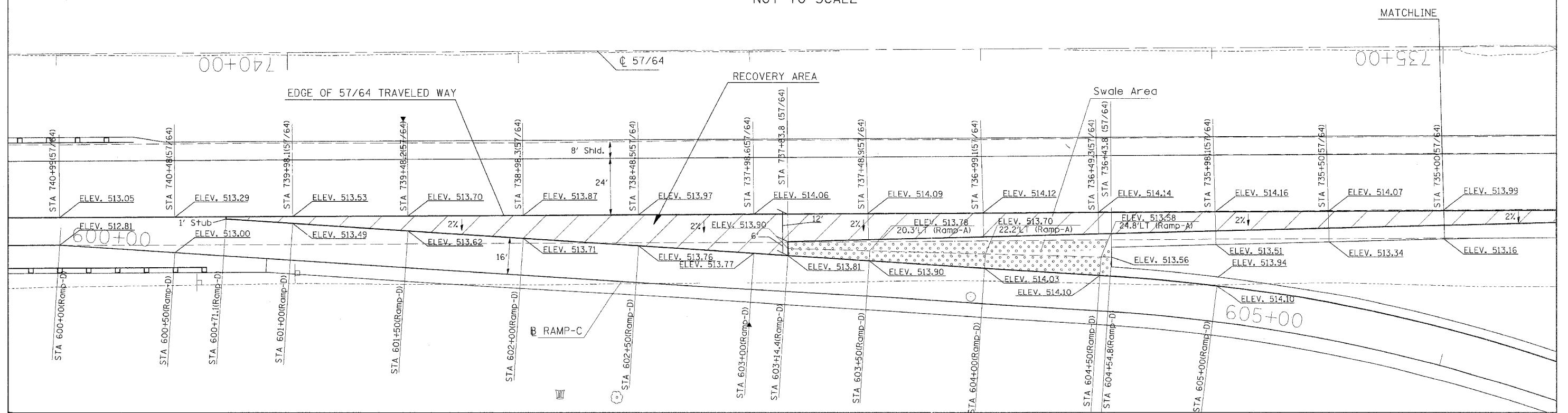
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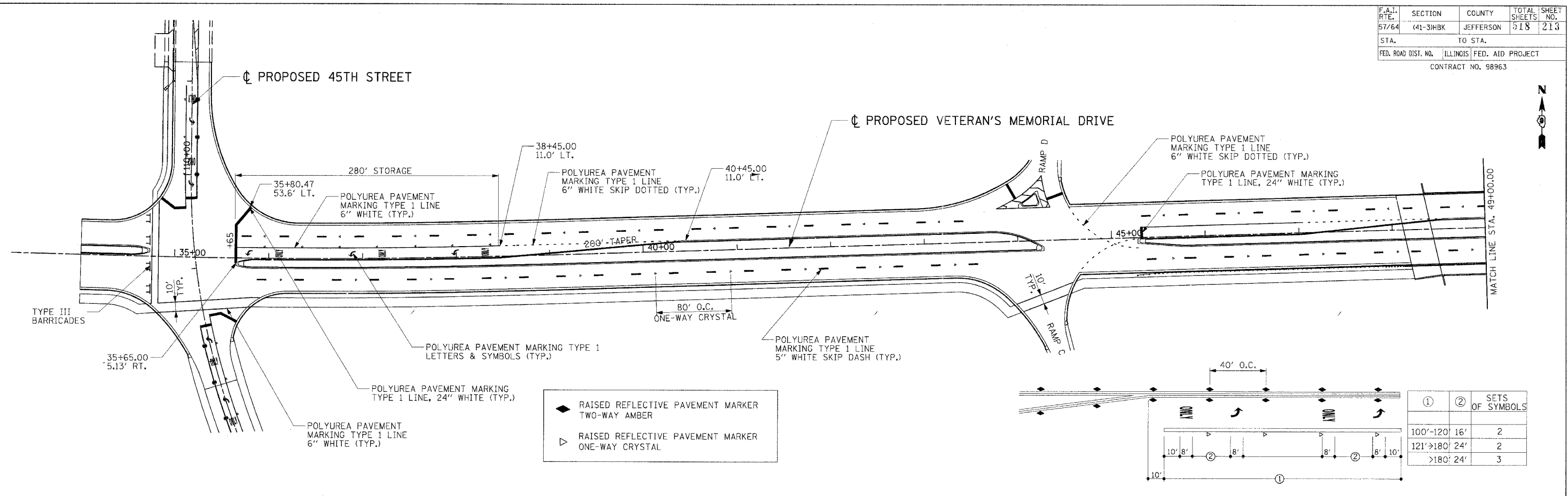
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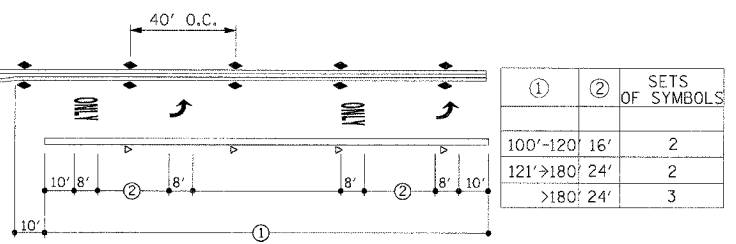


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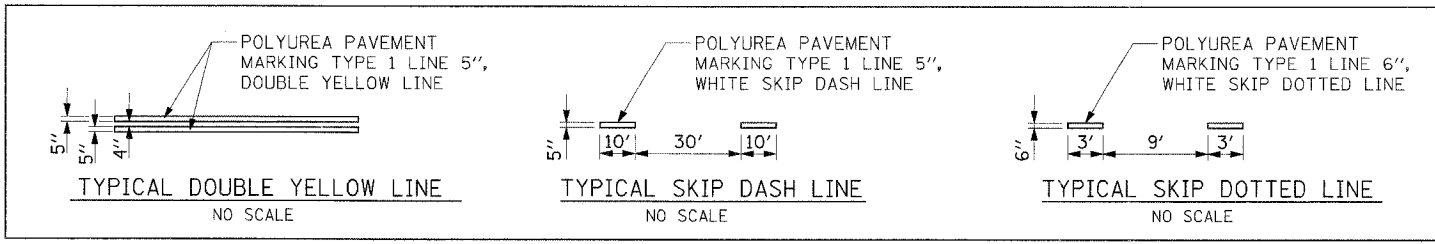
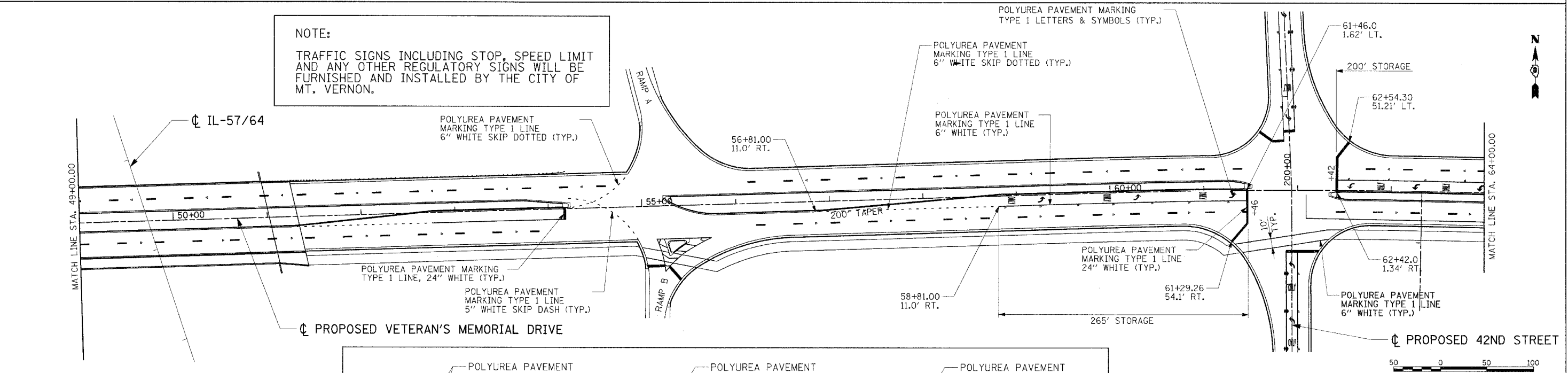
F.A.T. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	518	213
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 98963				



- ◆ RAISED REFLECTIVE PAVEMENT MARKER TWO-WAY AMBER
- ▽ RAISED REFLECTIVE PAVEMENT MARKER ONE-WAY CRYSTAL



**NOTE:**  
TRAFFIC SIGNS INCLUDING STOP, SPEED LIMIT AND ANY OTHER REGULATORY SIGNS WILL BE FURNISHED AND INSTALLED BY THE CITY OF MT. VERNON.



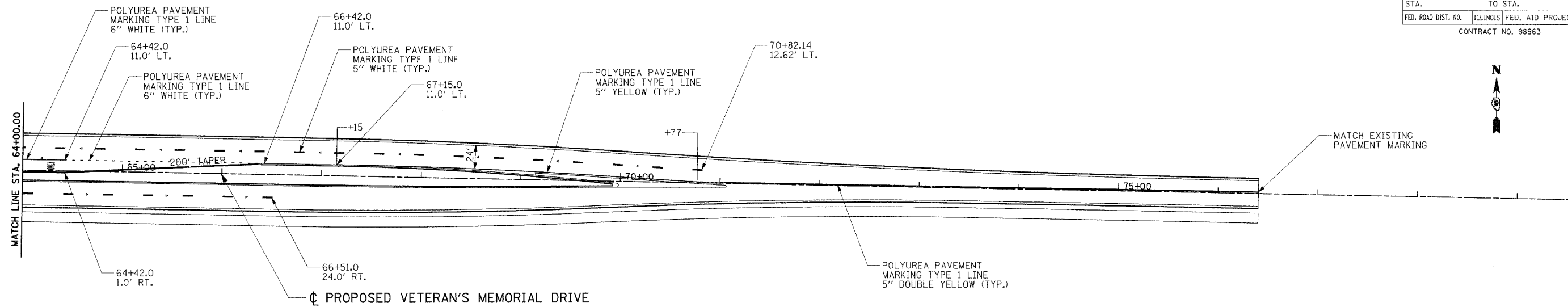
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
PAVEMENT MARKING PLAN  
STA. 34+00.00 TO 64+00.00  
VETERANS MEMORIAL DRIVE  
INTERCHANGE  
SECTION (41-3)HBK  
SCALE: 1"=50'  
DATE 3-22-07  
DRAWN BY RLT  
CHECKED BY MTW

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**HANSON**  
 Hanson Professional Services Inc.

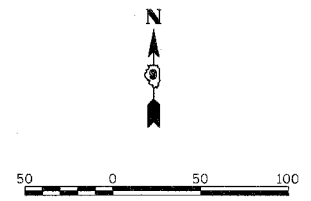
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 DRAWN: RLT 04/12/04  
 REVIEWED: MTW 03/22/07

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	518	214
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 98963				



VETERAN'S MEMORIAL DRIVE

- ◆ RAISED REFLECTIVE PAVEMENT MARKER TWO-WAY AMBER
- ▷ RAISED REFLECTIVE PAVEMENT MARKER ONE-WAY CRYSTAL



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
PAVEMENT MARKING PLAN  
STA. 64+00.00 TO STA. 70+82.14  
VETERANS MEMORIAL DRIVE  
INTERCHANGE  
SECTION (41-3)HBK  
SCALE: 1"=50'  
DATE 3-22-07

DRAWN BY RLJ  
CHECKED BY MTM

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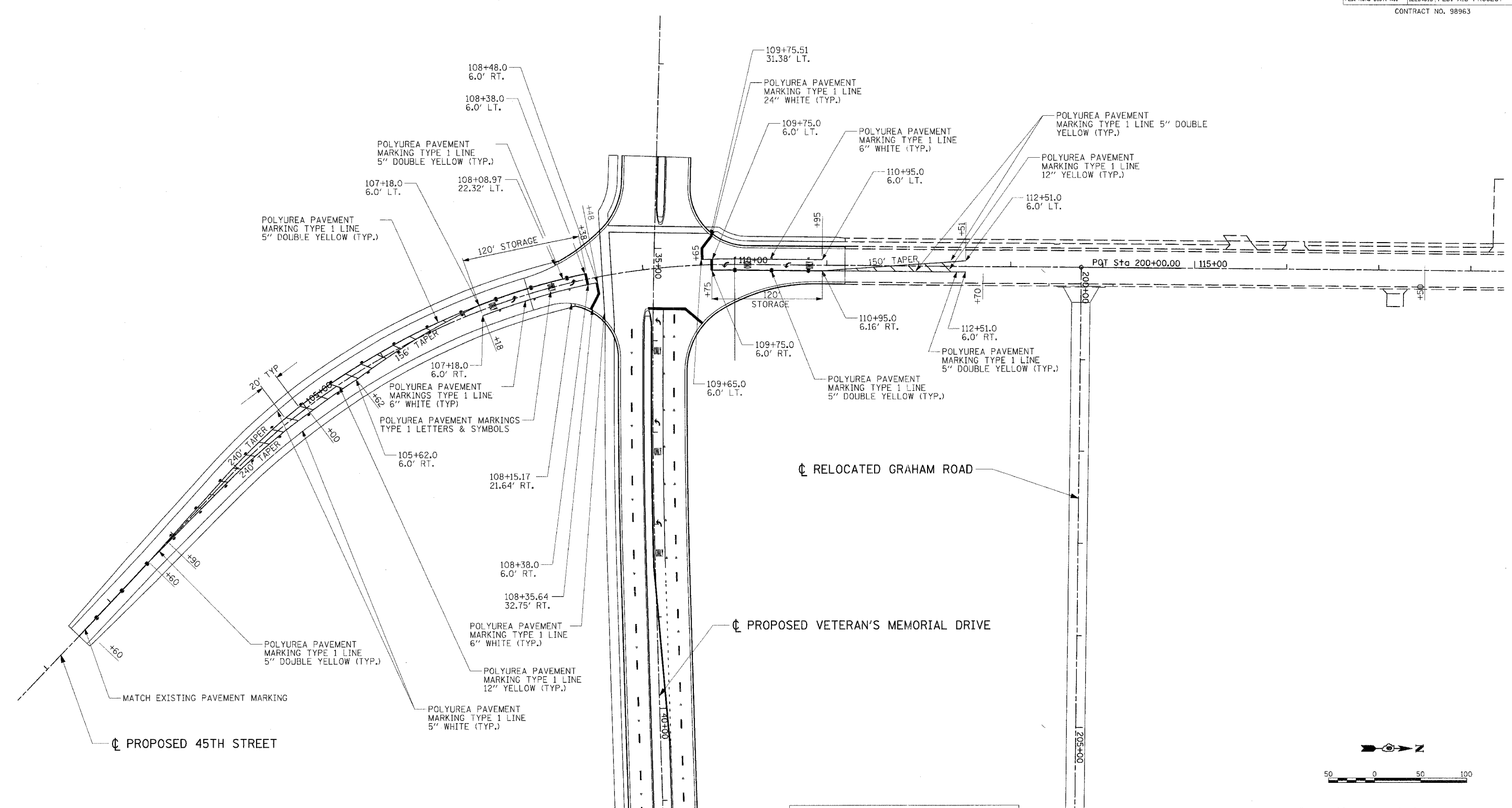
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DRAWN	JED	04/12/04
REVIEWED	MTM	03/22/07

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	518	215
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 98963				

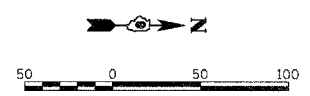
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LAYOUT	RLT	02/26/04
DRAWN	JED	04/12/04
REVIEWED	MTM	03/22/07



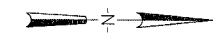
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- ▽ RAISED REFLECTIVE PAVEMENT MARKER ONE-WAY CRYSTAL



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 PAVEMENT MARKING PLAN  
 PROPOSED 45TH STREET  
 STA. 101+60.00 TO STA. 112+70.00  
 VETERANS MEMORIAL DRIVE  
 INTERCHANGE  
 SECTION (41-3)HBK  
 SCALE: 1"=50'  
 DATE 3-22-07  
 DRAWN BY RLT  
 CHECKED BY MTM

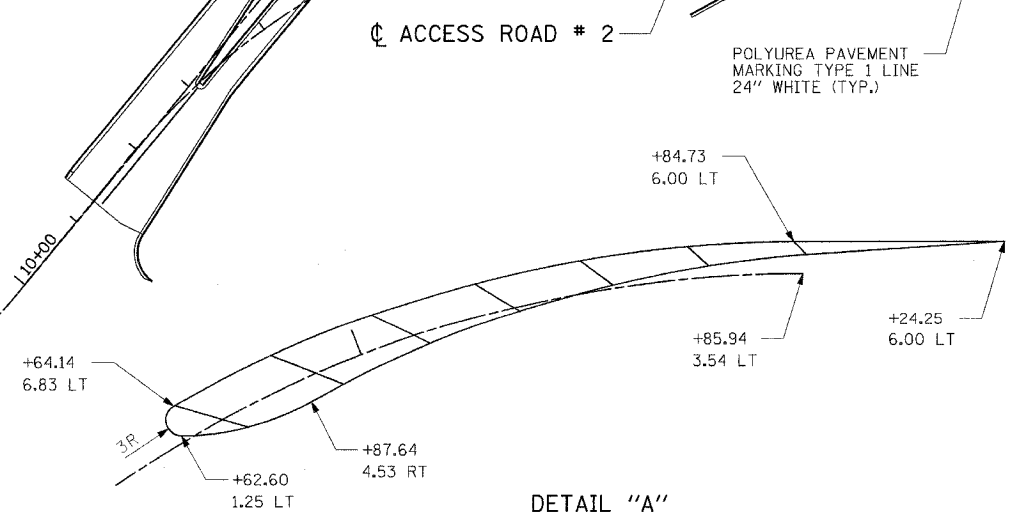
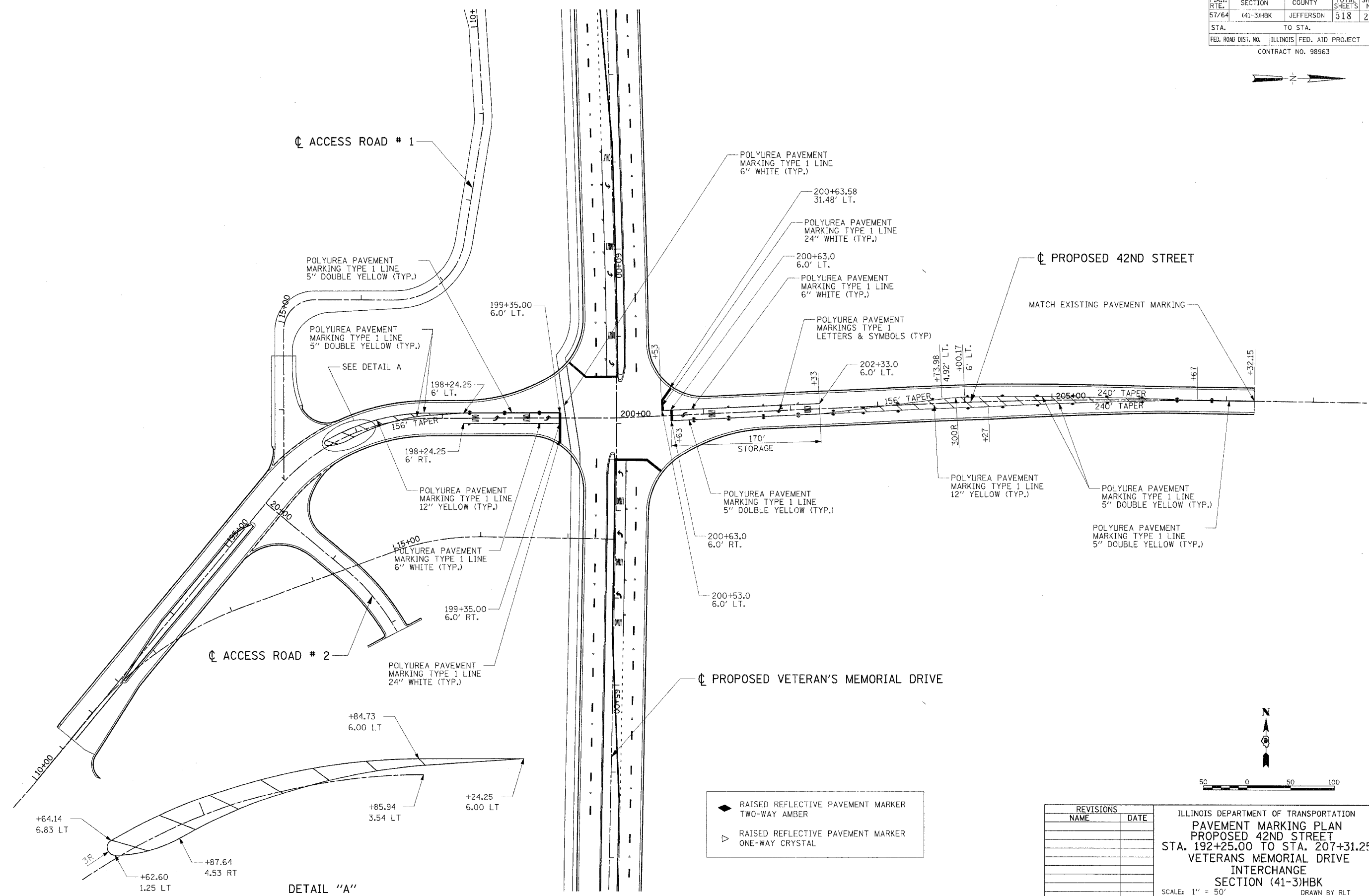
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57/64	(41-3)HBK	JEFFERSON	518	216
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 98963				



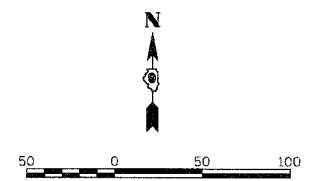
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DRAWN	LEO	04/12/04
REVIEWED	MTM	03/22/07



- ◆ RAISED REFLECTIVE PAVEMENT MARKER TWO-WAY AMBER
- ▽ RAISED REFLECTIVE PAVEMENT MARKER ONE-WAY CRYSTAL



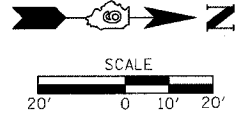
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PAVEMENT MARKING PLAN**  
**PROPOSED 42ND STREET**  
**STA. 192+25.00 TO STA. 207+31.25**  
**VETERANS MEMORIAL DRIVE**  
**INTERCHANGE**  
**SECTION (41-3)HBK**  
 SCALE: 1" = 50'  
 DATE 3-22-07  
 DRAWN BY RLT  
 CHECKED BY MTM

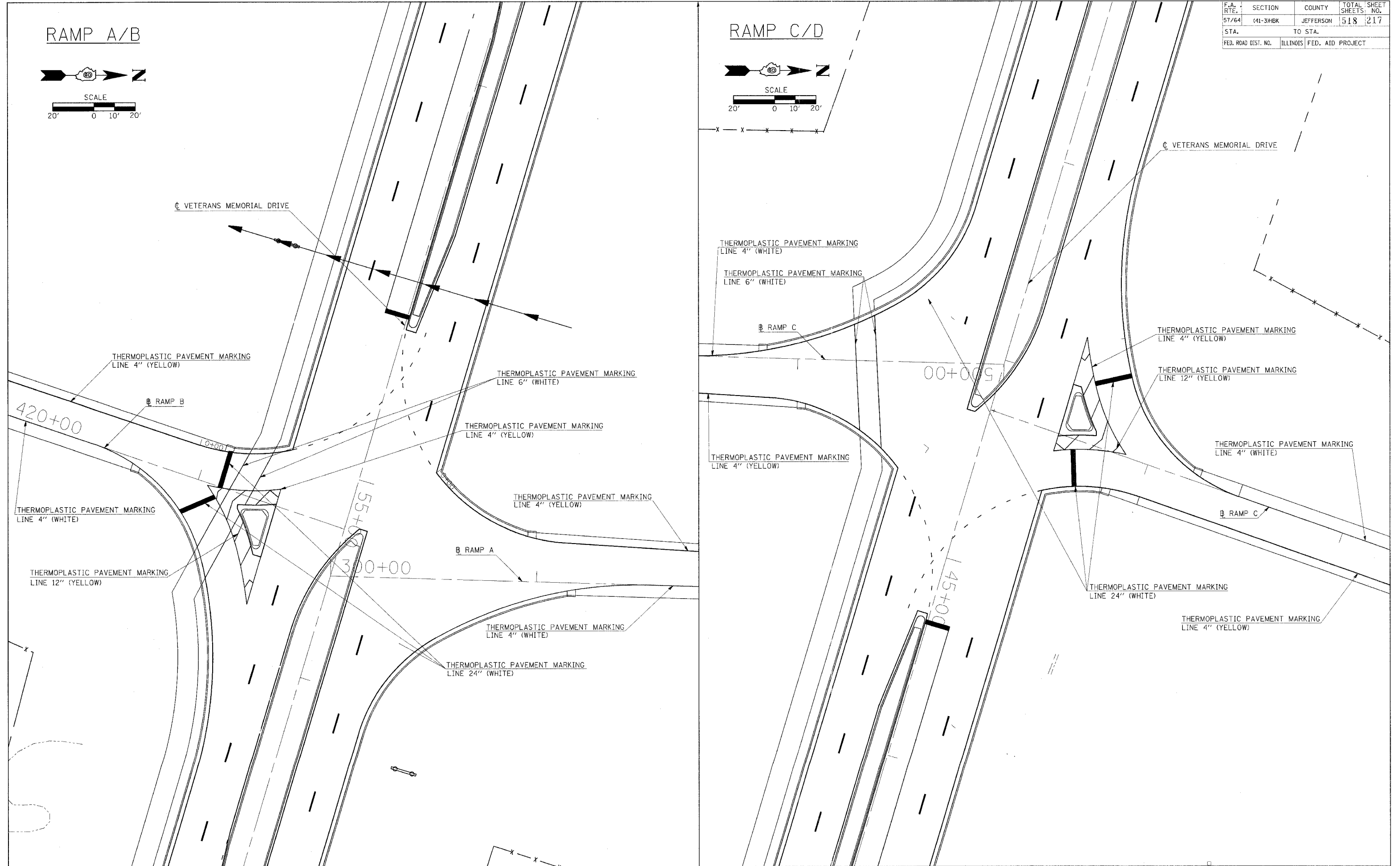
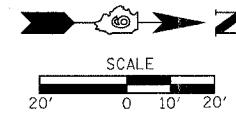


F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	518	217
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

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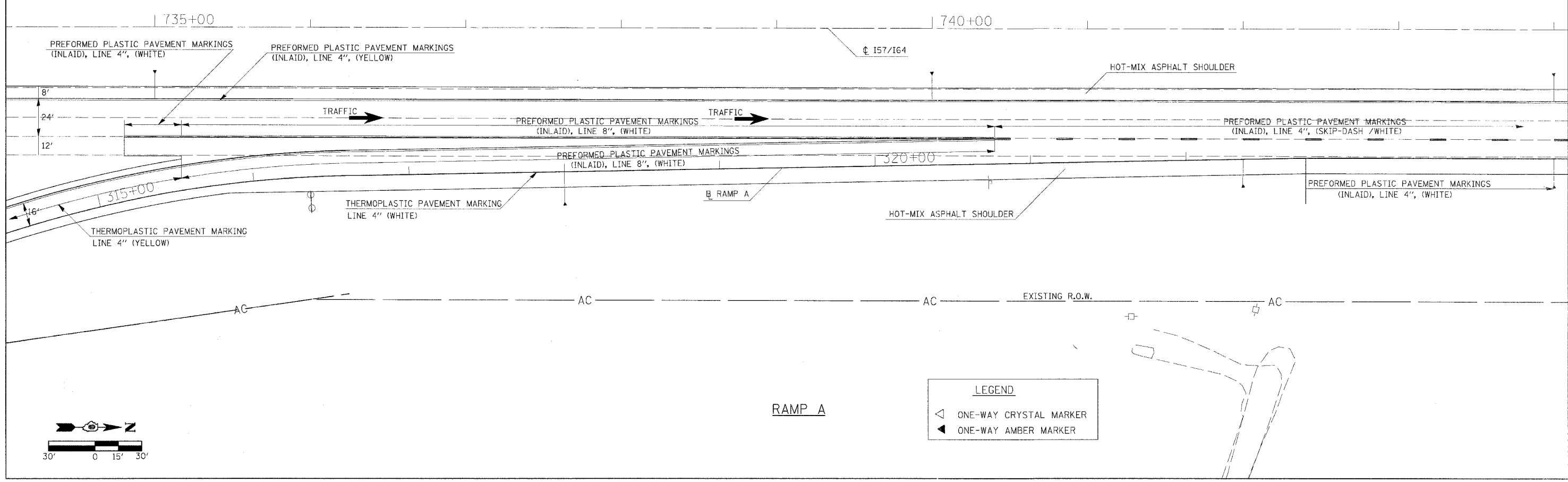
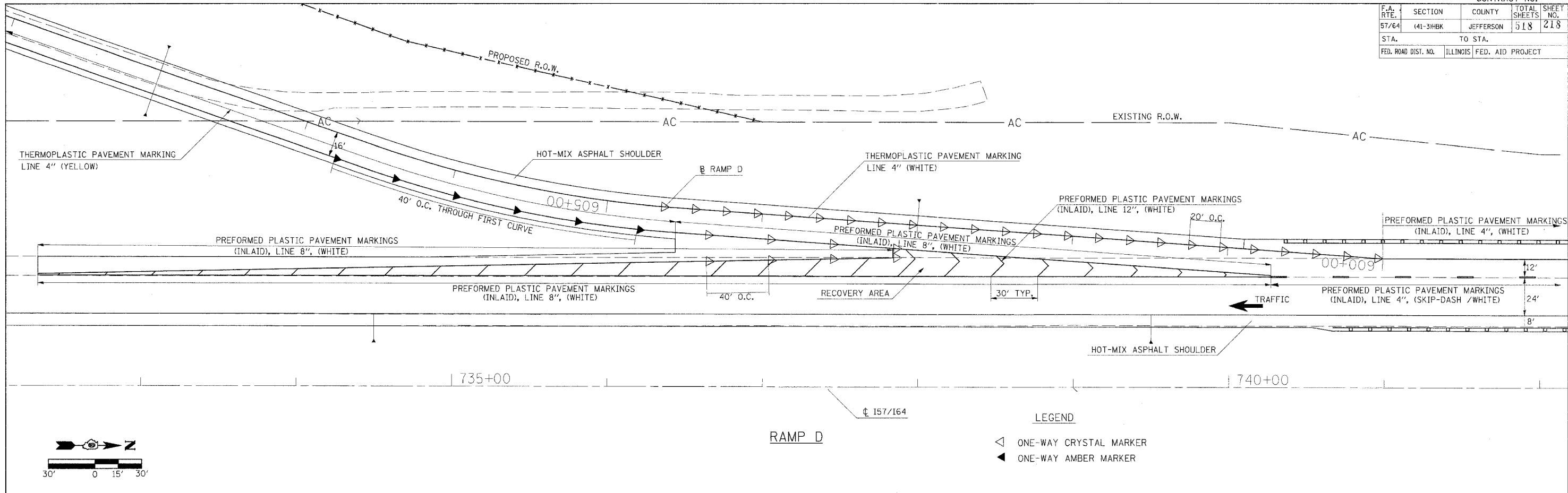


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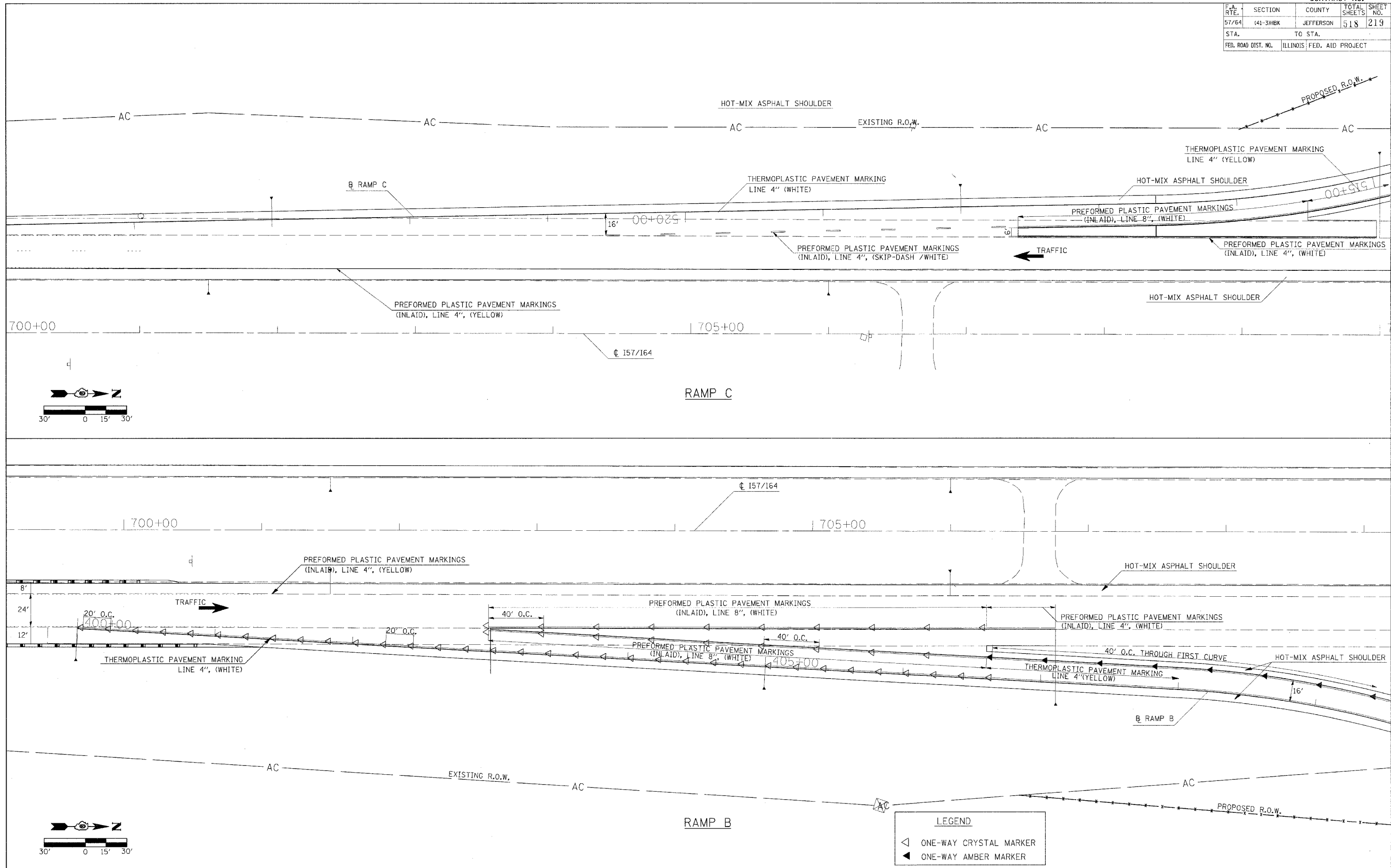
CONTRACT NO.				
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57/64	141-3H8K	JEFFERSON	518	218
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



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PAVEMENT MARKINGS-RAMP A/D

CONTRACT NO.				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	518	219
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



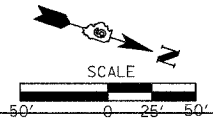
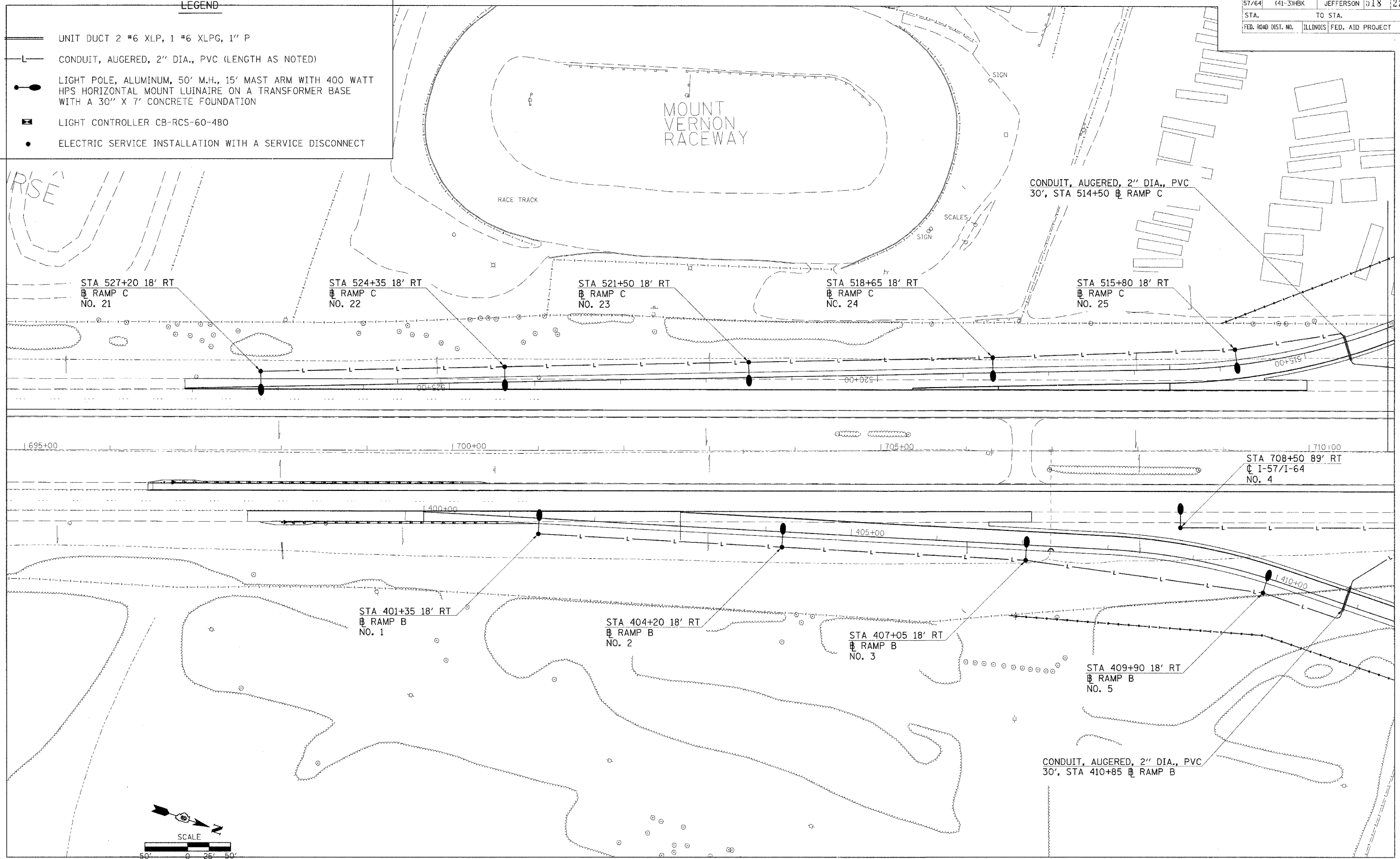
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PAVEMENT MARKINGS-RAMP B/C

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	518	220
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

LEGEND

- UNIT DUCT 2 #6 XLP, 1 #6 XLPG, 1" P
- CONDUIT, AUGERED, 2" DIA., PVC (LENGTH AS NOTED)
- LIGHT POLE, ALUMINUM, 50' M.H., 15' MAST ARM WITH 400 WATT HPS HORIZONTAL MOUNT LUMINAIRE ON A TRANSFORMER BASE WITH A 30" X 7' CONCRETE FOUNDATION
- LIGHT CONTROLLER CB-RCS-60-480
- ELECTRIC SERVICE INSTALLATION WITH A SERVICE DISCONNECT

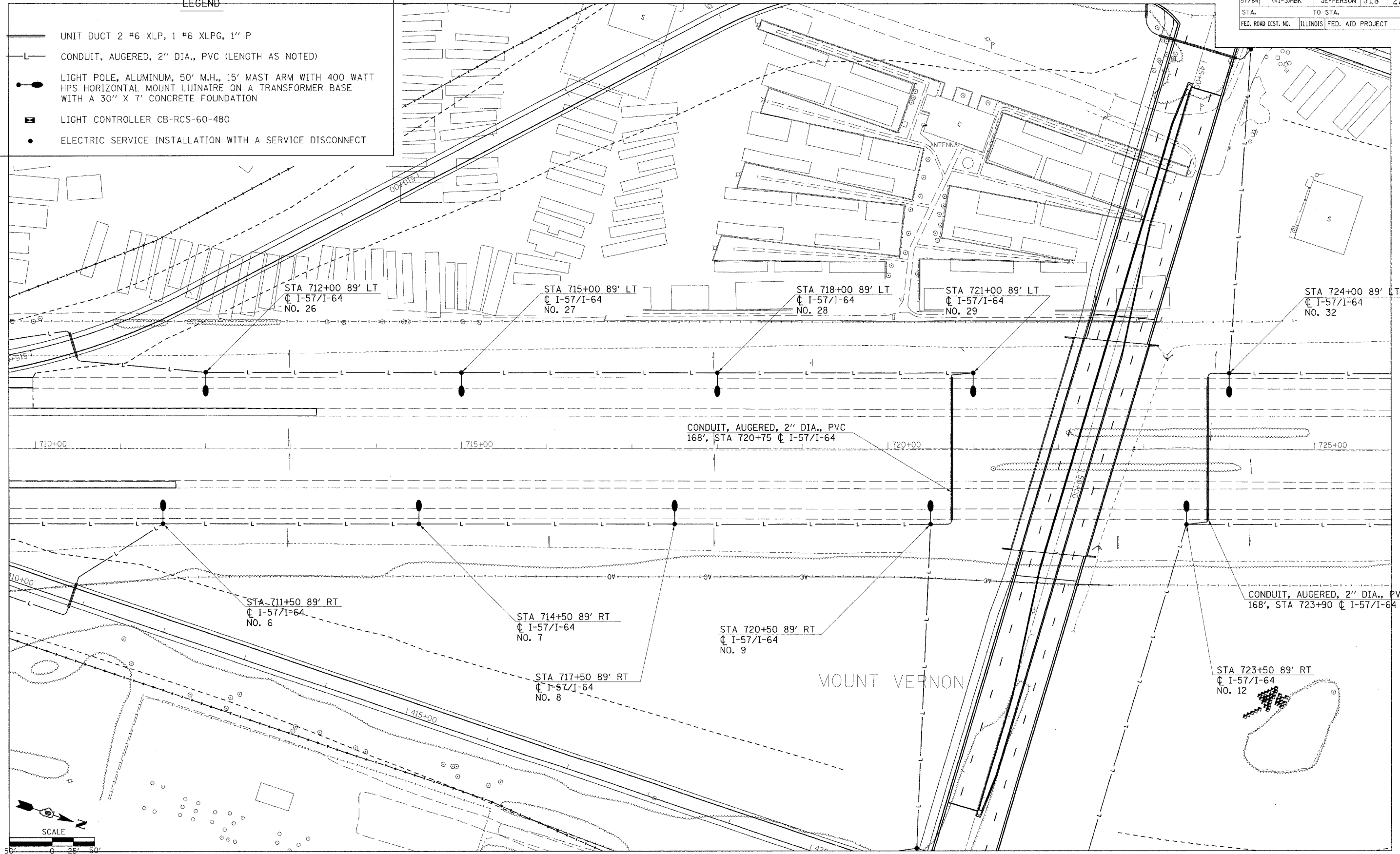


02/21/2007, 09:05 AM  
 Project: 98963 - RAMP B  
 50,0000 / 7' RAMP B  
 02/21/2007, 09:05 AM

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HEK	JEFFERSON	518	221
STA. TO STA.		ILLINOIS FED. AID PROJECT		

LEGEND

- UNIT DUCT 2 #6 XLP, 1 #6 XLPG, 1" P
- L— CONDUIT, AUGERED, 2" DIA., PVC (LENGTH AS NOTED)
- LIGHT POLE, ALUMINUM, 50' M.H., 15' MAST ARM WITH 400 WATT HPS HORIZONTAL MOUNT LUMINAIRE ON A TRANSFORMER BASE WITH A 30" X 7' CONCRETE FOUNDATION
- ⊠ LIGHT CONTROLLER CB-RCS-60-480
- ELECTRIC SERVICE INSTALLATION WITH A SERVICE DISCONNECT

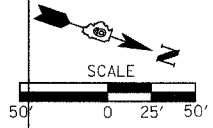
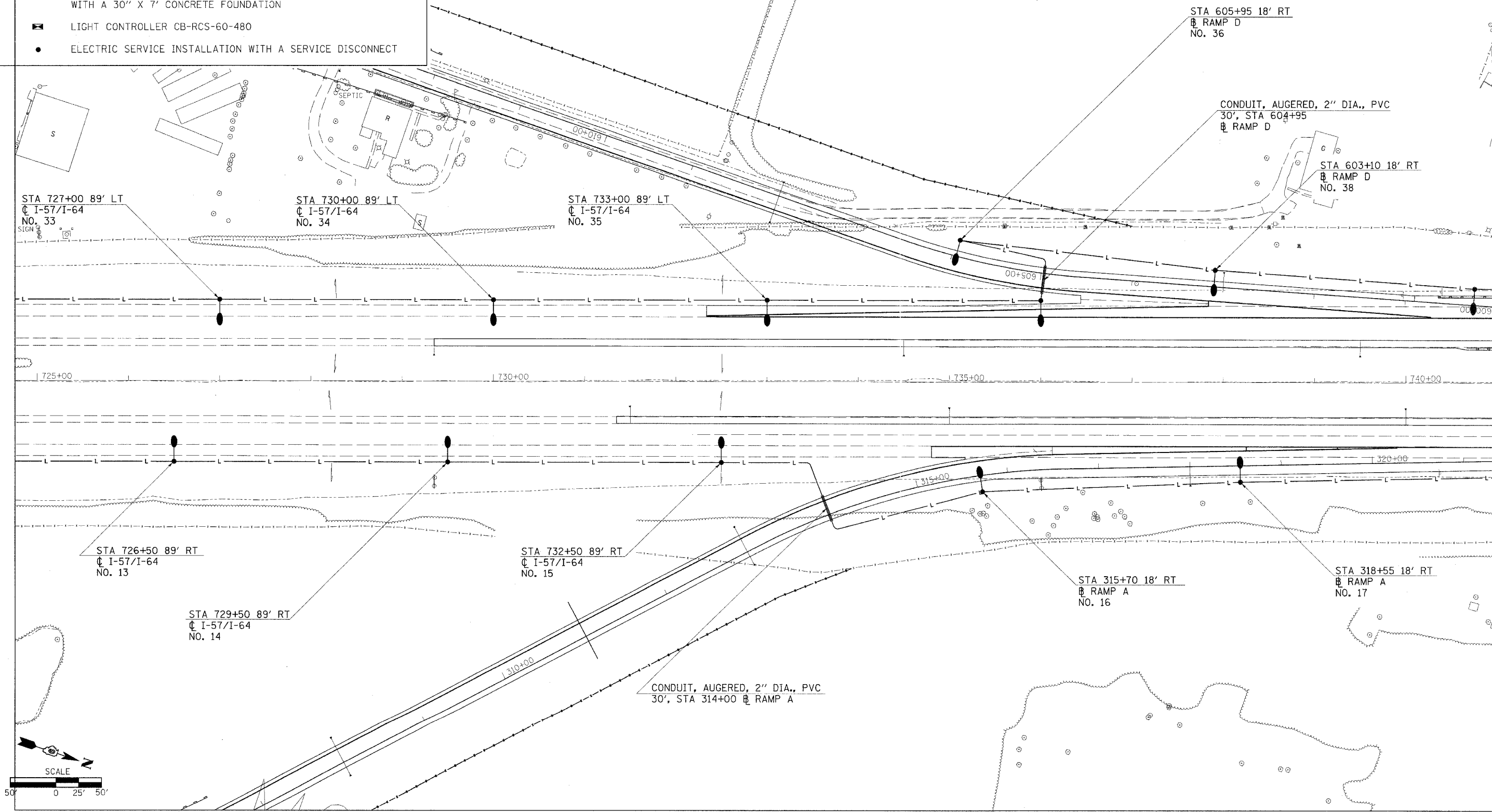


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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	518	222
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

LEGEND

- UNIT DUCT 2 #6 XLP, 1 #6 XLPG, 1" P
- CONDUIT, AUGERED, 2" DIA., PVC (LENGTH AS NOTED)
- LIGHT POLE, ALUMINUM, 50' M.H., 15' MAST ARM WITH 400 WATT HPS HORIZONTAL MOUNT LUMINAIRE ON A TRANSFORMER BASE WITH A 30" X 7' CONCRETE FOUNDATION
- LIGHT CONTROLLER CB-RCS-60-480
- ELECTRIC SERVICE INSTALLATION WITH A SERVICE DISCONNECT

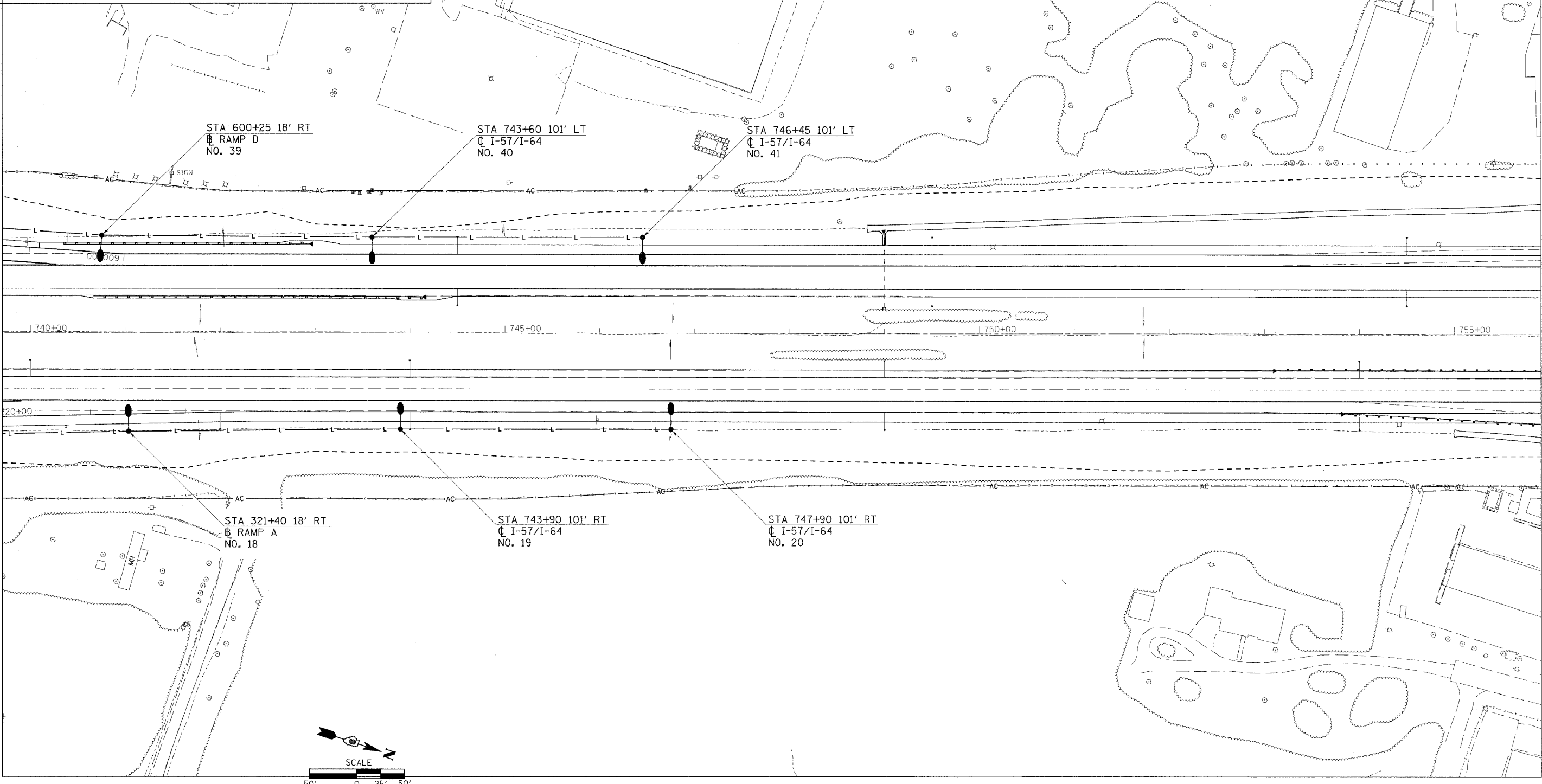


02/21/2007 8:00 AM  
 52,000' / IN.  
 52,000' / IN.  
 KET

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HDK	JEFFERSON	518	223
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

**LEGEND**

- UNIT DUCT 2 #6 XLP, 1 #6 XLPG, 1" P
- L— CONDUIT, AUGERED, 2" DIA., PVC (LENGTH AS NOTED)
- LIGHT POLE, ALUMINUM, 50' M.H., 15' MAST ARM WITH 400 WATT HPS HORIZONTAL MOUNT LUNAIRE ON A TRANSFORMER BASE WITH A 30" X 7' CONCRETE FOUNDATION
- Ⓜ LIGHT CONTROLLER CB-RCS-60-480
- ELECTRIC SERVICE INSTALLATION WITH A SERVICE DISCONNECT

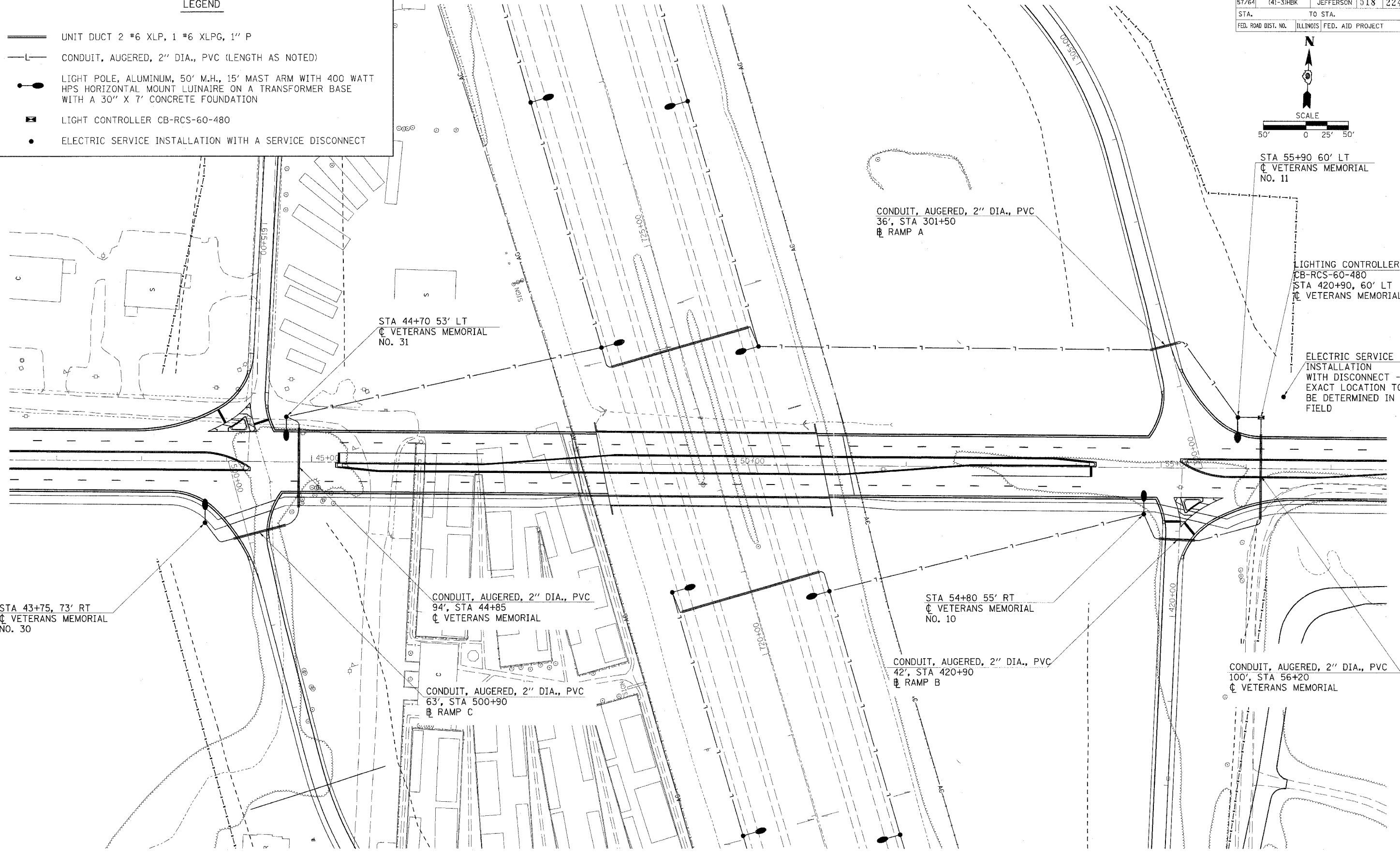
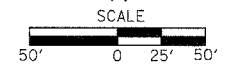


03/21/2007 9:46:05 AM  
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	518	224
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

LEGEND

- UNIT DUCT 2 #6 XLP, 1 #6 XLPG, 1" P
- L — CONDUIT, AUGERED, 2" DIA., PVC (LENGTH AS NOTED)
- LIGHT POLE, ALUMINUM, 50' M.H., 15' MAST ARM WITH 400 WATT HPS HORIZONTAL MOUNT LUMINAIRE ON A TRANSFORMER BASE WITH A 30" X 7' CONCRETE FOUNDATION
- ⊠ LIGHT CONTROLLER CB-RCS-60-480
- ELECTRIC SERVICE INSTALLATION WITH A SERVICE DISCONNECT



STA 43+75, 73' RT  
⊠ VETERANS MEMORIAL NO. 30

STA 44+70 53' LT  
⊠ VETERANS MEMORIAL NO. 31

CONDUIT, AUGERED, 2" DIA., PVC  
94', STA 44+85  
⊠ VETERANS MEMORIAL

CONDUIT, AUGERED, 2" DIA., PVC  
63', STA 500+90  
⊠ RAMP C

CONDUIT, AUGERED, 2" DIA., PVC  
36', STA 301+50  
⊠ RAMP A

STA 54+80 55' RT  
⊠ VETERANS MEMORIAL NO. 10

CONDUIT, AUGERED, 2" DIA., PVC  
42', STA 420+90  
⊠ RAMP B

STA 55+90 60' LT  
⊠ VETERANS MEMORIAL NO. 11

LIGHTING CONTROLLER  
CB-RCS-60-480  
STA 420+90, 60' LT  
⊠ VETERANS MEMORIAL

ELECTRIC SERVICE  
INSTALLATION  
WITH DISCONNECT -  
EXACT LOCATION -  
TO BE DETERMINED IN  
FIELD

CONDUIT, AUGERED, 2" DIA., PVC  
100', STA 56+20  
⊠ VETERANS MEMORIAL

03/22/2007 03:21 PM  
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5/18/2007 7:11 AM  
JMD

Rev.



F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	518	225
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

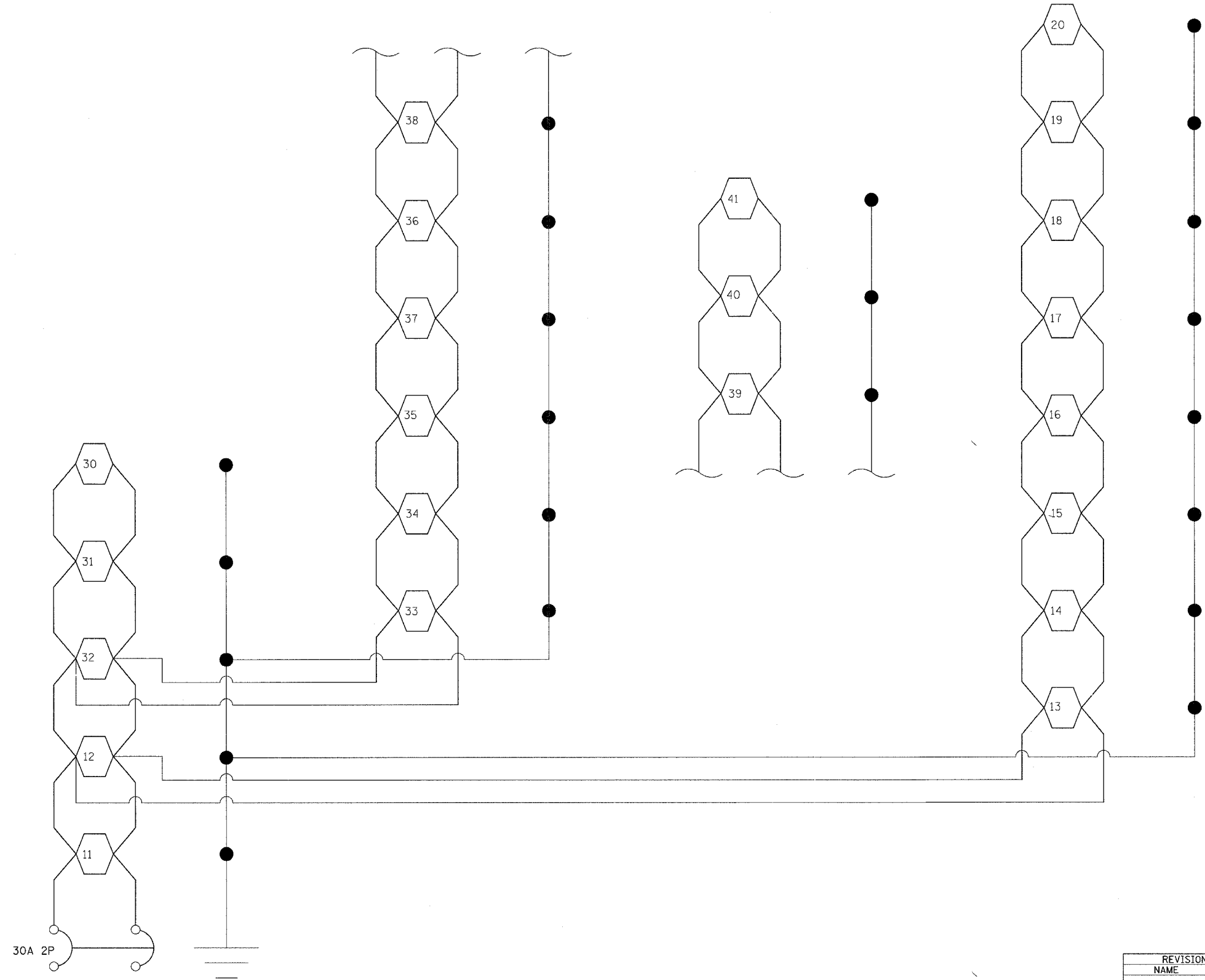
## LIGHTING BILL OF MATERIALS

PAY ITEM	DESCRIPTION	UNIT	TOTAL QUANTITIES
80400100	ELECTRIC SERVICE INSTALLATION	EACH	1
81021550	CONDUIT, AUGURED, 2" DIA., PVC	FOOT	755
81500200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	10,915
81603035	UNIT DUCT, 600V, 2-1/C NO. 6. 1/C NO. 6 GROUND, (XLP TYPE-USE) 1" DIA. POLYETHYLENE	FOOT	12,035
82102400	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT 400 WATT	EACH	41
82500540	LIGHTING CONTROLLER TYPE CB-RCS 100 AMP - 480 VOLT	EACH	1
83010600	LIGHT POLE, ALUMINUM, 50 FT. M. H. 15 FT. MAST ARM	EACH	41
83600300	LIGHT POLE FOUNDATION, 30" DIAMETER	FOOT	287
83800205	BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH	41

PLOT DATE = 6/3/21 2:00:07 PM  
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 USER NAME = jlc

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		<b>LIGHTING BILL OF MATERIALS</b>  SCALE: VERT. NONE HORIZ. DATE  DRAWN BY CHECKED BY

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	518	226
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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 USER NAME = Kct

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

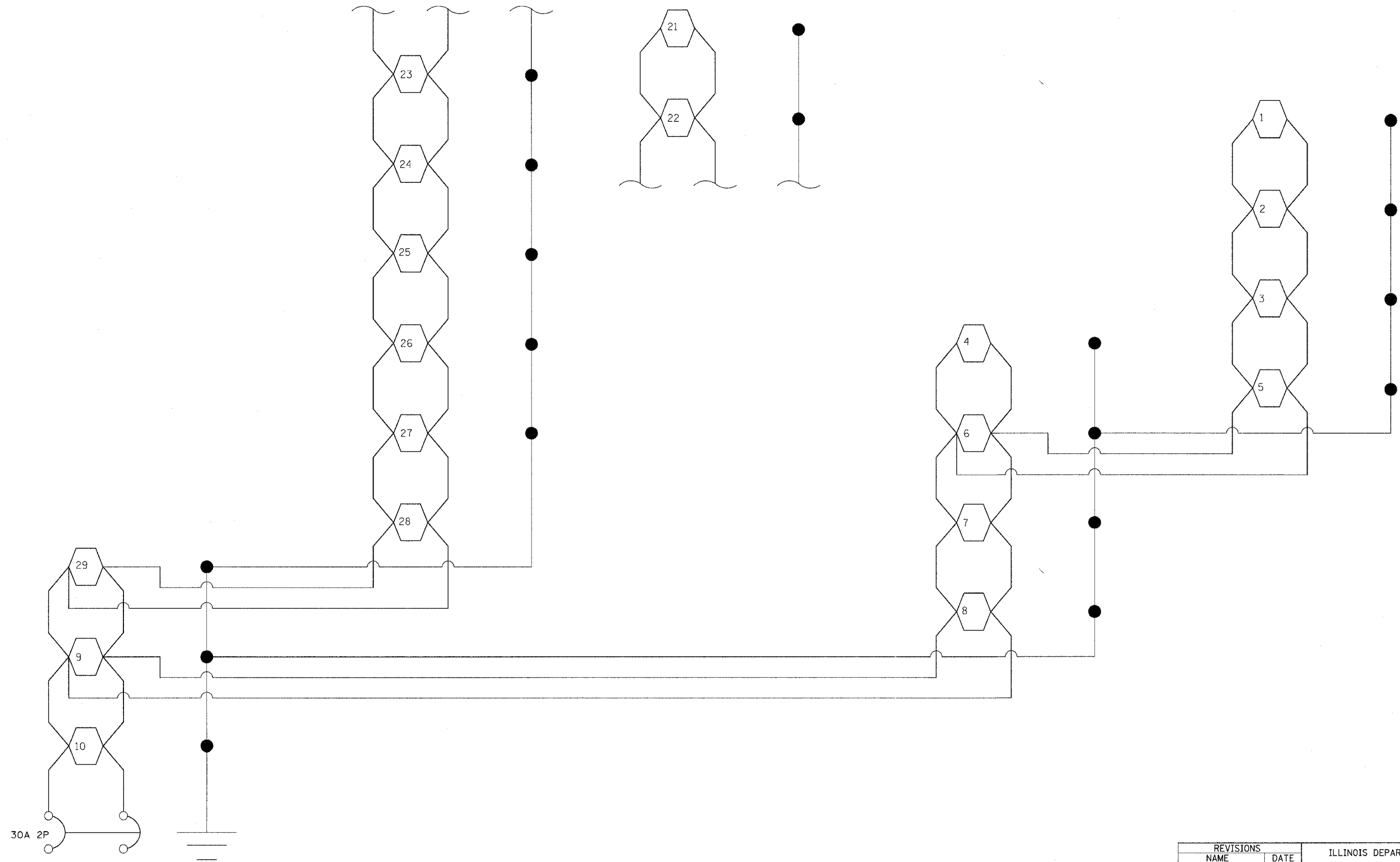
**CIRCUIT "A"**

SCALE: VERT. NONE  
 HORIZ. DATE

DRAWN BY  
 CHECKED BY

WIRING DIAGRAM

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	518	227
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



PLOT DATE = 03/21/2007 09:55 AM  
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 USER NAME = ket

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**CIRCUIT "B"**

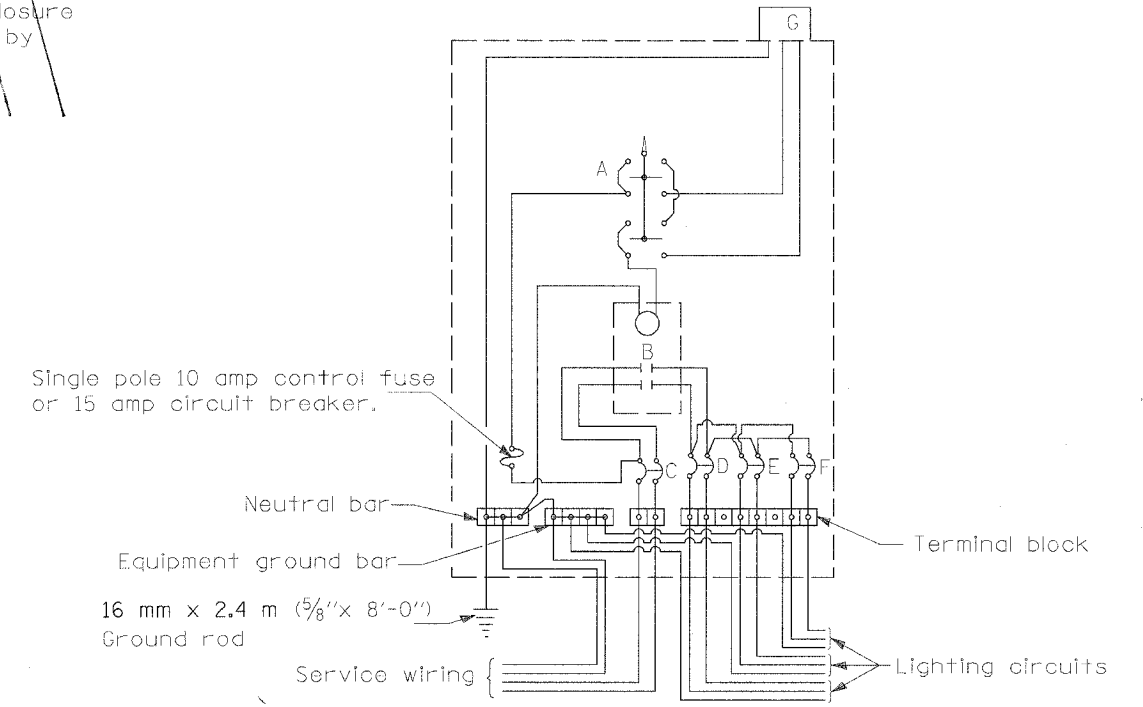
SCALE: VERT. NONE  
 HORIZ. NONE

DATE \_\_\_\_\_ DRAWN BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_

WIRING DIAGRAM

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HKB	JEFFERSON	518	228
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

- A Selector switch
- B 2 Pole 100 amp contactor
- C 2 Pole 60 amp service disconnect
- D,E,F 2 Pole 30 amp breakers
- G Photocell w/integral surge arrester



WIRING DIAGRAM

GENERAL NOTES

Locate service pole and control installation adjacent to R.C.W. line with a minimum distance of 9 m (30') from the edge of pavement. Exact location shall be established by the Engineer.

The underground service entrance wiring shall not exceed 46 m (150'). Total aerial and underground service between the control installation and primary transformer shall not exceed 76 m (250').

Raceways shall terminate 75 (3) above top of concrete foundation.

For 480 V. systems, a 480/120 V. control transformer will be required.

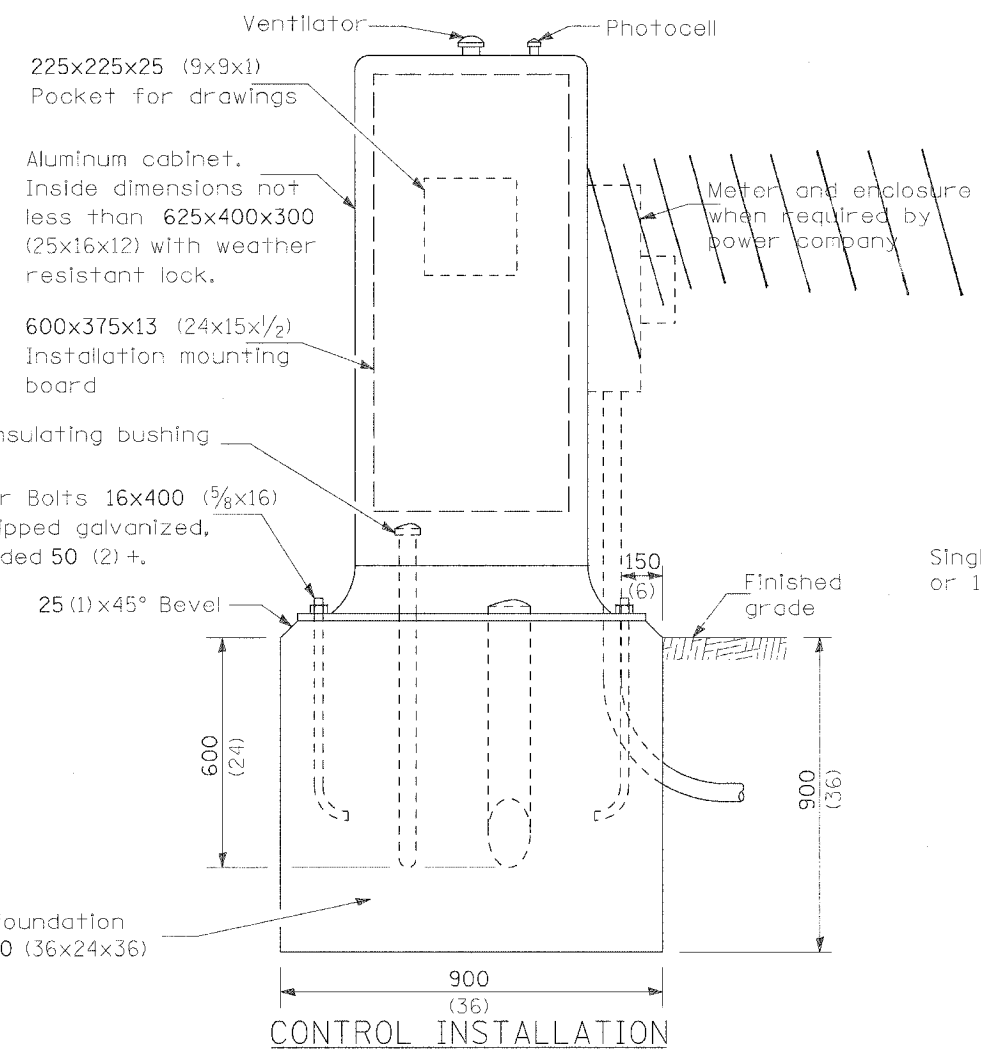
All dimensions are in millimeters unless otherwise shown.

- 240 V. SERVICE
- 480 V. SERVICE

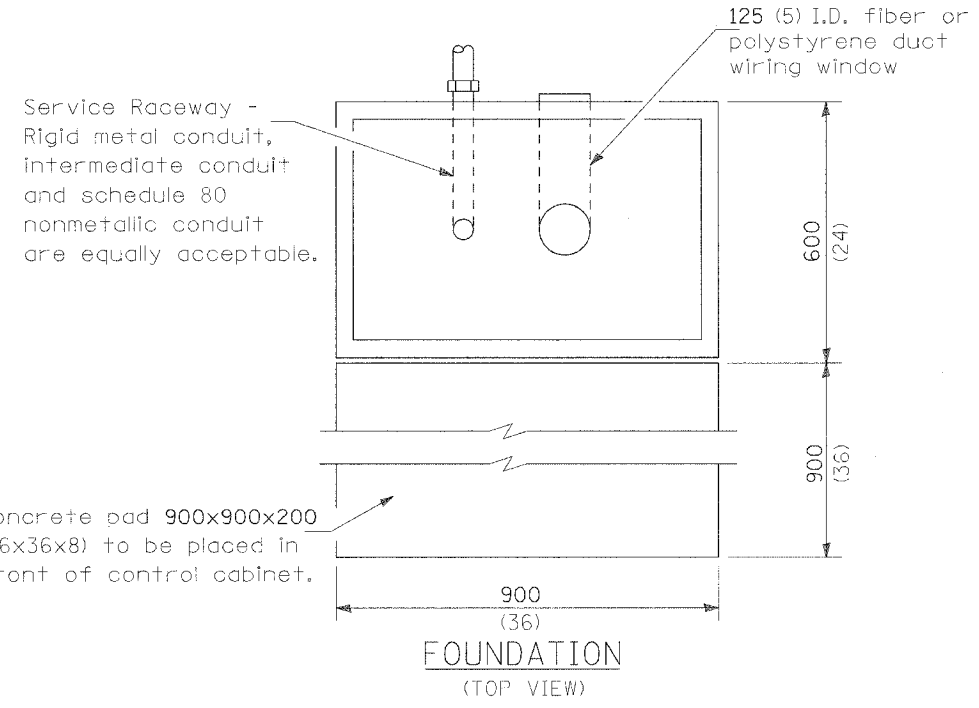
DATE	REVISIONS

CONTROL INSTALLATION TYPE CB-RCS-100

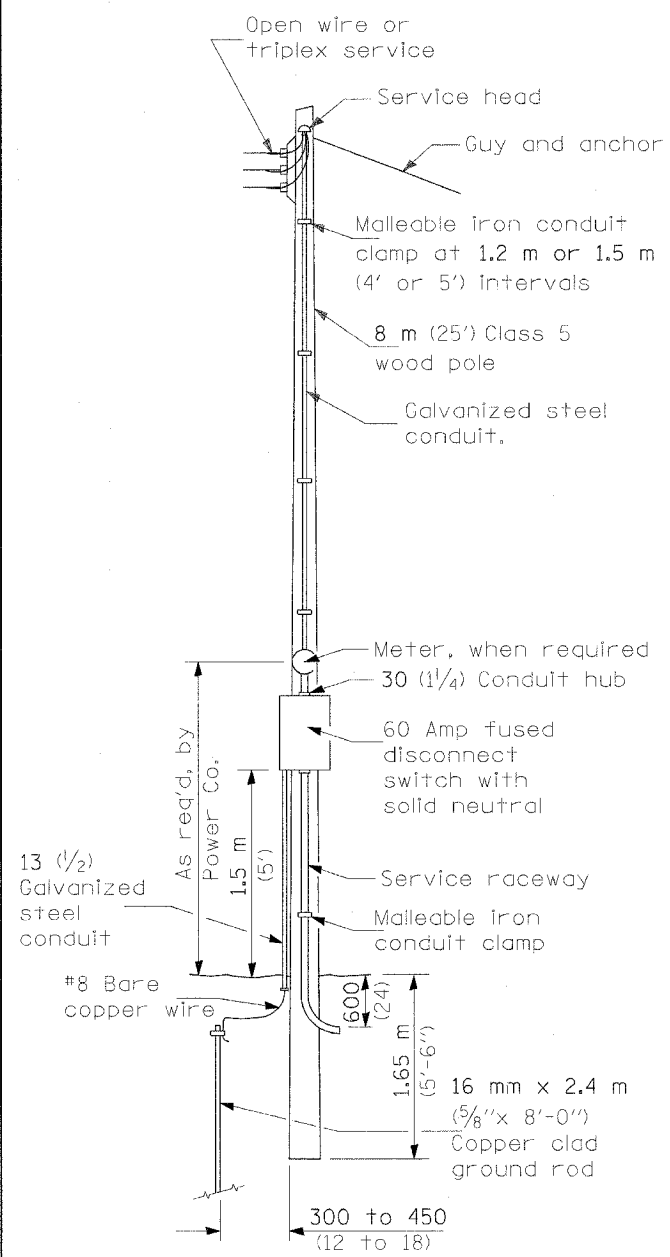
CONTROL INSTALLATION DETAIL



CONTROL INSTALLATION (FRONT VIEW)



FOUNDATION (TOP VIEW)



SERVICE POLE

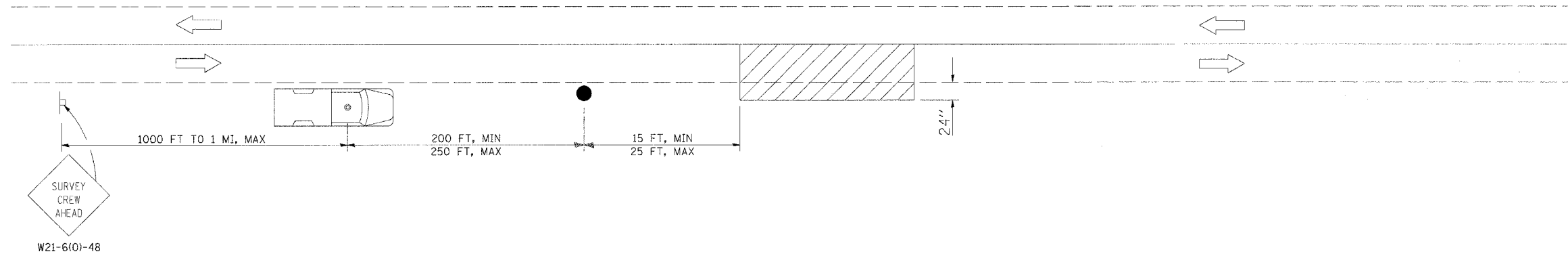
Concrete foundation 900x600x900 (36x24x36)

Service Raceway - Rigid metal conduit, intermediate conduit and schedule 80 nonmetallic conduit are equally acceptable.





Concrete pad 900x900x200 (36x36x8) to be placed in front of control cabinet.

PLOT DATE = 05/21/2007, 10:09 AM  
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	141-31HBK	JEFFERSON	518	229
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



**SYMBOLS**

-  - WORK AREA
-  - SIGN ON PORTABLE OR PERMANENT SUPPORT
-  - TRUCK WITH FLASHING AMBER LIGHT AND DUAL EMERGENCY FLASHERS
-  - FLAGGER WITH TRAFFIC CONTROL SIGN

TYPICAL APPLICATIONS:  
UTILITY OPERATIONS

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SHOWN.

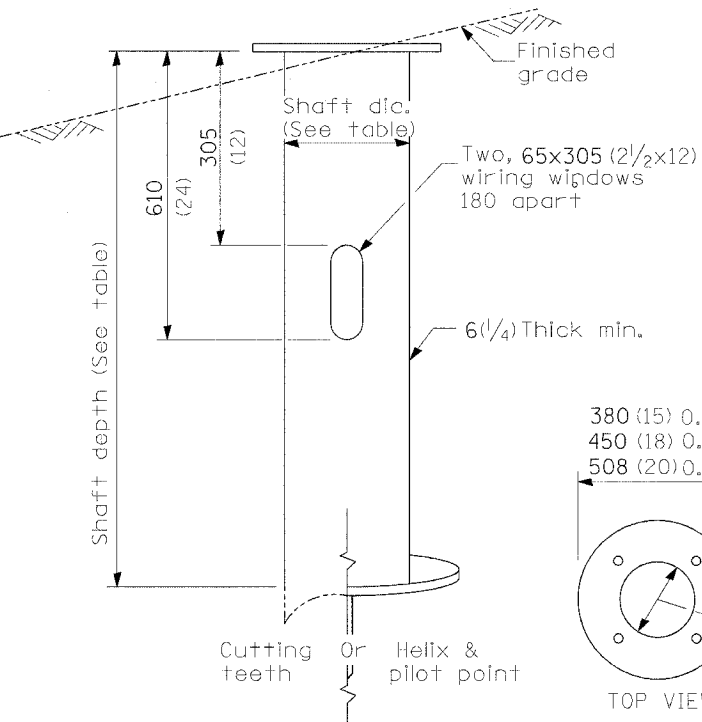
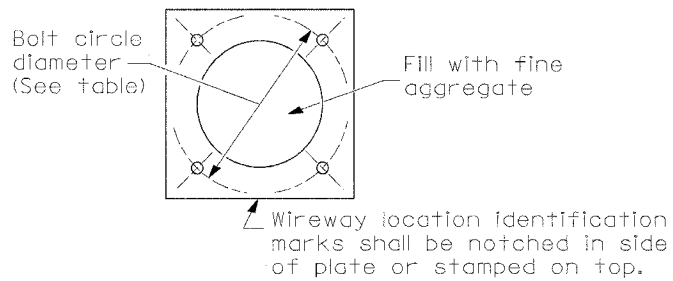
DETAIL FOR  
NIGHTTIME LIGHTING  
INSPECTION

**LGT-017**

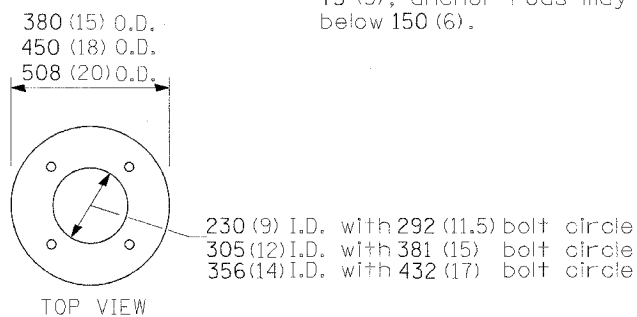
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	141-31HBK	JEFFERSON	518	230
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

LIGHT POLE MOUNTING HEIGHT	BOLT CIRCLE DIAMETER	STEEL FOUNDATION			CONCRETE FOUNDATION		
		SHAFT DIAMETER	SHAFT DEPTH	TOP PLATE (min)	SHAFT DIAMETER	SHAFT DEPTH	ANCHOR ROD LENGTH 1
<9.1 m (30')	292 (11)	220 (8 5/8)	1.83 m (6')	300 x 300 x 25 12 x 12 x 1	610 (24)	1.52 m (5'-0")	1.45 m (4'-9")
9.4 m - 10.7 m (31'-35')	292 (11)	220 (8 5/8)	1.83 m (6')	300 x 300 x 25 12 x 12 x 1	610 (24)	1.67 m (5'-6")	1.60 m (5'-3")
10.9 m - 12.2 m (36'-40')	381 (15) 3	220 (8 5/8)	1.83 m (6') 2	375 x 375 x 31 15 x 15 x 1 1/4	762 (30)	1.83 m (6'-0")	1.75 m (5'-9")
12.5 m - 13.7 m (41'-45')	381 (15) 3	220 (8 5/8)	1.83 m (6') 2	375 x 375 x 31 15 x 15 x 1 1/4	762 (30)	1.98 m (6'-6")	1.90 m (6'-3")
14.0 m - 15.2 m (46'-50')	381 (15) 3	220 (8 5/8)	2.44 m (8')	375 x 375 x 31 15 x 15 x 1 1/4	762 (30)	2.13m (7'-0")	2.00 m (6'-9")

- Length does not include 100(4)hook
- 220 mm x 2.44 m (8 5/8" x 8'-0") for Twin luminaires
- Bolt circle diam. shall be 430 (17) when a TB3-17 transformer base is used  
**(PAID FOR AS BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE)**



STEEL FOUNDATION



RING PLATE DETAIL

(When rock is encountered and foundation is shallower)

Length above foundation shall be adjusted to accommodate breakaway devices furnished by the contractor for a specific installation.

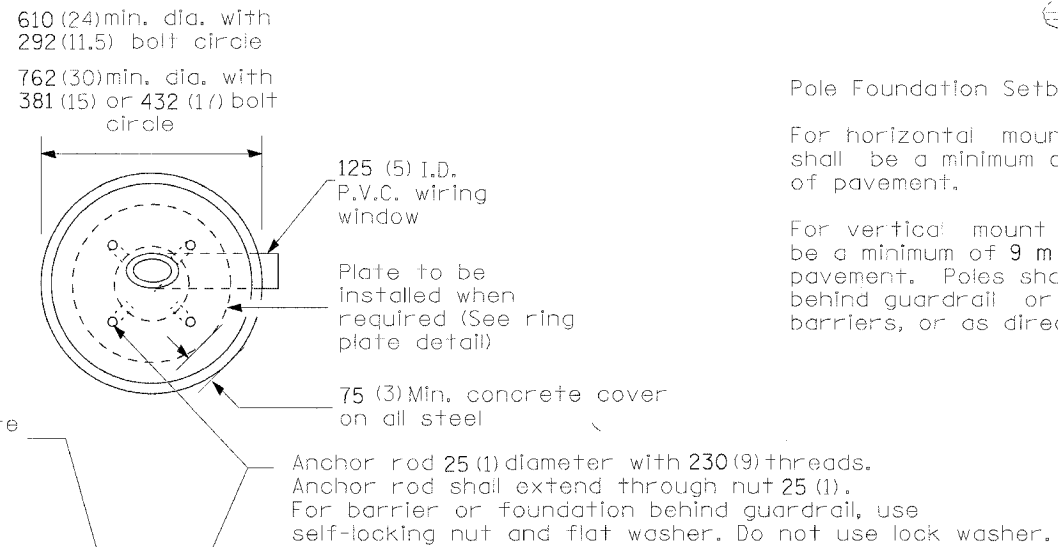
Use dirt removed from foundation to meet 1.52m (5 ft.) chord fill around foundation top. Grade dirt level with bottom of concrete chamfer.

- If the required anchor rod length above top of foundation is less than 75 (3), anchor rods may be lowered below 150 (6).

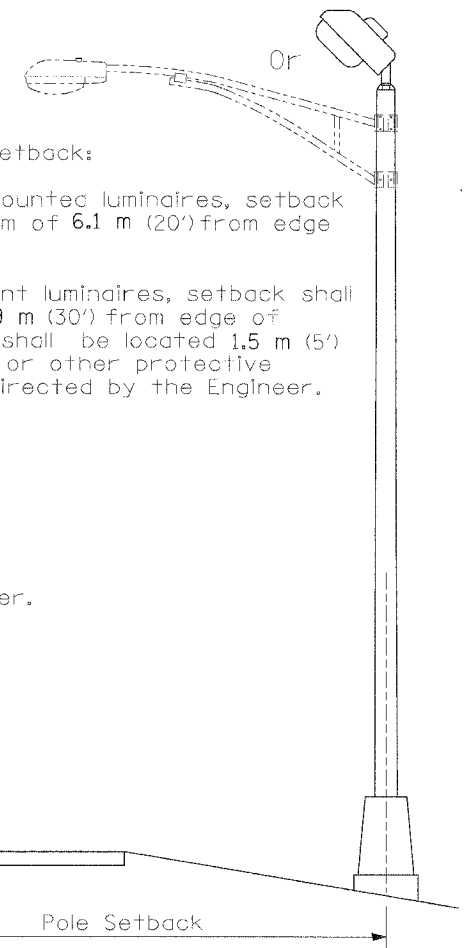
Cast bronze clamp

16 mm x 3 m (5/8" x 10') Copperclad grounding electrode. When foundation is set in rock, install ground electrode in cable trench.

CONCRETE FOUNDATION



Finished grade



Notes:

- Wireway may be on front, back or side of foundation as required by the trenching. Place door of transformer base on wireway side to minimize the number of unit duct bends.
- Top of schedule 40 125 (5) I.D. PVC wiring window, shall be flush with the top of foundation for drainage.
- All foundations are designed to be located on slopes not exceeding 2:1 where soils have an unconfined compressive strength of at least 1.0 TSF. The contractor shall verify the soil strength during drilling for concrete foundations or by monitoring installation resistance on steel foundations and notify the engineer if other conditions are encountered.
- Anchor rod shall be increased to 31 (1 1/4) diameter for 15.24 (50') mounting height or above.
- TB3-17 transformer base is not to be used on metal foundation

All dimensions are in millimeters (inches) unless otherwise shown.

DATE	REVISIONS
10/7/02	Bridge Office depth calc.

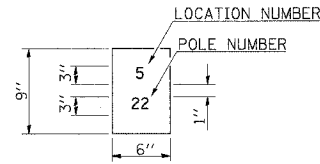
LIGHT POLE FOUNDATION

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	18	231
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

# POLE STANDARDS

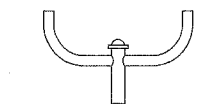
"INSTALL AND ORIENT ARM BRACKET OVER POLE TENON AND FIRMLY HAND TIGHTEN THE TWO SET SCREWS. USE THIRD HOLE IN ARM BRACKET AS A GUIDE TO DRILL A 3/4" DIAMETER HOLE THROUGH TENON. INSTALL AND TIGHTEN SELF-TAPPING SCREW. TIGHTEN SET SCREWS AN ADDITIONAL 1/4 TO 3/8 TURN WITH HEX KEY (NOT PROVIDED). INSTALL LOCKNUTS ON SET SCREWS IF THREADED PROJECTION ALLOWS."

POLE SHALL MEET AASHTO STANDARD SPECIFICATIONS FOR 80 MPH WIND LOADING AND 90 LB, 4.0 SQ. FT E.P.A. LUMINAIRE.

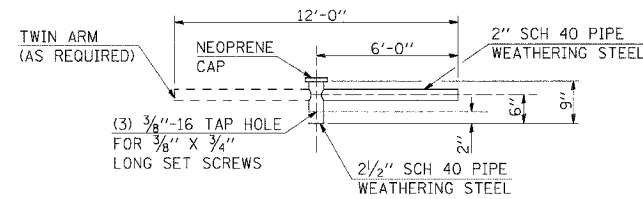


THE CONTRACTOR SHALL FURNISH AND INSTALL A LIGHT POLE IDENTIFICATION OF EACH NEW LIGHT POLE, AS SHOWN ABOVE, INCIDENTAL TO THE RESPECTIVE LIGHT POLE PAY ITEM. THE NUMERALS SHALL BE 3", SERIES "D", BLACK, SCREENED ON SILVER-WHITE TYPE B PRESSURE SENSITIVE REFLECTIVE SHEETING CONFORMING TO THE REQUIREMENTS OF SECTION T602.01 OF THE STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS. THE NUMERALS SHALL CONFORM TO THE FHWA "STANDARD ALPHABETS FOR HIGHWAY SIGNS".

THE LIGHT POLE IDENTIFICATION SHALL BE APPLIED TO SIGN BASE MATERIAL AS SPECIFIED IN SECTION 719.11 OF THE STANDARD SPECIFICATIONS, APPROXIMATELY 7" ABOVE THE ADJACENT PAVEMENT GRADE VISIBLE TO APPROACHING TRAFFIC IN ACCORDANCE WITH HIGHWAY STANDARD 2319.

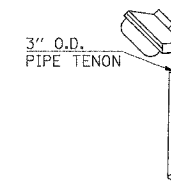


TWIN TENON

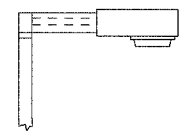


TENON MOUNT BRACKET ARM

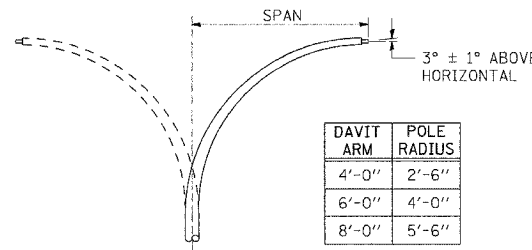
NOTE: SINGLE OR TWIN ARM ASSEMBLY SHALL BE TILTED 3° ABOVE HORIZONTAL.



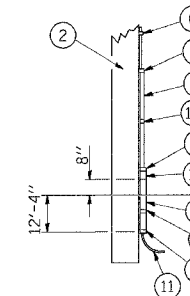
TENON



SHORT BRACKET



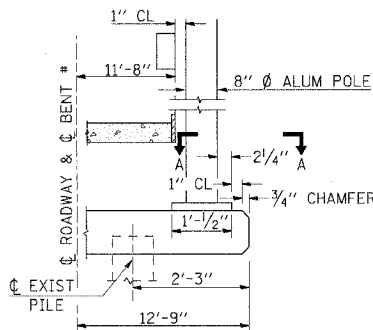
DAVIT ARM (AND OR)  
 DAVIT ARM-TWIN



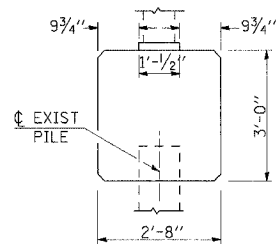
DETAILS FOR UNDERGROUND DISTRIBUTION IF REQUIRED

POLE, WOOD

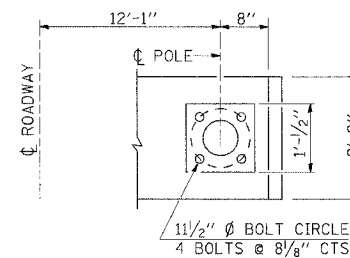
POLE LENGTH	DEPTH IN GROUND
65'-0"	12'-0"
60'-0"	10'-0"
55'-0"	9'-0"
50'-0"	8'-0"
45'-0"	7'-0"
40'-0"	6'-6"
35'-0"	6'-0"
30'-0"	5'-6"



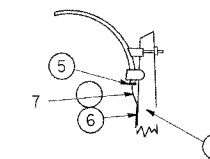
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(LOOKING )



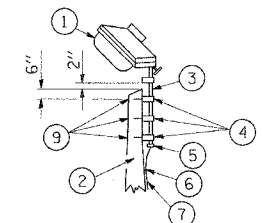
BRIDGE PIER MOUNT



SECTION A-A

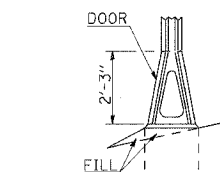


MAST ARM

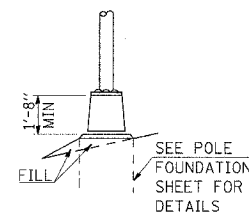


TENON

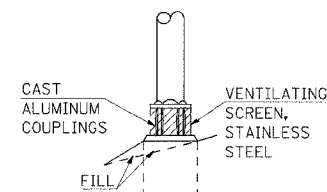
- ① LUMINAIRE
- ② WOOD POLE, CLASS 3 OR BETTER
- ③ 2 1/2" GALV. STEEL CONDUIT
- ④ SINGLE OFFSET POLE BAND
- ⑤ CONDUIT BUSHING
- ⑥ CABLE CLAMPS ON 2' CENTERS
- ⑦ 2/C #12 TYPE USE CABLE
- ⑧ 1" GALV. STEEL CONDUIT 10' IN LENGTH
- ⑨ 5/8" Ø HOT DIPPED GALVANIZED BOLT WITH FLAT WASHER & LOCKNUT (3 REQ'D)
- ⑩ CONDUIT CLAMPS ON 3' CENTERS
- ⑪ UNIT DUCT
- ⑫ THREADED REDUCER
- ⑬ "C" CONDULET, THREADED
- ⑭ 1 1/2" GALV. STEEL CONDUIT FOR 1 UNIT DUCT OR 3" GALV. STEEL CONDUIT FOR 2 OR 3 UNIT DUCTS.



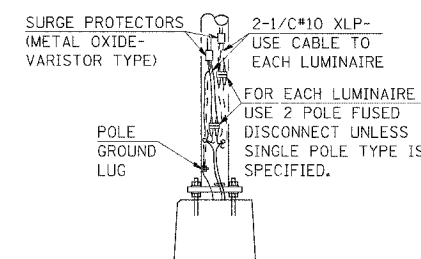
STAINLESS STEEL FLAIR BASE



TRANSFORMER BASE  
 FRANGIBLE



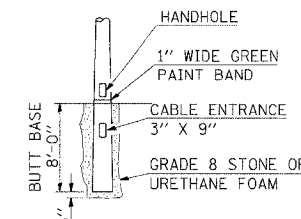
BREAKAWAY COUPLING



ANCHOR

METAL OR  CONCRETE

DETAILS FOR UNDERGROUND DISTRIBUTION IF REQUIRED



BUTT BASE

03/21/2007, 07:55 AM  
14'98' Job: 9802281001.DOT RAMP5.dwg:3065.m32  
50.0000 / IN

REVISIONS	
DRAWN	2-9-01
REVISED	4-14-02
REVISED	
REVISED	

F.A.I. PROJECT NO.	CONTRACT NO.	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	*	JEFFERSON	518	231A

\*(41-3)HBK

*MAINLINE*  
ILLINOIS DEPARTMENT OF TRANSPORTATION  
LUMINAIRE PERFORMANCE TABLE

1/1/03

GIVEN CONDITIONS

ROADWAY DATA:	Pavement Width	24	FT	
	Number Of Lanes	2		
	Median Width	94	FT	
	IES Surface Classification	R3		
Q-Zero Value				.07
LIGHT POLE DATA:	Mounting Height	50	FT	
	Mast Arm Length	15	FT	
	Pole Set-Back From Edge Of Pavement	18	FT	
LUMINAIRE DATA:	Lamp Type	HPS		
	Lamp Lumens	50000		
	IES Vertical Distribution	M		
	IES Control Of Distribution	C		
	IES Lateral Distribution	3		
	Total Light Loss Factor	0.684		
LAYOUT DATA:	Spacing	300	FT	
	Configuration	OPP		
	Luminaire Overhang Over Edge Of Pavement Lane	-3	FT	

NOTE: Variations from the above specified IES distribution pattern may be requested and acceptance of variations will be subject to review by the Engineer based on how well the performance requirements are met.

PERFORMANCE REQUIREMENTS

NOTE: These performance requirements shall be the minimum acceptable standards of photometric performance for the luminaire, based on the given conditions listed above.

ILLUMINATION:	Average Horizontal Illumination, ( $E_{Avg}$ )	0.6	fc
	Uniformity Ratio, ( $E_{Avg}/E_{Min}$ )	3.0	
LUMINANCE:	Average Luminance: ( $L_{Avg}$ )	0.4	Cd/m <sup>2</sup>
	Uniformity Ratios: ( $L_{Avg}/L_{Min}$ )	3.5	
		( $L_{Max}/L_{Min}$ )	6.0
	Maximum Veiling Luminance Ratio: ( $L_v/L_{Avg}$ )	0.3	

*RAMPS*  
ILLINOIS DEPARTMENT OF TRANSPORTATION  
LUMINAIRE PERFORMANCE TABLE

1/1/03

GIVEN CONDITIONS

ROADWAY DATA:	Pavement Width	16	FT	
	Number Of Lanes	1		
	Median Width	N/A	FT	
	IES Surface Classification	R3		
Q-Zero Value				.07
LIGHT POLE DATA:	Mounting Height	50	FT	
	Mast Arm Length	15	FT	
	Pole Set-Back From Edge Of Pavement	18	FT	
LUMINAIRE DATA:	Lamp Type	HPS		
	Lamp Lumens	50000		
	IES Vertical Distribution	M		
	IES Control Of Distribution	C		
	IES Lateral Distribution	3		
	Total Light Loss Factor	0.684		
LAYOUT DATA:	Spacing	285	FT	
	Configuration	1 Side		
	Luminaire Overhang Over Edge Of Pavement Lane	-3	FT	

NOTE: Variations from the above specified IES distribution pattern may be requested and acceptance of variations will be subject to review by the Engineer based on how well the performance requirements are met.

PERFORMANCE REQUIREMENTS

NOTE: These performance requirements shall be the minimum acceptable standards of photometric performance for the luminaire, based on the given conditions listed above.

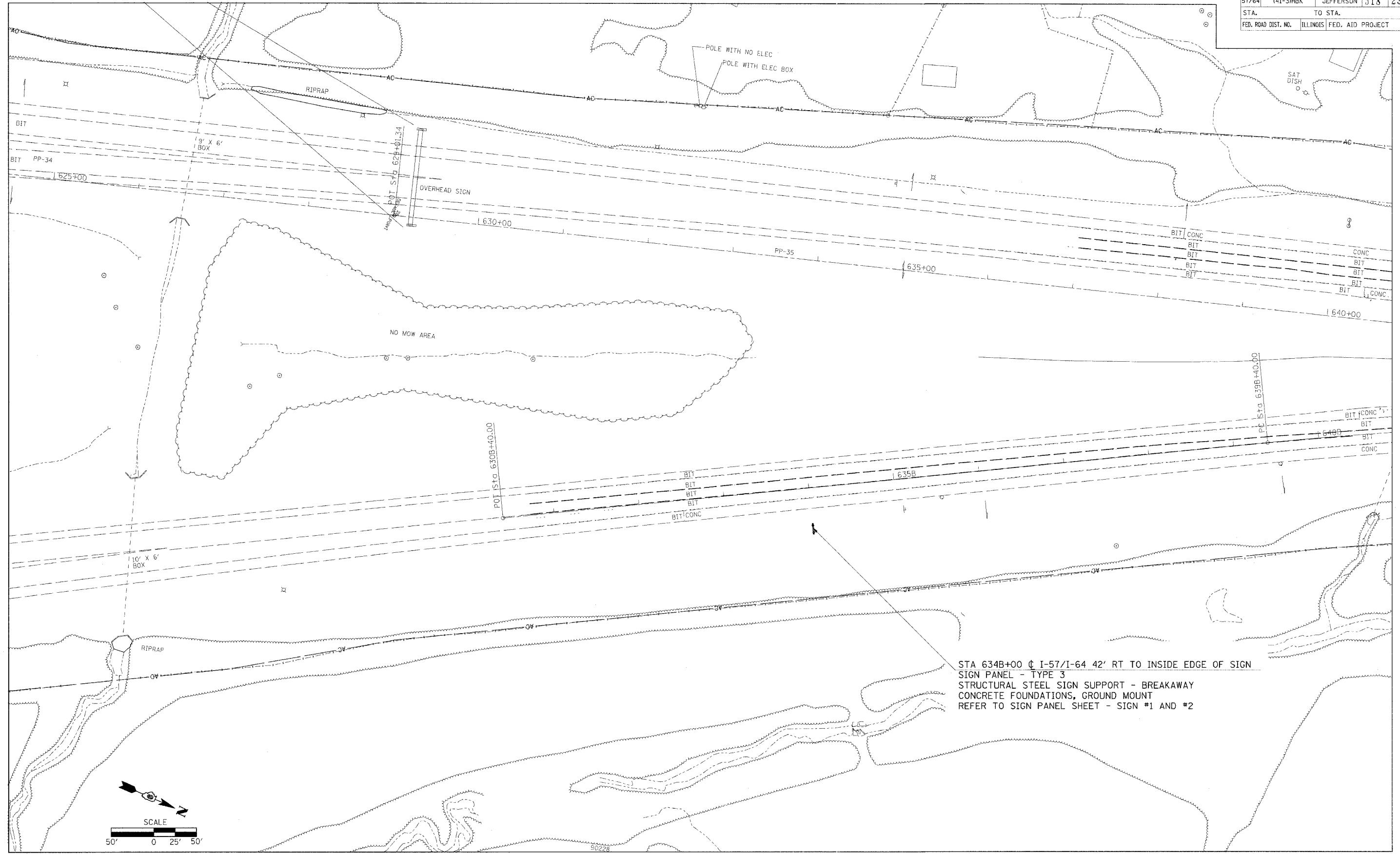
ILLUMINATION:	Average Horizontal Illumination, ( $E_{Avg}$ )	0.6	fc
	Uniformity Ratio, ( $E_{Avg}/E_{Min}$ )	3.0	
LUMINANCE:	Average Luminance: ( $L_{Avg}$ )	0.4	Cd/m <sup>2</sup>
	Uniformity Ratios: ( $L_{Avg}/L_{Min}$ )	3.5	
		( $L_{Max}/L_{Min}$ )	6.0
	Maximum Veiling Luminance Ratio: ( $L_v/L_{Avg}$ )	0.3	

LUMINAIRE PERFORMANCE TABLES

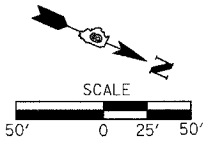
F.A.I. ROUTE 57/64  
SECTION (41-3)HBK  
JEFFERSON COUNTY



F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	141-3H8K	JEFFERSON	18	232
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

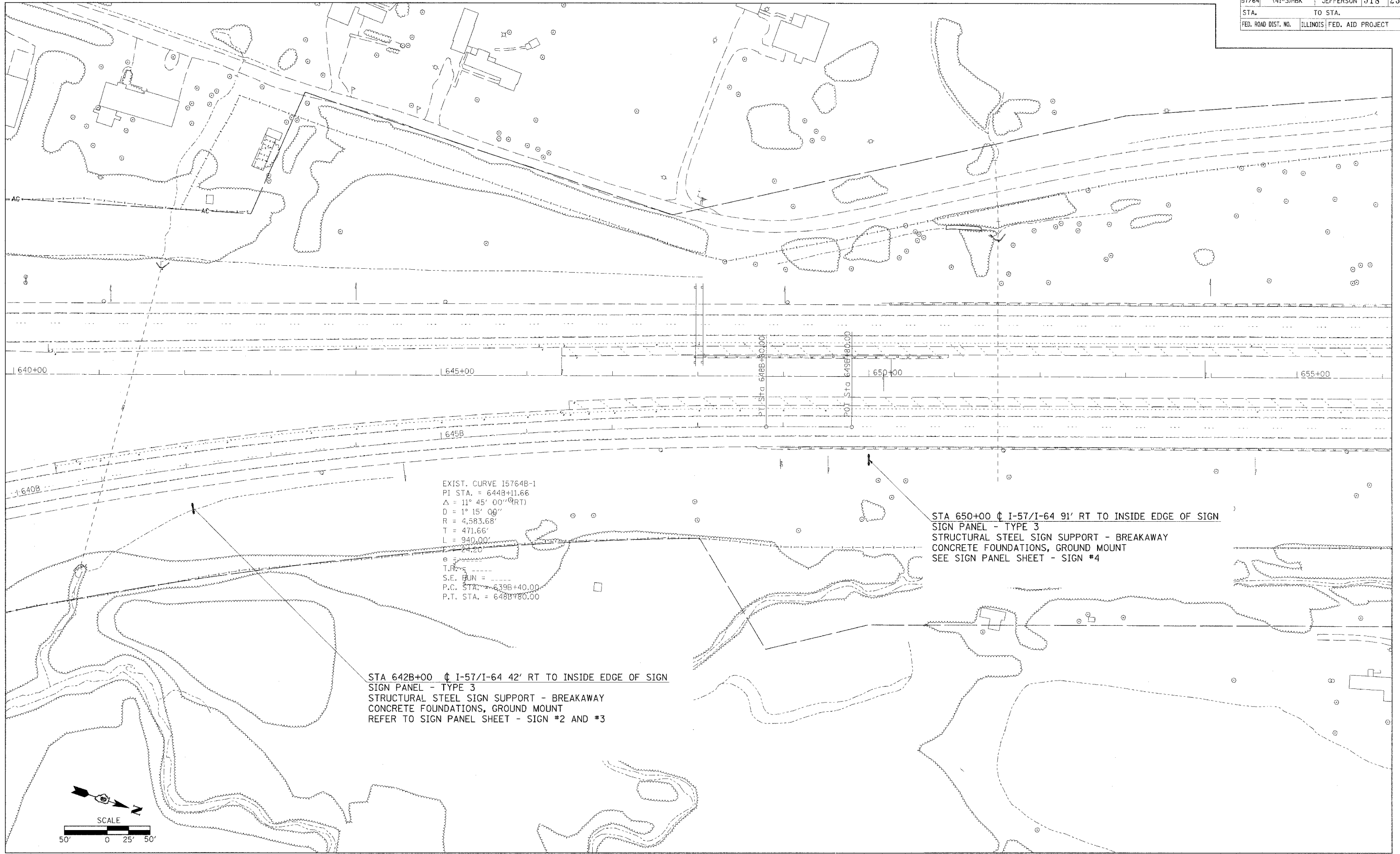


STA 634B+00 ± I-57/I-64 42' RT TO INSIDE EDGE OF SIGN  
SIGN PANEL - TYPE 3  
STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY  
CONCRETE FOUNDATIONS, GROUND MOUNT  
REFER TO SIGN PANEL SHEET - SIGN #1 AND #2



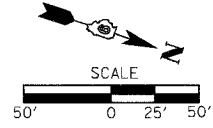
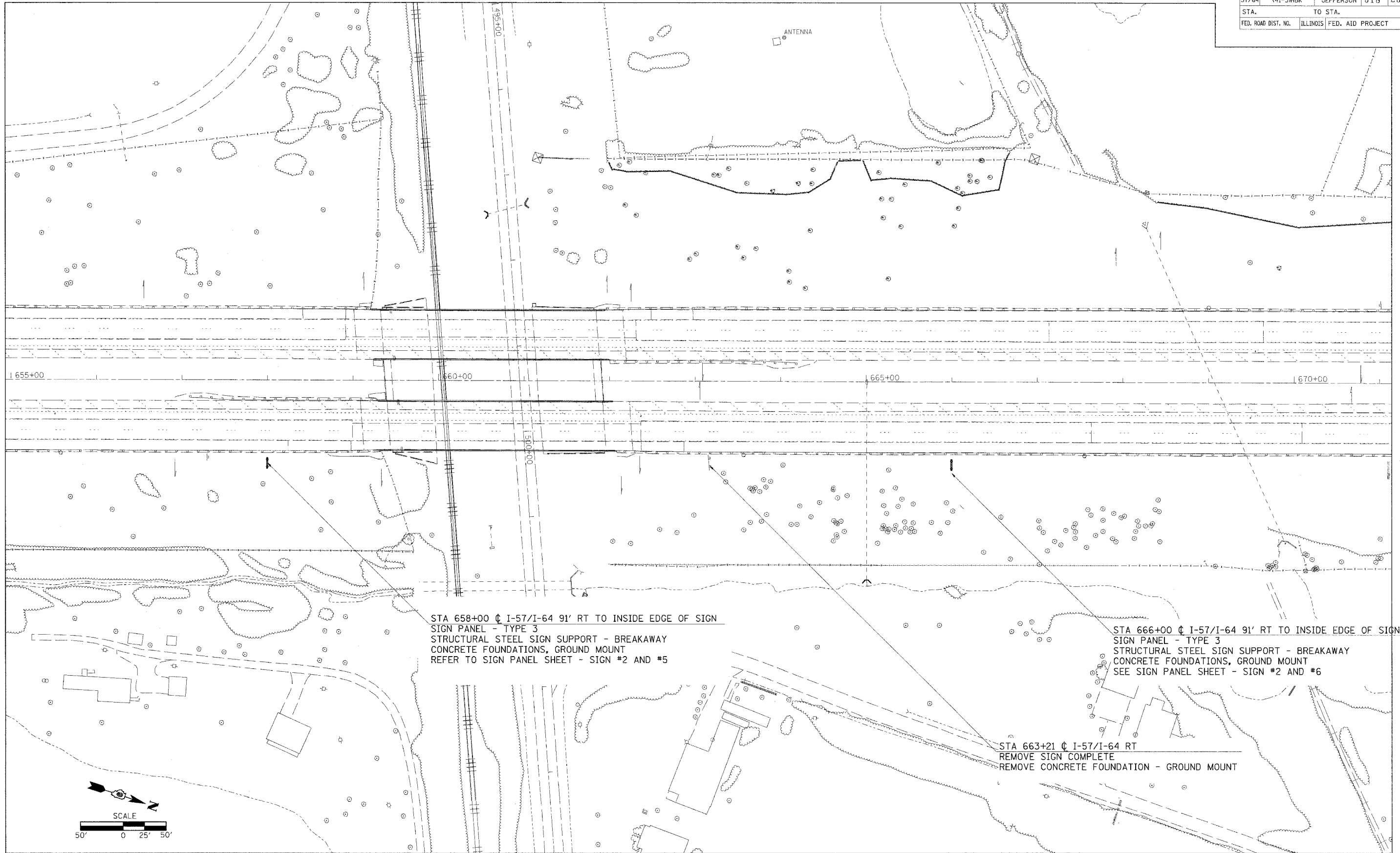
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9/2/2008 7:11 AM

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	518	233
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



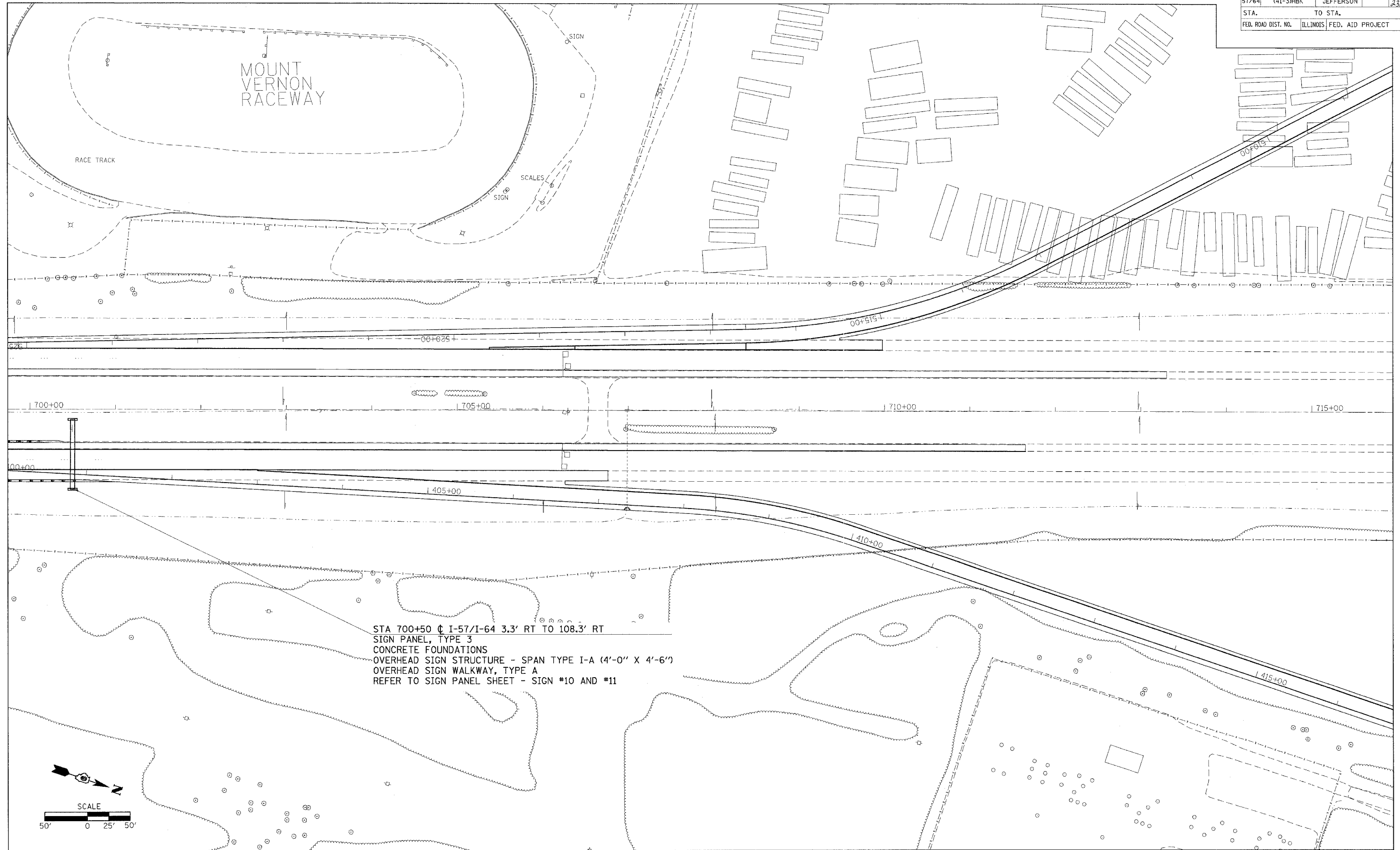
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	518	234
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

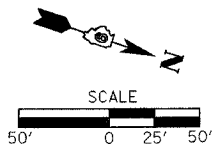


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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)BK	JEFFERSON		235
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

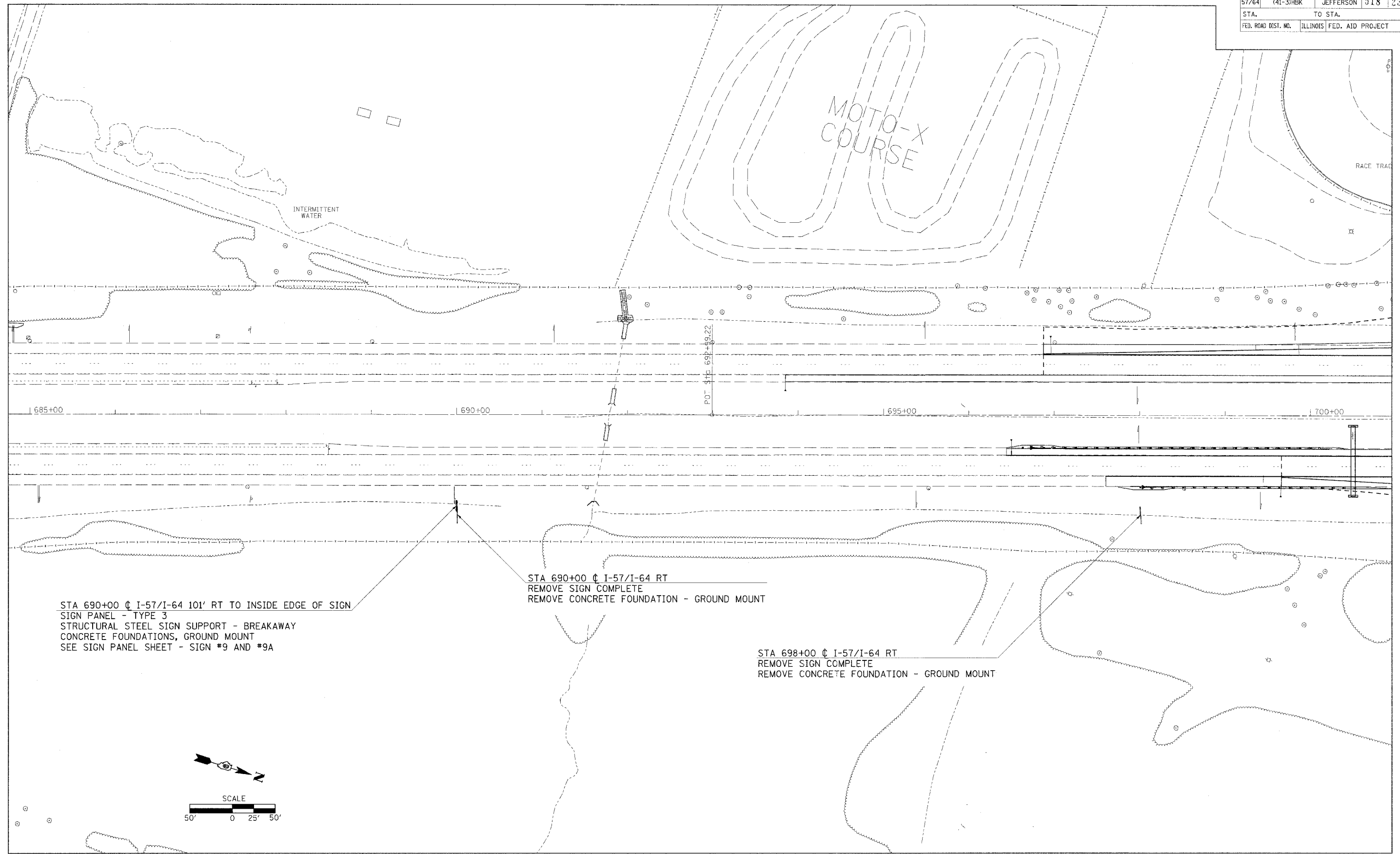


STA 700+50  $\phi$  I-57/I-64 3.3' RT TO 108.3' RT  
 SIGN PANEL, TYPE 3  
 CONCRETE FOUNDATIONS  
 OVERHEAD SIGN STRUCTURE - SPAN TYPE I-A (4'-0" X 4'-6")  
 OVERHEAD SIGN WALKWAY, TYPE A  
 REFER TO SIGN PANEL SHEET - SIGN #10 AND #11



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 russell

F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	18	236
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



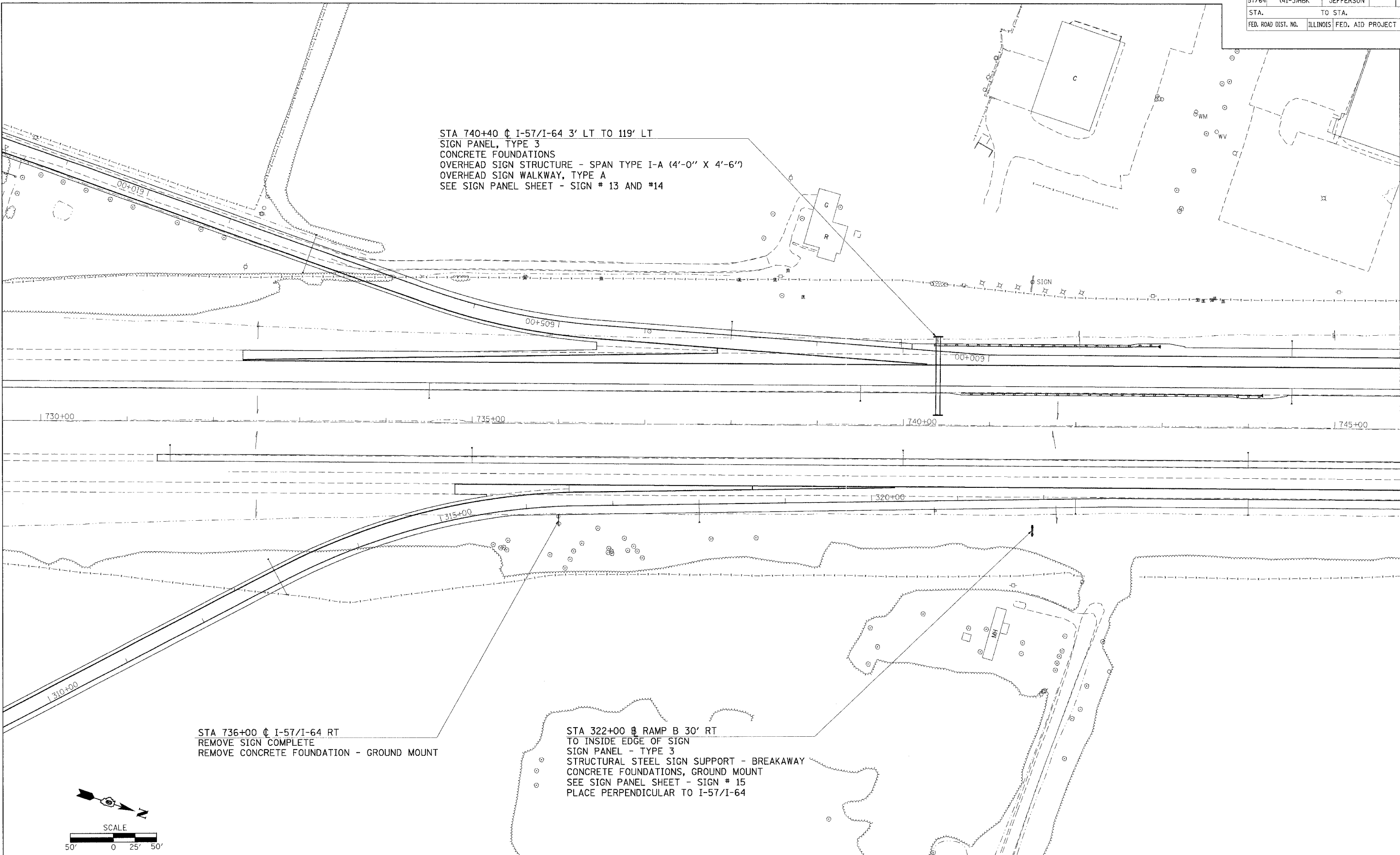
STA 690+00  $\nabla$  I-57/I-64 101' RT TO INSIDE EDGE OF SIGN  
 SIGN PANEL - TYPE 3  
 STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY  
 CONCRETE FOUNDATIONS, GROUND MOUNT  
 SEE SIGN PANEL SHEET - SIGN #9 AND #9A

STA 690+00  $\nabla$  I-57/I-64 RT  
 REMOVE SIGN COMPLETE  
 REMOVE CONCRETE FOUNDATION - GROUND MOUNT

STA 698+00  $\nabla$  I-57/I-64 RT  
 REMOVE SIGN COMPLETE  
 REMOVE CONCRETE FOUNDATION - GROUND MOUNT

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 10/10/07

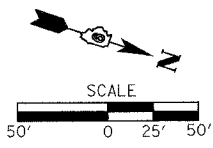
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)BK	JEFFERSON		237
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



STA 740+40 Ⓢ I-57/I-64 3' LT TO 119' LT  
 SIGN PANEL, TYPE 3  
 CONCRETE FOUNDATIONS  
 OVERHEAD SIGN STRUCTURE - SPAN TYPE I-A (4'-0" X 4'-6")  
 OVERHEAD SIGN WALKWAY, TYPE A  
 SEE SIGN PANEL SHEET - SIGN # 13 AND #14

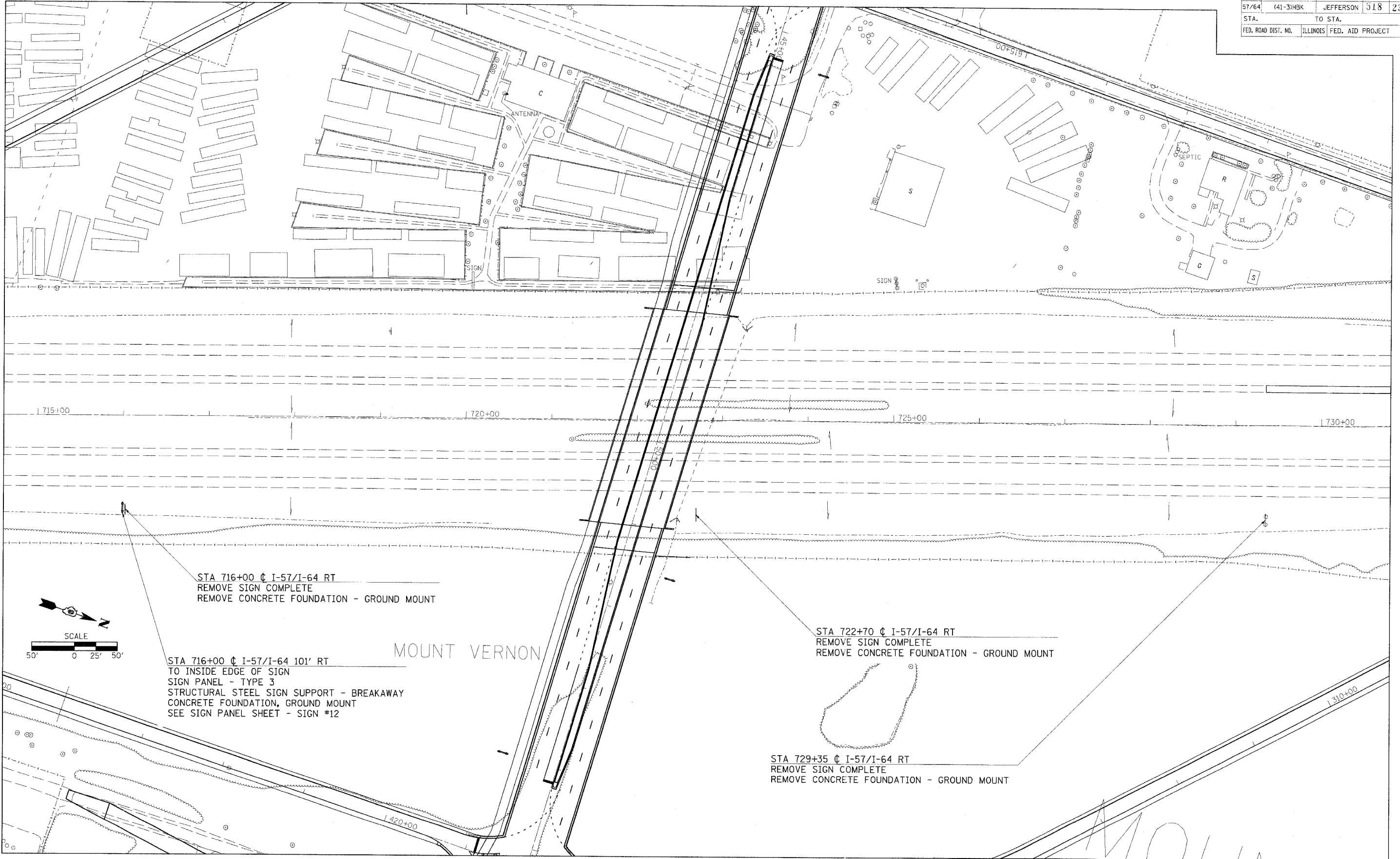
STA 736+00 Ⓢ I-57/I-64 RT  
 REMOVE SIGN COMPLETE  
 REMOVE CONCRETE FOUNDATION - GROUND MOUNT

STA 322+00 Ⓢ RAMP B 30' RT  
 TO INSIDE EDGE OF SIGN  
 SIGN PANEL - TYPE 3  
 STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY  
 CONCRETE FOUNDATIONS, GROUND MOUNT  
 SEE SIGN PANEL SHEET - SIGN # 15  
 PLACE PERPENDICULAR TO I-57/I-64



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F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	318	238
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



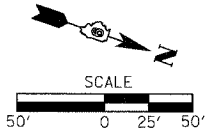
STA 716+00  $\phi$  I-57/I-64 RT  
 REMOVE SIGN COMPLETE  
 REMOVE CONCRETE FOUNDATION - GROUND MOUNT

STA 716+00  $\phi$  I-57/I-64 101' RT  
 TO INSIDE EDGE OF SIGN  
 SIGN PANEL - TYPE 3  
 STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY  
 CONCRETE FOUNDATION, GROUND MOUNT  
 SEE SIGN PANEL SHEET - SIGN #12

MOUNT VERNON

STA 722+70  $\phi$  I-57/I-64 RT  
 REMOVE SIGN COMPLETE  
 REMOVE CONCRETE FOUNDATION - GROUND MOUNT

STA 729+35  $\phi$  I-57/I-64 RT  
 REMOVE SIGN COMPLETE  
 REMOVE CONCRETE FOUNDATION - GROUND MOUNT



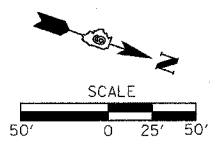
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	518	239
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

STA 740+40  $\Phi$  I-57/I-64 3' LT TO 119' LT  
 SIGN PANEL, TYPE 3  
 CONCRETE FOUNDATIONS  
 OVERHEAD SIGN STRUCTURE - SPAN TYPE II-A (4'-6" X 5'-3")  
 OVERHEAD SIGN WALKWAY, TYPE A  
 SEE SIGN PANEL SHEET - SIGN # 13 AND #14

STA 736+00  $\Phi$  I-57/I-64 RT  
 REMOVE SIGN COMPLETE  
 REMOVE CONCRETE FOUNDATION - GROUND MOUNT

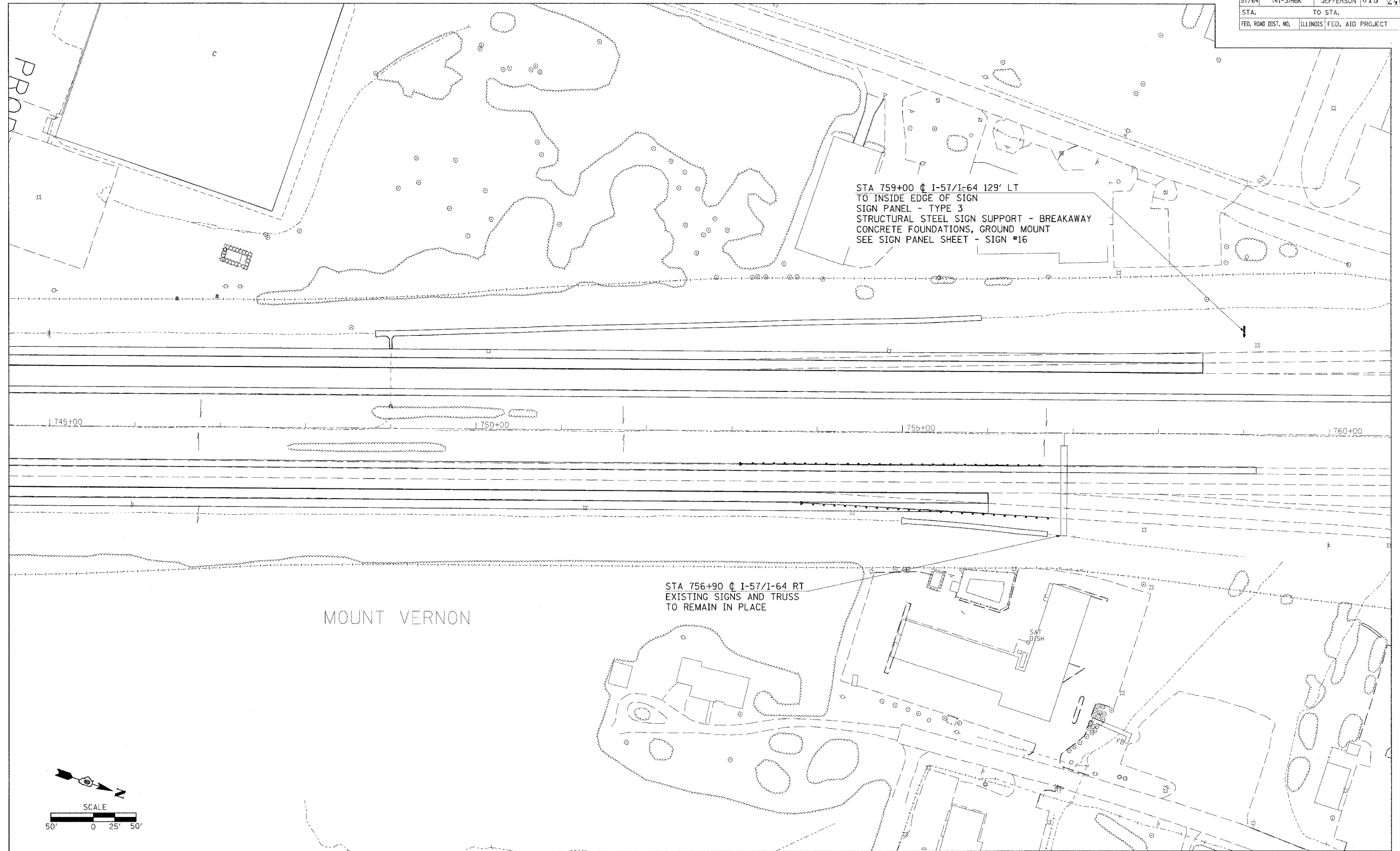
STA 322+00  $\Phi$  RAMP B 30' RT  
 TO INSIDE EDGE OF SIGN  
 SIGN PANEL - TYPE 3  
 STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY  
 CONCRETE FOUNDATIONS, GROUND MOUNT  
 SEE SIGN PANEL SHEET - SIGN # 15  
 PLACE PERPENDICULAR TO I-57/I-64



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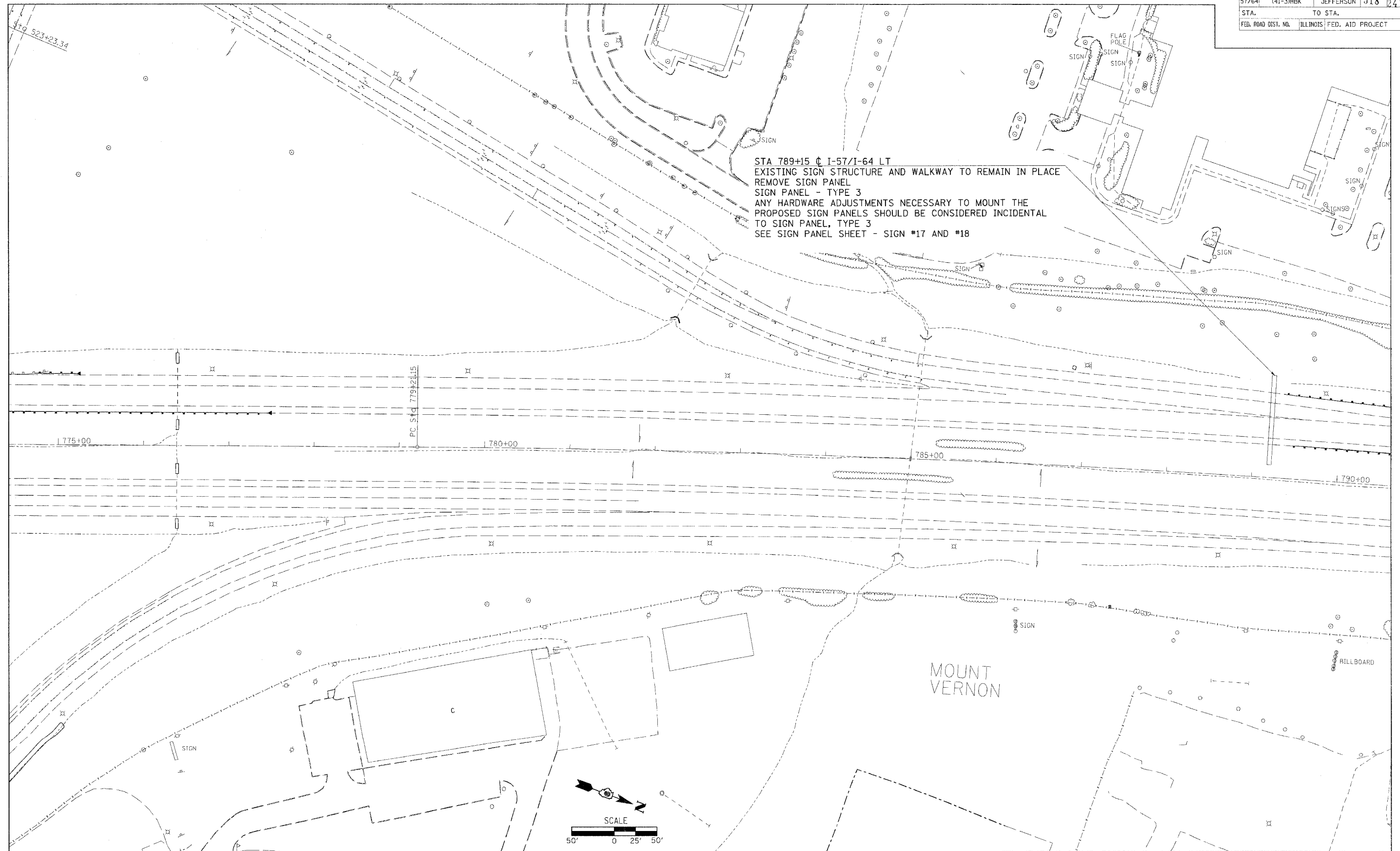


F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	141-3HMK	JEFFERSON	318	240
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



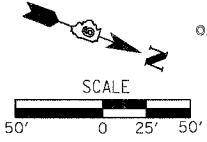
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)MBK	JEFFERSON	518	241
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



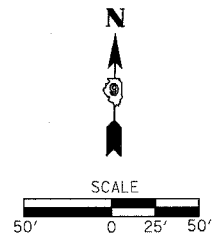
STA 789+15 @ I-57/I-64 LT  
 EXISTING SIGN STRUCTURE AND WALKWAY TO REMAIN IN PLACE  
 REMOVE SIGN PANEL  
 SIGN PANEL - TYPE 3  
 ANY HARDWARE ADJUSTMENTS NECESSARY TO MOUNT THE  
 PROPOSED SIGN PANELS SHOULD BE CONSIDERED INCIDENTAL  
 TO SIGN PANEL, TYPE 3  
 SEE SIGN PANEL SHEET - SIGN #17 AND #18

MOUNT  
 VERNON



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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	518	242
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



P.T. STA. = 306+13.40

STA 56+30  $\oslash$  VETERANS MEMORIAL 55' LT  
 TO INSIDE EDGE OF SIGN  
 SIGN PANEL - TYPE 3  
 STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY  
 CONCRETE FOUNDATIONS, GROUND MOUNT  
 SEE SIGN PANEL SHEET - SIGN #24

STA 51+50  $\oslash$  VETERANS MEMORIAL 55' LT  
 TO INSIDE EDGE OF SIGN  
 SIGN PANEL - TYPE 3  
 STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY  
 CONCRETE FOUNDATIONS, GROUND MOUNT  
 SEE SIGN PANEL SHEET - SIGN #22

STA 45+35  $\oslash$  VETERANS MEMORIAL 55' LT  
 TO INSIDE EDGE OF SIGN  
 SIGN PANEL - TYPE 3  
 STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY  
 CONCRETE FOUNDATIONS, GROUND MOUNT  
 SEE SIGN PANEL SHEET - SIGN #20

STA 43+00  $\oslash$  VETERANS MEMORIAL 60' RT  
 TO INSIDE EDGE OF SIGN  
 SIGN PANEL - TYPE 3  
 STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY  
 CONCRETE FOUNDATIONS, GROUND MOUNT  
 SEE SIGN PANEL SHEET - SIGN #19

STA 47+70  $\oslash$  VETERANS MEMORIAL 60' RT  
 TO INSIDE EDGE OF SIGN  
 SIGN PANEL - TYPE 3  
 STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY  
 CONCRETE FOUNDATIONS, GROUND MOUNT  
 SEE SIGN PANEL SHEET - SIGN #21

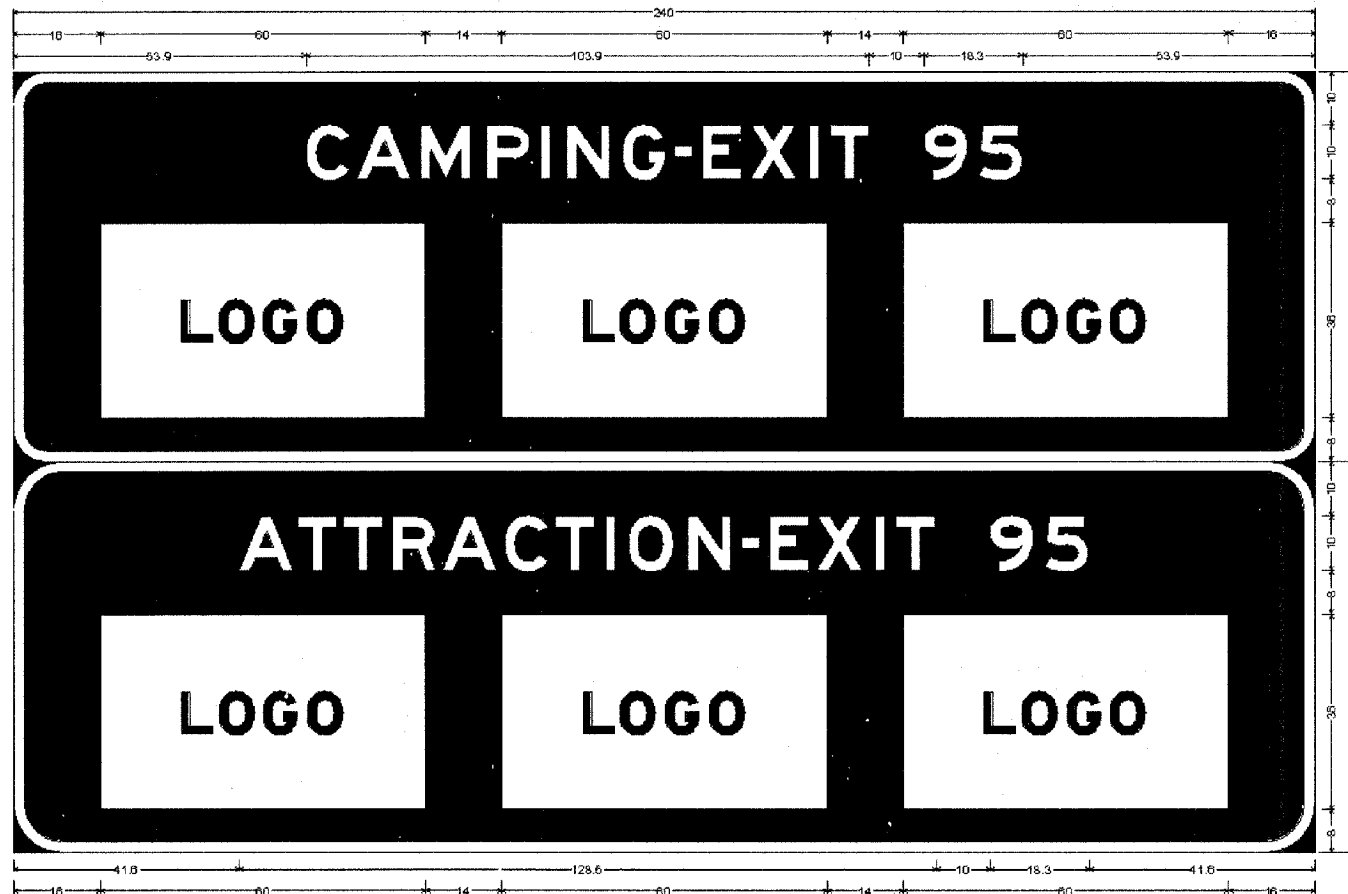
STA 54+00  $\oslash$  VETERANS MEMORIAL 60' RT  
 TO INSIDE EDGE OF SIGN  
 SIGN PANEL - TYPE 3  
 STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY  
 CONCRETE FOUNDATIONS, GROUND MOUNT  
 SEE SIGN PANEL SHEET - SIGN #23

EXIST. CURVE RAMP-1  
 PT STA. = 504+93.65  
 $\Delta$  = 29° 08' 19" (LT)  
 D = 12° 19' 13"  
 R = 465.00'  
 T = 120.86'  
 E = 15.45'  
 S.E. RUN =  
 P.C. STA. = 503+71.79  
 P.T. STA. = 506+08.28

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	518	243
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

SIGN NO. 1  
STA 634B+00 RT  $\oslash$  I57/I64



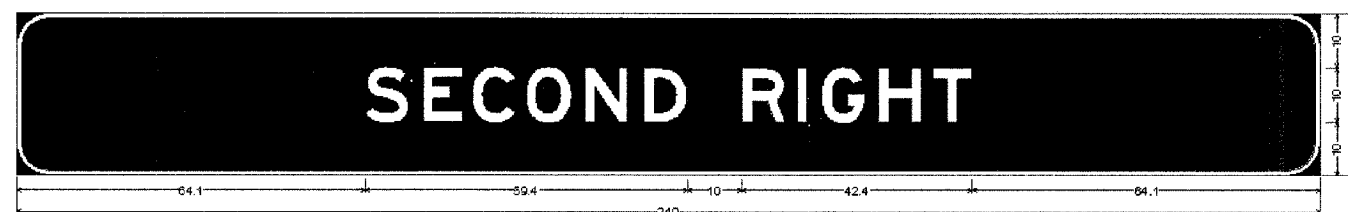
6.0" Radius, 2.0" Border, White on Blue;  
"CAMPING-EXIT 95" E Mod 2K;  
9.0" Radius, 2.0" Border, White on Blue;  
"ATTRACTION-EXIT 95" E Mod 2K;

Table of letter and object lefts:

C	A	M	P	I	N	O	E	X	T	9	S		
53.9	83.3	76.1	87.3	97.1	101.9	112.4	121.8	127.0	136.8	148.8	160.4	167.8	178.0
19.0	90.0	104.0											

A	T	T	R	A	C	T	I	O	N	E	X	T	9	S		
41.6	52.5	60.8	69.9	79.1	90.6	99.9	109.1	113.5	124.3	134.1	139.3	148.1	158.9	162.6	160.1	190.3
19.0	90.0	104.0														

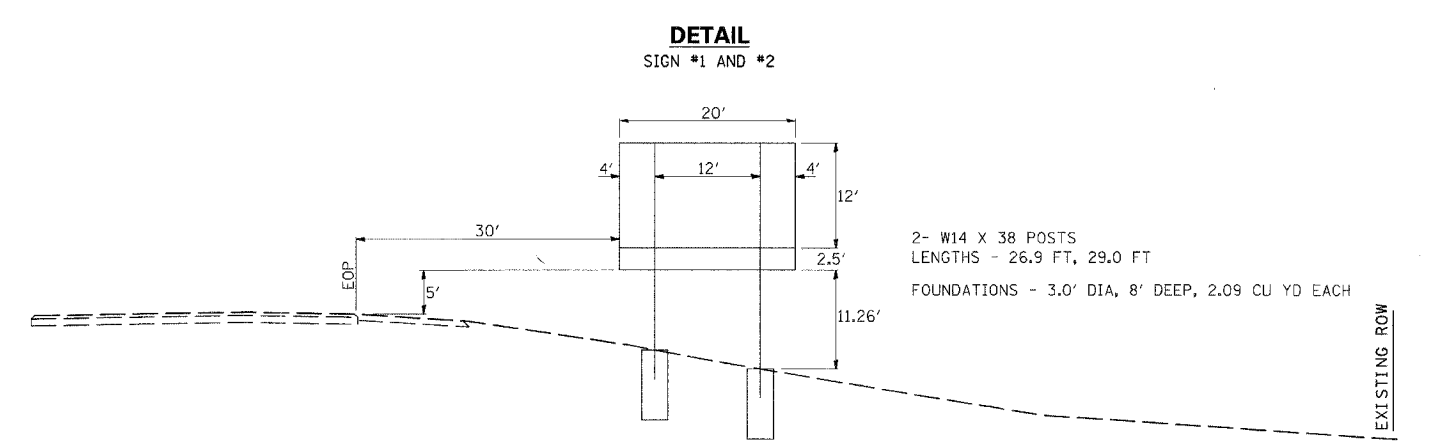
SIGN NO. 2  
STA 634B+00 RT  $\oslash$  I57/I64  
STA 642B+00 RT  $\oslash$  I57/I64  
STA 658+00 RT  $\oslash$  I57/I64  
STA 666+00 RT  $\oslash$  I57/I64  
STA 682+00 RT  $\oslash$  I57/I64



6.0" Radius, 1.0" Border, White on Blue;  
"SECOND RIGHT" E Mod 2K;

Table of letter and object lefts:

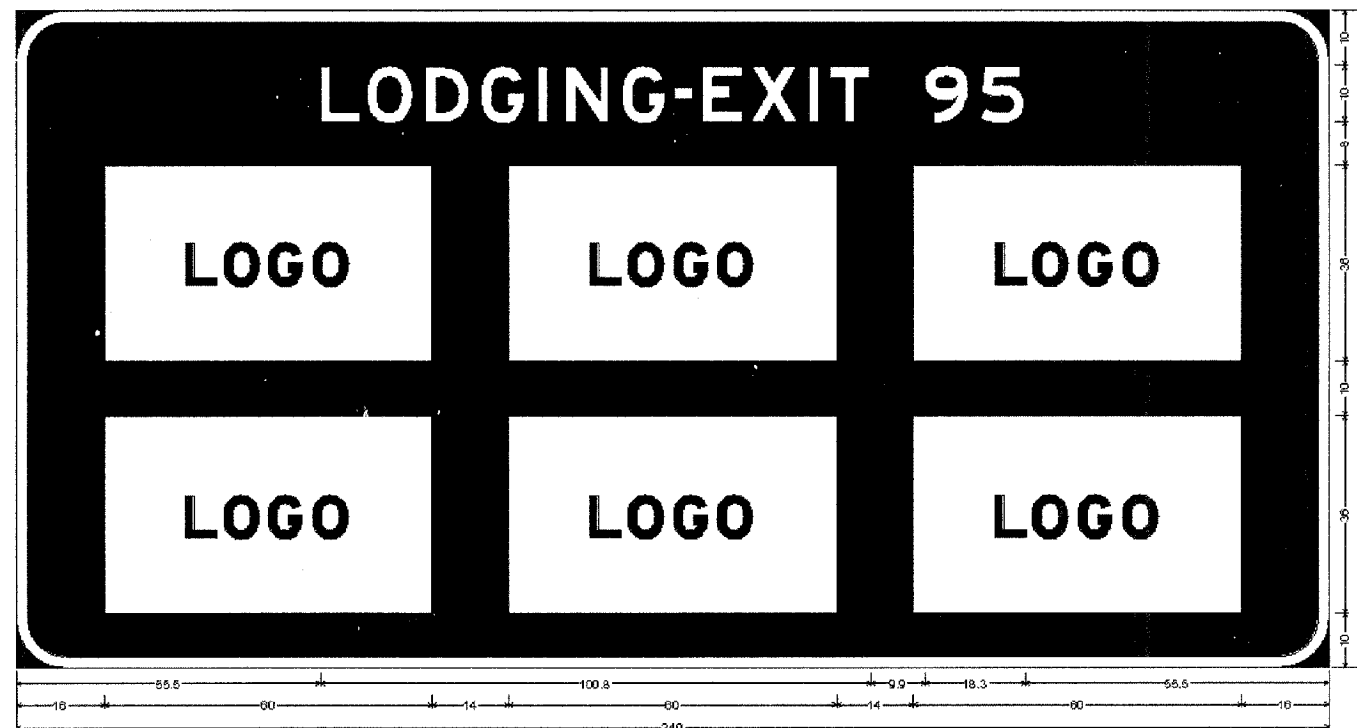
S	E	C	O	N	D	R	I	G	H	T
64.1	74.8	83.8	95.8	104.5	116.4	133.5	143.8	148.1	168.6	168.6



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USER NAME = RL

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	518	244
STA. TO STA.				
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

SIGN NO. 3  
 STA 642+00 RT  $\downarrow$  I57/I64  
 &  
 SIGN NO. 5  
 STA 658+00 RT  $\downarrow$  I57/I64



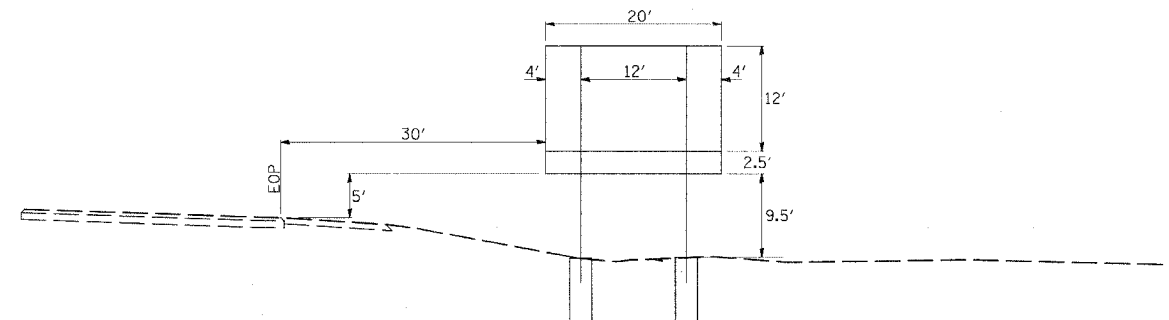
9.0" Radius, 2.0" Border, White on Blue;  
 'LODGING-EXIT 95' E Mod 2K;

Table of letter and object lefts.

L	O	D	O	I	N	G	-	E	X	I	T	9	5
55.5	64.1	74.9	85.0	95.5	100.3	110.3	120.3	125.4	134.3	145.0	148.8	160.3	176.4

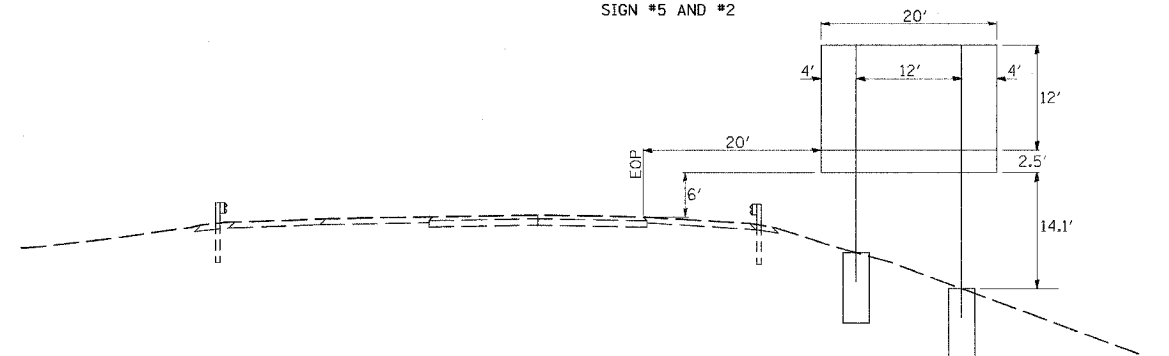
10.0	90.0	154.0
16.0	90.0	154.0

DETAIL  
 SIGN #3 AND #2



2- W12 X 26 POSTS  
 LENGTHS - 26.8 FT, 26.8 FT  
 FOUNDATIONS - 2.5' DIA., 7.9' DEEP, 1.41 CU YD EACH

DETAIL  
 SIGN #5 AND #2

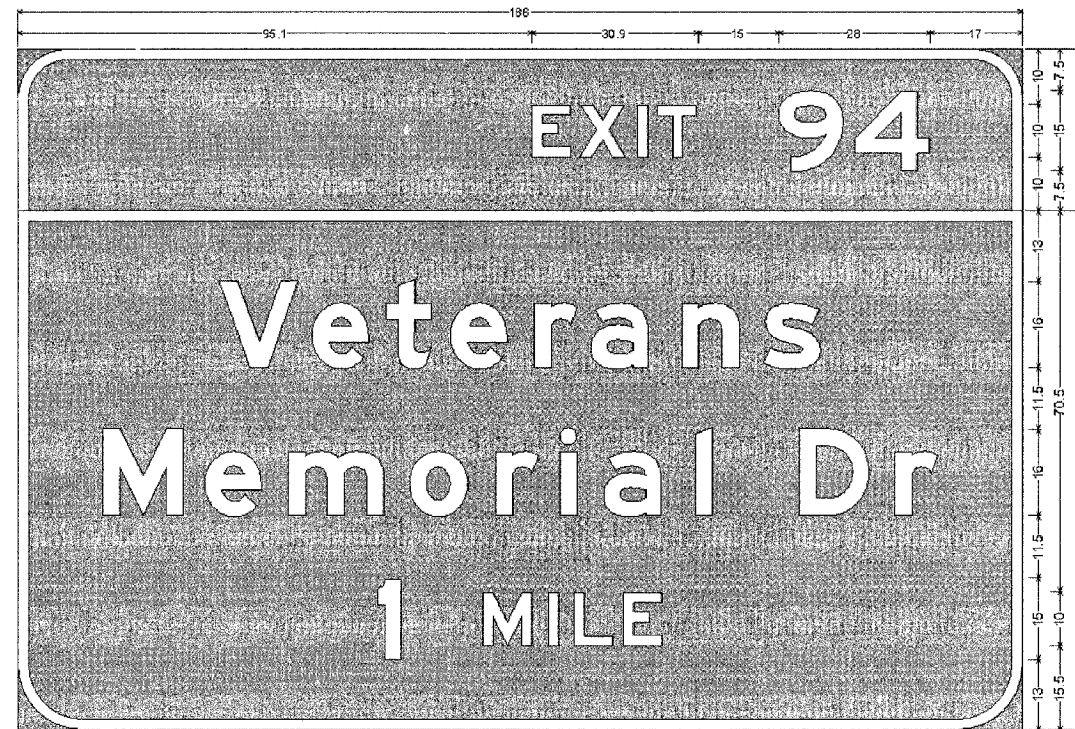


2- W14 X 38 POSTS  
 LENGTHS - 27.8 FT, 31.9 FT  
 FOUNDATIONS - 3' DIA., 8' DEEP, 2.9 CU YD EACH

SIGN NO. 6  
 STA 666+00 RT C 157/164  
 &  
 SIGN NO. 8  
 STA 682+00 RT C 157/164

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	518	249
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

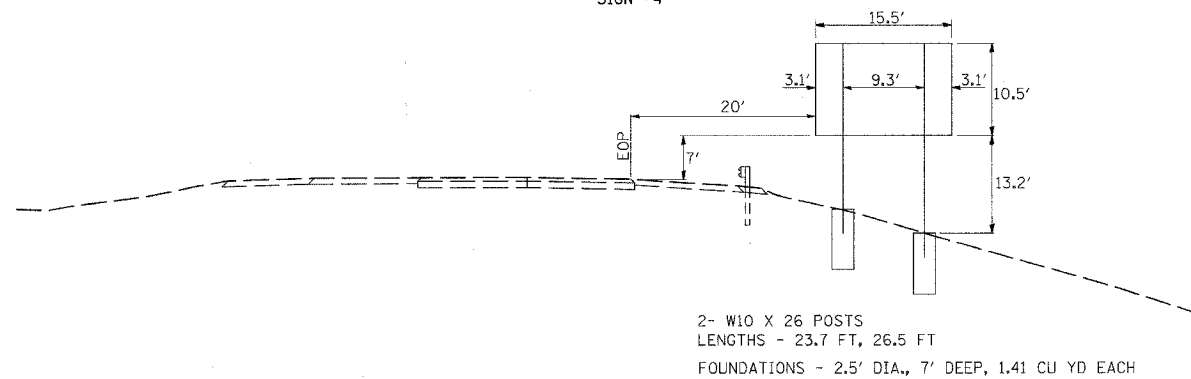
SIGN NO. 4  
 STA 650+00 RT C 157/164



9.0" Radius, 2.0" Border, White on Green;  
 "EXIT" E Mod 2K; "94" E Mod 2K;  
 12.0" Radius, 2.0" Border, White on Green;  
 "Veterans" E Mod 2K; "Memorial Dr" E Mod 2K; "1" E Mod 2K; "MILE" E Mod 2K;  
 Table of widths and spaces.

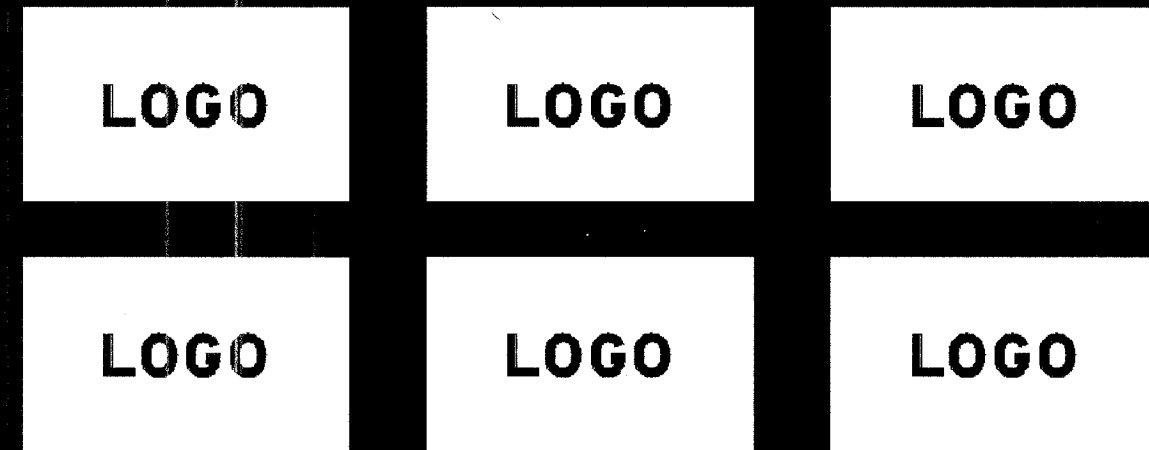
E	X	I	T	9	4		V	E	T	E	R	A	N	S		M	E	M	O	R	I	A	L	D	R		1		M	I	L	E	
95.1	17.5	1.4	8.6	2.1	2.0	1.9	7.4	15.0	12.1	2.0	13.9	17.0																					
37.3	14.8	2.5	10.5	3.3	8.3	3.6	10.6	5.0	8.0	2.4	10.5	6.4	18.5	4.8	10.5	37.3																	
15.6	14.9	4.0	10.6	5.0	17.5	5.0	10.9	5.0	8.0	3.8	3.1	5.0	10.6	5.4	3.3	15.9	13.0	4.8	8.0	15.6													
56.6	14.5	15.0	3.3	2.0	2.0	2.6	7.4	11.6	7.4	66.6																							

DETAIL  
SIGN #4



2- W10 X 26 POSTS  
 LENGTHS - 23.7 FT, 26.5 FT  
 FOUNDATIONS - 2.5' DIA., 7' DEEP, 1.41 CU YD EACH

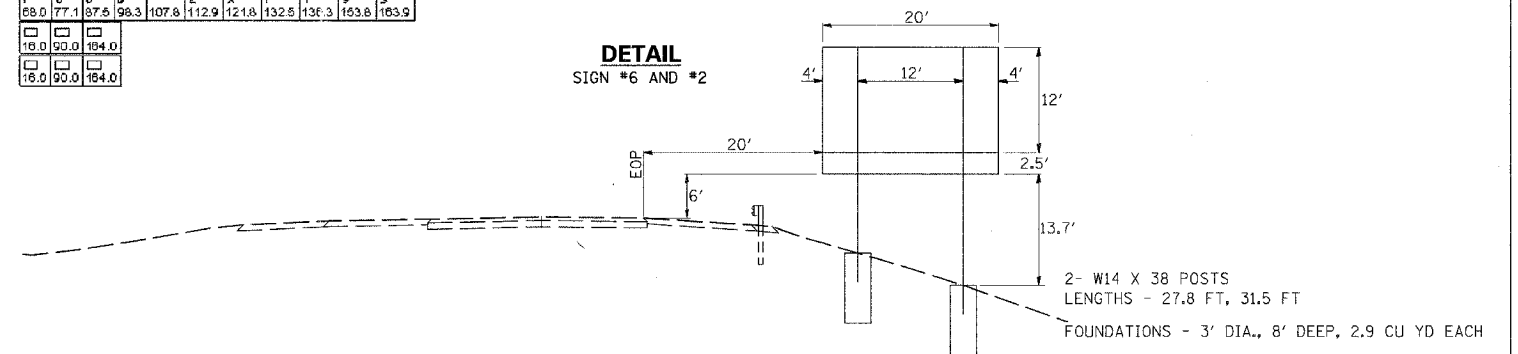
FOOD-EXIT 95



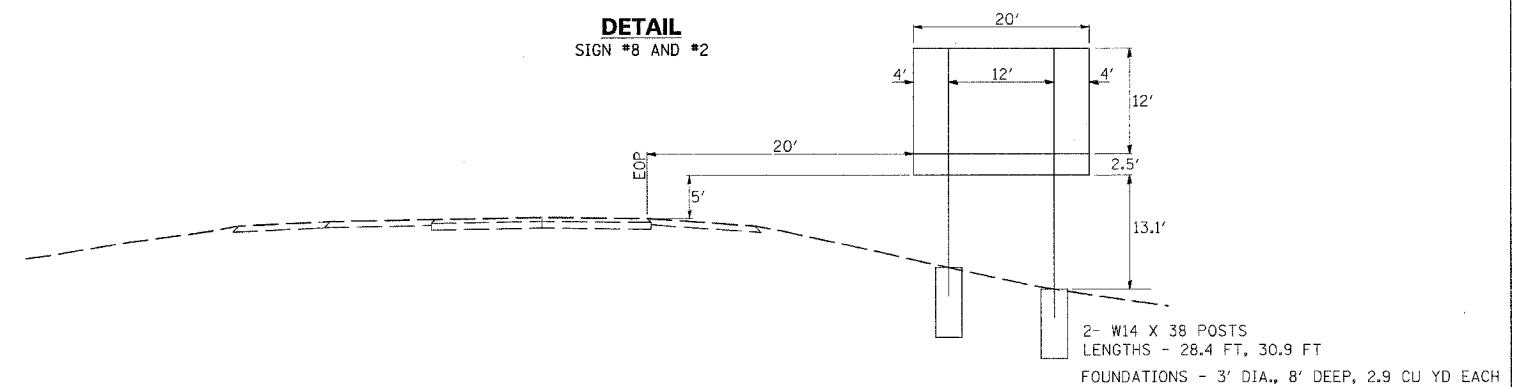
9.0" Radius, 2.0" Border, White on Blue;  
 "FOOD-EXIT 95" E Mod 2K;  
 Table of letter and object lefts.

F	O	O	D	-	E	X	I	T	9	5
68.0	77.1	87.5	98.3	107.8	112.9	121.8	132.5	136.3	153.8	163.9
16.0	90.0	164.0								
16.0	90.0	164.0								

DETAIL  
SIGN #6 AND #2



DETAIL  
SIGN #8 AND #2



F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HKB	JEFFERSON	518	246
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SIGN NO. 9  
STA 690+00 RT  $\phi$  157/164

SIGN NO. 7  
STA 674+00 RT  $\phi$  157/164

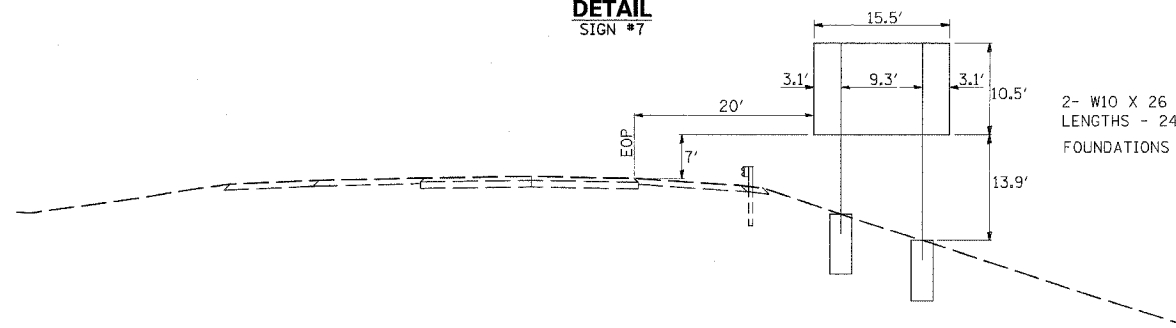


90° Radius, 2.0" Border, White on Green;  
"EXIT" E Mod 2K; "95" E Mod 2K;  
9.0" Radius, 2.0" Border, White on Green;  
"Veterans" E Mod 2K; "Memorial Dr" E Mod 2K; "1/2" E Mod 2K; "MILE" E Mod 2K;

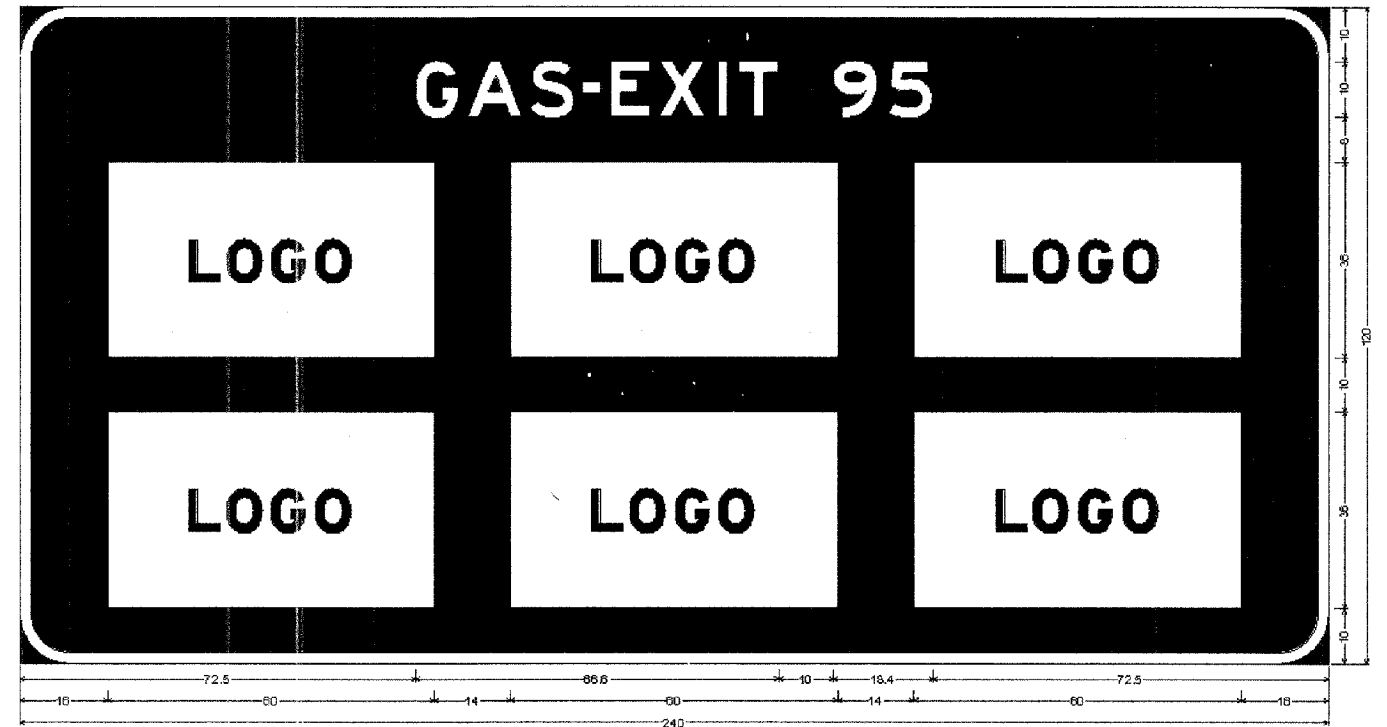
Table of letter and object lefts.

E	X	I	T	9	5				
95.8	104.5	115.4	119.1	141.5	156.9				
V	e	t	e	r	a	n	s		
37.3	54.4	68.1	80.1	95.6	105.0	123.0	139.3		
M	e	m	o	r	i	a	d	r	
15.6	34.5	50.0	72.6	88.5	100.3	108.5	125.4	144.8	162.4
1/2	M	I	L	E					
58.4	94.4	105.4	111.3	120.3					

DETAIL  
SIGN #7



2- W10 X 26 POSTS  
LENGTHS - 24.5 FT, 27.4 FT  
FOUNDATIONS - 2.5' DIA., 7' DEEP, 1.41 CU YD EACH

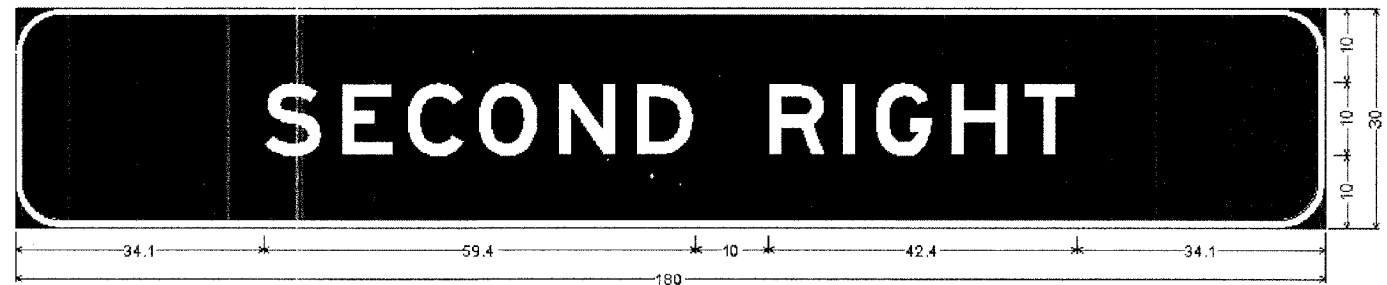


90° Radius, 2.0" Border, White on Blue;  
"GAS-EXIT 95" E Mod 2K;

Table of letter and object lefts.

G	A	S	E	X	I	T	9	5	
72.6	82.0	93.8	103.1	108.4	117.1	128.0	131.8	149.1	169.4
16.0	90.0	194.0							
16.0	90.0	194.0							

SIGN NO. 9A  
STA 690+00 RT  $\phi$  157/164

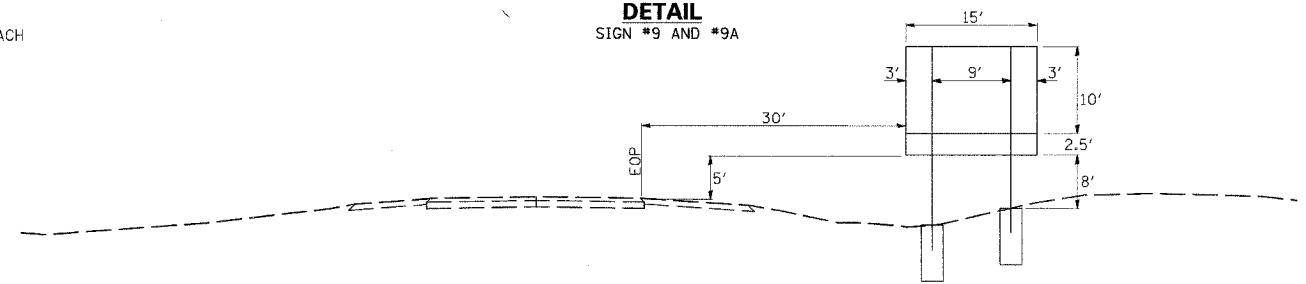


6.0" Radius, 1.0" Border, White on Blue;  
"SECOND RIGHT" E Mod 2K;

Table of letter and object lefts.

S	E	C	D	N	D	R	I	G	H	T
34.1	44.8	53.8	63.8	74.5	85.4	103.5	113.8	118.1	128.6	138.5

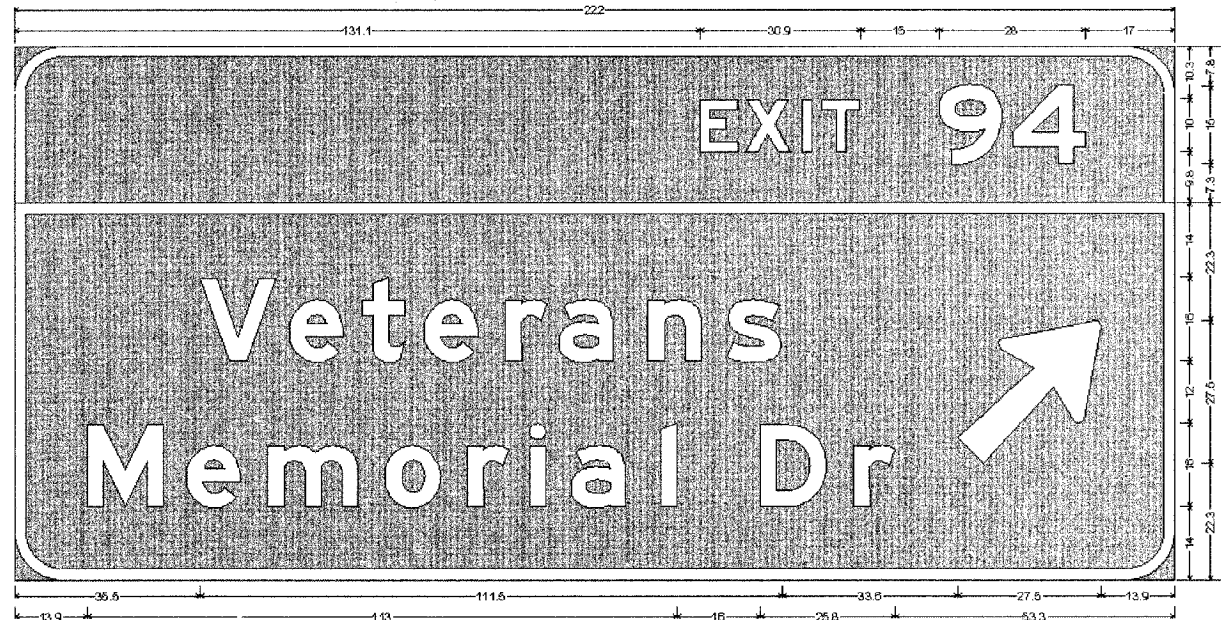
DETAIL  
SIGN #9 AND #9A



2- W10 X 22 2 POSTS  
LENGTHS - 23.4 FT, 21.4 FT  
FOUNDATIONS - 2.5' DIA., 6.5" DEEP, 1.18 CU YD EACH

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	18	247
STA. TO STA.		ILLINOIS FED. AID PROJECT		

SIGN NO. 10  
STA 700+50 RT C I57/I64  
TRUSS SIGN

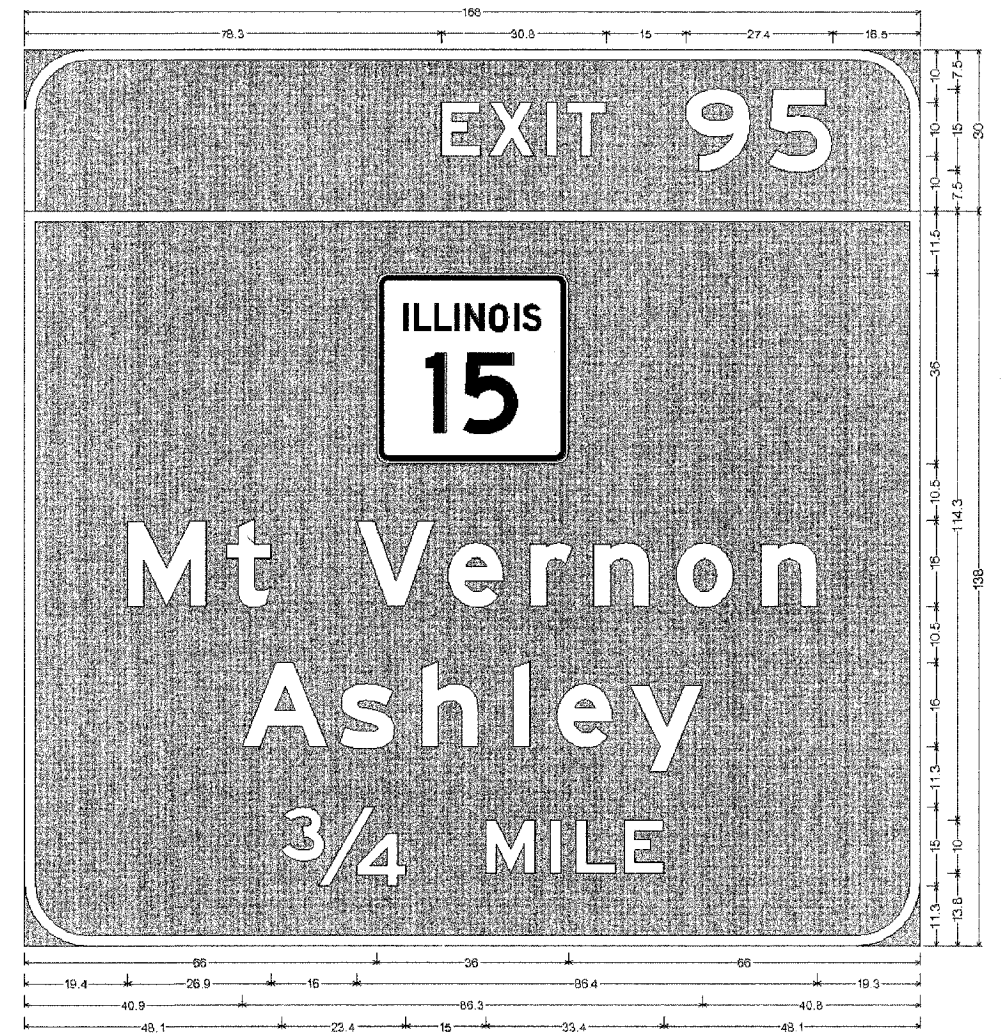


9.0" Radius, 2.0" Border, White on Green;  
"EXIT" E Mod 2K; "94" E Mod 2K;  
9.0" Radius, 2.0" Border, White on Green;  
"Veterans" E Mod 2K; "Memorial Dr" E Mod 2K;

Table of widths and spaces:

E	X	I	T	S	P	A	R	M	E	M	O	R	I	A	L	S	D	R	E
131.1	7.5	1.4	8.8	2.1	2.0	1.9	7.4	15.0	12.1	2.0	13.9	17.0							
V	14.8	2.3	10.5	3.3	8.3	3.6	10.6	5.0	6.0	2.4	10.5	6.5	10.5	4.8	10.8	33.8	27.5	13.9	
M	14.9	4.0	10.5	5.0	17.8	5.0	10.9	4.9	8.0	3.9	3.1	5.0	10.5	5.5	3.1	18.0	13.0	4.8	8.0
																			53.4

SIGN NO. 11  
STA 700+50 RT C I57/I64  
TRUSS SIGN

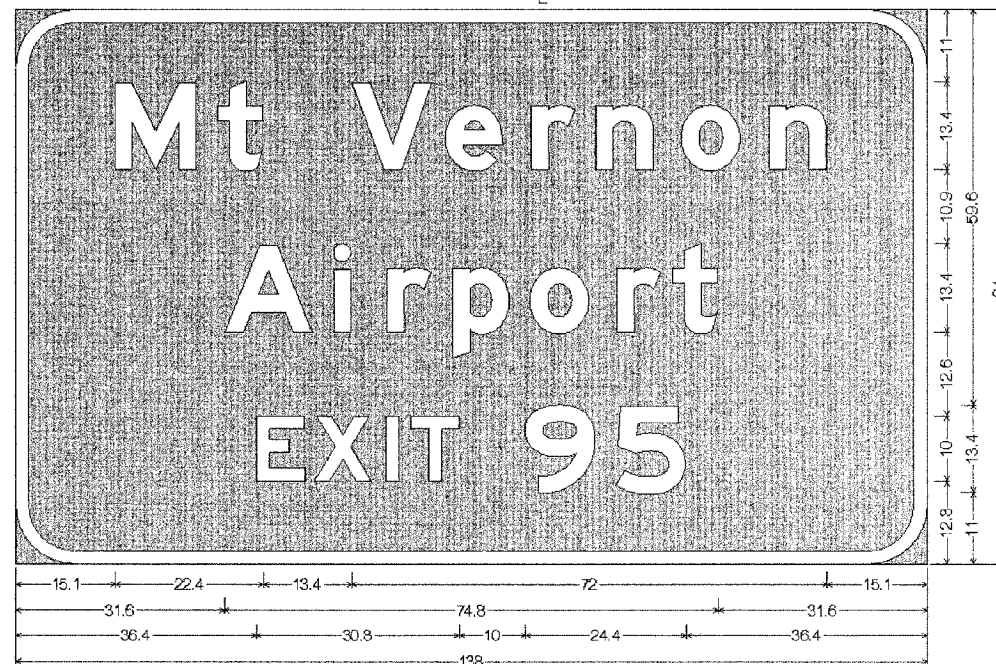


12.0" Radius, 2.0" Border, White on Green;  
"EXIT" E Mod 2K; "95" E Mod 2K;  
12.0" Radius, 2.0" Border, White on Green;  
"Mt Vernon" E Mod 2K; "Ashley" E Mod 2K; "3/4" E Mod 2K; "MILE" E Mod 2K;

Table of widths and spaces:

E	X	I	T	S	P	A	R	M	E	M	O	R	I	A	L	S	D	R	E
78.3	7.4	1.4	8.6	2.1	2.0	1.9	7.4	15.0	12.1	2.0	13.9	17.0							
V	14.9	3.6	8.4	16.0	14.8	2.5	10.5	5.0	6.0	3.9	10.5	5.0	10.5	4.9	10.5	19.4			
M	14.9	4.0	10.5	5.0	17.8	5.0	10.9	4.9	8.0	3.9	3.1	5.0	10.5	5.5	3.1	18.0	13.0	4.8	8.0
																			53.4

SIGN NO. 12  
STA 716+00 LT C I57/I64

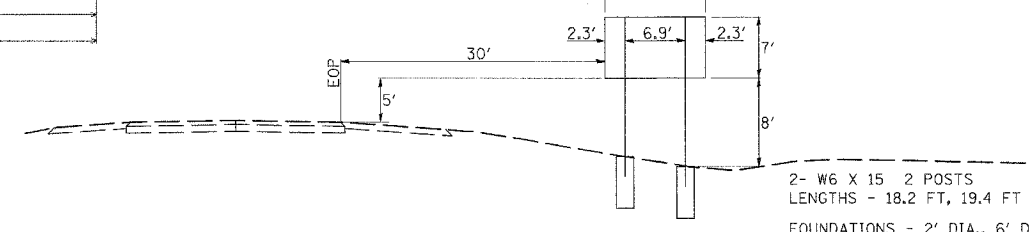


9.0" Radius, 2.0" Border, White on Green;  
"Mt Vernon" E Mod 2K; "Airport" E Mod 2K; "EXIT" E Mod 2K; "95" E Mod 2K;

Table of widths and spaces:

M	V	A	I	R	P	O	R	I	A	L	S	D	R	E
15.1	12.4	3.1	6.9	13.4	12.3	1.9	8.9	4.1	6.6	3.3	8.8	4.1	9.0	4.1
A	13.6	3.1	2.8	6.3	6.6	3.3	8.8	2.9	9.0	4.1	6.8	1.6	7.0	31.6
E	7.4	1.4	8.8	2.0	2.0	1.8	7.4	10.0	10.8	2.8	10.8	36.4		

DETAIL  
SIGN #12



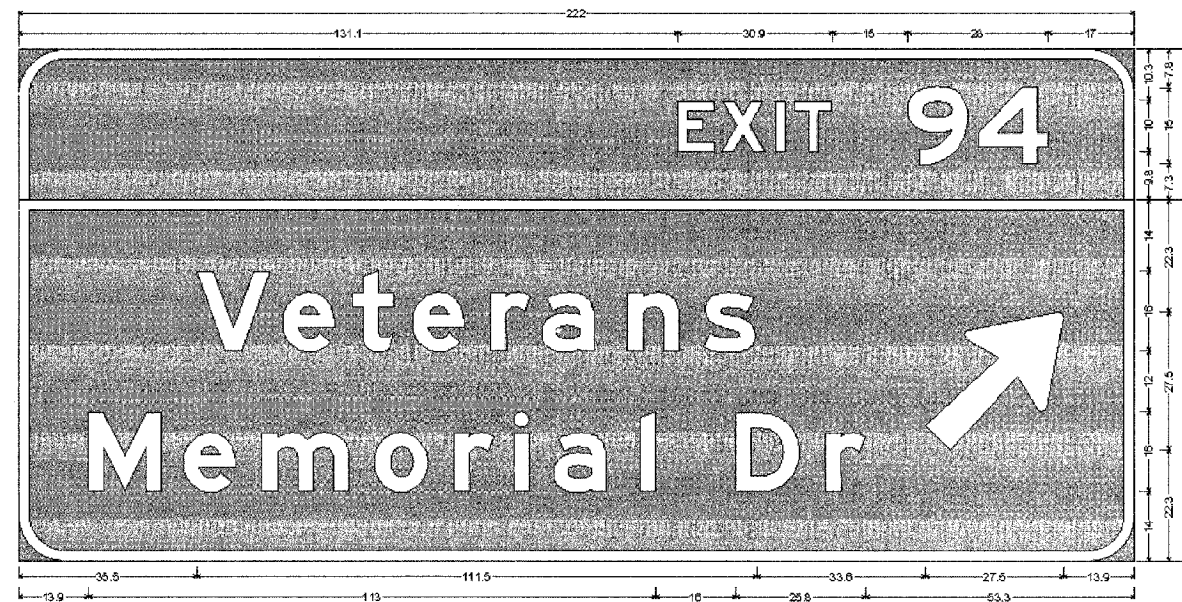
2- W6 X 15 2 POSTS  
LENGTHS - 18.2 FT, 19.4 FT  
FOUNDATIONS - 2' DIA., 6' DEEP, 0.70 CU YD EACH

PLOT DATE = 8/31/2007 10:15 AM  
FILE NAME = I:\98\pba\98a\201\DOT\RAVPS\0182506.dgn  
PLOT SCALE = 50.0000 / IN.  
USER NAME = Kest



F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	518	248
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SIGN NO. 13  
STA 740+40 LT C I57/164  
TRUSS SIGN



9.0" Radius, 2.0" Border, White on Green;  
"EXIT" E Mod 2K; "94" E Mod 2K;  
9.0" Radius, 2.0" Border, White on Green;  
"Veterans" E Mod 2K; "Memorial Dr" E Mod 2K;

Table of widths and spaces:

131.1	17.5	1.4	6.8	2.1	2.0	1.9	7.4	15.0	12.1	2.0	13.9	17.0								
35.6	14.8	2.3	10.2	3.3	6.3	3.6	10.6	6.0	5.0	2.4	10.6	6.6	10.5	4.6	10.6	33.9	27.5	13.9		
13.9	14.9	4.0	10.6	6.0	17.0	5.0	10.9	4.9	6.0	3.9	3.1	6.0	10.6	6.6	3.1	16.0	13.0	4.6	6.0	63.4

SIGN NO. 14  
STA 740+40 LT C I57/164  
TRUSS SIGN



12.0" Radius, 2.0" Border, White on Green;  
"NORTH" E Mod 2K; "WEST" E Mod 2K; "Effingham" E Mod 2K; "East St Louis" E Mod 2K;  
12.0" Radius, 2.0" Border, White on Green;  
"SOUTH" E Mod 2K; "EAST" E Mod 2K; "Cairo" E Mod 2K; "Evansville" E Mod 2K;

Table of letter and object lets:

109.2	6.2	5.1	2.8	2.6	2.0	2.0	14.9	12.1	12.1	116.2																								
60.4	26.0	19.3	2.0	12.8	12.9	12.4																												
16.6	14.8	2.1	10.9	4.9	10.6	6.4	2.1	4.8	10.5	2.1	2.4	4.4	2.2	6.4	2.1	6.3	2.1	3.0	30.3	24.0	12.0	4.0	10.3	3.0	17.2	6.3	10.3	3.0	10.3	4.3	2.1	4.4	10.6	16.8
82.1	2.4	2.4	8.1	1.2	7.4	14.9	4.3	6.0	22.4	15.0	9.3	2.8	2.0	2.8	7.4	1.4	4.4	1.8	8.1	82.1														

PLOT DATE = 03/21/2007 10:01 AM  
FILE NAME = I:\98jobs\982079s\DOT RAMPS\982079s.dgn  
PLOT SCALE = 50.000000 / 1 IN.  
USER NAME = Ket

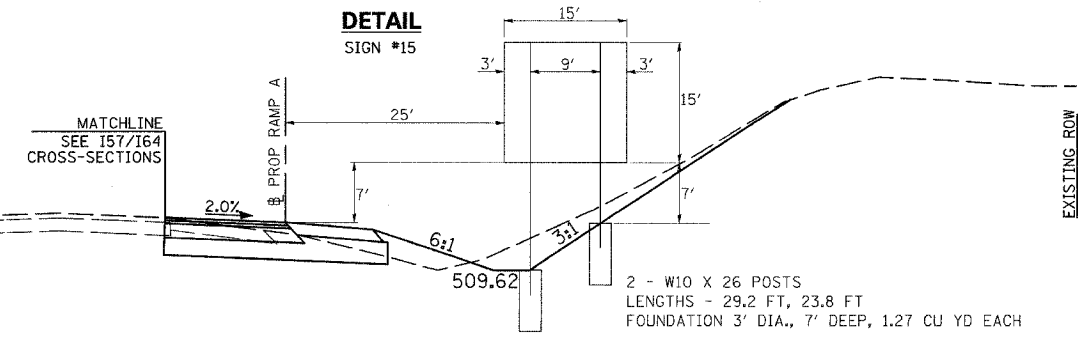
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	518	249
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SIGN NO. 15  
STA 322+00 RT B RAMP A



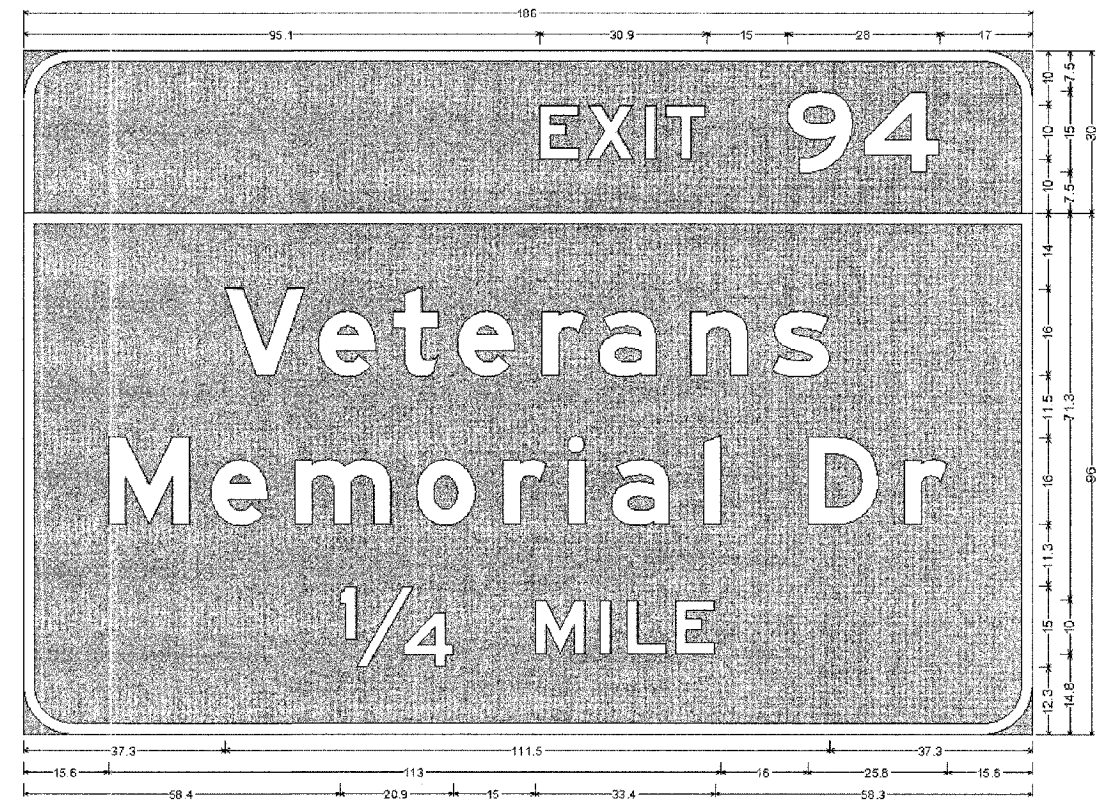
12.0" Radius, 2.0" Border, White on Green;  
 "EXIT" E Mod 2K; "95" E Mod 2K;  
 12.0" Radius, 2.0" Border, White on Green;  
 "Mt Vernon" E Mod 2K; "Ashley" E Mod 2K; "V" E Mod 2K; "MILE" E Mod 2K;  
 Table of widths and spaces.

E	X	I	T	S
78.3	7.4	1.4	5.6	2.1
2.0	1.9	7.4	15.0	12.1
3.1	12.3	18.4		
66.0 35.0 88.0				
M	t	V	e	r
19.4	14.9	3.6	3.4	16.0
14.6	2.5	10.5	5.0	3.0
3.9	10.5	6.0	10.9	4.8
10.6	19.4			
A	s	h	l	y
40.9	16.1	2.1	10.6	5.0
10.5	6.4	3.3	4.9	10.6
3.3	13.5	40.9		
1/4	M	I	L	E
48.1	20.9	18.0	9.4	2.8
1.9	2.9	7.4	1.5	7.4
48.3				



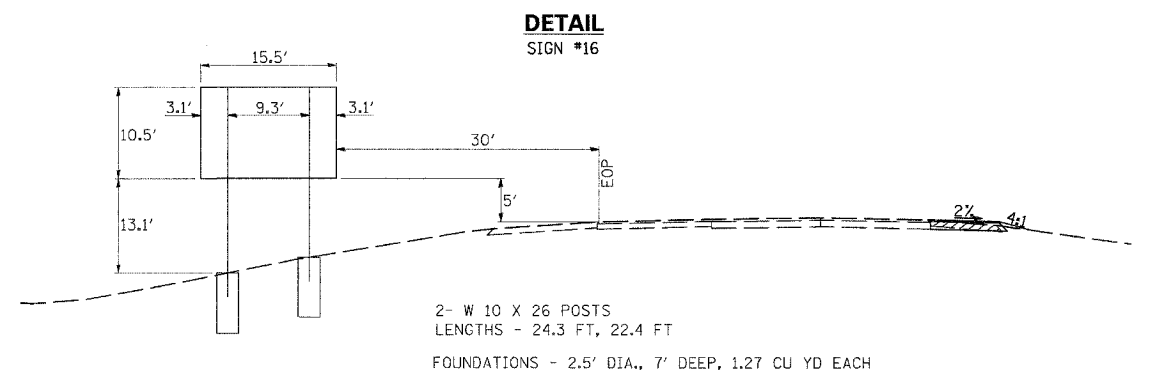
2 - W10 X 26 POSTS  
 LENGTHS - 29.2 FT, 23.8 FT  
 FOUNDATION 3' DIA., 7' DEEP, 1.27 CU YD EACH

SIGN NO. 16  
STA 759+00 LT C 157/164



9.0" Radius, 2.0" Border, White on Green;  
 "EXIT" E Mod 2K; "94" E Mod 2K;  
 9.0" Radius, 2.0" Border, White on Green;  
 "Veterans Memorial Dr" E Mod 2K; "MILE" E Mod 2K;  
 Table of letter and object lists.

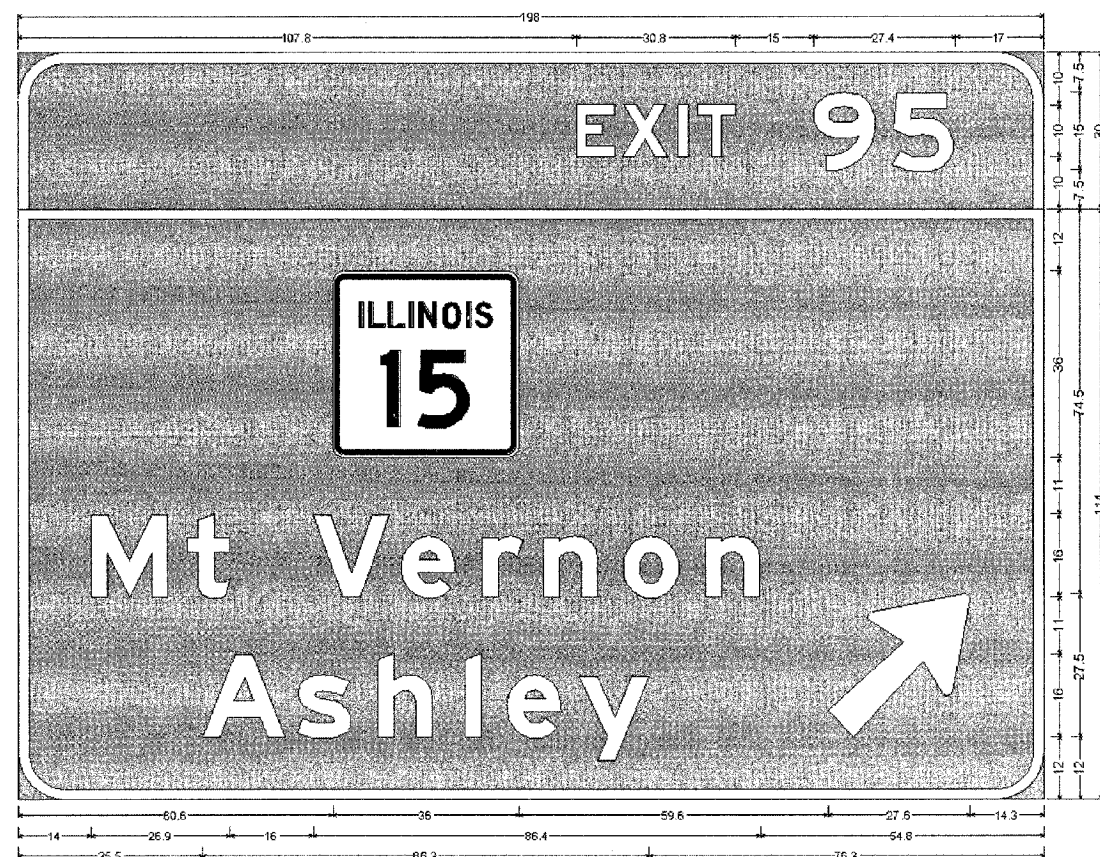
E	X	I	T	S
95.8	104.5	115.4	119.1	141.5
156.9				
V	e	r	e	t
37.3	54.4	68.1	80.1	95.6
106.0	123.0	138.3		
M	e	m	o	r
15.6	24.5	50.0	72.6	89.5
100.3	109.5	125.4	144.8	162.4
1/4	M	I	L	E
58.4	94.4	106.4	111.3	120.3



2 - W 10 X 26 POSTS  
 LENGTHS - 24.3 FT, 22.4 FT  
 FOUNDATIONS - 2.5' DIA., 7' DEEP, 1.27 CU YD EACH

PLOT DATE = 03/21/2007 10:05 AM  
 FILE NAME = I:\98963\98963.dwg  
 PLOT SCALE = 1/8" = 1'-0"  
 USER NAME = hgt

SIGN NO. 17  
 STA 789+15 LT  $\phi$  I57/I64  
 PLACE ON EXISTING TRUSS



9.0" Radius, 2.0" Border, White on Green;  
 \*EXIT\* E Mod 2K; \*95\* E Mod 2K;  
 9.0" Radius, 2.0" Border, White on Green;  
 \*Mt Vernon\* E Mod 2K; \*Ashley\* E Mod 2K;  
 Table of letter and object lifts.

E	X	I	T	9	5		
107.8	118.5	127.4	131.1	153.5	168.3		
ILLINOIS							
15							
M	V	A	S	H	L	E	
14.0	32.5	58.9	74.0	89.5	101.4	118.9	132.8
A	S	H	L	E	Y		
35.5	53.8	69.3	86.3	94.4	108.1		

SIGN NO. 18  
 STA 789+15 LT  $\phi$  I57/I64  
 PLACE ON EXISTING TRUSS

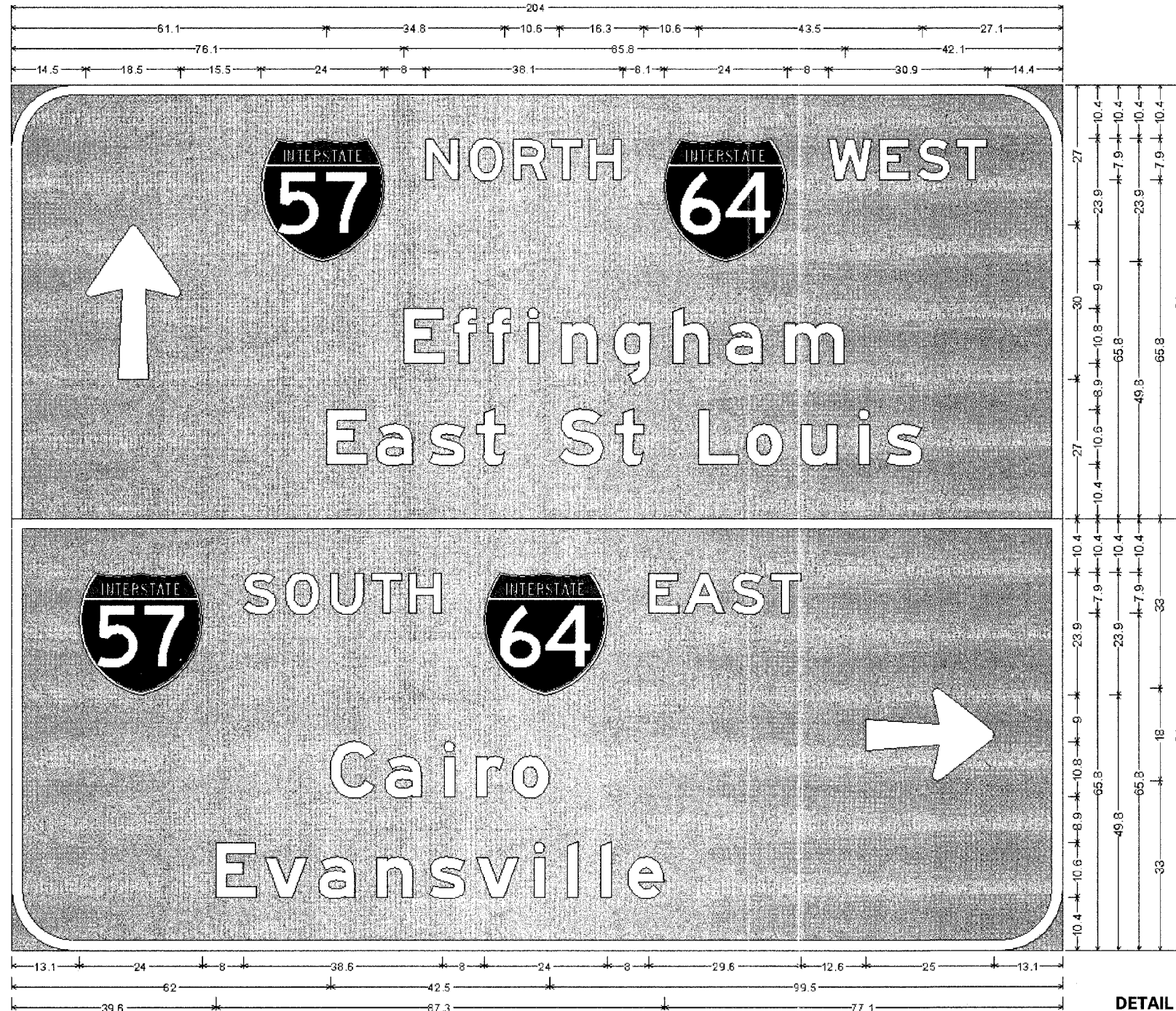


6.0" Radius, 2.0" Border, White on Green;  
 \*EXIT\* E Mod 2K; \*94\* E Mod 2K;  
 9.0" Radius, 2.0" Border, White on Green;  
 \*Veterans\* E Mod 2K; \*Memorial Dr\* E Mod 2K; \*3/4\* E Mod 2K; \*MILE\* E Mod 2K;  
 Table of letter and object lifts.

E	X	I	T	9	4				
101.1	110.0	120.8	124.5	147.0	161.0				
V	E	T	E	R	A	N	D	R	
40.3	57.4	71.1	83.1	98.6	109.0	126.0	141.3		
M	E	M	O	R	I	A	L	D	R
18.6	37.5	53.0	75.6	91.5	103.3	111.5	128.4	147.8	165.4
3/4	M	I	L	E					
60.1	99.5	110.6	115.4	124.4					

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	141-31HBK	JEFFERSON	518	251
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SIGN NO. 19  
STA 43+00 RT CL VETERANS MEMORIAL DR

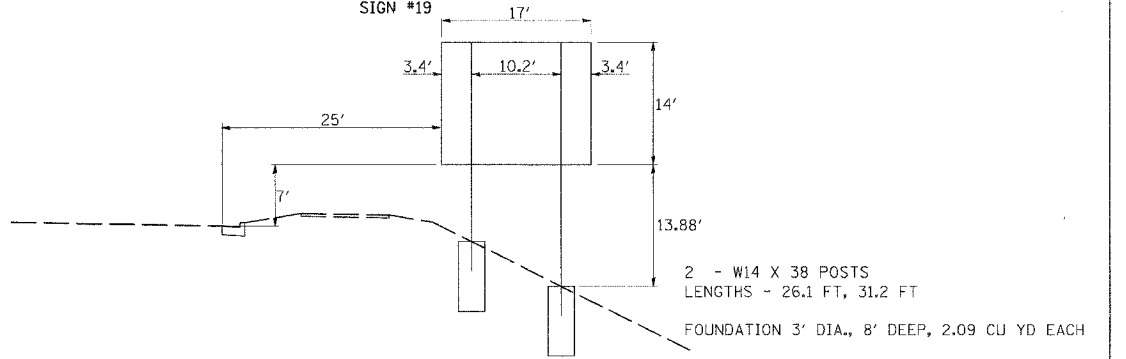


12.0" Radius, 2.0" Border, White on Green;  
 "NORTH" E Mod 2K; "WEST" E Mod 2K; "Effingham" E Mod 2K; "East St Louis" E Mod 2K;  
 12.0" Radius, 2.0" Border, White on Green;  
 "SOUTH" E Mod 2K; "EAST" E Mod 2K; "Cairo" E Mod 2K; "Evansville" E Mod 2K;

Table of letter and object lefts

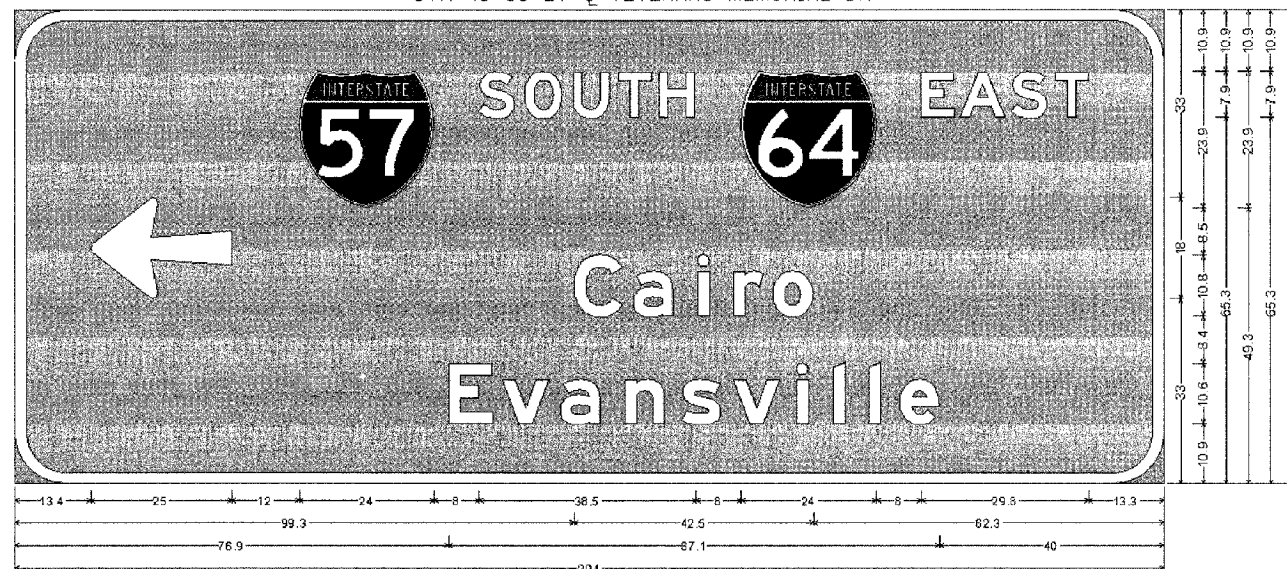
Q	N	O	R	T	H	W	E	S	T
14.5	48.5	80.5	88.9	97.5	104.9	112.3	126.6	168.6	176.0
E	I	I	I	I	I	I	I	I	I
76.1	85.9	92.6	100.4	106.8	117.1	126.5	136.8	150.1	
E	A	S	T	S	T	L	O	U	S
61.1	71.0	81.1	90.3	106.5	117.3	133.5	142.8	153.3	164.6
S	O	U	T	H	E	A	S	T	
13.1	45.1	53.3	61.9	69.9	77.3	91.8	123.8	130.5	139.8
C	A	I	R	O					
62.0	72.6	84.0	90.4	97.3					
E	V	A	N	S	V	I	I	O	
39.6	49.3	59.6	70.9	81.1	90.3	101.5	108.0	114.4	119.8

DETAIL



PLOT DATE = 09/21/2007 10:15 AM  
 FILE NAME = I:\98963\98963\11001\RA\PS\4103506.dgn  
 USER NAME = KAC

SIGN NO. 20  
STA 45+35 LT Q VETERANS MEMORIAL DR



9.0" Radius, 2.0" Border, White on Green;  
"SOUTH" E Mod 2K; "EAST" E Mod 2K; "Cairo" E Mod 2K; "Evansville" E Mod 2K;

Table of letter and object lefts.

S	O	U	T	H	E	A	S	T			
13.4	50.4	82.4	90.5	99.1	107.1	114.5	129.0	161.0	167.8	177.0	184.8

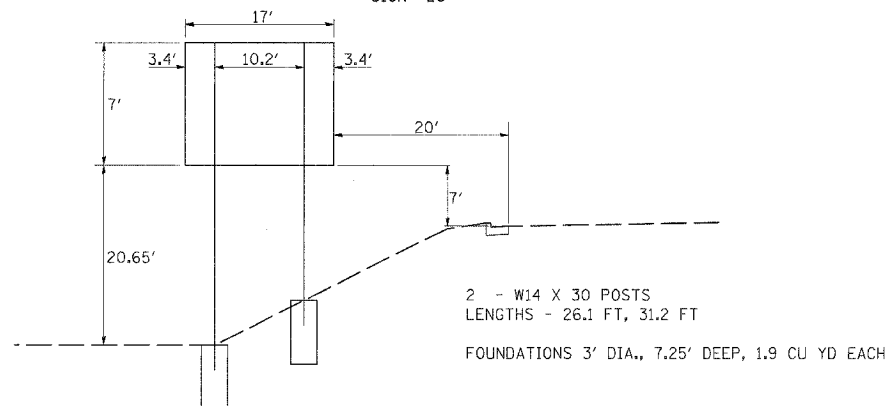
  

C	a	r	o	
99.3	109.9	121.3	127.5	134.5

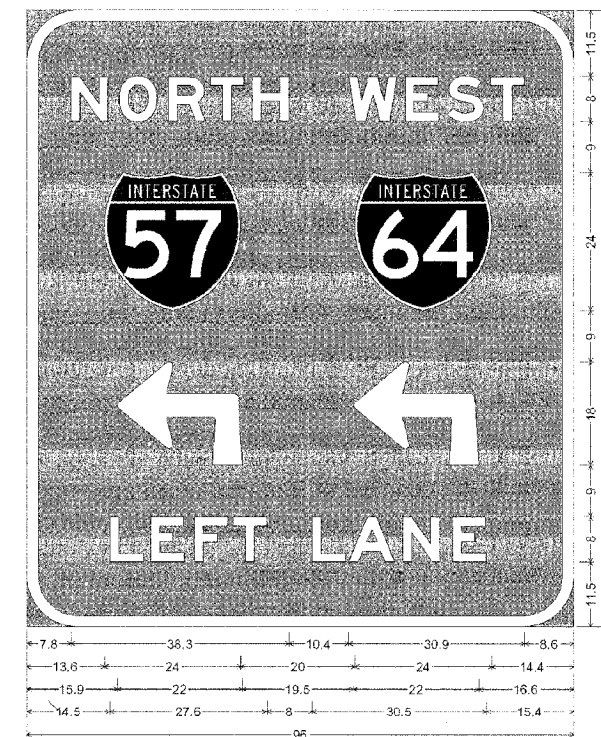
  

E	v	a	n	s	v	i	l	e	
76.9	86.5	95.9	108.1	118.4	127.5	138.8	145.3	151.6	157.0

DETAIL  
SIGN #20



SIGN NO. 21  
STA 47+70 RT Q VETERANS MEMORIAL DR



9.0" Radius, 2.0" Border, White on Green;  
"NORTH" E Mod 2K; "WEST" E Mod 2K; 90 Deg Advanced Turn Arrow 22.0" X 18.0";  
90 Deg Advanced Turn Arrow 22.0" X 18.0"; "LEFT LANE" E Mod 2K;

Table of widths and spaces.

N	O	R	T	H	W	E	S	T										
7.8	6.5	1.9	6.8	1.9	6.4	0.9	5.9	1.5	6.4	10.5	8.5	1.5	5.9	1.4	6.5	1.1	6.0	8.6

13.6	24.0	20.0	24.0	14.4
------	------	------	------	------

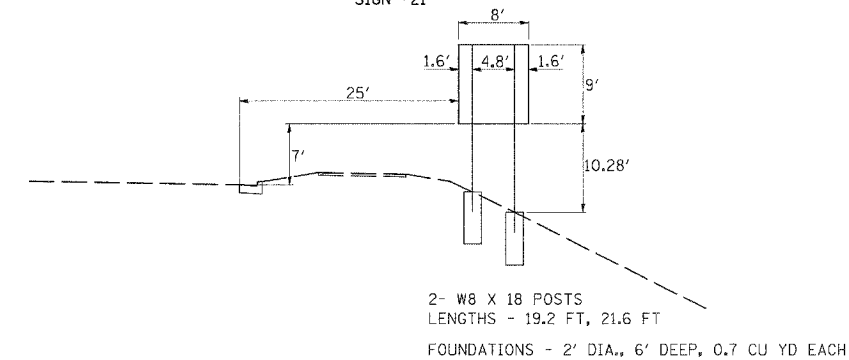
  

15.9	22.0	19.5	22.0	16.6
------	------	------	------	------

L	E	F	T	L	A	N	E									
14.5	6.0	1.3	5.9	1.6	6.0	0.9	5.9	8.0	5.9	0.5	8.0	1.5	6.5	2.3	5.9	15.3

DETAIL  
SIGN #21



F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON		25-3
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

**GENERAL NOTES**

DESIGN: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. ("AASHTO Specifications")

CONSTRUCTION: Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Special Provisions. ("Standard Specifications")

LOADING: 90 M.P.H. WIND VELOCITY

WIND LOADING: 30 p.s.f. normal to Sign Panel Area and truss elements not behind sign Loading Diagram.

WALKWAY LOADING: Dead load plus 500 lbs. concentrated live load.

DESIGN STRESSES:  
Field Units  
f<sub>c</sub> = 3,500 p.s.i.  
f<sub>y</sub> = 60,000 p.s.i. (reinforcement)

WELDING: All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 and D1.2 Structural Welding Codes (Steel and Aluminum) and the Standard Specifications.

MATERIALS: Aluminum Alloys as shown throughout plans. All Structural Steel Pipe shall be ASTM A53 Grade B with a minimum yield of 35,000 p.s.i., or A500 Grade B or C with a minimum yield of 46,000 p.s.i. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53.

All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 or Gr. 50W\*. Stainless steel for shims, sleeves and handhole covers shall be ASTM A240, Type 302 or 304, or another alloy suitable for exterior exposure and acceptable to the Engineer. The steel pipe and stiffening ribs at the base plate for the column shall have a minimum longitudinal Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F. (Zone 2) before galvanizing.

FASTENERS FOR ALUMINUM TRUSSES: All bolts noted as "high strength" must satisfy the requirements of AASHTO M164 (ASTM A325), or approved alternate, and must have matching lock nuts. Threaded studs for splices (if Members interfere) must satisfy the requirements of ASTM A449, ASTM A193, Grade B7, or approved alternate, and must have matching lock nuts. Bolts and lock nuts not required to be high strength must satisfy the requirements of ASTM A307. All bolts and lock nuts must be hot dip galvanized per AASHTO M232. The lock nuts must have nylon or steel inserts. A stainless steel flat washer conforming to ASTM A240 Type 302 or 304, is required under both head and nut or under both nuts where threaded studs are used. High strength bolt installation shall conform to Article 505.04 (f) (2)d of the IDOT Standard Specifications for Road and Bridge Construction. Rotational capacity ("ROCAP") testing of bolts will not be required.

U-BOLTS AND EYEBOLTS: U-Bolts and Eyebolts must be produced from ASTM A276 Type 304, 304L, 316 or 316L, Condition A, cold finished stainless steel, or an equivalent material acceptable to the Engineer. All nuts for U-Bolts and Eyebolts must be lock nuts equivalent to ASTM A307 with nylon or steel inserts and hot dip galvanized per AASHTO M232. A stainless steel flat washer conforming to ASTM A240, Type 302 or 304, is required under each U-Bolt and Eyebolt lock nut.

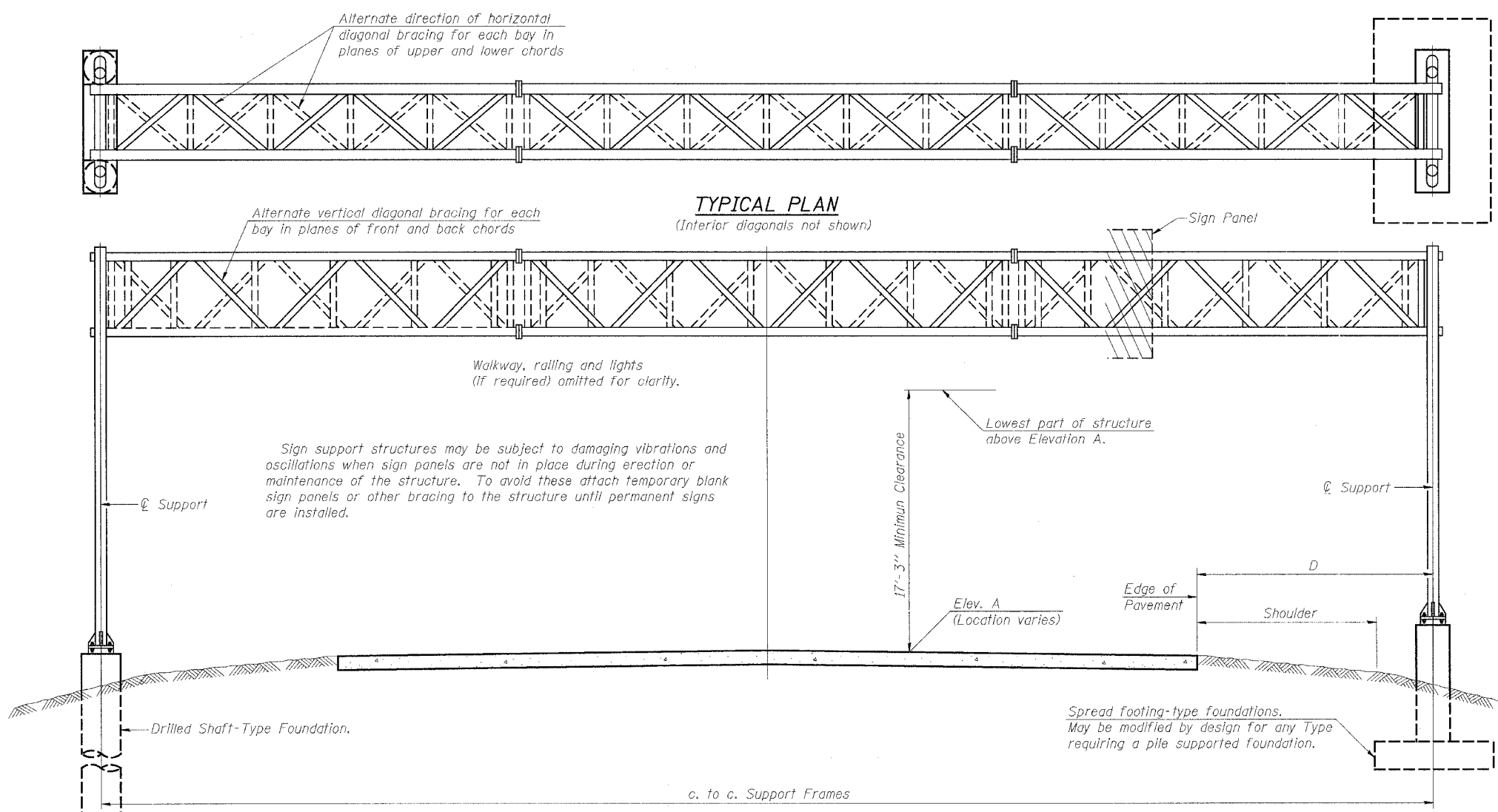
GALVANIZING: All Steel Grating, Plates, Shapes and Pipe shall be Hot Dip Galvanized after fabrication in accordance with AASHTO M111. Painting is not permitted.

ANCHOR RODS: Shall conform to AASHTO M314 Gr. 36 or 55 with a minimum Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F.

CONCRETE SURFACES: All concrete surfaces above an elevation 6" below the lowest final ground line at each foundation shall be cleaned and coated with Bridge Seat Sealer in accordance with the Standard Specifications.

REINFORCEMENT BARS: Reinforcement Bars designated (E) shall be epoxy coated in accordance with the Standard Specifications.

\* If M270 Gr. 50W (M222) steel is proposed, chemistry for plate to be used shall first be approved by the Engineer as suitable for galvanizing and welding.



**TYPICAL ELEVATION**

(Looking at Face of Signs)\*\*

Elev. A = Elevation at point of minimum clearance to sign, walkway support or truss.

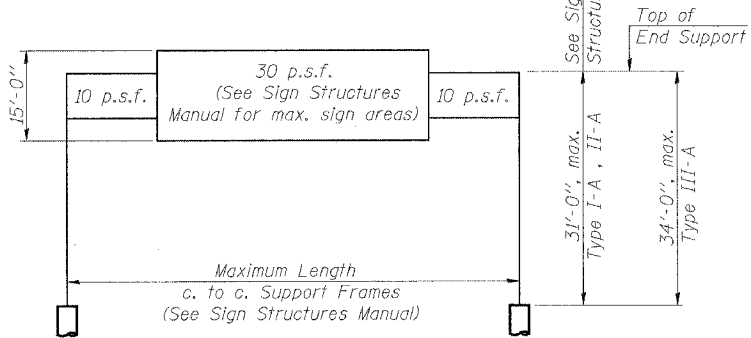
Structure Number	Station	Design Truss Type	c. to c. Supports	Elev. A	Dim. D	Height of Tallest Sign	Total Sign Area
9S0411057R093.3	700+50	I-A	82	499.06*	17.5' (RT) 35.0' (LT)	14'-0"	353.25
9S0411057L094.0	700+40	I-A	91	514.54*	22.5' (RT) 16.4' (LT)	12'-0"	457.25

\*\*Looking upstation for structures with signs both sides.  
\* ELEVATION A IS THE CENTER LINE PLUS 1' IN ANTICIPATION OF A FUTURE RUBBLIZATION PROJECT

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE SPAN TYPE I-A (4'-0" X 4'-6")	Foot	173
OVERHEAD SIGN STRUCTURE WALKWAY TYPE A	Foot	86
CONCRETE FOUNDATIONS	Cu. Yds.	74

NUMBER	REVISION	DATE



**DESIGN WIND LOADING DIAGRAM**

Parameters shown are basis for I.D.O.T. Standards and Sign Manual Tables. Installations not within dimensional limits shown require special analysis for all components.

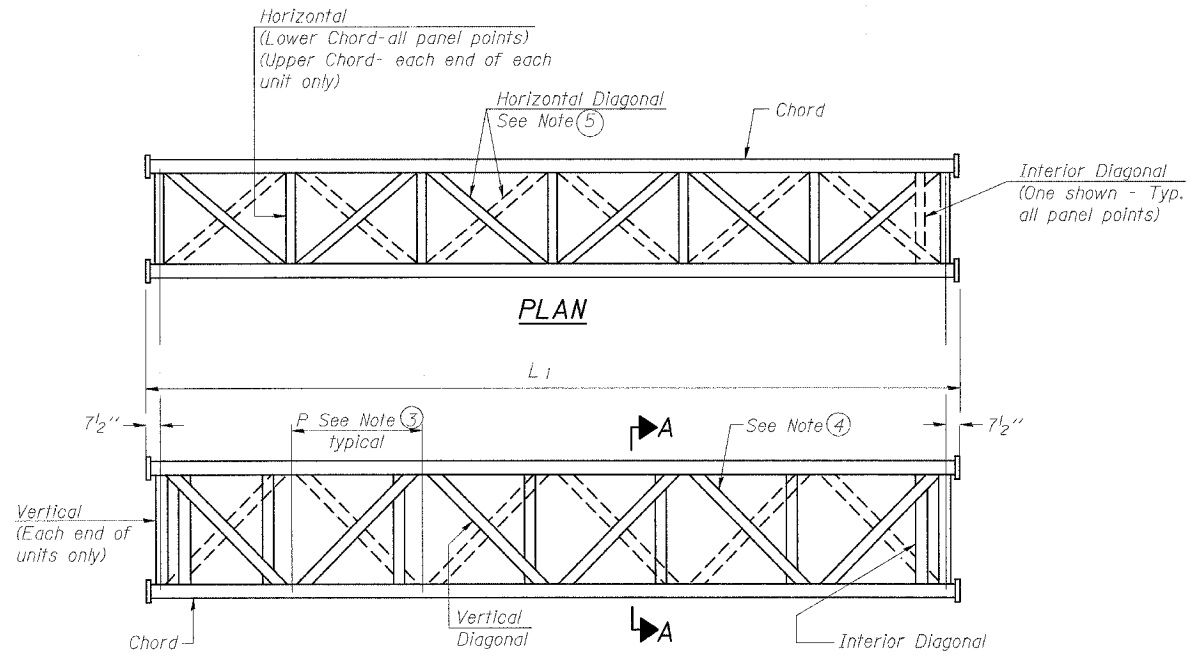
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**OVERHEAD SIGN STRUCTURES  
GENERAL PLAN & ELEVATION  
ALUMINUM TRUSS & STEEL SUPPORTS**

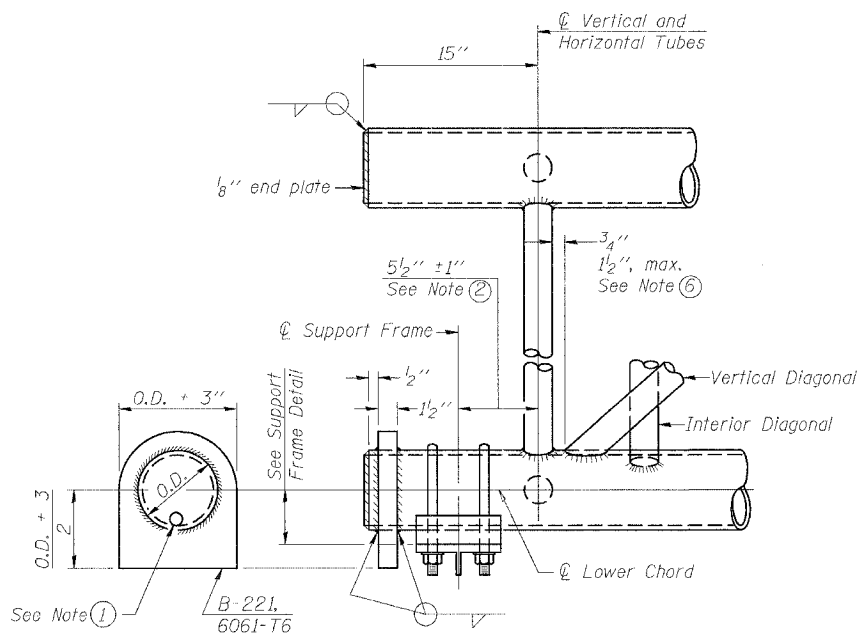
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HORIZ. DATE  
DRAWN BY  
CHECKED BY

PLOT DATE = 5/11/2007  
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 PLOT SCALE = 5/8"=1'-0"  
 USER NAME = rjones10f

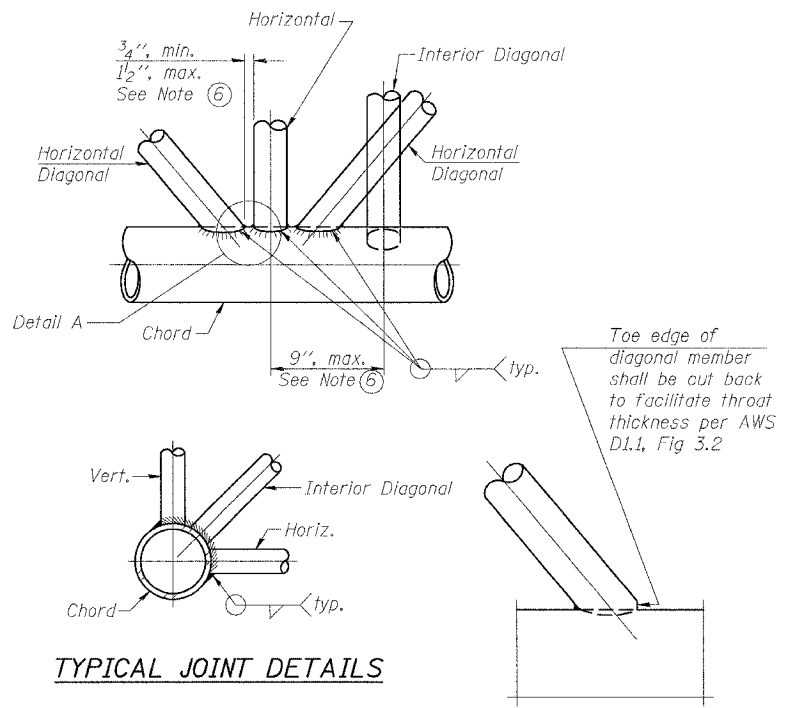
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON		254
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



**ELEVATION  
TYPICAL INTERIOR UNIT**  
Even number of panels/interior unit required.



**SUPPORT END DETAIL FOR EXTERIOR UNIT**

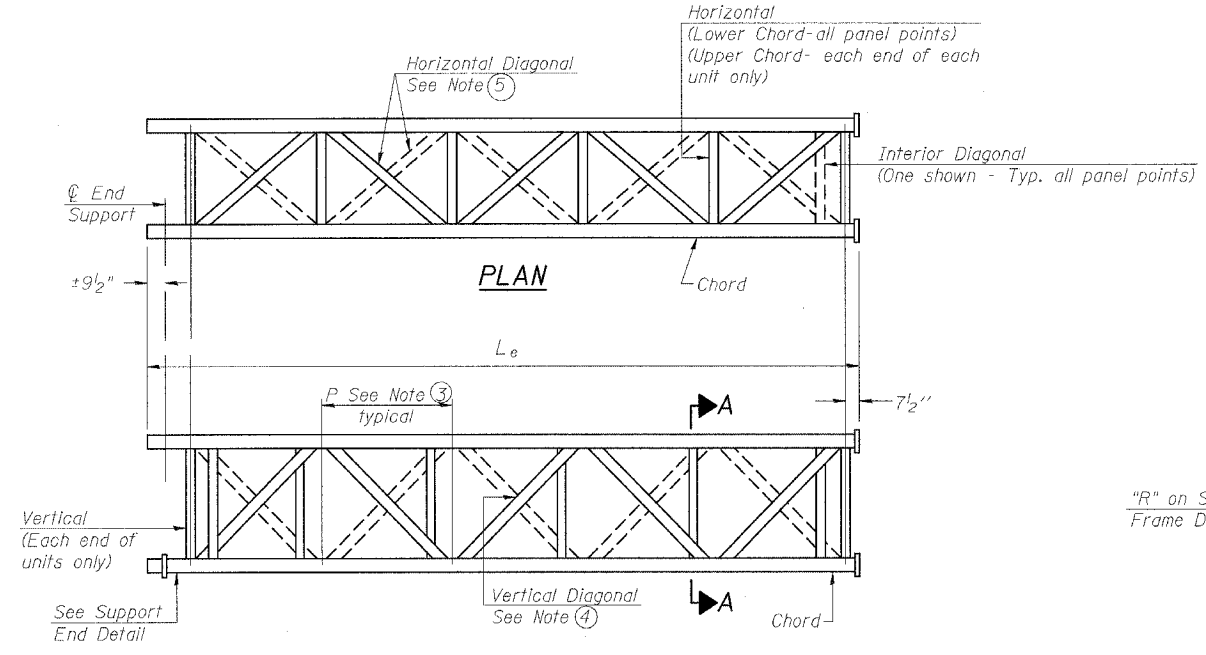


**TYPICAL JOINT DETAILS**

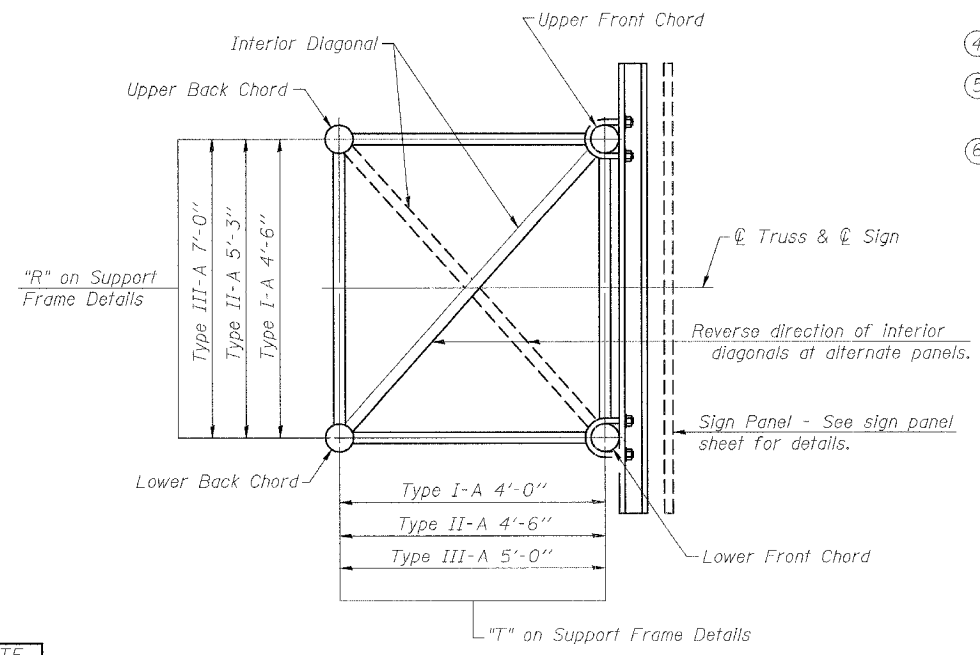
**DETAIL A**

**NOTES**

- Contractor may alternatively use standard aluminum drive-fit cap to close end. 1/2" diameter drain hole in end plate/drive-fit cap. (Typ. at ends of all chords)
- 5 1/2" end dimension may vary by ±1" to provide uniform panel spacing (P).
- Panel spacing (P) shall be uniform for entire truss and between 4'-0" and 5'-0" for Type I-A or 4'-0" and 5'-6" for Types II-A and III-A.
- Vertical Diagonals in front and back face shall alternate.
- Hidden lines show wind bracing alternates direction between planes of top and bottom chords.
- All diagonals shall be detailed for minimum offset from the panel point based on the following: Offset shall be such as to provide a 3/4" minimum to 1 1/2" maximum clearance between any diagonal and any horizontal or vertical member, and to provide clearance for U-bolt connections of signs or walkway brackets.



**ELEVATION  
TYPICAL EXTERIOR UNIT**  
Even or odd number of panels/exterior units allowed.



**SECTION A-A**

NUMBER	REVISION	DATE

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**OVERHEAD SIGN STRUCTURES  
ALUMINUM TRUSS DETAILS  
FOR TRUSS TYPES I-A, II-A and III-A**

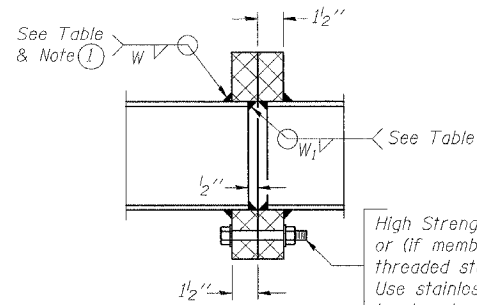
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HORIZ. DATE  
DRAWN BY  
CHECKED BY

PLOT DATE = 8/11/2007  
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 USER NAME = ruse110f

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON		255
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

**TRUSS UNIT TABLE**

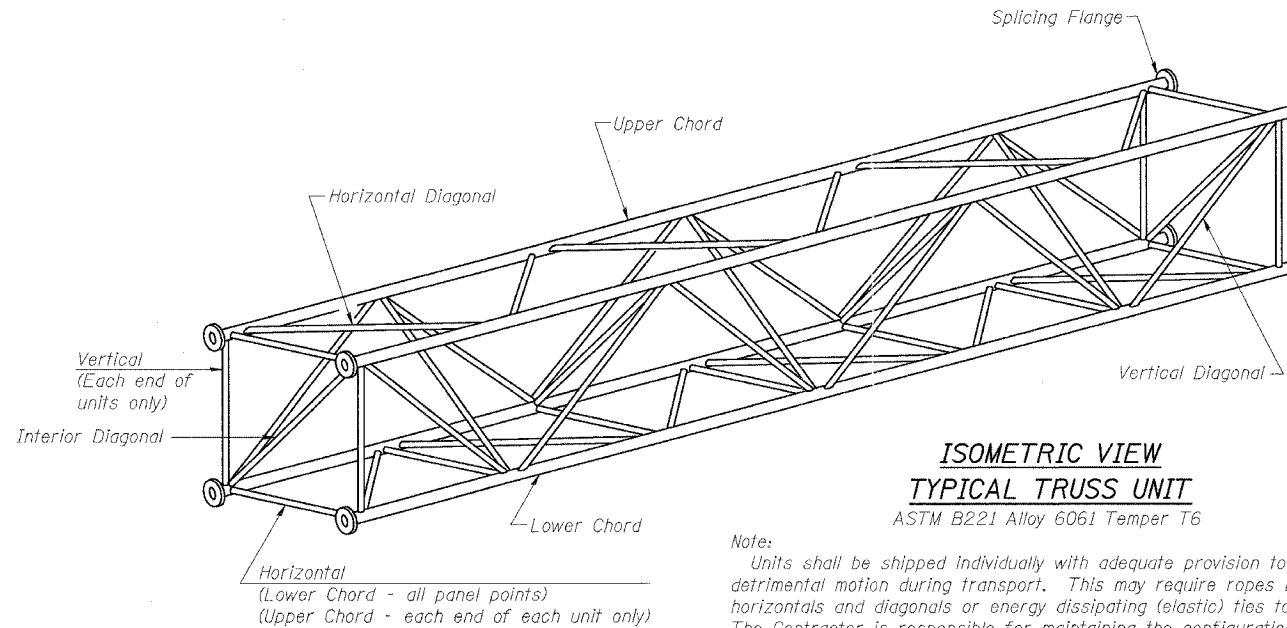
Structure Number	Station	Design Truss Type	Exterior Units (2)			Interior Unit				Upper & Lower Chord		Verticals; Horizontals; Vertical, Horizontal, and Interior Diagonals				Camber at Midspan	Splicing Flange			
			No. Panels per Unit	Unit Lgth.(L <sub>e</sub> )	Panel Lgth.(P)	No. Req'd.	No. Panels per Unit	Unit Lgth.(L <sub>i</sub> )	Panel Lgth.(P)	O.D.	Wall	O.D.	Wall	No./Splice	Di.		W	W <sub>1</sub>	A	B
9S0411057R093.3	700+50	I-A	5	26'-5 1/2"	4'-11"	1	6	30'-9"	4'-11"	5"	5/16"	2 1/2"	5/16"	2.35"	6	7/8"	5/16"	1/4"	8 3/4"	11 3/4"
9S0411057L094.0	740+40	I-A	6	31'-1 1/2"	4'-10 1/2"	1	6	30'-6"	4'-10 1/2"	5 1/2"	5/16"	2 1/2"	5/16"	2.80"	6	7/8"	3/8"	1/4"	9 1/4"	12 1/4"



**SECTION B-B**

High Strength bolts with locknuts or (if members interfere) threaded studs with 2 locknuts. Use stainless steel washers under head and nut. See table.

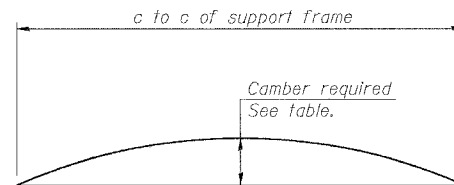
(1) Splicing Flanges shall be attached to each truss unit with the truss shop assembled to camber shown. Truss units shall be in proper alignment and flange surfaces shall be shop bolted into full contact before welding. Sufficient external welds or tacks shall be made to secure flanges until remaining welds are made after disassembly. Adjacent flanges shall be "match marked" to insure proper field assembly.



**ISOMETRIC VIEW TYPICAL TRUSS UNIT**

ASTM B221 Alloy 6061 Temper T6

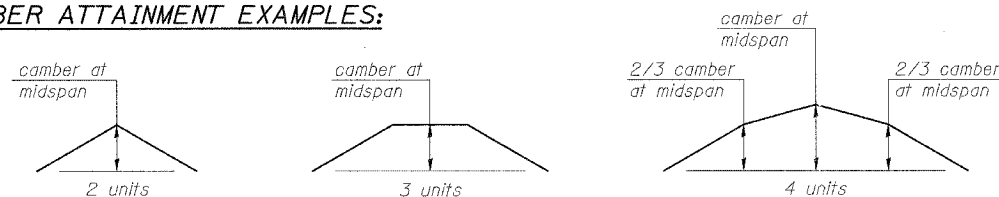
Note: Units shall be shipped individually with adequate provision to prevent detrimental motion during transport. This may require ropes between horizontals and diagonals or energy dissipating (elastic) ties to the vehicle. The Contractor is responsible for maintaining the configuration and protection of the units.



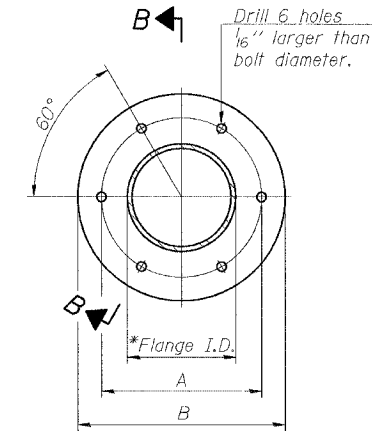
**CAMBER DIAGRAM**

Camber curve shown is theoretical. Actual camber attained by slope changes at splices between units.

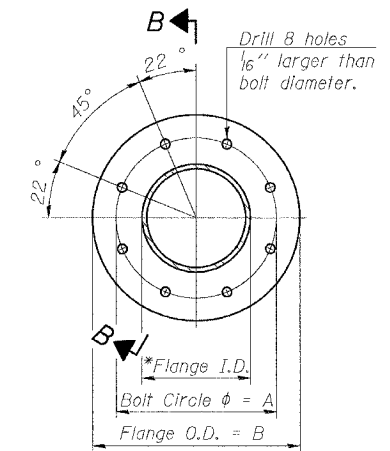
**CAMBER ATTAINMENT EXAMPLES:**



Camber shown is for fabrication only, measured with truss fully supported. (No-load condition)



**TRUSS TYPES I-A, II-A, & III-A**



**TRUSS TYPES II-A & III-A SPLICING FLANGES**

ASTM B221, Alloy 6061-T6 or ASTM B209, Alloy 6061-T651

\*To fit O.D. of Chord with maximum gap of 1/16".

NUMBER	REVISION	DATE

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**OVERHEAD SIGN STRUCTURES ALUMINUM TRUSS DETAILS FOR TRUSS TYPES I-A, II-A and III-A**

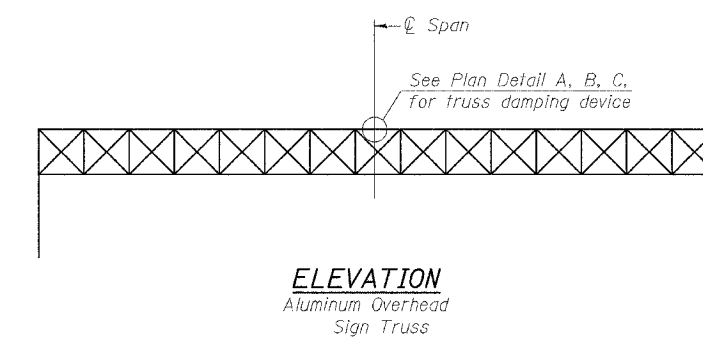
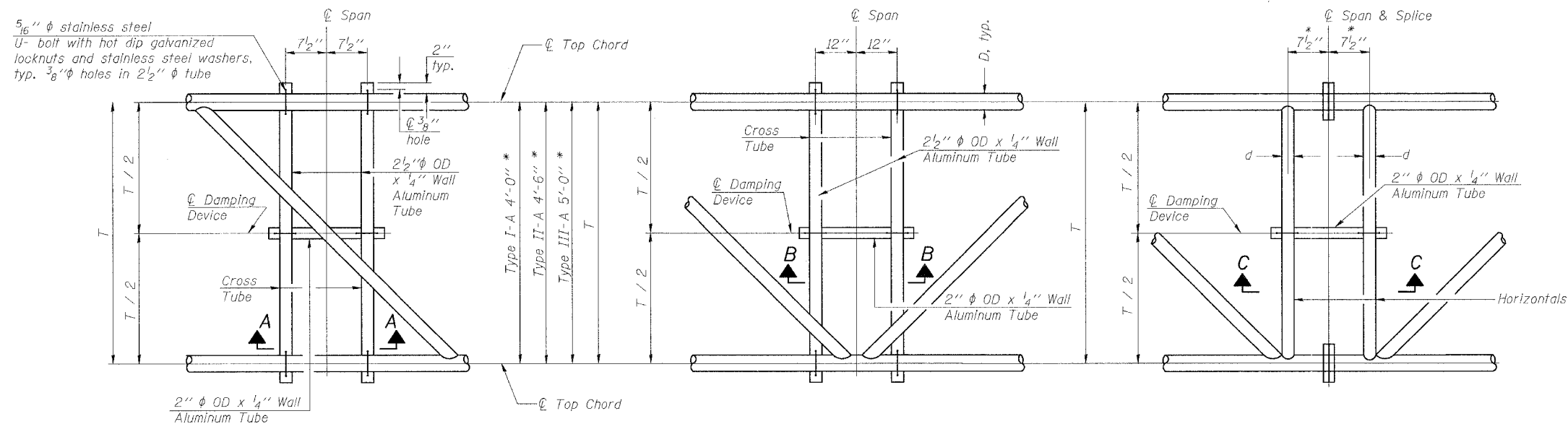
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HORIZ. NONE  
DATE  
DRAWN BY  
CHECKED BY

PLOT DATE = 6/11/2007  
FILE NAME = C:\pcc\projects\road\sign\truss\truss.dwg  
PLOT SCALE = 50.000000 / IN.  
USER NAME = puser10r



F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON		256
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

\* Center of horizontal to center of splice dimension may vary. Verify before drilling holes in mounting tube.

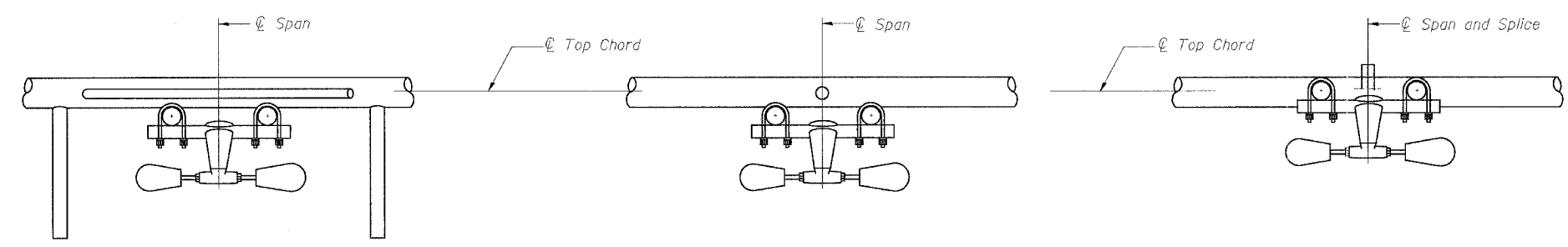


**PLAN DETAIL "A"**  
 ☉ Span between Panel Points

**PLAN DETAIL "B"**  
 ☉ Span at Panel Point

**PLAN DETAIL "C"**  
 ☉ Span at ☉ Chord Splice

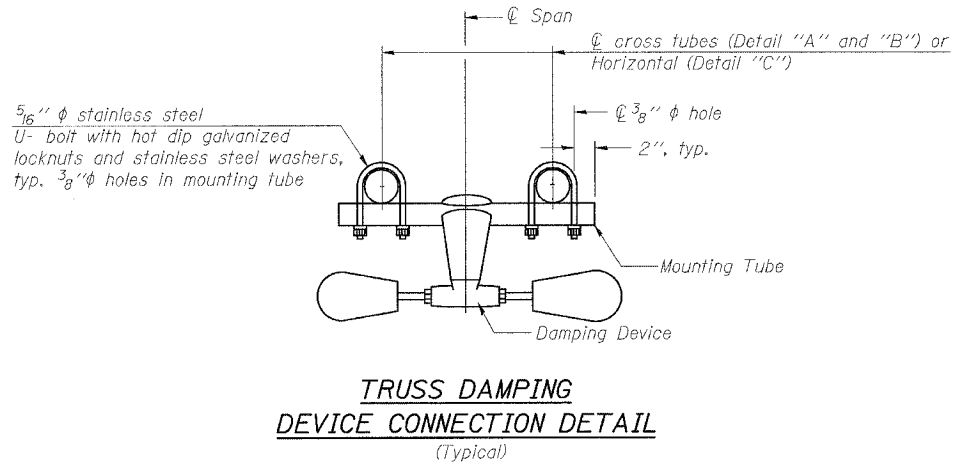
**NOTES**  
 Damper: One damper per truss.  
 (31 lbs. Stockbridge-Type Aluminum)  
 Cost included in Overhead Sign Structure...  
 Materials: Aluminum tubes shall be ASTM B221 alloy 6061 temper T6. Cost included in Overhead Sign Structure...



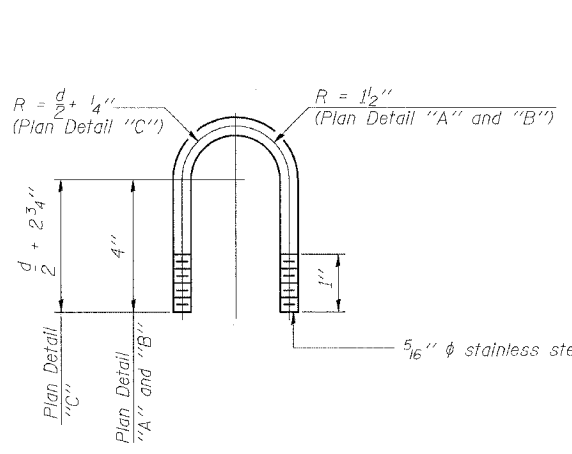
**SECTION A-A**

**SECTION B-B**

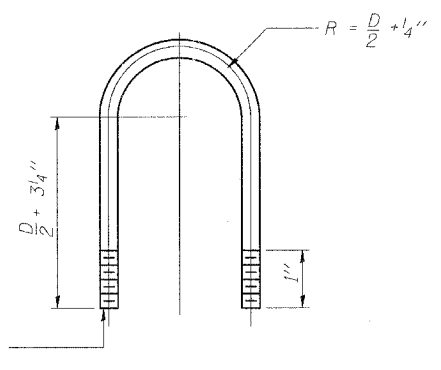
**SECTION C-C**



**TRUSS DAMPING DEVICE CONNECTION DETAIL**  
 (Typical)



**DAMPING DEVICE MOUNTING TUBE U-BOLT DETAIL**  
 (Typical)



**TOP CHORD TO CROSS TUBE U-BOLT DETAIL**  
 (Typical - Detail "A" and "B")

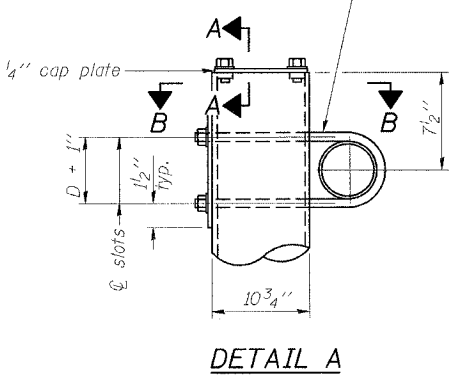
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**OVERHEAD SIGN STRUCTURE DAMPING DEVICE**  
 SCALE: VERT. NONE  
 HORIZ. DATE  
 DRAWN BY  
 CHECKED BY

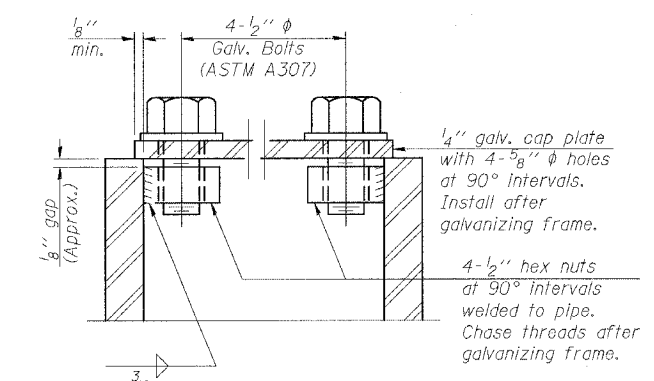
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 USER NAME = hms1c1f

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON		57
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

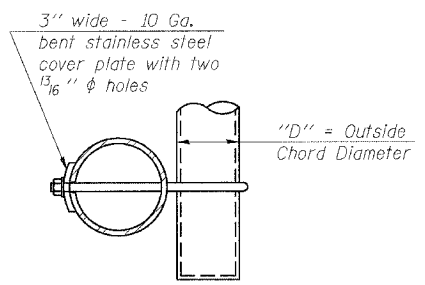
3/4" φ stainless steel U-bolt.  
Provide two washers and two hexagon locknuts. (4)  
13/16" x 2" slots on 10" φ pipe.  
(4 slots required per pipe)



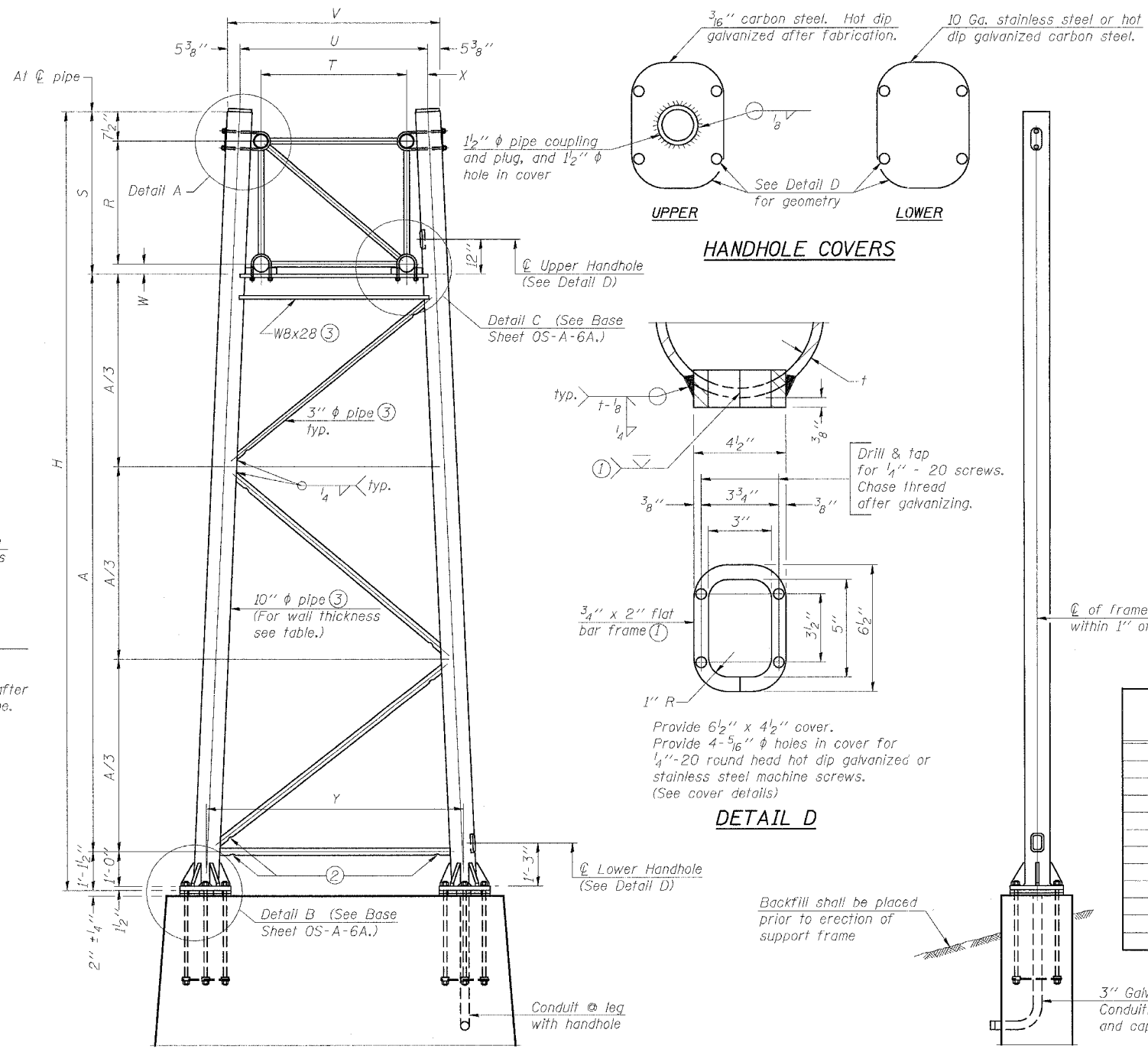
DETAIL A



SECTION A-A  
As an alternate to bolts, may use galvanized drive-fit caps installed after galvanizing frame.

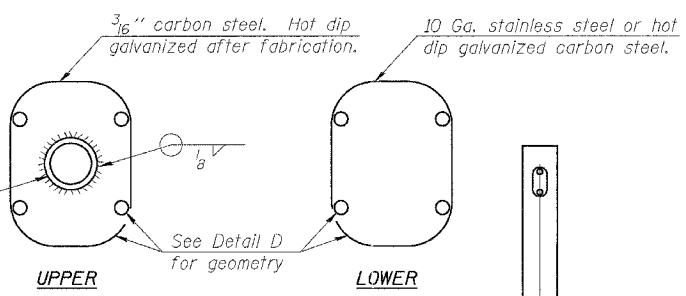


SECTION B-B

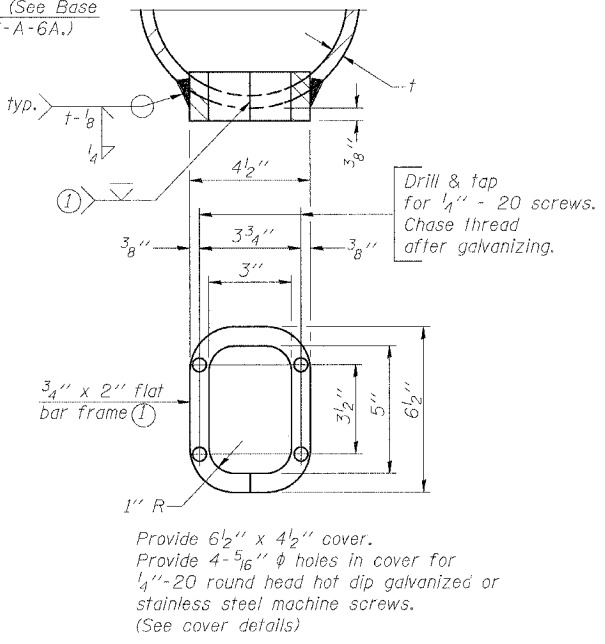


For Foundation Details, see base sheet OS-F3 (Spread Footing) or OS4-F3 (Drilled Shaft).

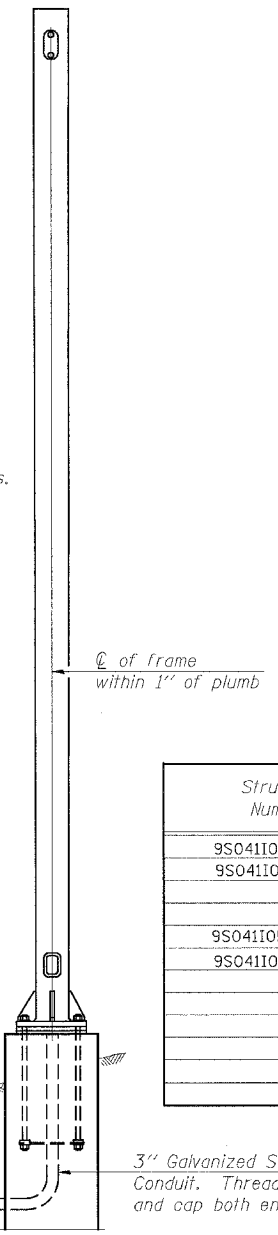
SIDE ELEVATION



HANDHOLE COVERS



DETAIL D



END ELEVATION

Support Design Loads: See Base Sheet OS-A-1 for design and loading criteria.  
Load combinations checked include deadload plus:  
a) 100% wind normal to sign, 20% parallel to sign  
b) 60% wind normal to sign, 30% parallel to sign

- In lieu of fabricated handhole frame as shown, may cut from 2" plate (rolling direction vertical). All cut faces to be ground to ANSI Roughness of 500 μin or less.
- Galvanizing vent holes of adequate size shall be provided on underside at each end of bracing pipes. Alternately, holes may be provided in wall of pipe column. All vent holes shall be drilled and de-burred, typ.
- Steel pipe, plate, carbon steel handhole covers and rolled sections shall be hot dip galvanized after fabrication. Painting is not permitted. See Base Sheet OS-A-1.
- See General Notes for fasteners.
- Dimensions shown are based on selection criteria in the Sign Structures Manual. Nonstandard applications must have dimensions verified or amended as appropriate.
- "H" based on 15'-0" or actual sign height, whichever is greater.

Structure Number	Station	Support		Truss Type	Pipe Wall Thickness	H (6)	A
		Left	Right				
9S0411057R093.3	700+50	X		I-A	0.279	28.8	22.3
9S0411057R093.3	700+50		X	I-A	0.279	28.0	21.5
9S0411057L094.0	740+40	X		I-A	0.279	28.0	21.5
9S0411057L094.0	740+40		X	I-A	0.279	29.8	23.3

10" φ PIPE TRUSS SUPPORT FRAME

Truss Type	Dimensions							
	R	S	T	U	V	W	X	Y
I-A	4'-6"	5'-5 1/2"	4'-0"	5'-6"	6'-4 3/4"	4"	9"	8'-3"

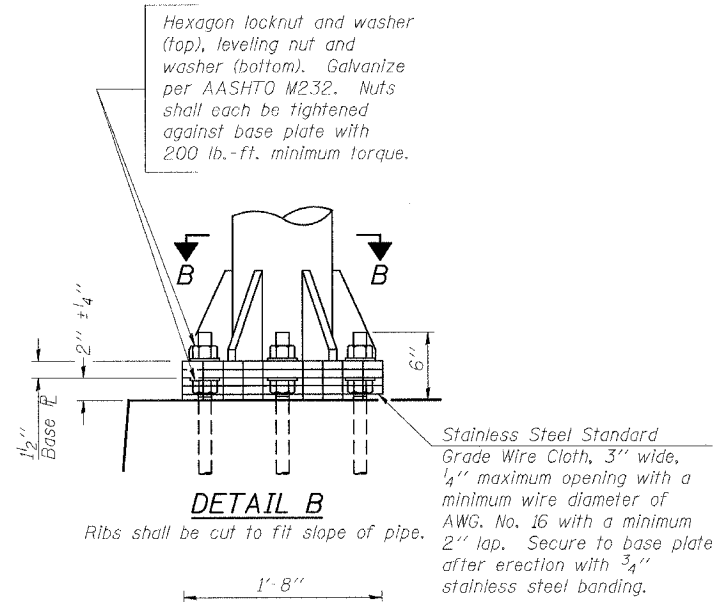
NUMBER	REVISION	DATE

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**OVERHEAD SIGN STRUCTURES  
SUPPORT FRAME for ALUMINUM TRUSS**  
SCALE: VERT. NONE  
HORIZ. NONE  
DATE:                      DRAWN BY:                      CHECKED BY:                     

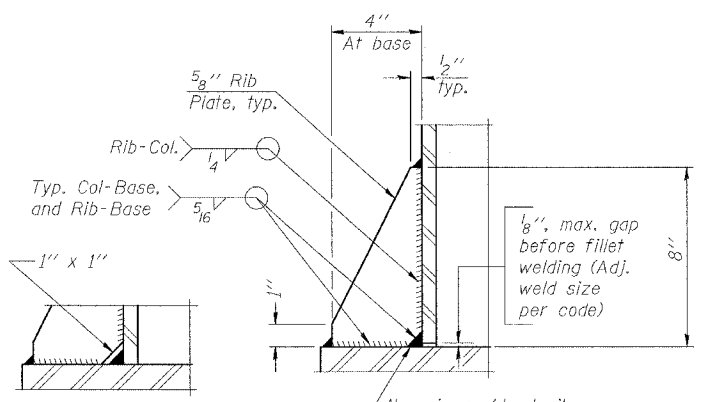
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON		25
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



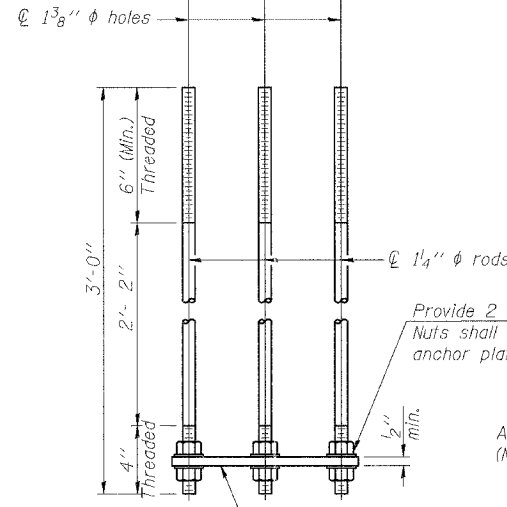
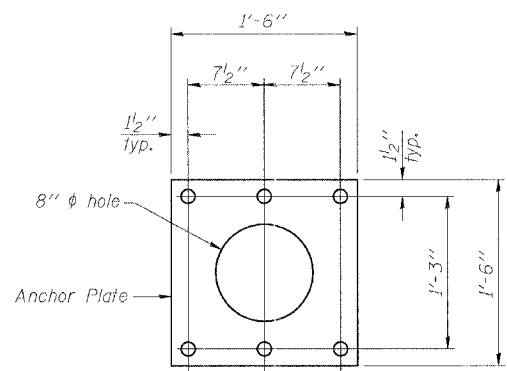
**DETAIL B**

Ribs shall be cut to fit slope of pipe. Stainless Steel Standard Grade Wire Cloth, 3" wide, 1/4" maximum opening with a minimum wire diameter of AWG. No. 16 with a minimum 2" lap. Secure to base plate after erection with 3/4" stainless steel banding.

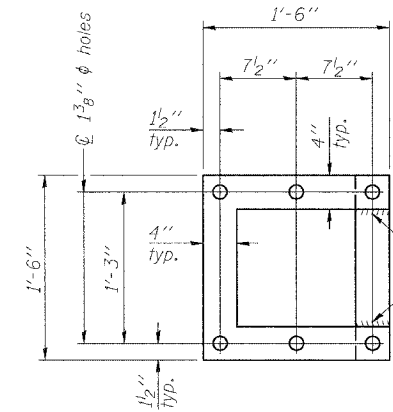


**SECTION D-D**

\*\* Alternate detail if welding col. to base plate first, then snip inside corner of ribs. Terminate weld on rib 1/4" from snip.

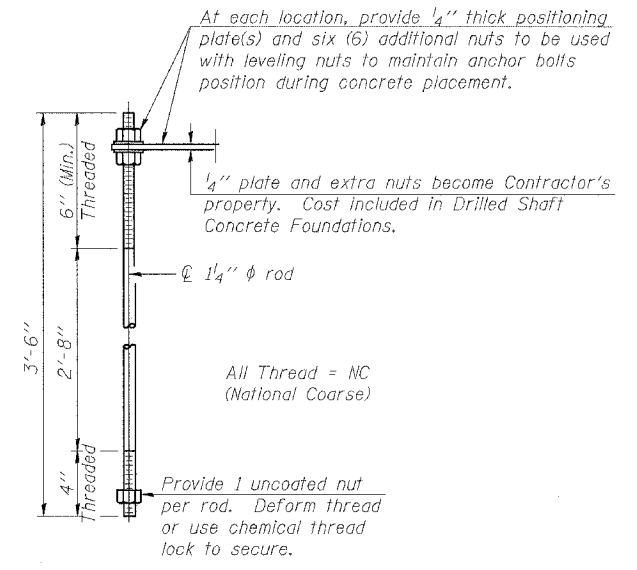


**ANCHOR ROD DETAIL**  
Spread Footing Foundation



**POSITIONING PLATE(S)**

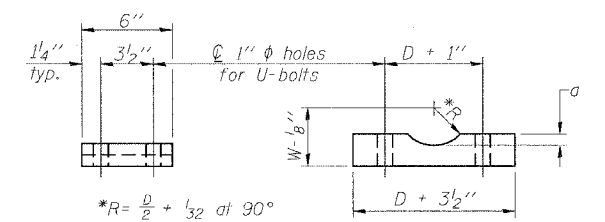
Optionally may use four (4) separate bars. Weld to maintain perpendicularity.



**ANCHOR ROD DETAIL**  
Drilled Shaft Foundation

Anchor rods shall conform to AASHTO M314 Grade 36 or 50 and meet Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F. Galvanize upper 12" per AASHTO M232. No welding shall be permitted on rods.

**10" φ PIPE SUPPORT FRAME DETAILS**

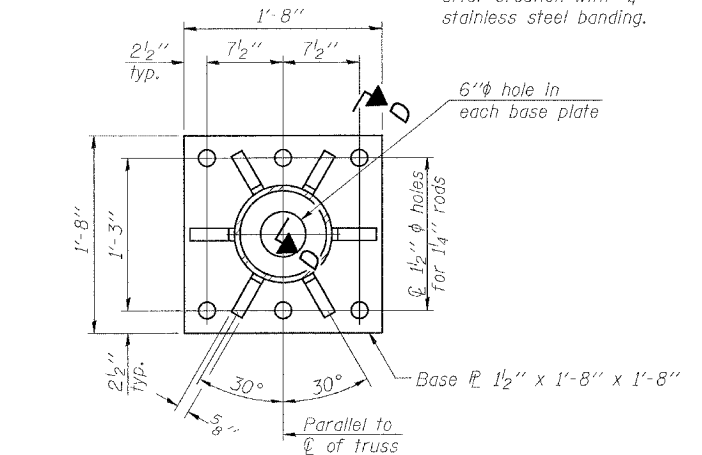


\*R = D/2 + 1/32 at 90°  
D = Outside Diameter of Chord.  
For W, see Base Sheet OS-A-6.

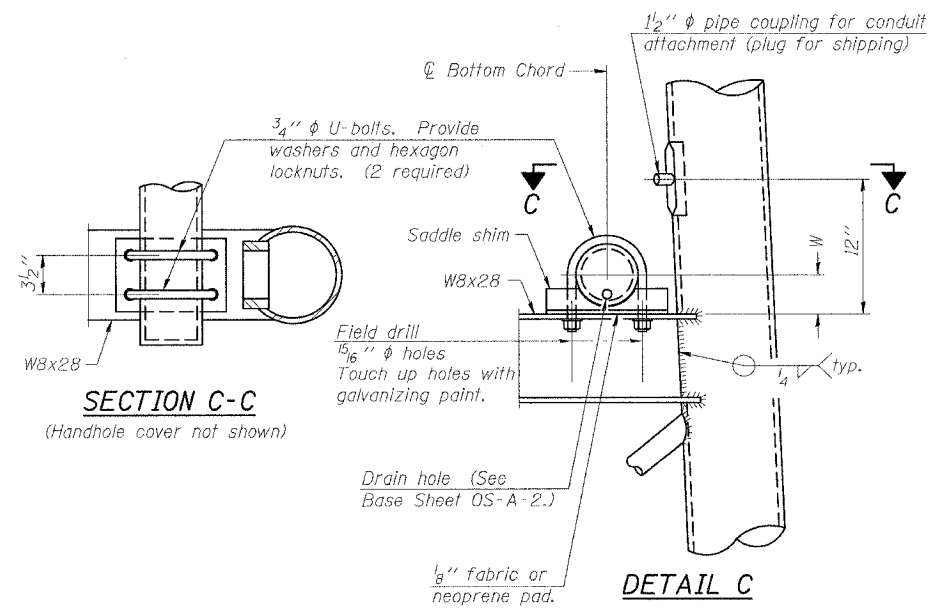
**SADDLE SHIM DETAIL**

ASTM B26 Alloy 356-F  
or  
ASTM B209 Alloy 6061-T651  
(4 required per sign truss)

Truss Chord Nominal Dia.	a
5"	3/4"
5 1/2"	13/16"
6"	7/8"
6 1/2"	15/16"
7"	1"



**SECTION B-B**



**SECTION C-C**

**DETAIL C**

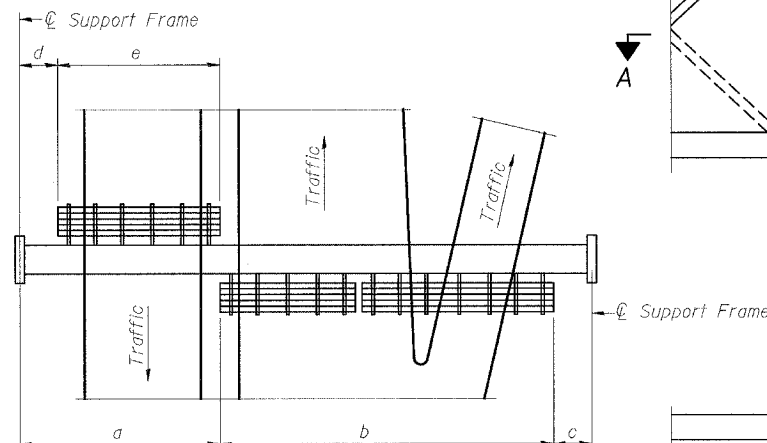
NUMBER	REVISION	DATE

REVISIONS	
NAME	DATE

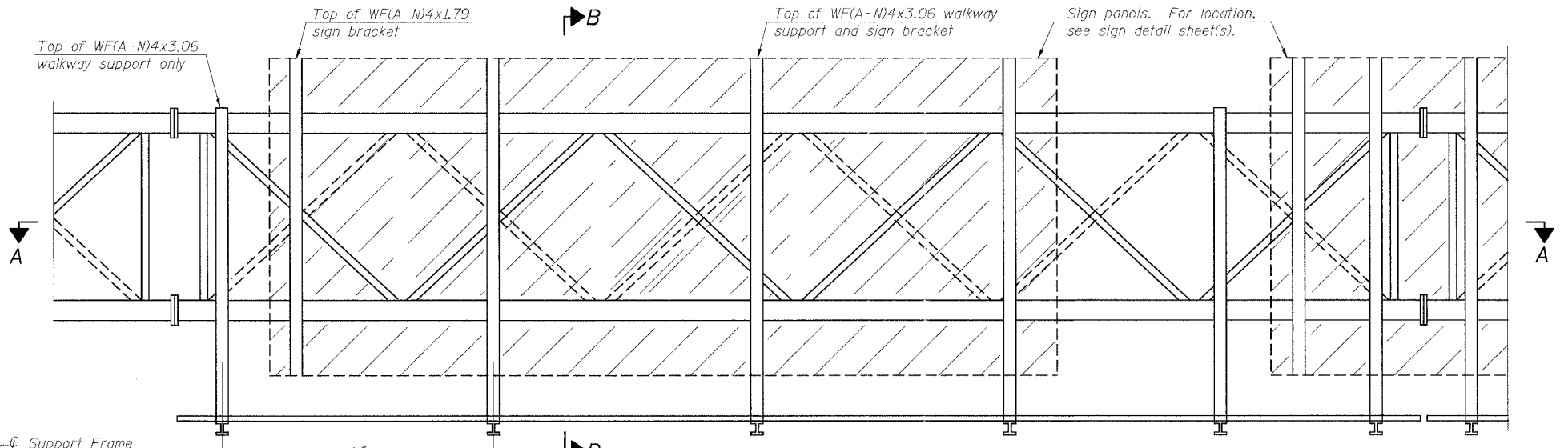
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**OVERHEAD SIGN STRUCTURES  
SUPPORT FRAME DETAILS  
ALUMINUM TRUSS**  
SCALE: VERT. NONE  
HORIZ. DATE  
DRAWN BY  
CHECKED BY

PLOT DATE = 5/11/2007  
 FILE NAME = C:\Users\jason\Documents\Projects\98963\98963.dgn  
 PLOT SCALE = 50.0000 / 1.00  
 USER NAME = russellof

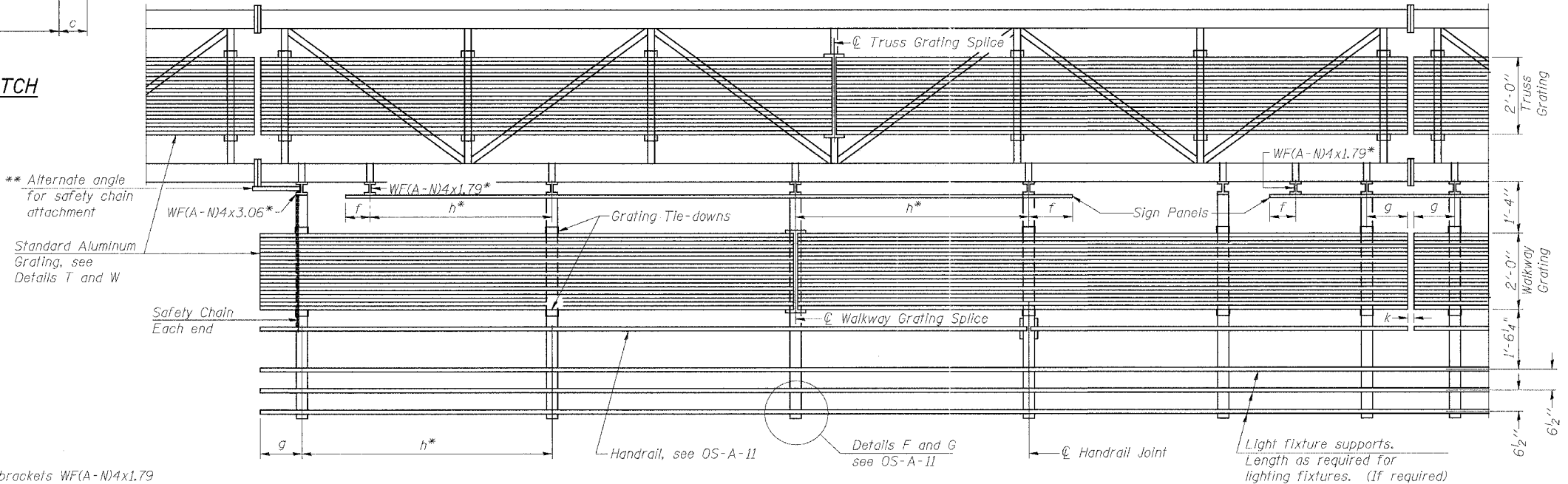
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON		259
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



**PLAN WALKWAY AND HANDRAIL SKETCH**  
(Road plan beneath truss varies)



**TYPICAL FRONT ELEVATION**  
With lights and handrail omitted for clarity.  
For Section B-B, see Base Sheet OS-A-10.



**SECTION A-A**

Handrail and walkway shall span a minimum of three brackets between splices and/or gap joints. Place all sign and walkway brackets as close to panel points as practical. Handrail joints, grating, and light support splices placed as needed.

Truss grating to facilitate inspection shall run full length (center to center of support frames) ±12" on overhead trusses. Cost of truss grating is included in "Overhead Sign Structure".

**BRACKET TABLE**

Sign Width		Number Brackets Required
Greater Than	Less Than or Equal To	
	8'-0"	2
8'-0"	14'-0"	3
14'-0"	20'-0"	4
20'-0"	26'-0"	5
26'-0"	32'-0"	6

\*\* Alternate angle for safety chain attachment

Standard Aluminum Grating, see Details T and W

Safety Chain Each end

- Notes:
- \* Space walkway brackets WF(A-N)4x3.06 and sign brackets WF(A-N)4x1.79 for efficiency and within limits shown:
  - f = 12" maximum, 4" minimum (End of sign to center of nearest bracket)
  - g = 12" maximum, 4" minimum (End of walkway grating to center of nearest support bracket)
  - h = 6'-0" maximum (center to center of sign and/or walkway support brackets, WF(A-N)4x1.79 or WF(A-N)4x3.06)
  - k = 2" maximum gap between adjacent walkway grating sections and handrail ends

\*\* If walkway bracket at safety chain location is behind sign, add angle to bracket, see Alternate Safety Chain Attachment on Base Sheet OS-A-11.

For Details T and W, Section B-B and Grating Splice Details see Base Sheet OS-A-10.  
For Handrail Details see Base Sheet OS-A-11.

Structure Number	Station	a	b	c	d	e	Walkway Grating and Handrail Lengths
9S0411057R093.3	700+50	42.5'	37.5'	2'	-	-	37.5'
9S0411057L094.0	740+40	31.5'	48.5'	11'	-	-	48.5'

NUMBER	REVISION	DATE

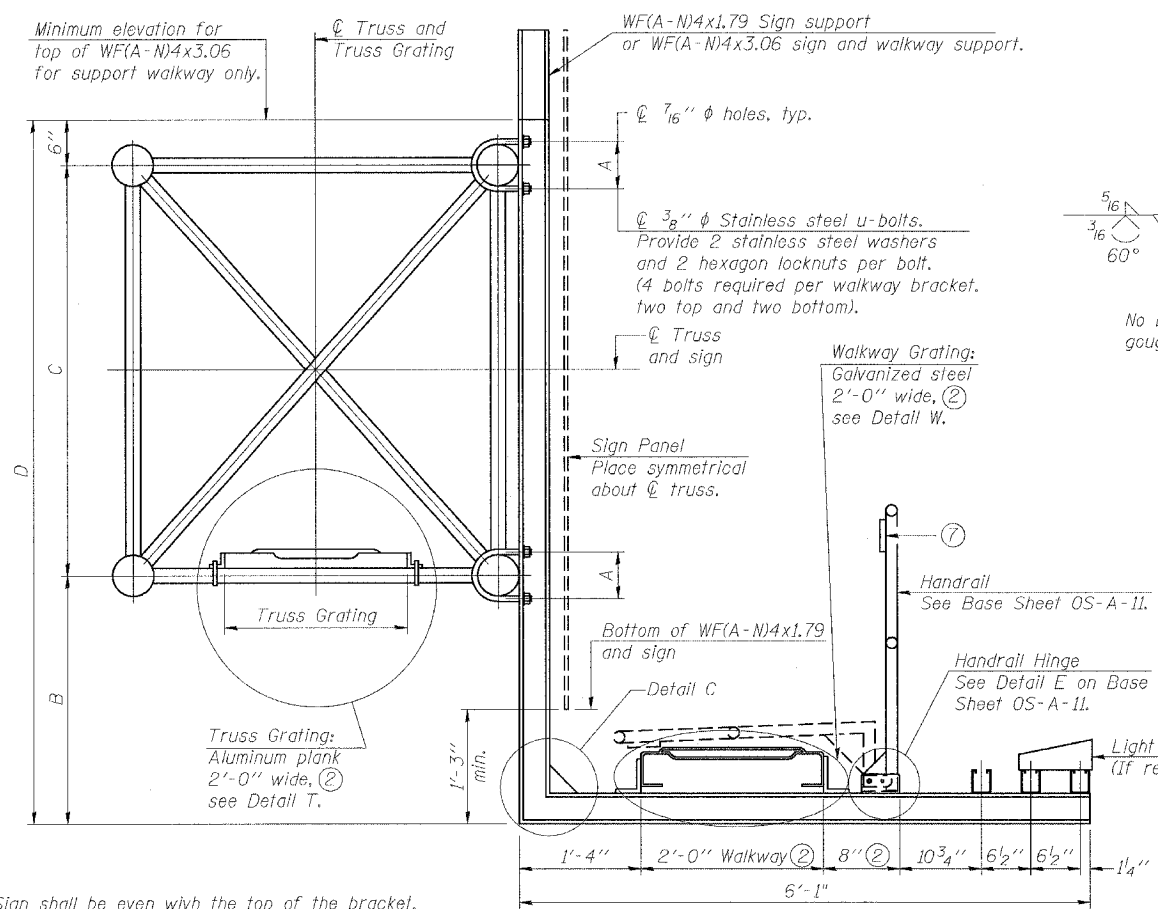
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**OVERHEAD SIGN STRUCTURES  
ALUMINUM WALKWAY DETAILS**

SCALE: VERT. NONE  
HORIZ. DATE  
DRAWN BY  
CHECKED BY

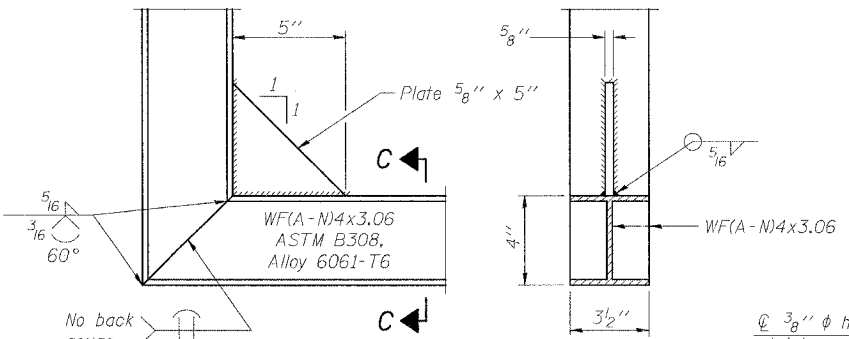
PLOT DATE = 5/11/2007  
 FILE NAME = C:\Users\jessica\Documents\Drawings\OS-A-9.dwg  
 PLOT SCALE = 50.0000 / 1 IN.  
 USER NAME = russellcf

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON		260
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

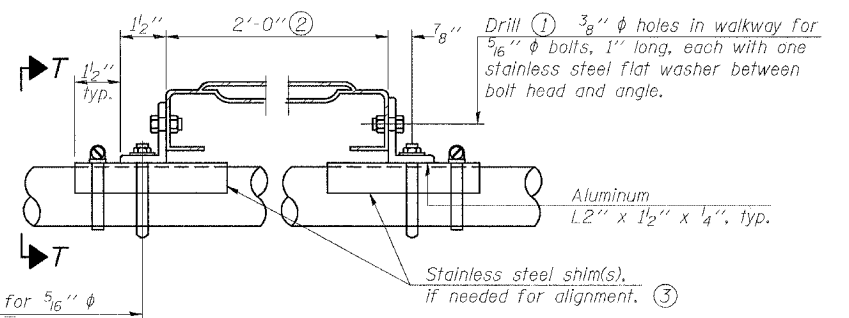


SECTION B-B

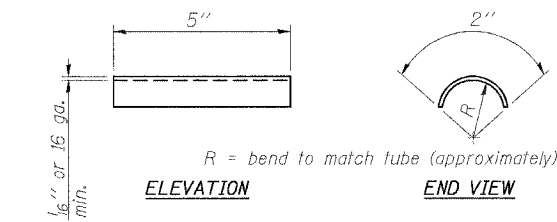
Sign shall be even with the top of the bracket, but it may extend no more than 6" above the top of the bracket for field adjustments.



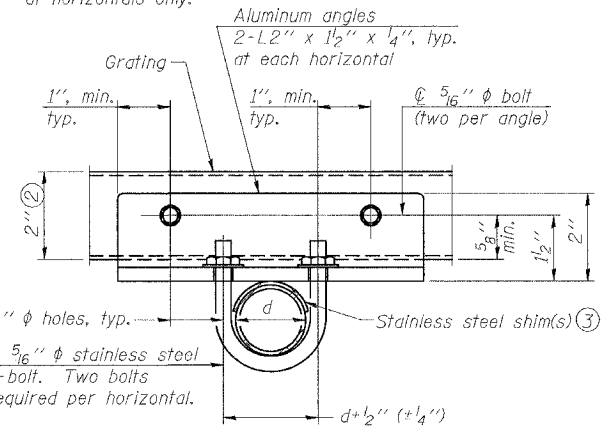
DETAIL C SECTION C-C



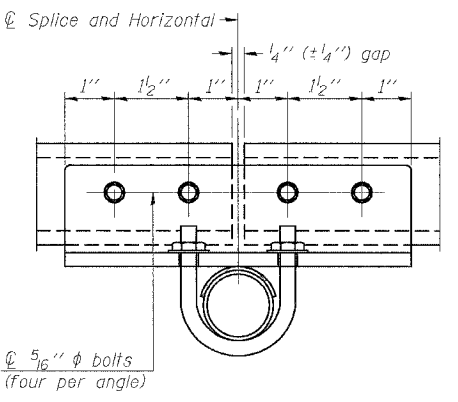
DETAIL T (Truss grating at horizontal)



SHIM DETAIL

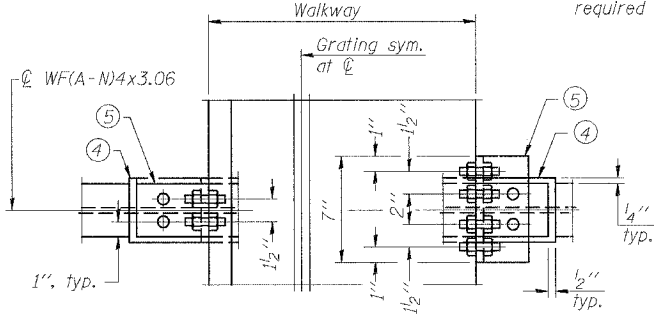


SECTION T-T (Truss Grating Continuous)

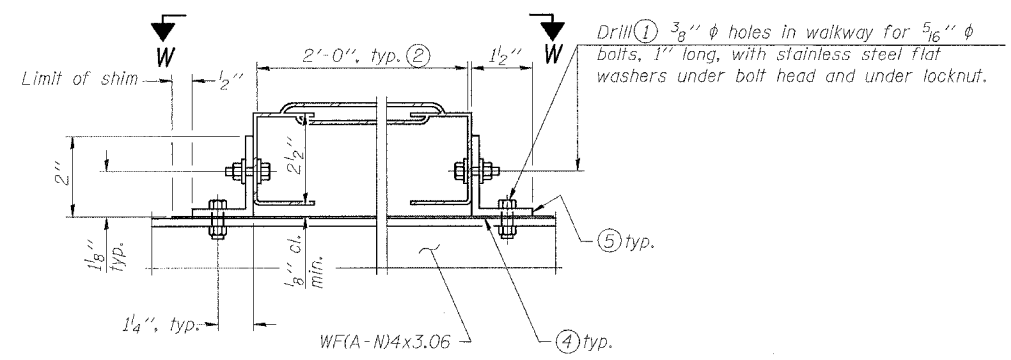


SECTION T-T (Truss Grating Splice)

Alternate splice details and locations may be used subject to the Engineer's review and approval.



WALKWAY GRATING CONTINUOUS AT WALKWAY GRATING SPLICE SECTION W-W



DETAIL W GALVANIZED STEEL WALKWAY GRATING

- Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment.
- Perforated or expanded metal grating providing a skid resistant (non-serrated) surface and capable of supporting a 500 pound concentrated load with a 6'-0" clear span. Walkway and truss grating dimensions are nominal and may vary (width  $\pm 1/2$ ", depth  $\pm 1/2$ ") based on available standard sizes. Cut ends of grating shall be free of burrs or hazardous projections and coated with zinc-rich primer or equivalent.
- Stainless steel shims shall be placed under angles at horizontals and horizontal diagonals if needed to compensate for alignment variations and differences in horizontal diagonal pipe sizes beyond adjustment provided by angles. Secure with one stainless steel clamp per location, see "Shim Detail". Thicker shim plates may be used when needed subject to shims performing properly.
- 1/16" (or 1/8 ga.) x 2 1/2" x 4" stainless steel shim adhered to top of WF(A-N)4x3.06 beneath each galvanized angle. Adhesives for shims shall be suitable for materials joined and full exposure conditions.
- Galvanized steel L2" x 2" x 1/4", 3 1/2" long with continuous grating, 7" long at grating splice.
- Details shown are considered equal alternatives to the Aluminum Walkway on Base Sheet OS-A-10 and may be substituted by Contractor at no change in contract cost.
- 1/8" x 1/2" x 2" welded to handrail posts to protect locations that contact grating.

ALUMINUM TRUSS GRATING

Structure Number	Station	A	B	C	D
9S041057R093.3	700+50	5 1/2"	6'-0"	4'-6"	11'-0"
9S041057L094.0	740+40	6"	5'-3"	4'-6"	10'-3"

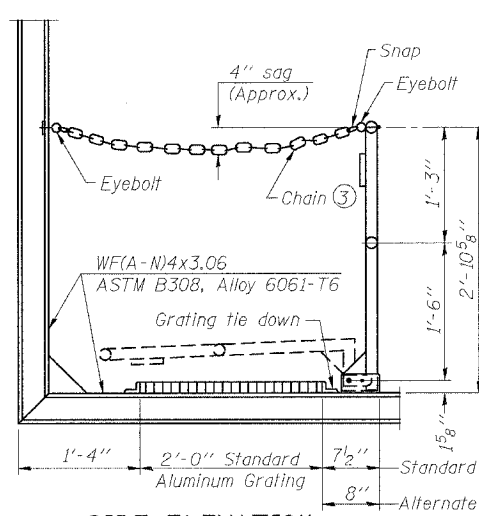
NUMBER	REVISION	DATE

REVISIONS	
NAME	DATE

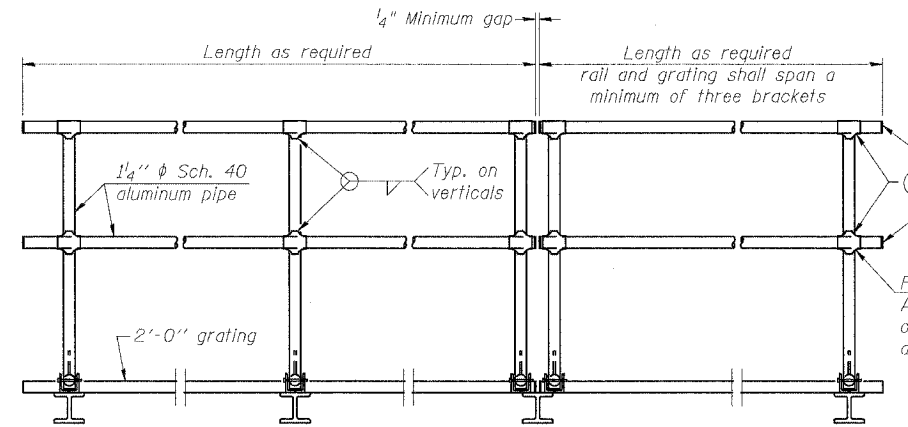
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**OVERHEAD SIGN STRUCTURES  
 ALTERNATE WALKWAY DETAILS**  
 SCALE: VERT. NONE  
 HORIZ. DATE  
 DRAWN BY  
 CHECKED BY

PLOT DATE = 8/11/2007  
 FILE NAME = c:\projects\fund\os-a-10\os-a-10.dgn  
 PLOT SCALE = 1/8" = 1'-0"  
 USER NAME = russellc

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON		26
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



**SIDE ELEVATION**  
(Showing safety chain w/o sign)

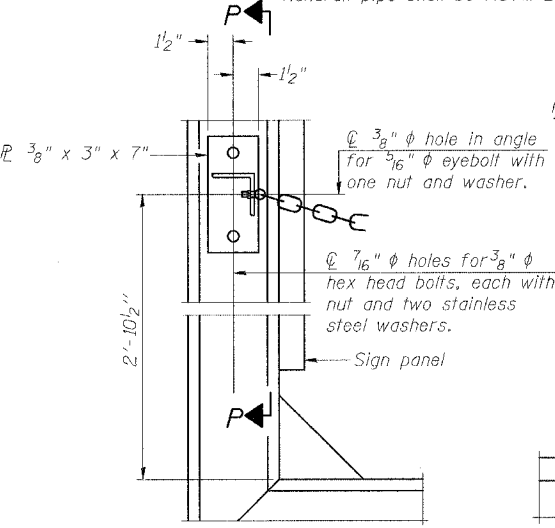


**FRONT ELEVATION**

- ① Install standard force-fit end caps or weld 1/8" end plates with 1/8" c.f.w. and grind smooth. (All rail ends)
- ② Horizontal handrail member shall be continuous thru fitting. Provide 1/16" hole in fitting for 3/8" bolt. Field drill 1/16" hole in horizontal rail member. Provide locknut and two stainless steel washers for bolt. (Use 5/16" eyebolts in 1/16" holes on top rail at ends only.)

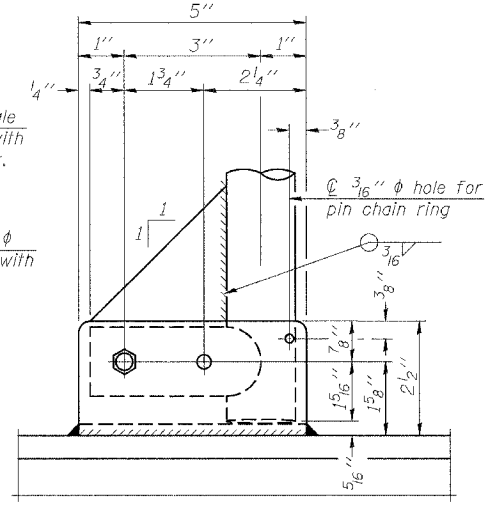
**HANDRAIL DETAILS**

Handrail pipe shall be ASTM B241 or B429, Alloy 6063-T6 or Alloy 6061-T6.

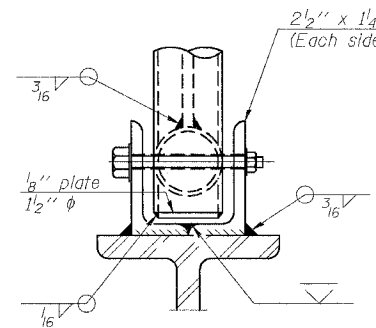


**ALTERNATE SAFETY CHAIN ATTACHMENT**  
(With Sign Present)

Items not shown same as "Side Elevation" of "Handrail Details"

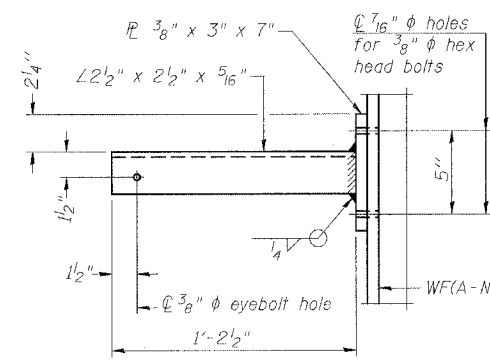


**SIDE ELEVATION**

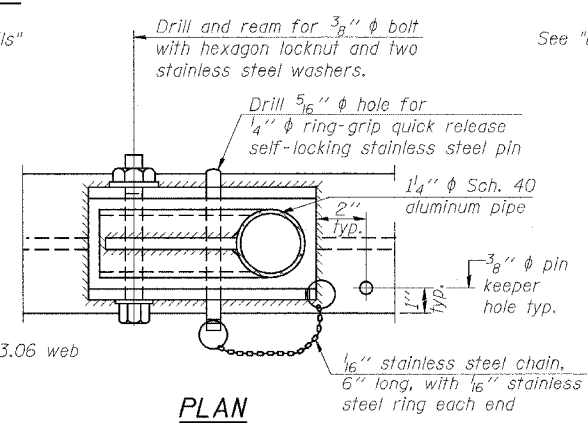


**FRONT ELEVATION**

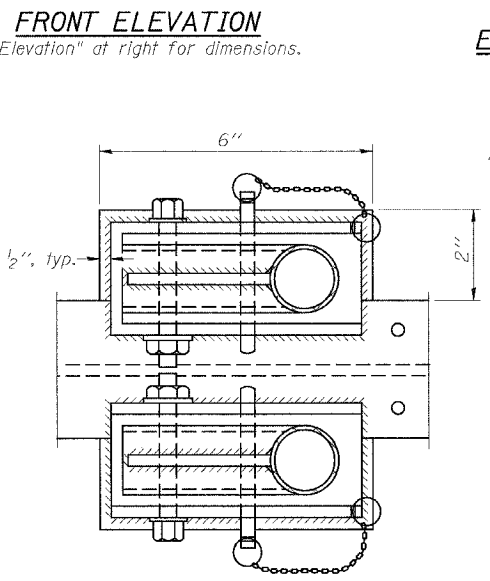
See "Elevation" at right for dimensions.



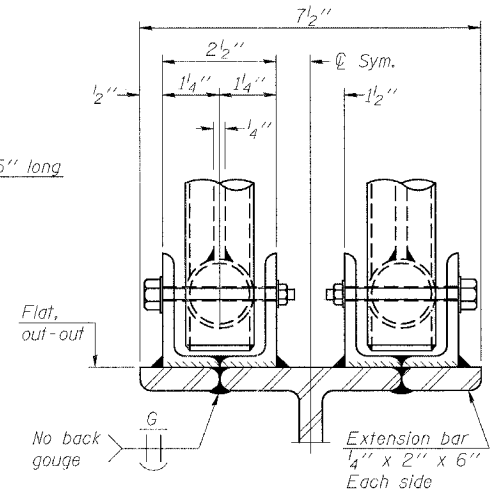
**SECTION P-P**



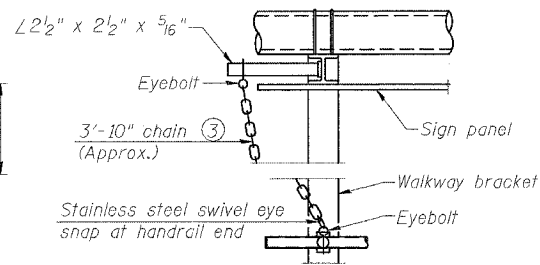
**PLAN  
DETAIL E HANDRAIL HINGE**



**PLAN AT HANDRAIL JOINT**  
Details not shown same as "PLAN"

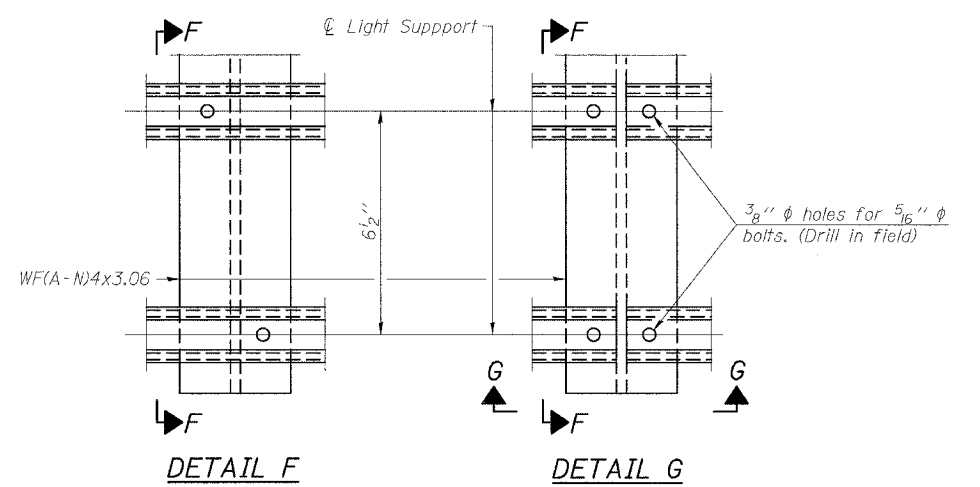


**ELEVATION AT HANDRAIL JOINT** ④



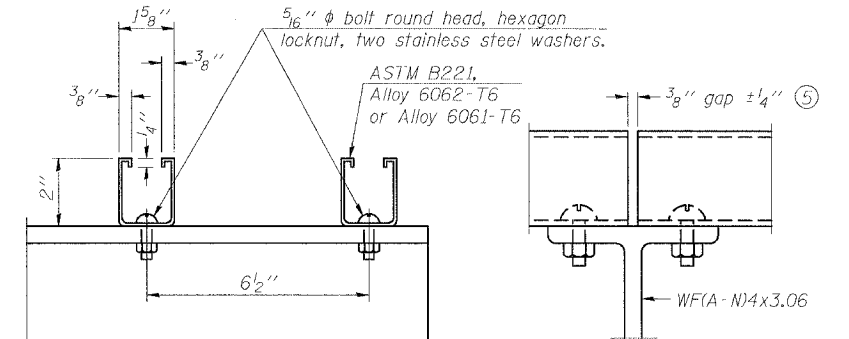
**ALTERNATE SAFETY CHAIN ATTACHMENT**  
Details not shown similar to "Safety Chain" Details  
(Walkway omitted for clarity)

- ③ 3/16" Type 304L stainless steel chain, approximately 12 links per foot.
- ④ Extrusions may be used in lieu of the details shown, with approval of the Engineer.



**DETAIL F**

**DETAIL G**

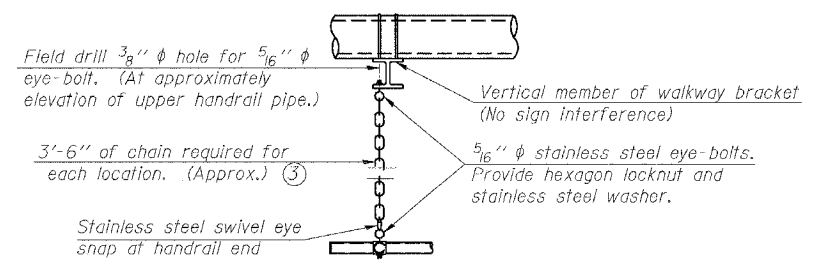


**SECTION F-F**

**SECTION G-G**

**LIGHTING FIXTURE MOUNTS (IF REQUIRED)**

- ⑤ Field cut ends of light support channels shall be free of burrs or hazardous projections and coated with zinc-rich primer or equivalent.



**SAFETY CHAIN**

One required for each end of each walkway.

NUMBER	REVISION	DATE

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**OVERHEAD SIGN STRUCTURES  
ALUMINUM HANDRAIL DETAILS**

SCALE: VERT. NONE  
HORIZ. DATE

DRAWN BY  
CHECKED BY

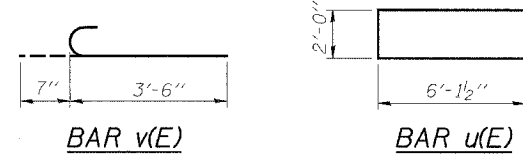
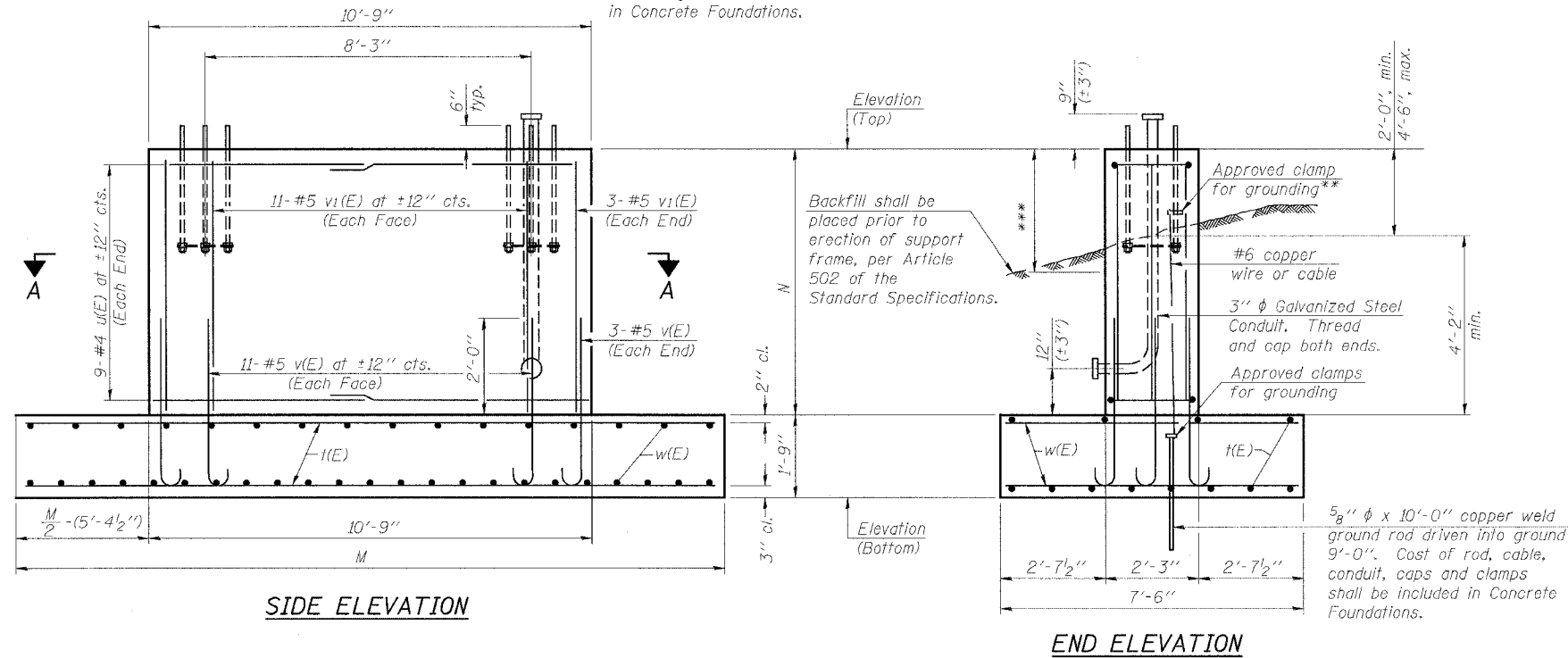
PLOT DATE = 5/11/2007  
 FILE NAME = 58200603  
 PLOT SCALE = 58200603 / IN.  
 USER NAME = rmas1cf

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON		262
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

For anchor rod size and placement, see Support Frame Detail Sheet.

\*\* Anchor rod shall be ground or filed to bright metal at clamp and cable connection location.

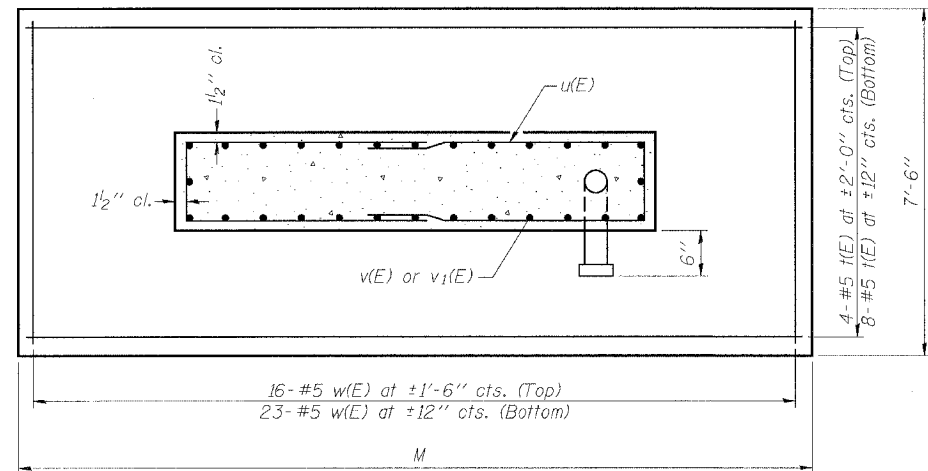
\*\*\* A normal surface finish followed by a Bridge Seat Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in Concrete Foundations.



**BAR LIST - EACH FOUNDATION**

Bar	Number	Size	Length	Shape
v(E)	12	#5	*	—
u(E)	18	#4	14'-3"	⊔
v(E)	28	#5	4'-1"	⊔
v1(E)	28	#5	*	—
w(E)	39	#5	7'-3"	—

\*Length of v(E) bar = (Dim. M) - 6"  
 v1(E) bar = (Dim. N) - 3"



**SECTION A-A**

Structure Number	Station	Left Foundation				Right Foundation				Class S1 Concrete (Cu. Yds.)
		Elevation Top	Elevation Bottom	N	M	Elevation Top	Elevation Bottom	N	M	
9S0411057R093.3	700+50	498.95	488.20	9'-0"	21'-6"	499.78	489.03	9'-0"	21'-6"	37.0
9S0411057L094.0	740+40	515.30	504.55	9'-0"	21'-6"	513.50	502.75	9'-0"	21'-6"	37.0

Note:  
 The foundation dimensions shown are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Qu) of at least 1.0 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown will be the result of site specific designs.  
 During construction, if footing length or width or wall height change by more than 12", or if reinforcement is changed, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.

NUMBER	REVISION	DATE

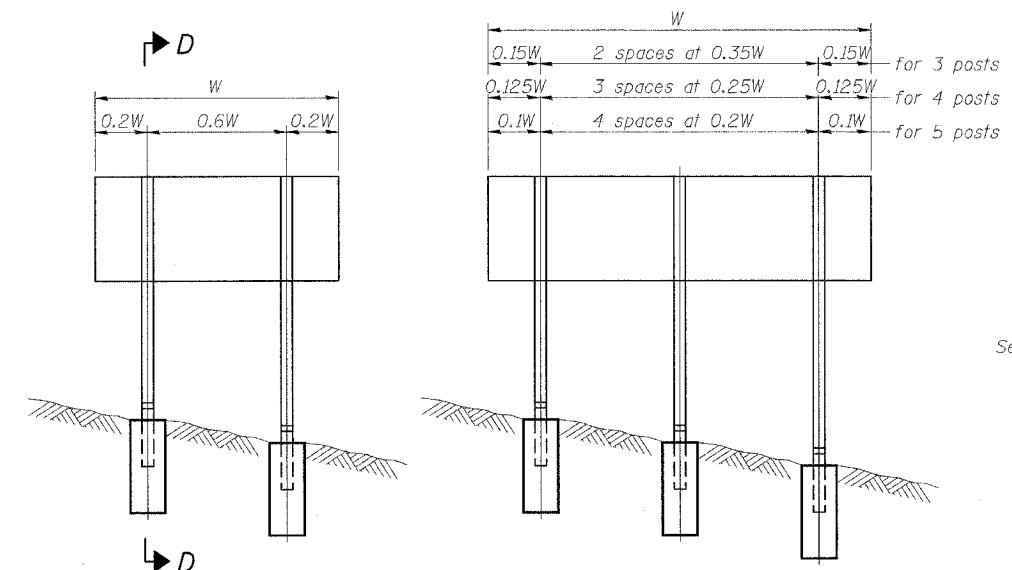
**DETAILS FOR 10" Ø SUPPORT FRAME**

REVISIONS	
NAME	DATE

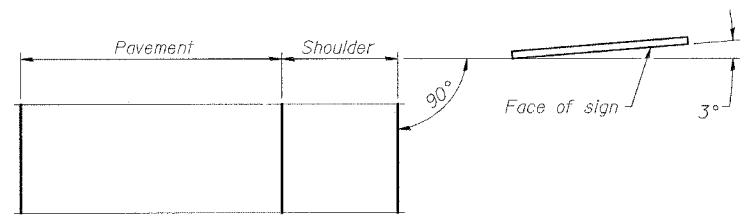
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**OVERHEAD SIGN STRUCTURES  
 SPREAD FOOTING DETAILS**  
 SCALE: VERT. NONE  
 HORIZ.  
 DATE  
 DRAWN BY  
 CHECKED BY

PLOT DATE = 6/11/2007  
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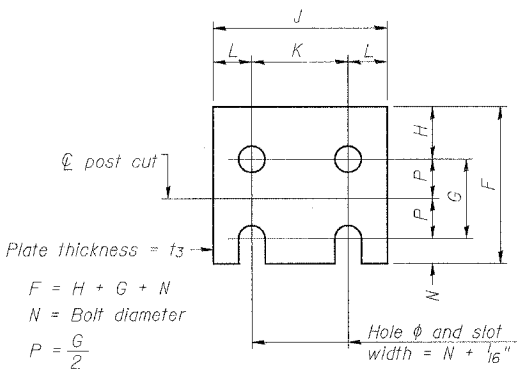
CONTRACT NO. 98963	
F.A.I. RTE.	SECTION
57/64	(41-3)HBK
COUNTY	JEFFERSON
TOTAL SHEETS	264
STA.	TO STA.
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT



ELEVATION

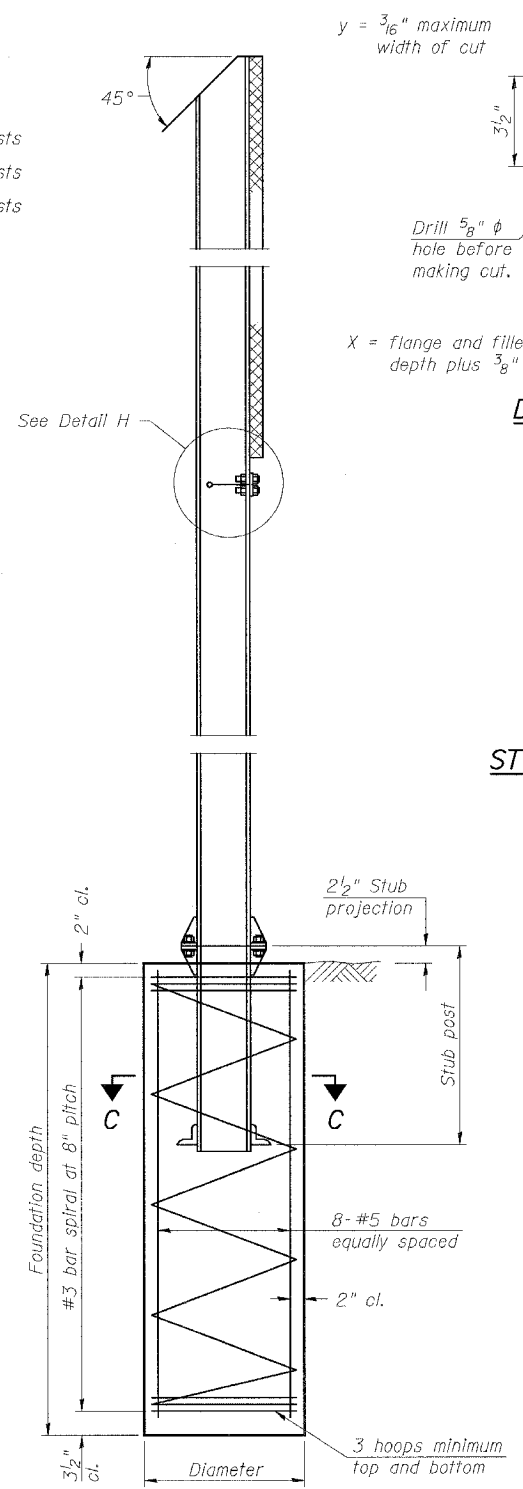


LOCATION SKETCH

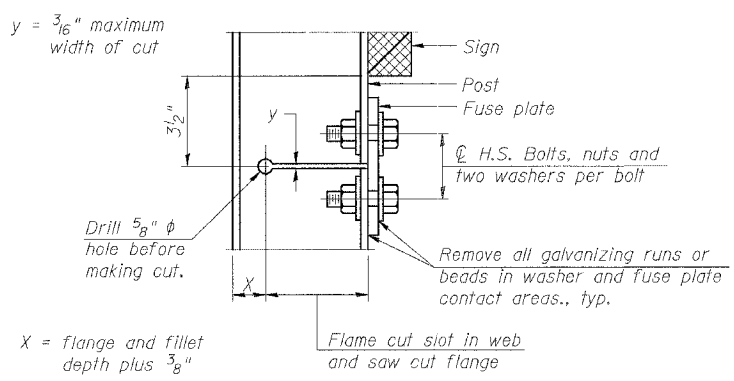


FUSE PLATE DETAIL  
(Install with notches down.)

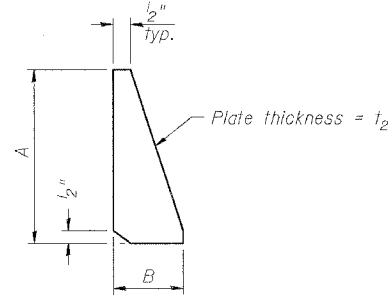
N = Bolt Diameter	G	H
1/2"	2"	1 1/8"
5/8"	2 1/4"	1 1/4"
3/4"	2 1/2"	1 3/8"
7/8"	2 3/4"	1 1/2"
1"	3"	1 5/8"
1 1/8"	3 1/4"	1 3/4"



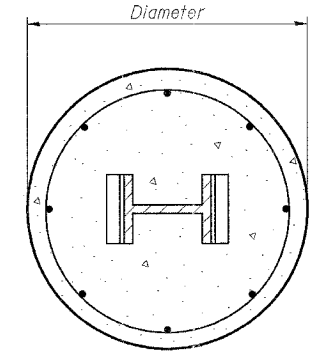
SECTION D-D



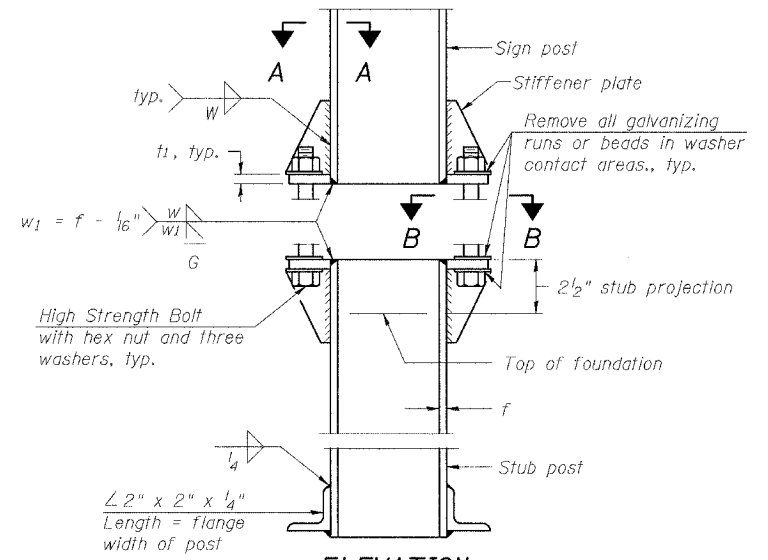
DETAIL H



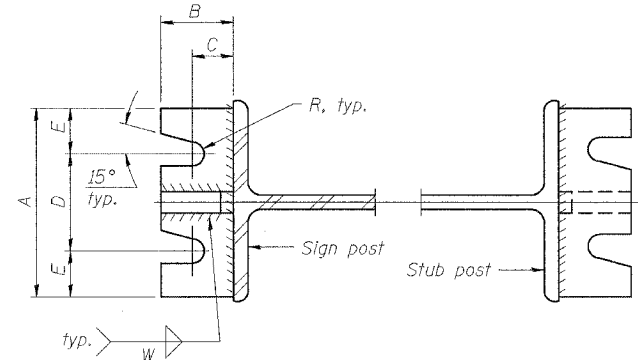
STIFFENER PLATE DETAIL  
(See table for dimensions.)



SECTION C-C

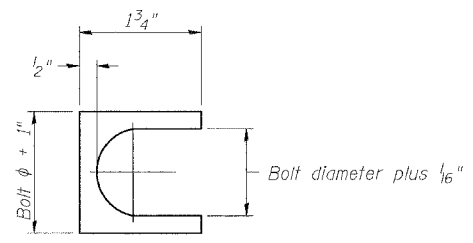


ELEVATION  
SIGN POST & STUB POST



SECTION A-A

SECTION B-B



SHIM DETAIL

**GENERAL NOTES**

Posts shall be plumbed by using shims with post-to-stub post connection bolts snug tight only. Final tightening of all High Strength Bolts shall be in accordance with Article 727.05 and threads at the junction of the bolt and nut shall be burred or center punched to prevent the nut from loosening.

LOADING: 80 m.p.h. wind with 30% gust factor, normal to sign.

DESIGN STRESSES:  
Structural steel - 20,000 p.s.i.  
Reinforcing steel - 20,000 p.s.i.  
Concrete - 1,400 p.s.i.  
Footing soil pressure - 2,000 p.s.f.

After fabrication, the post, fuse plate and upper 6", min. of the stub post shall be hot-dip galvanized in accordance with AASHTO M111. All bolts, nuts and washers shall be hot-dip galvanized in accordance with AASHTO M232.

Work this sheet with Base Sheet BAW-A-2.

REVISIONS	
NAME	DATE

(Sheet 1 of 2)

ILLINOIS DEPARTMENT OF TRANSPORTATION

**BREAK-AWAY WIDE FLANGE STEEL SIGN POST DETAILS**

SCALE: VERT. NONE  
HORIZ. DATE

DRAWN BY  
CHECKED BY

PLOT DATE = 5/11/2007  
 FILE NAME = c:\pcc\projects\final\consult\stent\vtamand\vtamand-ve\vdst - supplied - info\p025898spn.dgn  
 PLOT SCALE = 50.00000 / IN.  
 USER NAME = huse13cf

NUMBER	REVISION	DATE

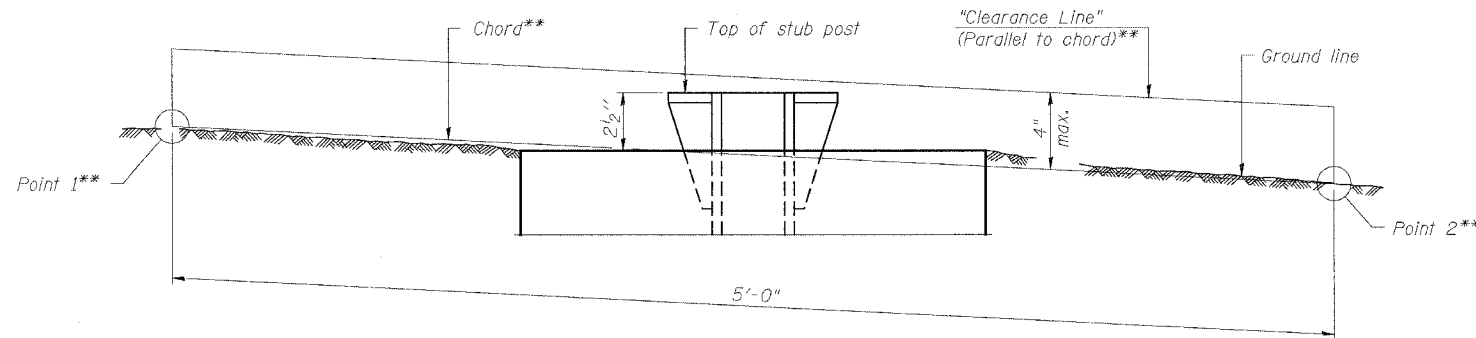


F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	141-3HBK	JEFFERSON		205
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

POST	CONCRETE FOUNDATION TABLE								POST TO STUB POST CONNECTION DATA								FUSE PLATE DATA					
	Foundation			Reinforcement			Stub Post Length	Bolt Size	A	B	C	D	E	I <sub>1</sub>	I <sub>2</sub>	R	W	J	K	L	t <sub>3</sub>	
	Diameter	* Minimum Depth	Concrete (cu. yds.)	Vertical Bars Length	Bar Spirals Diameter	Bar Spirals Length																lbs. (2)
W6x9	2'-0"	6'-0"	0.70	5'-9"	1'-8 1/2"	79'-0"	78	2'-3"	5/8" x 3/4"	6"	2 1/4"	1 1/4"	3 1/2"	1 1/4"	3/4"	1/2"	11/32"	1 1/4"	4"	2 1/4"	7/8"	1/4"
W6x15	2'-0"	6'-0"	0.70	5'-9"	1'-8 1/2"	79'-0"	78	2'-6"	5/8" x 3/4"	6"	2 1/4"	1 1/4"	3 1/2"	1 1/4"	3/4"	1/2"	11/32"	1 1/4"	6"	3 1/2"	1 1/4"	3/8"
W8x18	2'-0"	6'-0"	0.70	5'-9"	1'-8 1/2"	79'-0"	78	2'-6"	3/4" x 3/4"	6"	2 1/2"	1 3/8"	3 1/4"	1 3/8"	1"	1/2"	13/32"	5/16"	5 1/4"	2 3/4"	1 1/4"	3/8"
W10x22	2'-6"	6'-6"	1.18	6'-3"	2'-2 1/2"	105'-0"	92	3'-0"	3/4" x 3/4"	6"	2 1/2"	1 3/8"	3 1/4"	1 3/8"	1"	1/2"	13/32"	5/16"	5 3/4"	2 3/4"	1 1/2"	1/2"
W10x26	2'-6"	7'-0"	1.27	6'-9"	2'-2 1/2"	112'-0"	98	3'-0"	7/8" x 4"	7"	2 3/4"	1 1/2"	4"	1 1/2"	1"	3/4"	15/32"	3/8"	5 3/4"	2 3/4"	1 1/2"	5/8"
W12x26	2'-6"	7'-9"	1.41	7'-6"	2'-2 1/2"	119'-0"	107	3'-0"	7/8" x 4"	7"	2 3/4"	1 1/2"	4"	1 1/2"	1"	3/4"	15/32"	3/8"	6 1/2"	3 1/2"	1 1/2"	5/8"
W14x30	3'-0"	7'-3"	1.90	7'-0"	2'-8 1/2"	145'-0"	113	3'-0"	7/8" x 4"	7"	2 3/4"	1 1/2"	4"	1 1/2"	1"	3/4"	15/32"	3/8"	6 3/4"	3 1/2"	1 5/8"	1/2"
W14x38	3'-0"	8'-0"	2.09	7'-9"	2'-8 1/2"	153'-0"	122	3'-6"	1" x 4 1/2"	7 1/2"	3"	1 3/4"	4"	1 3/4"	1 1/4"	3/4"	17/32"	3/8"	6 3/4"	3 1/2"	1 5/8"	1/2"
W16x45	3'-0"	8'-6"	2.23	8'-3"	2'-8 1/2"	162'-0"	130	3'-6"	1" x 4 1/2"	7 1/2"	3"	1 3/4"	4"	1 3/4"	1 1/4"	3/4"	17/32"	3/8"	7"	3 1/2"	1 3/4"	1/2"

\*Dimensional changes required for varying site conditions shall be approved by the Engineer.

POST	FUSE PLATE BOLT SIZE												
	Sign Depth												
	4'-0"	5'-0"	6'-0"	7'-0"	8'-0"	9'-0"	10'-0"	11'-0"	12'-0"	13'-0"	14'-0"	15'-0"	16'-0"
W6x9	1/2" x 1 1/2"	1/2" x 1 1/2"	1/2" x 1 1/2"	5/8" x 1 3/4"	5/8" x 1 3/4"	5/8" x 1 3/4"	---	---	---	---	---	---	---
W6x15	1/2" x 1 3/4"	1/2" x 1 3/4"	5/8" x 2"	5/8" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	7/8" x 2"	7/8" x 2"	7/8" x 2"	---	---
W8x18	1/2" x 1 3/4"	1/2" x 1 3/4"	1/2" x 1 3/4"	5/8" x 2"	5/8" x 2"	3/4" x 2"	3/4" x 2"	7/8" x 2 1/4"	7/8" x 2 1/4"	7/8" x 2 1/4"	7/8" x 2 1/4"	7/8" x 2 1/4"	7/8" x 2 1/4"
W10x22	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2"	5/8" x 2"	3/4" x 2 1/4"	3/4" x 2 1/4"	7/8" x 2 1/4"	7/8" x 2 1/4"	7/8" x 2 1/2"	1" x 2 1/2"	1" x 2 3/4"	1" x 2 3/4"
W10x26	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2 1/4"	5/8" x 2 1/4"	3/4" x 2 1/2"	3/4" x 2 1/2"	7/8" x 2 1/2"	7/8" x 2 1/2"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1 1/8" x 3"
W12x26	---	---	---	---	---	5/8" x 2 1/4"	---	7/8" x 2 1/2"	7/8" x 2 1/2"	1" x 2 1/2"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"
W14x30	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	7/8" x 2 1/2"	1" x 2 1/2"	1" x 2 3/4"	1" x 2 3/4"
W14x38	---	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/2"	3/4" x 2 1/2"	7/8" x 2 1/2"	7/8" x 2 1/2"	1" x 2 1/2"	1" x 2 3/4"
W16x45	---	---	---	1/2" x 2"	1/2" x 2"	5/8" x 2 1/4"	5/8" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/2"	3/4" x 2 1/2"	7/8" x 2 1/2"	7/8" x 2 1/2"	1" x 2 3/4"



**ELEVATION  
GROUND LINE & STUB POST**

\*\* For all "Point 1" and "Point 2" locations, "Clearance Line" must be at or above top of stub post.

- ① Quantity includes all concrete necessary for one foundation.
- ② Includes reinforcement bars and spiral hooping for one foundation.

(Sheet 2 of 2)

NUMBER	REVISION	DATE

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**BREAK-AWAY WIDE FLANGE  
STEEL SIGN POST TABLES**

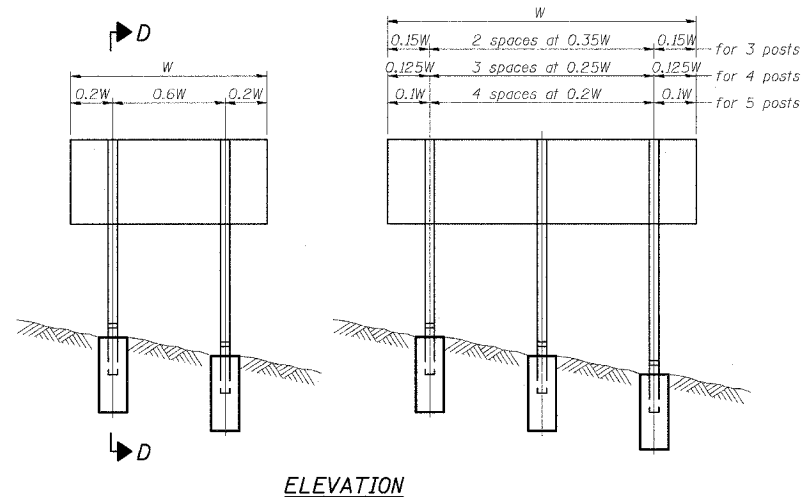
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HORIZ. DATE

DRAWN BY  
CHECKED BY

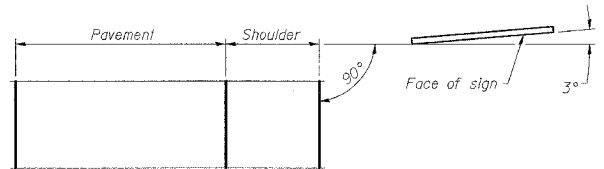
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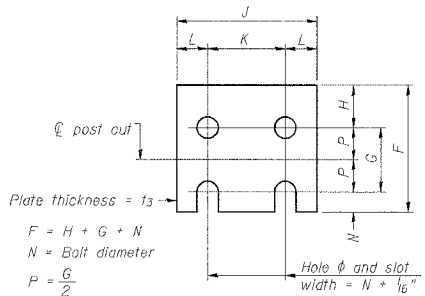
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	518	266
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



ELEVATION



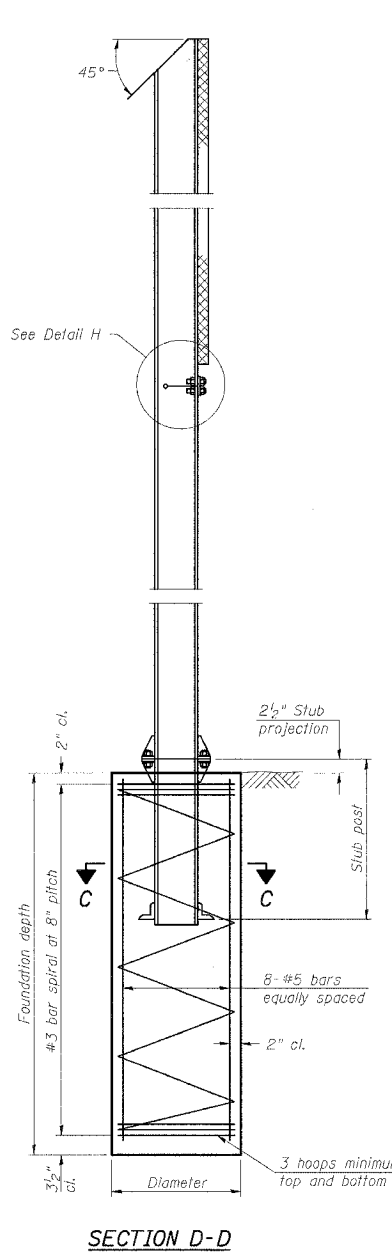
LOCATION SKETCH



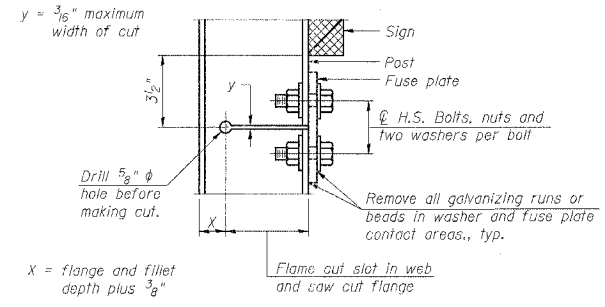
FUSE PLATE DETAIL

NUMBER	REVISION	DATE

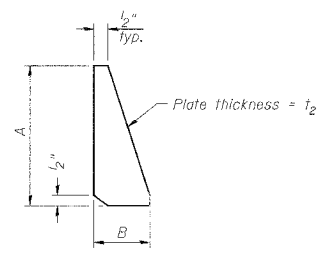
N = Bolt Diameter	G	H



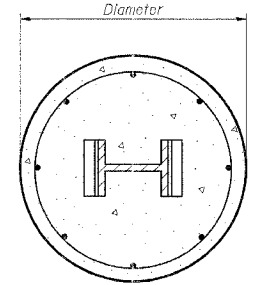
SECTION D-D



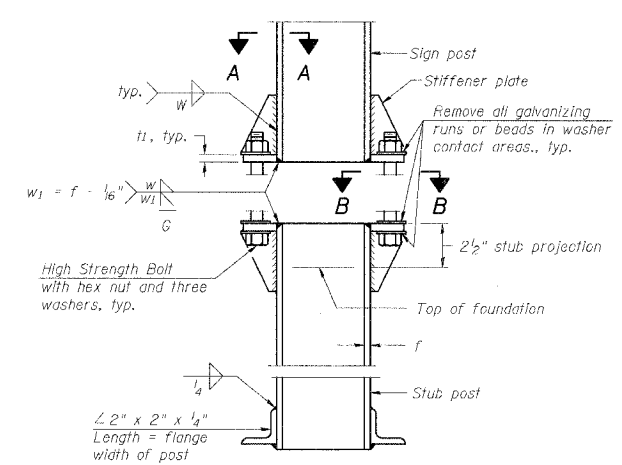
DETAIL H



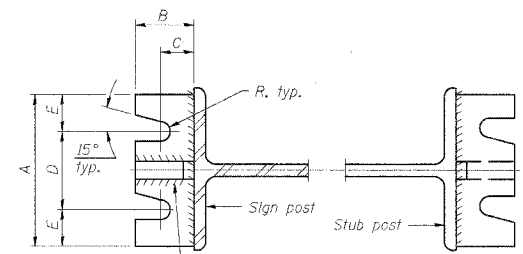
STIFFENER PLATE DETAIL



SECTION C-C

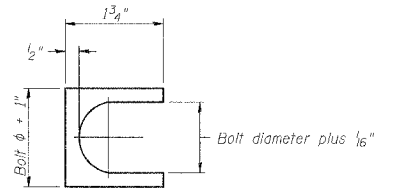


ELEVATION SIGN POST & STUB POST



SECTION A-A

SECTION B-B



SHIM DETAIL

Furnish two 0.01 inch thick and two 0.03 inch thick stainless steel or brass (ASTM B36) shims per post.

GENERAL NOTES

Posts shall be plumbed by using shims with post-to-stub post connection bolts snug tight only. Final tightening of all High Strength Bolts shall be in accordance with Article 505.04(1)(3), and threads at the junction of the bolt and nut shall be burred or center punched to prevent the nut from loosening.

LOADING: 80 m.p.h. wind with 30% gust factor, normal to sign.

DESIGN STRESSES:  
Structural steel - 20,000 p.s.i.  
Reinforcing steel - 20,000 p.s.i.  
Concrete - 1,400 p.s.i.  
Footing soil pressure - 2,000 p.s.f.

After fabrication, the post, fuse plate and upper 6 inch, min. of the stub post shall be hot-dip galvanized in accordance with AASHTO M111. All bolts, nuts and washers shall be hot-dip galvanized in accordance with AASHTO M232.

Work this sheet with Base Sheet BAW-A-2.

(Sheet 1 of 2)

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

BREAK-AWAY WIDE FLANGE STEEL SIGN POST DETAILS

SCALE: VERT. NONE  
HORIZ. DATE

DRAWN BY  
CHECKED BY

SIGNING DETAILS

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USER NAME = ket

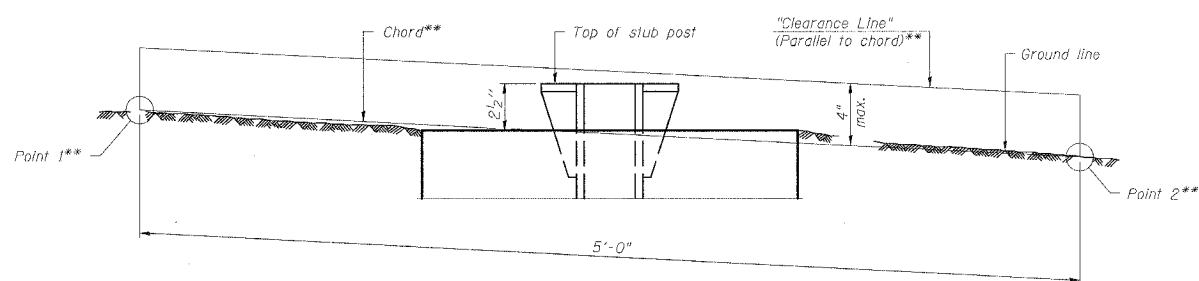
BAW-A-1 1-7-05

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-31HBK)	JEFFERSON	518	267
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

POST	CONCRETE FOUNDATION TABLE							POST TO STUB POST CONNECTION DATA							FUSE PLATE DATA							
	Foundation		Reinforcement				Stub Post	Bolt Size	A	B	C	D	E	t <sub>1</sub>	t <sub>2</sub>	R	W	J	K	L	t <sub>3</sub>	
	Diameter	* Minimum Depth	Concrete (1) (cu. yds.)	Vertical Bars Length	Bar Spirals Diameter	Bar Spirals Length	lbs. (2)															Length

\*Dimensional changes required for varying site conditions shall be approved by the Engineer.

POST	FUSE PLATE BOLT SIZE												
	Sign Depth												
	4'-0"	5'-0"	6'-0"	7'-0"	8'-0"	9'-0"	10'-0"	11'-0"	12'-0"	13'-0"	14'-0"	15'-0"	16'-0"



- ① Quantity includes all concrete necessary for one foundation.
- ② Includes reinforcement bars and spiral hooping for one foundation.

**ELEVATION**  
**GROUND LINE & STUB POST**

\*\* For all "Point 1" and "Point 2" locations, "Clearance Line" must be at or above top of stub post.

NUMBER	REVISION	DATE

BAW-A-2 1-7-05

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 USER NAME = KJ

(Sheet 2 of 2)		ILLINOIS DEPARTMENT OF TRANSPORTATION	
BREAK-AWAY WIDE FLANGE STEEL SIGN POST TABLES		DRAWN BY	
SCALE: VERT. NONE HORIZ.		CHECKED BY	
REVISIONS		DATE	
NAME			

SIGNING DETAILS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	518	263
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

ILLINOIS DEPARTMENT OF TRANSPORTATION  
District Nine Materials

Bridge Foundation  
Boring Log

Sign Truss Soil Borings Over FAI 57  
 Route: FAI 57/64 Structure Number: \_\_\_\_\_ Date: 11/20/2006  
 Section (41-3)HBK Bored By: Eryan Keller  
 County: Jefferson Location: \_\_\_\_\_ Checked By: Rob Graeff  
 Sheet 1 of 1

Boring No 1-S Station 702+50 Offset 3' Lt. Ground Surface 98.0 Ft	D E P T H	B L O W	Qu tsf	W%	Surf Wat Elev:	D E P T H	B L O W	Qu tsf	W%
					Ground Water Elevation when Drilling At Completion At: Hrs:				
Very stiff, moist, brown, Silty Clay A7-6					values multiply by 1.25.				
		6							
		13	2.4S	18					
		22							
94.0									
Stiff, moist, brown, Silty Clay A-6	5.0	2	6	1.9S	17	30.0			
		7							
91.5									
Hard, damp, brown, Silty Clay A7-6		7	20	7.1S	13				
		24							
89.0									
Very stiff, moist to damp, brown mottled grey, Silty Clay A7-6	10.0	4	8	3.0S	17	35.0			
		15							
86.5									
Hard, dry, brown, Sandstone		100/7"							
		100/4"							
15.0						40.0			
Hard, dry, grey, Clay Shale	78.0	20.0	100/10"			45.0			
Bottom of hole = 20.0 ft									
No free water observed.									
Elevation referenced to CL Sta 702+50 NB. Assume Ele = 100.0 ft									
To convert "N" values to "N60" values multiply by 1.25.	25.0					50.0			

N-Std Pentr Test: 2" OD Sampler,  
140# Hammer, 30" Fall (Type Fail. B-Bulge S-Shear E-Estimated P-Penetrometer)

ILLINOIS DEPARTMENT OF TRANSPORTATION  
District Nine Materials

Bridge Foundation  
Boring Log

Sign Truss Soil Borings Over FAI 57  
 Route: FAI 57/64 Structure Number: \_\_\_\_\_ Date: 11/20/2006  
 Section (41-3)HBK Bored By: Bryan Keller  
 County: Jefferson Location: \_\_\_\_\_ Checked By: Rob Graeff  
 Sheet 1 of 1

Boring No 2-S Station 704+40 Offset 4' Rt. Ground Surface 99.0 Ft	D E P T H	B L O W	Qu tsf	W%	Surf Wat Elev:	D E P T H	B L O W	Qu tsf	W%
					Ground Water Elevation when Drilling At Completion At: Hrs:				
Very stiff, moist, brown, Silty Clay A7-6									
		2							
		5	3.9S	18					
		6							
94.5									
Very stiff, very moist, brown mottled grey, Silty Clay to Clay A7-6	5.0	2	3	2.5B	20	30.0			
		5							
92.0									
Stiff, very moist, brown mottled grey, Silty Clay to Clay A7-6		1	4	1.8B	24				
		5							
89.5									
Very stiff, moist, brown, Silty Clay A-6 with Gravel	10.0	3	6	3.7S	18	35.0			
		9							
87.0									
Hard, dry, brown, Sandstone		100/5"							
15.0						40.0			
Hard, dry, brown, Sandy Clay Shale	81.5	100/6"							
Bottom of hole = 17.5 ft									
No free water observed.									
Elevation referenced to CL Sta 702+50 NB. Assume Ele = 100.0 ft	20.0					45.0			
To convert "N" values to "N60" values multiply by 1.25.	25.0					50.0			

N-Std Pentr Test: 2" OD Sampler,  
140# Hammer, 30" Fall (Type Fail. B-Bulge S-Shear E-Estimated P-Penetrometer)

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	518	269
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

ILLINOIS DEPARTMENT OF TRANSPORTATION  
District Nine Materials

Bridge Foundation  
Boring Log

Sign Truss Soil Borings Over FAI 57  
 Route: FAI 57/64 Structure Number: \_\_\_\_\_ Date: 11/20/2006  
 Section (41-3)HBK Bored By: Bryan Keller  
 County: Jefferson Location: \_\_\_\_\_ Checked By: Rob Graeff  
 Sheet 1 of 1

Boring No 3-S Station 702+50 Offset 3' Rt. Ground Surface 98.0Ft	D E P T H	B L O W	Qu tsf	W%	Surf Wat Elev:		D E P T H	B L O W	Qu tsf	W%
					Ground Water Elevation when Drilling	At Completion				
Very stiff, very moist, brown, Silty Clay A-6										
		2								
		6	2.9S	22						
		9								
93.5										
Stiff, moist, brown, Silty Clay A-6 with some Gravel	5.0	3					30.0			
		7	1.8S	17						
		7								
91.0										
Hard, dry, brown, Sandstone		100/3"								
	10.0						35.0			
Hard, dry, brown, Sandstone		100/9"								
	15.0						40.0			
Hard, dry, grey, Sandy Clay Shale	80.0	100/7"								
Bottom of hole = 18.0 ft										
No free water observed	20.0						45.0			
Elevation referenced to CL Sta 702+50 NB. Assume Ele = 100.0 ft										
To convert "N" values to "N60" values multiply by 1.25.										
	25.0						50.0			

N-Std Pentr Test: 2" OD Sampler,  
140# Hammer, 30" Fall (Type Fail. B-Bulge S-Shear E-Estimated P-Penetrometer)

ILLINOIS DEPARTMENT OF TRANSPORTATION  
District Nine Materials

Bridge Foundation  
Boring Log

Sign Truss Soil Borings Over FAI 57  
 Route: FAI 57/64 Structure Number: \_\_\_\_\_ Date: 11/21/2006  
 Section (41-3)HBK Bored By: Bryan Keller  
 County: Jefferson Location: \_\_\_\_\_ Checked By: Rob Graeff  
 Sheet 1 of 1

Boring No 4-S Station 704+40 Offset 3' Lt. Ground Surface 98.9Ft	D E P T H	B L O W	Qu tsf	W%	Surf Wat Elev:		D E P T H	B L O W	Qu tsf	W%
					Ground Water Elevation when Drilling	At Completion				
Very stiff, moist, brown, Silty Clay A-6										
		6								
		9	3.3B	17						
		9								
92.4										
Very stiff, moist, brown mottled grey, Silty Clay to Clay A7-6		2								
		5	3.5S	18						
		8								
89.9										
Hard, moist, brown mottled grey, Silty Clay to Clay A7-6 with some Gravel	10.0	4					35.0			
		9	4.5B	17						
		13								
87.4										
Hard, dry, brown, Sandstone		100/5"								
	15.0						40.0			
Hard, dry, brown, Sandstone	81.9	100/2"								
Bottom of hole = 17.0 ft										
No free water observed.										
Elevation referenced to CL Sta 702+50 NB. Assume Ele = 100.0 ft	20.0						45.0			
To convert "N" values to "N60" values multiply by 1.25.										
	25.0						50.0			

N-Std Pentr Test: 2" OD Sampler,  
140# Hammer, 30" Fall (Type Fail. B-Bulge S-Shear E-Estimated P-Penetrometer)

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F.A.I. RFE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	518	270
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

# SIGNS

LOCATION	SIGN PANEL - TYPE 3 SQ FT	CONCRETE FOUNDATION, GROUND MOUNT CU YD	STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY POUND	CONCRETE FOUNDATIONS CU YD	OVERHEAD SIGN STRUCTURE - SPAN, TYPE I-A (4' -0" X 4' -6") FOOT	OVERHEAD SIGN WALKWAY, TYPE A FOOT	REMOVE SIGN COMPLETE EACH	REMOVE CONCRETE FOUNDATION - GROUND MOUNT EACH	REMOVE SIGN PANEL EACH
<b>INTERSTATE 57/64</b>									
634B+00 RT - CAMPING/ATTRACTIONS (SIGN #1)	240	4.18	2125						
634B+00 RT - SECOND RIGHT (SIGN #2)	50								
642B+00 RT - LODGING (SIGN #3)	200	2.82	1394						
642B+00 RT - SECOND RIGHT (SIGN #2)	50								
650+00 RT - VETERANS MEM 1 MI (SIGN #4)	162.75	2.36	1017						
658+00 RT - LODGING (SIGN #5)	200	4.18	2193						
658+00 RT - SECOND RIGHT (SIGN #2)	50								
663+21 RT							1	2	
666+00 RT - FOOD (SIGN #6)	200	4.18	2178						
666+00 RT - SECOND RIGHT (SIGN #2)	50								
674+00 RT - VETERANS MEM 1/2 MI (SIGN #7)	162.75	2.36	1054				1	3	
681+90 RT							1	3	
682+00 RT - FOOD (SIGN # 8)	200	4.18	2254						
682+00 RT - SECOND RIGHT (SIGN #2)	50								
690+00 RT - GAS (SIGN #9)	150	2.36	986				1	3	
690+00 RT - SECOND RIGHT (SIGN #9A)	37.5								
698+00 RT							1	2	
700+50 RT - PROPOSED TRUSS				74	82	37.5			
VETERANS MEM (SIGN #10)	157.25 *								
ILL 15 3/4 MI (SIGN #11)	196 *								
716+00 RT - MT VERNON AIRPORT (#12)	80.5	1.4	564				1	2	
722+70 RT							1	2	
729+35 RT							1	2	
736+00 RT							1	2	
740+40 LT - PROPOSED TRUSS				74	91	48.5			
VETERANS MEM (SIGN #13)	157.25 *								
64/57 JUNCTION (SIGN #14)	300 *								
RAMP B STATION 322+00 RT - IL 15 1/4 MI (SIGN #15)	196	2.54	1378						
759+00 LT - VETERANS MEM 1/4 MI (SIGN #16)	162.75	2.36	1028						
STA 789+15 LT- EXISTING TRUSS									2
ILL 15 (SIGN #17)	198 *								
VETERANS MEM 3/4 MI (SIGN #18)	162.75 *								
<b>VETERANS MEMORIAL DRIVE</b>									
43+00 RT - (SIGN #19)	238	4.18	2175						
57N - 64W EFFINGHAM EAST ST LOUIS									
57S - 64E CAIRO EVANSVILLE									
45+35 LT - (SIGN #20)	119	3.8	2094						
57N - 64E CAIRO EVANSVILLE									
47+70 RT - (SIGN #21)	72	1.4	735						
57N - 64W DOUBLE ARROWS									
51+50 LT - (SIGN #22)	72	3.6	1215						
57S - 64E COUBLE ARROWS									
54+00 RT - (SIGN #23)	119	3.6	1239						
57N - 64W EFFINGHAM EAST ST LOUIS									
56+30 LT - (SIGN #24)	238	4.46	3182						
57S - 64E CAIRO EVANSVILLE									
57N - 64W EFFINGHAM EAST ST LOUIS									
<b>TOTALS</b>	<b>4272</b>	<b>54</b>	<b>26811</b>	<b>148</b>	<b>173</b>	<b>86</b>	<b>9</b>	<b>21</b>	<b>2</b>

\* PROPOSED SIGN PANELS PLACED ON TRUSSES (1171.25 SQ FT) WILL BE PAID FOR AS 100% STATE. A FLEXIBLE COLORED SUPER-HIGH EFFICIENCY FULL CUBE RETROFLECTIVE SHEETING WILL BE APPLIED TO THESE PANELS, SEE SPECIAL PROVISIONS FOR DETAILS.

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REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		<b>SIGN SCHEDULE</b>

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 DATE:                      HORIZ. NONE  
 DRAWN BY:                      CHECKED BY:

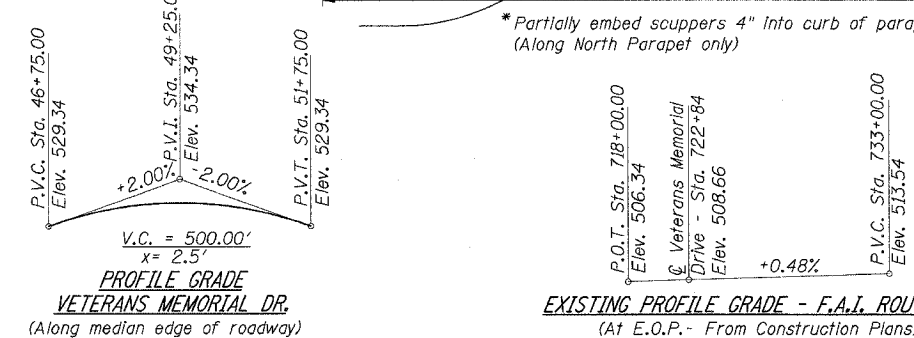
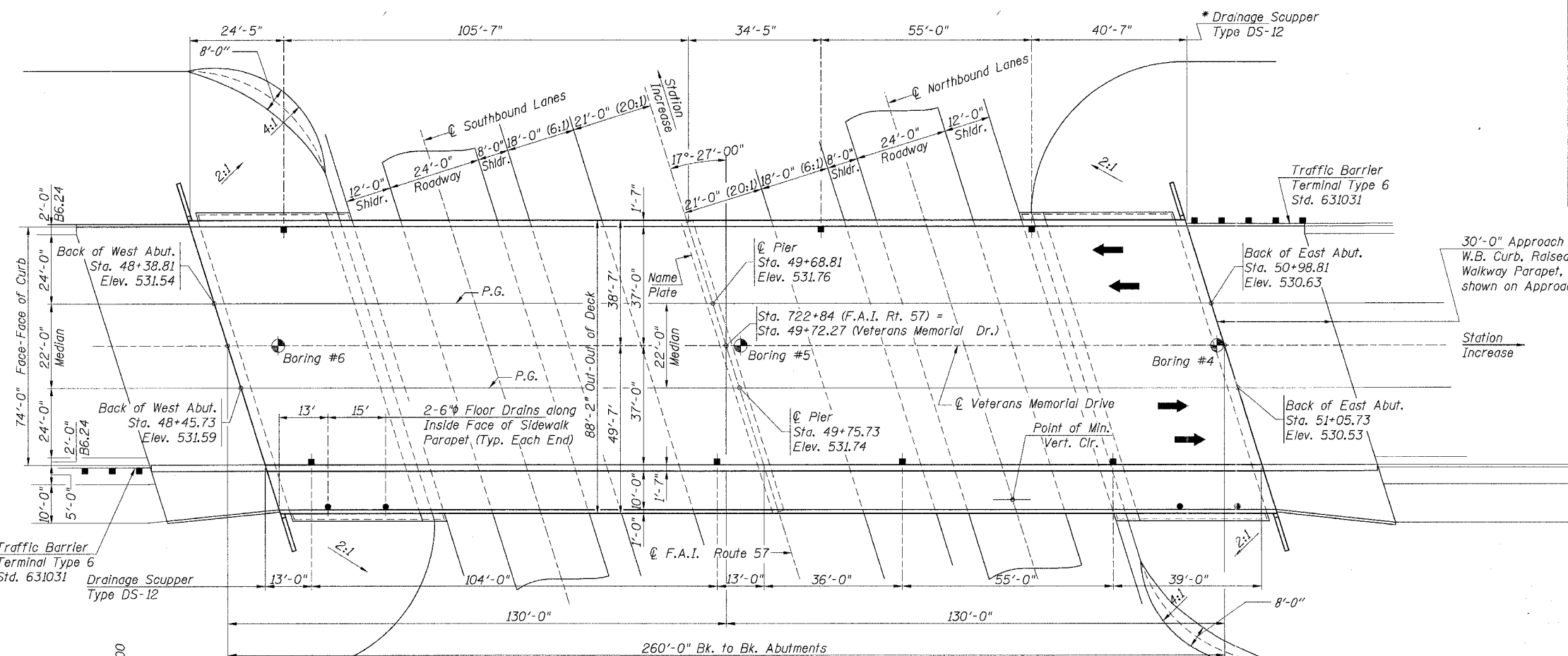
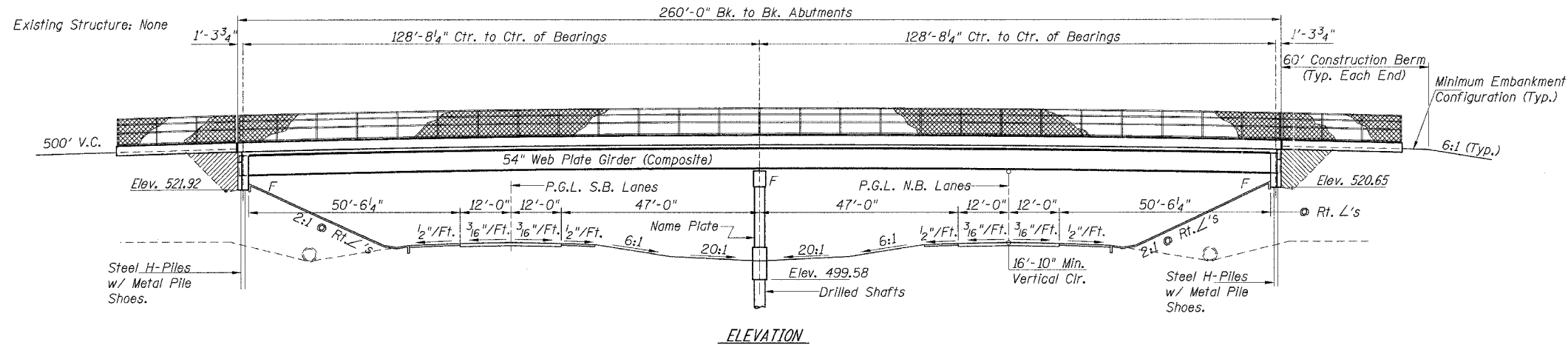
## SIGN SCHEDULE

Bench Mark Data: #9805-Top of Iron Pin, flush with ground, located 21.6 ft. east of centerline of Wells By-Pass, 7.9 ft. west of fence corner post, and 360 ft. north of Graham Road. Elev. 507.67

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	518	271
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 98963

Sheet 1 of 25



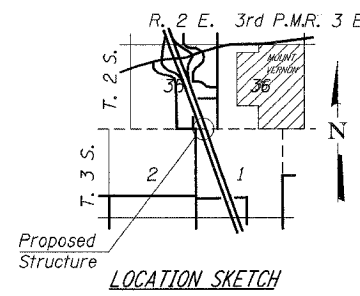
**PLAN**

**DESIGN SPECIFICATIONS**  
2002 AASHTO

**DESIGN STRESSES**  
 $f_c' = 3,500$  p.s.i.  
 $f_y = 60,000$  p.s.i. (Reinforcement)  
 $f_y = 50$  K.s.i. (AASHTO M 270, Gr. 50)  
 $f_y = 36$  K.s.i. (AASHTO M 270, Gr. 36)

**LOADING HS20-44**  
Allow for 50 lbs./sq.ft. for future wearing surface

**SEISMIC DATA**  
 Seismic Performance Category = B  
 Bedrock Acceleration Coefficient (A) = 0.10g  
 Site Coefficient (S) = 1.0



**TOTAL BILL OF MATERIAL**

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment (Special)	Cu. Yd.	-	496	496
Structure Excavation	Cu. Yd.	-	576	576
Concrete Structures	Cu. Yd.	-	285.8	285.8
Concrete Superstructure	Cu. Yd.	814.5	-	814.5
Bridge Deck Grooving	Sq. Yd.	1387	-	1387
Protective Coat	Sq. Yd.	2853	-	2853
Furnishing and Erecting Structural Steel	L. Sum	1	-	-
Stud Shear Connectors	Each	5280	-	5280
Reinforcement Bars, Epoxy Coated	Pound	195970	73440	269410
Reinforcement Bars	Pound	-	4970	4970
Slopedwall 4 Inch	Sq. Yd.	-	971	971
Furnishing Steel Piles HP 12x84	Foot	-	990	990
Driving Piles	Foot	-	990	990
Test Pile Steel HP 12x84	Each	-	2	2
Pile Shoes	Each	-	24	24
Name Plates	Each	1	-	1
Drainage Scupper, DS-12	Each	7	-	7
Bar Splicers	Each	174	-	174
Drilled Shaft In Soil	Cu. Yd.	-	68.4	68.4
Drilled Shaft In Rock	Cu. Yd.	-	16.3	16.3
Bridge Fence Railing	Foot	260	-	260
Parapet Railing	Foot	260	-	260
Floor Drains	Each	4	-	4
Pipe Underdrains for Structures 4"	Foot	-	311	311
Geocomposite Wall Drain	Sq. Yd.	-	187	187
Concrete Encasement	Cu. Yd.	-	8.4	8.4

STATION 49+72.27  
 BUILT BY  
 STATE OF ILLINOIS  
 SEC. (41-3)HBK  
 F.A.I. RTE. 57/64  
 LOADING HS20  
 STR. NO. 041-0108

**NAME PLATE**  
See Std. 515001



**APPROVED**  
 FOR STRUCTURAL ADEQUACY ONLY  
 Robert E. Anderson  
 ENGINEER OF BRIDGES AND STRUCTURES

SIGNATURE: \_\_\_\_\_  
 DATE SIGNED: 3/21/07  
 LIC. EXP. DATE: 11/30/08

**GENERAL PLAN and ELEVATION**  
 VETERANS MEMORIAL DR. over F.A.I. ROUTES 57/64  
 SECTION (41-3)HBK  
 JEFFERSON COUNTY  
 STATION 49+72.27  
 STRUCTURE NO. 041-0108



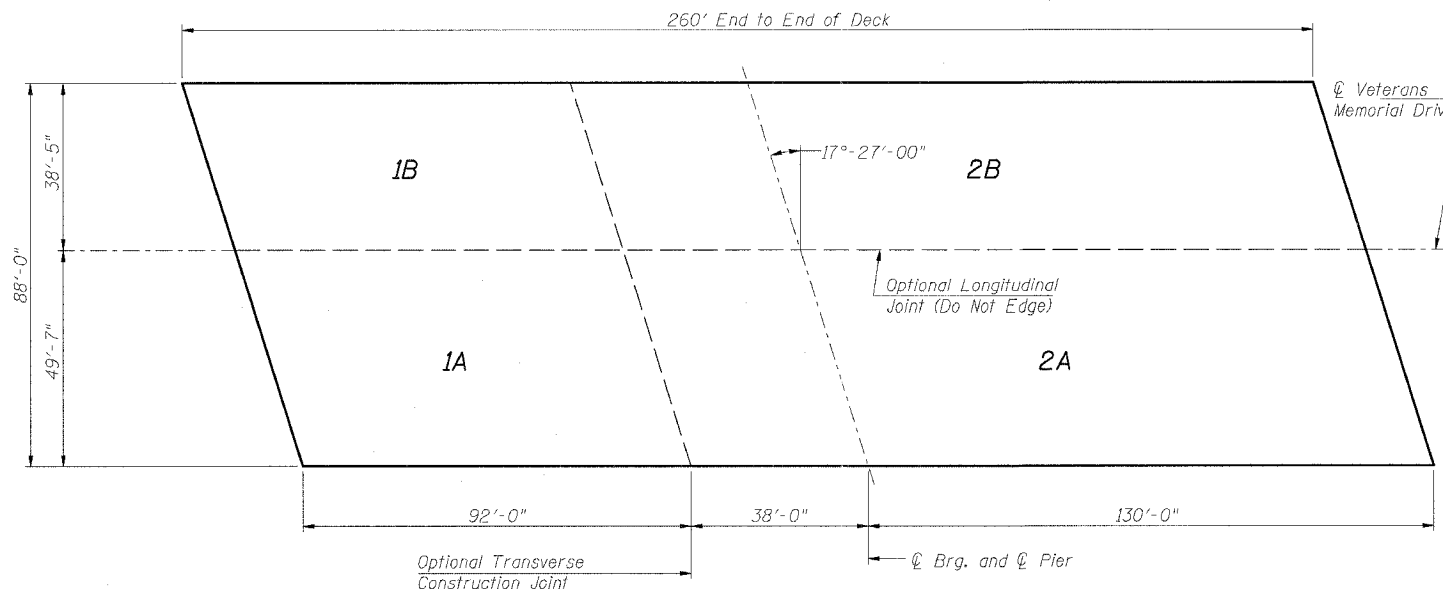
March 2007 Submit+rd  
 3/21/2007  
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 DRAWN: PWB 02/02/04  
 CHECKED: T.F.H. 02/02/04  
 REVIEWED: / / /

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	518	272
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 98963				

Sheet 2 of 25

### GENERAL NOTES

- Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts. Bolts  $\frac{7}{8}$  in.  $\phi$ , holes  $\frac{15}{16}$  in.  $\phi$ , unless otherwise noted.
- Calculated weight of Structural Steel: AASHTO M270 Grade 36 = 50280 lbs.  
AASHTO M270 Grade 50 = 708350 lbs.
- No field welding is permitted except as specified in the contract documents.
- Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60 (IL Modified). See Special Provisions
- Reinforcement bars designated (E) shall be epoxy coated.
- The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.
- Bearing seat surfaces shall be constructed or adjusted to their designated elevations within a tolerance of  $\frac{1}{8}$  inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.
- The Contractor shall drive test piles to 110% of the nominal required bearing specified in production locations at substructures specified or approved by the Engineer before ordering the remainder of piles.
- In lieu of the hammer selection criteria and use of the FHWA Modified Gates formula specified in Section 512 of the Standard Specifications, the Contractor shall conduct a wave equation analysis to establish the driving criteria at all pile foundations which specify a nominal required bearing above 600 kips. The analysis and calculations shall be submitted to the Engineer for approval.
- When the deck pour is stopped for the day at one or more of the transverse bonded construction joints in the deck pouring sequence as shown, the next pour shall not be made until both of the following are met:
  - At least 72 hours shall have elapsed from the end of the previous pour.
  - The concrete strength shall have attained a minimum flexural strength of 650 psi or a minimum compressive strength of 3500 psi.
- 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 for all interior steel surfaces shall be gray, Munsell No. 5B 7/1. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be Interstate Green, Munsell No. 7.5G 4/8. See Special Provision for "Cleaning and Painting New Metal Structures".
- Slipforming of parapet at south edge of structure will not be allowed.

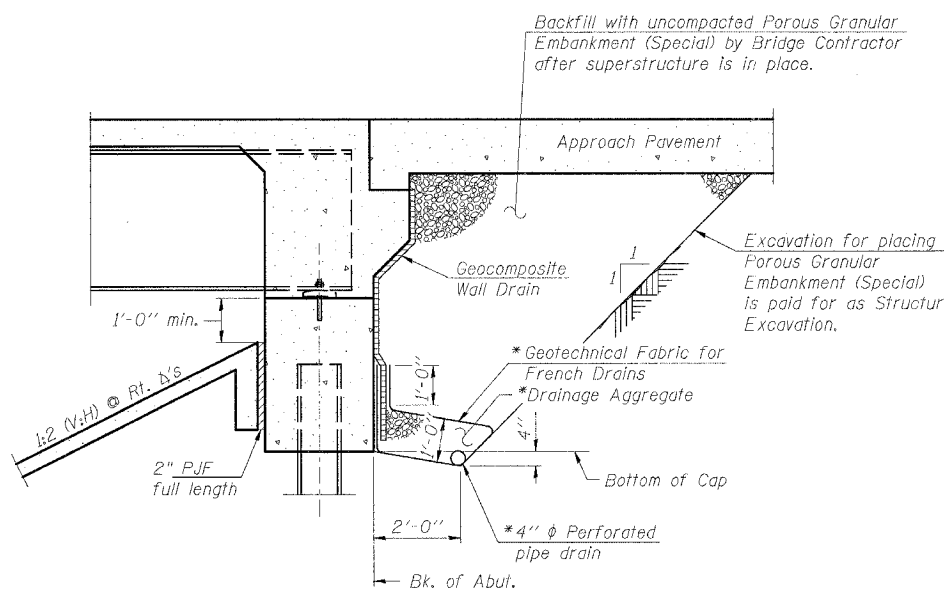


### DECK POURING SEQUENCE

The concrete deck segments shall be poured in the numerical order shown above.

### INDEX OF SHEETS

- GENERAL PLAN and ELEVATION
- GENERAL NOTES
- TOP of SLAB ELEVATIONS (Sheet 1)
- TOP of SLAB ELEVATIONS (Sheet 2)
- TOP of SLAB ELEVATIONS (Sheet 3)
- TOP of WEST APPROACH SLAB ELEVATIONS
- TOP of EAST APPROACH SLAB ELEVATIONS
- SUPERSTRUCTURE
- RAISED MEDIAN DETAILS
- PARAPET DETAILS
- END DIAPHRAGM DETAILS
- SUPERSTRUCTURE DETAILS
- BRIDGE FENCE RAILING PARAPET MOUNTED
- BICYCLE RAILING
- DRAINAGE SCUPPER, DS-12
- STRUCTURAL STEEL
- STRUCTURAL STEEL DETAILS
- BEARING DETAILS
- WEST ABUTMENT
- EAST ABUTMENT
- PIER DETAILS (Sheet 1 of 2)
- PIER DETAILS (Sheet 2 of 2)
- BAR SPLICER ASSEMBLY DETAILS
- PILE DETAILS
- BORINGS

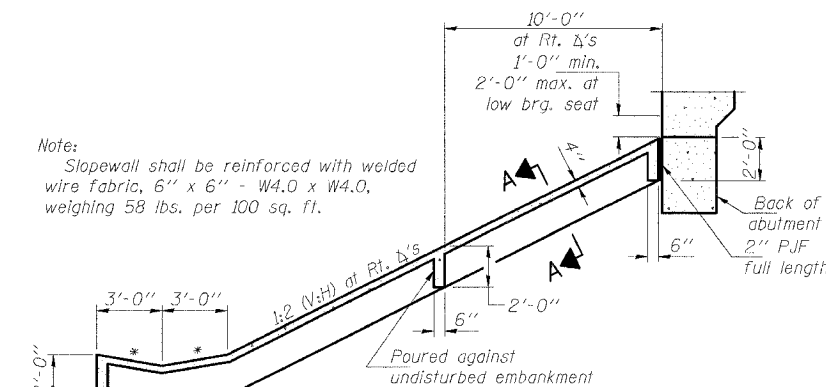


### SECTION THRU INTEGRAL ABUTMENT

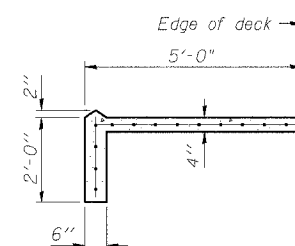
(Horiz. dim. @ Rt. L's)

\* Included in the cost of Pipe Underdrains for Structures 4".

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).



### SECTION THRU CONCRETE SLOPEWALL



### SECTION A-A

GENERAL NOTES  
VETERANS MEMORIAL DR. over F.A.I. ROUTES 57/64  
SECTION (41-3)HBK  
JEFFERSON COUNTY  
STATION 49+72.27  
STRUCTURE NO. 041-0108

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JOB NO.

98S2019A

DATE

03-14-07

March 2007 Submital  
05/05/2007 03:43 PM  
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LAYOUT	CSH	02/02/04
DRAWN	MM	03/12/07
DESIGNED	MM	03/12/07
REVIEWED	MM	/ /
LAYOUT	CSH	02/02/04
DRAWN	MM	03/12/07
DESIGNED	MM	03/12/07
REVIEWED	MM	/ /



**GIRDER 1**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. West Abut.	48+31.164	35.333	531.001	531.001
C Brg.	48+32.474	35.333	531.011	531.011
a	48+42.474	35.333	531.081	531.129
b	48+52.474	35.333	531.143	531.240
c	48+62.474	35.333	531.197	531.342
d	48+72.474	35.333	531.243	531.404
e	48+82.474	35.333	531.281	531.448
f	48+92.474	35.333	531.311	531.484
g	49+02.474	35.333	531.333	531.491
h	49+12.474	35.333	531.347	531.474
i	49+22.474	35.333	531.353	531.449
j	49+32.474	35.333	531.351	531.418
k	49+42.474	35.333	531.341	531.385
m	49+52.474	35.333	531.323	531.343
C Brg. Pier	49+61.164	35.333	531.301	531.301
n	49+71.164	35.333	531.268	531.291
p	49+81.164	35.333	531.227	531.274
q	49+91.164	35.333	531.178	531.248
r	50+01.164	35.333	531.121	531.221
s	50+11.164	35.333	531.056	531.187
t	50+21.164	35.333	530.983	531.146
u	50+31.164	35.333	530.903	531.075
v	50+41.164	35.333	530.814	530.980
w	50+51.164	35.333	530.717	530.877
x	50+61.164	35.333	530.612	530.751
y	50+71.164	35.333	530.499	530.589
z	50+81.164	35.333	530.378	530.420
C Brg.	50+89.854	35.333	530.266	530.266
Bk. East Abut.	50+91.164	35.333	530.249	530.249

**GIRDER 2**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. West Abut.	48+33.730	27.167	531.183	531.183
C Brg.	48+35.041	27.167	531.193	531.193
a	48+45.041	27.167	531.261	531.309
b	48+55.041	27.167	531.321	531.418
c	48+65.041	27.167	531.373	531.518
d	48+75.041	27.167	531.417	531.578
e	48+85.041	27.167	531.453	531.620
f	48+95.041	27.167	531.481	531.654
g	49+05.041	27.167	531.501	531.659
h	49+15.041	27.167	531.513	531.640
i	49+25.041	27.167	531.517	531.612
j	49+35.041	27.167	531.513	531.580
k	49+45.041	27.167	531.501	531.544
m	49+55.041	27.167	531.481	531.501
C Brg. Pier	49+63.730	27.167	531.457	531.457
n	49+73.730	27.167	531.422	531.445
p	49+83.730	27.167	531.379	531.425
q	49+93.730	27.167	531.328	531.398
r	50+03.730	27.167	531.269	531.369
s	50+13.730	27.167	531.202	531.333
t	50+23.730	27.167	531.127	531.289
u	50+33.730	27.167	531.044	531.216
v	50+43.730	27.167	530.953	531.119
w	50+53.730	27.167	530.854	531.014
x	50+63.730	27.167	530.747	530.886
y	50+73.730	27.167	530.632	530.722
z	50+83.730	27.167	530.509	530.551
C Brg.	50+92.420	27.167	530.396	530.396
Bk. East Abut.	50+93.730	27.167	530.378	530.378

**GIRDER 3**

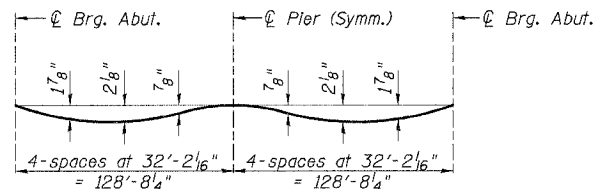
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. West Abut.	48+36.297	19.000	531.365	531.365
C Brg.	48+37.607	19.000	531.375	531.375
a	48+47.607	19.000	531.440	531.489
b	48+57.607	19.000	531.498	531.595
c	48+67.607	19.000	531.548	531.694
d	48+77.607	19.000	531.590	531.751
e	48+87.607	19.000	531.624	531.791
f	48+97.607	19.000	531.650	531.823
g	49+07.607	19.000	531.668	531.826
h	49+17.607	19.000	531.678	531.805
i	49+27.607	19.000	531.680	531.775
j	49+37.607	19.000	531.674	531.741
k	49+47.607	19.000	531.660	531.703
m	49+57.607	19.000	531.637	531.658
C Brg. Pier	49+66.297	19.000	531.612	531.612
n	49+76.297	19.000	531.575	531.598
p	49+86.297	19.000	531.530	531.577
q	49+96.297	19.000	531.477	531.547
r	50+06.297	19.000	531.416	531.515
s	50+16.297	19.000	531.347	531.478
t	50+26.297	19.000	531.270	531.432
u	50+36.297	19.000	531.185	531.357
v	50+46.297	19.000	531.091	531.258
w	50+56.297	19.000	530.990	531.150
x	50+66.297	19.000	530.881	531.020
y	50+76.297	19.000	530.764	530.855
z	50+86.297	19.000	530.639	530.681
C Brg.	50+94.987	19.000	530.524	530.524
Bk. East Abut.	50+96.297	19.000	530.506	530.506

**PROFILE GRADE LINE (W.B.L.)**

Sheet 3 of 25

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. West Abut.	48+38.813	11.000	531.543	531.543
C Brg.	48+40.123	11.000	531.552	531.552
a	48+50.123	11.000	531.616	531.664
b	48+60.123	11.000	531.672	531.769
c	48+70.123	11.000	531.720	531.865
d	48+80.123	11.000	531.759	531.920
e	48+90.123	11.000	531.791	531.958
f	49+00.123	11.000	531.815	531.989
g	49+10.123	11.000	531.831	531.989
h	49+20.123	11.000	531.839	531.966
i	49+30.123	11.000	531.839	531.935
j	49+40.123	11.000	531.831	531.898
k	49+50.123	11.000	531.815	531.858
m	49+60.123	11.000	531.791	531.811
C Brg. Pier	49+68.813	11.000	531.763	531.763
n	49+78.813	11.000	531.724	531.748
p	49+88.813	11.000	531.677	531.724
q	49+98.813	11.000	531.622	531.692
r	50+08.813	11.000	531.559	531.659
s	50+18.813	11.000	531.488	531.619
t	50+28.813	11.000	531.409	531.571
u	50+38.813	11.000	531.322	531.494
v	50+48.813	11.000	531.227	531.393
w	50+58.813	11.000	531.124	531.284
x	50+68.813	11.000	531.013	531.152
y	50+78.813	11.000	530.894	530.984
z	50+88.813	11.000	530.767	530.809
C Brg.	50+97.502	11.000	530.650	530.650
Bk. East Abut.	50+98.813	11.000	530.632	530.632

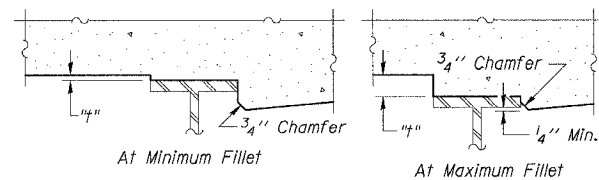
Note: Offsets are from C Veterans Memorial Drive



**DEAD LOAD DEFLECTION DIAGRAM**

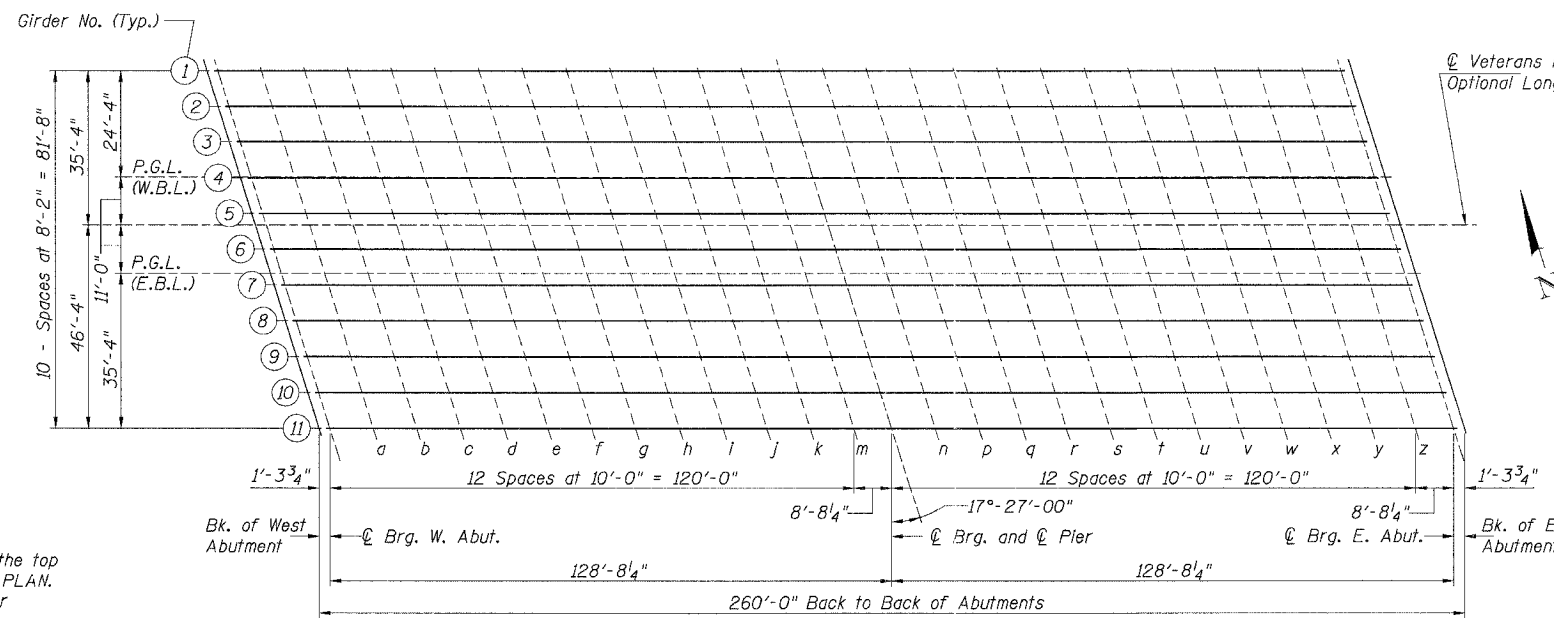
(Includes weight of concrete only.)

Note: The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on the tables above and on the following 2 sheets.



**FILLET HEIGHTS**

To determine "h": After all structural steel has been erected, elevations of the top flanges of the girders shall be taken at intervals shown on the DIAGRAMATIC PLAN. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on the tables above and on the following 2 sheets, minus slab thickness, equals the fillet heights "h" above top flange of girders.



**DIAGRAMATIC PLAN**

TOP of SLAB ELEVATIONS (Sheet 1)  
 VETERANS MEMORIAL DR. over F.A.I. ROUTES 57/64  
 SECTION (41-3)HBK  
 JEFFERSON COUNTY  
 STATION 49+72.27  
 STRUCTURE NO. 041-0108

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JOB NO. 98S2019A  
 DATE 03-14-07

3/21/2007  
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 LAYOUT: 02/02/04  
 DRAWN: 02/02/04  
 REVIEWED: JFH: 02/02/04

**GIRDER 4**

**GIRDER 5**

**OPTIONAL LONGITUDINAL CONSTRUCTION JOINT  
AND @ VETERANS MEMORIAL DRIVE**

**GIRDER 6**

Sheet 4 of 25

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. West Abut.	48+38.865	10.833	531.547	531.547
@ Brg.	48+40.175	10.833	531.556	531.556
a	48+50.175	10.833	531.619	531.668
b	48+60.175	10.833	531.675	531.772
c	48+70.175	10.833	531.723	531.868
d	48+80.175	10.833	531.763	531.924
e	48+90.175	10.833	531.795	531.962
f	49+00.175	10.833	531.819	531.992
g	49+10.175	10.833	531.835	531.993
h	49+20.175	10.833	531.842	531.969
i	49+30.175	10.833	531.842	531.938
j	49+40.175	10.833	531.834	531.901
k	49+50.175	10.833	531.818	531.862
m	49+60.175	10.833	531.794	531.814
@ Brg. Pier	49+68.865	10.833	531.766	531.766
n	49+78.865	10.833	531.727	531.751
p	49+88.865	10.833	531.680	531.727
q	49+98.865	10.833	531.625	531.695
r	50+08.865	10.833	531.562	531.662
s	50+18.865	10.833	531.491	531.622
t	50+28.865	10.833	531.412	531.574
u	50+38.865	10.833	531.325	531.497
v	50+48.865	10.833	531.230	531.396
w	50+58.865	10.833	531.127	531.286
x	50+68.865	10.833	531.015	531.154
y	50+78.865	10.833	530.896	530.987
z	50+88.865	10.833	530.769	530.811
@ Brg.	50+97.555	10.833	530.652	530.652
Bk. East Abut.	50+98.865	10.833	530.634	530.634

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. West Abut.	48+41.432	2.667	531.727	531.727
@ Brg.	48+42.742	2.667	531.736	531.736
u	48+52.742	2.667	531.798	531.846
b	48+62.742	2.667	531.852	531.949
c	48+72.742	2.667	531.897	532.043
d	48+82.742	2.667	531.935	532.096
e	48+92.742	2.667	531.965	532.132
f	49+02.742	2.667	531.987	532.160
g	49+12.742	2.667	532.001	532.159
h	49+22.742	2.667	532.006	532.133
i	49+32.742	2.667	532.004	532.100
j	49+42.742	2.667	531.994	532.061
k	49+52.742	2.667	531.976	532.020
m	49+62.742	2.667	531.950	531.970
@ Brg. Pier	49+71.432	2.667	531.920	531.920
n	49+81.432	2.667	531.879	531.903
p	49+91.432	2.667	531.830	531.877
q	50+01.432	2.667	531.773	531.843
r	50+11.432	2.667	531.708	531.808
s	50+21.432	2.667	531.635	531.766
t	50+31.432	2.667	531.554	531.716
u	50+41.432	2.667	531.464	531.637
v	50+51.432	2.667	531.367	531.534
w	50+61.432	2.667	531.262	531.422
x	50+71.432	2.667	531.149	531.288
y	50+81.432	2.667	531.028	531.118
z	50+91.432	2.667	530.899	530.941
@ Brg.	51+00.122	2.667	530.780	530.780
Bk. East Abut.	51+01.432	2.667	530.762	530.762

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. West Abut.	48+42.270	0.000	531.786	531.786
@ Brg.	48+43.580	0.000	531.795	531.795
a	48+53.580	0.000	531.856	531.904
b	48+63.580	0.000	531.909	532.006
c	48+73.580	0.000	531.954	532.100
d	48+83.580	0.000	531.991	532.152
e	48+93.580	0.000	532.021	532.188
f	49+03.580	0.000	532.042	532.215
g	49+13.580	0.000	532.055	532.213
h	49+23.580	0.000	532.060	532.187
i	49+33.580	0.000	532.057	532.153
j	49+43.580	0.000	532.046	532.113
k	49+53.580	0.000	532.027	532.071
m	49+63.580	0.000	532.000	532.021
@ Brg. Pier	49+72.270	0.000	531.971	531.971
n	49+82.270	0.000	531.929	531.952
p	49+92.270	0.000	531.879	531.926
q	50+02.270	0.000	531.821	531.891
r	50+12.270	0.000	531.755	531.855
s	50+22.270	0.000	531.682	531.813
t	50+32.270	0.000	531.600	531.762
u	50+42.270	0.000	531.510	531.682
v	50+52.270	0.000	531.412	531.578
w	50+62.270	0.000	531.306	531.466
x	50+72.270	0.000	531.192	531.331
y	50+82.270	0.000	531.071	531.161
z	50+92.270	0.000	530.941	530.983
@ Brg.	51+00.960	0.000	530.822	530.822
Bk. East Abut.	51+02.270	0.000	530.803	530.803

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. West Abut.	48+43.999	5.500	531.688	531.688
@ Brg.	48+45.309	5.500	531.696	531.696
a	48+55.309	5.500	531.756	531.804
b	48+65.309	5.500	531.807	531.904
c	48+75.309	5.500	531.851	531.997
d	48+85.309	5.500	531.887	532.048
e	48+95.309	5.500	531.915	532.082
f	49+05.309	5.500	531.935	532.108
g	49+15.309	5.500	531.946	532.105
h	49+25.309	5.500	531.950	532.077
i	49+35.309	5.500	531.946	532.041
j	49+45.309	5.500	531.933	532.001
k	49+55.309	5.500	531.913	531.957
m	49+65.309	5.500	531.885	531.905
@ Brg. Pier	49+73.999	5.500	531.854	531.854
n	49+83.999	5.500	531.811	531.834
p	49+93.999	5.500	531.760	531.806
q	50+03.999	5.500	531.700	531.771
r	50+13.999	5.500	531.633	531.733
s	50+23.999	5.500	531.558	531.689
t	50+33.999	5.500	531.475	531.637
u	50+43.999	5.500	531.384	531.556
v	50+53.999	5.500	531.284	531.451
w	50+63.999	5.500	531.177	531.337
x	50+73.999	5.500	531.062	531.201
y	50+83.999	5.500	530.939	531.029
z	50+93.999	5.500	530.808	530.850
@ Brg.	51+02.689	5.500	530.687	530.687
Bk. East Abut.	51+03.999	5.500	530.668	530.668

**PROFILE GRADE LINE (E.B.L.)**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. West Abut.	48+45.728	11.000	531.589	531.589
@ Brg.	48+47.038	11.000	531.597	531.597
a	48+57.038	11.000	531.655	531.704
b	48+67.038	11.000	531.706	531.803
c	48+77.038	11.000	531.748	531.893
d	48+87.038	11.000	531.782	531.943
e	48+97.038	11.000	531.809	531.976
f	49+07.038	11.000	531.827	532.000
g	49+17.038	11.000	531.837	531.996
h	49+27.038	11.000	531.840	531.967
i	49+37.038	11.000	531.834	531.930
j	49+47.038	11.000	531.821	531.888
k	49+57.038	11.000	531.799	531.843
m	49+67.038	11.000	531.769	531.790
@ Brg. Pier	49+75.728	11.000	531.737	531.737
n	49+85.728	11.000	531.693	531.716
p	49+95.728	11.000	531.640	531.687
q	50+05.728	11.000	531.579	531.650
r	50+15.728	11.000	531.511	531.611
s	50+25.728	11.000	531.434	531.565
t	50+35.728	11.000	531.350	531.512
u	50+45.728	11.000	531.257	531.430
v	50+55.728	11.000	531.156	531.323
w	50+65.728	11.000	531.048	531.208
x	50+75.728	11.000	530.931	531.070
y	50+85.728	11.000	530.807	530.897
z	50+95.728	11.000	530.674	530.716
@ Brg.	51+04.417	11.000	530.552	530.552
Bk. East Abut.	51+05.728	11.000	530.534	530.534

Note: Offset are from @ Veterans Memorial Drive

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TOP of SLAB ELEVATIONS (Sheet 2)  
 VETERANS MEMORIAL DR. over F.A.I. ROUTES 57/64  
 SECTION (41-3)HBK  
 JEFFERSON COUNTY  
 STATION 49+72.27  
 STRUCTURE NO. 041-0108

**GIRDER 7**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. West Abut.	48+46.566	13.667	531.541	531.541
@ Brg.	48+47.876	13.667	531.549	531.549
a	48+57.876	13.667	531.606	531.655
b	48+67.876	13.667	531.656	531.753
c	48+77.876	13.667	531.698	531.843
d	48+87.876	13.667	531.732	531.892
e	48+97.876	13.667	531.757	531.924
f	49+07.876	13.667	531.775	531.948
g	49+17.876	13.667	531.785	531.943
h	49+27.876	13.667	531.786	531.913
i	49+37.876	13.667	531.780	531.876
j	49+47.876	13.667	531.766	531.833
k	49+57.876	13.667	531.743	531.787
m	49+67.876	13.667	531.713	531.733
@ Brg. Pier	49+76.566	13.667	531.680	531.680
n	49+86.566	13.667	531.635	531.658
p	49+96.566	13.667	531.582	531.629
q	50+06.566	13.667	531.521	531.591
r	50+16.566	13.667	531.451	531.551
s	50+26.566	13.667	531.374	531.505
t	50+36.566	13.667	531.289	531.451
u	50+46.566	13.667	531.196	531.368
v	50+56.566	13.667	531.094	531.261
w	50+66.566	13.667	530.985	531.145
x	50+76.566	13.667	530.868	531.007
y	50+86.566	13.667	530.742	530.833
z	50+96.566	13.667	530.609	530.651
@ Brg.	51+05.256	13.667	530.487	530.487
Bk. East Abut.	51+06.566	13.667	530.468	530.468

**GIRDER 8**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. West Abut.	48+49.133	21.833	531.393	531.393
@ Brg.	48+50.443	21.833	531.401	531.401
a	48+60.443	21.833	531.457	531.505
b	48+70.443	21.833	531.504	531.601
c	48+80.443	21.833	531.544	531.689
d	48+90.443	21.833	531.576	531.736
e	49+00.443	21.833	531.599	531.766
f	49+10.443	21.833	531.615	531.788
g	49+20.443	21.833	531.622	531.781
h	49+30.443	21.833	531.622	531.749
i	49+40.443	21.833	531.614	531.709
j	49+50.443	21.833	531.597	531.665
k	49+60.443	21.833	531.573	531.617
m	49+70.443	21.833	531.541	531.561
@ Brg. Pier	49+79.133	21.833	531.506	531.506
n	49+89.133	21.833	531.459	531.482
p	49+99.133	21.833	531.404	531.450
q	50+09.133	21.833	531.340	531.410
r	50+19.133	21.833	531.269	531.369
s	50+29.133	21.833	531.190	531.321
t	50+39.133	21.833	531.102	531.265
u	50+49.133	21.833	531.007	531.179
v	50+59.133	21.833	530.904	531.070
w	50+69.133	21.833	530.792	530.952
x	50+79.133	21.833	530.673	530.812
y	50+89.133	21.833	530.546	530.636
z	50+99.133	21.833	530.410	530.453
@ Brg.	51+07.823	21.833	530.286	530.286
Bk. East Abut.	51+09.133	21.833	530.267	530.267

**GIRDER 9**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. West Abut.	48+51.700	30.000	531.245	531.245
@ Brg.	48+53.010	30.000	531.253	531.253
a	48+63.010	30.000	531.306	531.355
b	48+73.010	30.000	531.352	531.449
c	48+83.010	30.000	531.389	531.535
d	48+93.010	30.000	531.419	531.580
e	49+03.010	30.000	531.441	531.608
f	49+13.010	30.000	531.454	531.628
g	49+23.010	30.000	531.460	531.618
h	49+33.010	30.000	531.457	531.584
i	49+43.010	30.000	531.447	531.543
j	49+53.010	30.000	531.429	531.496
k	49+63.010	30.000	531.402	531.446
m	49+73.010	30.000	531.368	531.388
@ Brg. Pier	49+81.700	30.000	531.331	531.331
n	49+91.700	30.000	531.282	531.305
p	50+01.700	30.000	531.225	531.271
q	50+11.700	30.000	531.159	531.229
r	50+21.700	30.000	531.086	531.186
s	50+31.700	30.000	531.005	531.136
t	50+41.700	30.000	530.915	531.078
u	50+51.700	30.000	530.818	530.990
v	50+61.700	30.000	530.713	530.879
w	50+71.700	30.000	530.599	530.759
x	50+81.700	30.000	530.478	530.617
y	50+91.700	30.000	530.348	530.439
z	51+01.700	30.000	530.211	530.253
@ Brg.	51+10.390	30.000	530.085	530.085
Bk. East Abut.	51+11.700	30.000	530.066	530.066

**GIRDER 10**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. West Abut.	48+54.267	38.167	531.097	531.097
@ Brg.	48+55.577	38.167	531.104	531.104
a	48+65.577	38.167	531.155	531.204
b	48+75.577	38.167	531.199	531.296
c	48+85.577	38.167	531.234	531.380
d	48+95.577	38.167	531.262	531.423
e	49+05.577	38.167	531.282	531.449
f	49+15.577	38.167	531.293	531.466
g	49+25.577	38.167	531.297	531.455
h	49+35.577	38.167	531.292	531.419
i	49+45.577	38.167	531.280	531.375
j	49+55.577	38.167	531.259	531.326
k	49+65.577	38.167	531.231	531.274
m	49+75.577	38.167	531.194	531.215
@ Brg. Pier	49+84.267	38.167	531.156	531.156
n	49+94.267	38.167	531.105	531.128
p	50+04.267	38.167	531.045	531.092
q	50+14.267	38.167	530.978	531.048
r	50+24.267	38.167	530.903	531.002
s	50+34.267	38.167	530.819	530.950
t	50+44.267	38.167	530.728	530.890
u	50+54.267	38.167	530.628	530.801
v	50+64.267	38.167	530.521	530.687
w	50+74.267	38.167	530.405	530.565
x	50+84.267	38.167	530.282	530.421
y	50+94.267	38.167	530.151	530.241
z	51+04.267	38.167	530.011	530.053
@ Brg.	51+12.957	38.167	529.884	529.884
Bk. East Abut.	51+14.267	38.167	529.864	529.864

Sheet 5 of 25

**GIRDER 11**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. West Abut.	48+56.834	46.333	530.947	530.947
@ Brg.	48+58.145	46.333	530.955	530.955
a	48+68.145	46.333	531.004	531.052
b	48+78.145	46.333	531.046	531.142
c	48+88.145	46.333	531.079	531.224
d	48+98.145	46.333	531.104	531.265
e	49+08.145	46.333	531.122	531.289
f	49+18.145	46.333	531.131	531.305
g	49+28.145	46.333	531.133	531.291
h	49+38.145	46.333	531.126	531.253
i	49+48.145	46.333	531.112	531.208
j	49+58.145	46.333	531.089	531.157
k	49+68.145	46.333	531.059	531.103
m	49+78.145	46.333	531.020	531.041
@ Brg. Pier	49+86.834	46.333	530.980	530.980
n	49+96.834	46.333	530.927	530.950
p	50+06.834	46.333	530.865	530.912
q	50+16.834	46.333	530.796	530.866
r	50+26.834	46.333	530.719	530.818
s	50+36.834	46.333	530.633	530.764
t	50+46.834	46.333	530.540	530.702
u	50+56.834	46.333	530.438	530.611
v	50+66.834	46.333	530.329	530.495
w	50+76.834	46.333	530.211	530.371
x	50+86.834	46.333	530.086	530.225
y	50+96.834	46.333	529.952	530.043
z	51+06.834	46.333	529.811	529.853
@ Brg.	51+15.524	46.333	529.681	529.681
Bk. East Abut.	51+16.834	46.333	529.661	529.661

Note: Offset are from @ Veterans Memorial Drive

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REVISED	DATE

TOP of SLAB ELEVATIONS (Sheet 3)  
 VETERANS MEMORIAL DR. over F.A.I. ROUTES 57/64  
 SECTION (41-3)HBK  
 JEFFERSON COUNTY  
 STATION 49+72.27  
 STRUCTURE NO. 041-0108

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JOB NO.  
9852019A  
DATE  
03-14-07

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	518	276
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		CONTRACT NO. 98963

Sheet 6 of 25

**NORTH CURB LINE**

Location	Station	Offset	Theoretical Grade Elevations
End W. Appr. Pav't.	48+01.27	-37.00	530.71
a	48+10.64	-37.00	530.80
b	48+20.64	-37.00	530.88
Bk. West Abut.	48+30.64	-37.00	530.96

**NORTH EDGE OF PAVEMENT**

Location	Station	Offset	Theoretical Grade Elevations
End W. Appr. Pav't.	48+01.27	-35.00	530.75
a	48+11.27	-35.00	530.84
b	48+21.27	-35.00	530.93
Bk. West Abut.	48+31.27	-35.00	531.01

**PROFILE GRADE LINE (W.B.L.)**

Location	Station	Offset	Theoretical Grade Elevations
End W. Appr. Pav't.	48+08.81	-11.00	531.30
a	48+18.81	-11.00	531.39
b	48+28.81	-11.00	531.47
Bk. West Abut.	48+38.81	-11.00	531.54

**☉ ROADWAY (VETERANS MEMORIAL DRIVE)**

Location	Station	Offset	Theoretical Grade Elevations
End W. Appr. Pav't.	48+12.27	0.00	531.55
a	48+22.27	0.00	531.64
b	48+32.27	0.00	531.72
Bk. West Abut.	48+42.27	0.00	531.79

**PROFILE GRADE LINE (E.B.L.)**

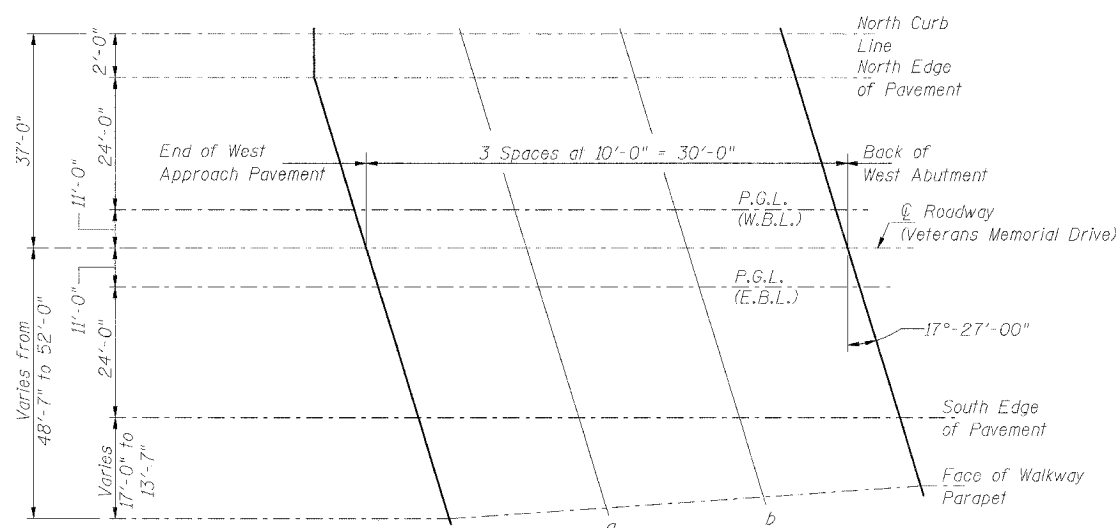
Location	Station	Offset	Theoretical Grade Elevations
End W. Appr. Pav't.	48+15.73	11.00	531.36
a	48+25.73	11.00	531.45
b	48+35.73	11.00	531.52
Bk. West Abut.	48+45.73	11.00	531.59

**SOUTH EDGE OF PAVEMENT**

Location	Station	Offset	Theoretical Grade Elevations
End W. Appr. Pav't.	48+23.27	35.00	530.95
a	48+33.27	35.00	531.02
b	48+43.27	35.00	531.09
Bk. West Abut.	48+53.27	35.00	531.15

**FACE OF WALKWAY PARAPET**

Location	Station	Offset	Theoretical Grade Elevations
End W. Appr. Pav't.	48+28.62	52.00	530.65
a	48+38.26	50.86	530.74
b	48+47.90	49.72	530.83
Bk. West Abut.	48+57.54	48.58	530.91



**DIAGRAMMATIC PLAN**

Note: Offsets are from ☉ Roadway (Veterans Memorial Drive)

TOP of WEST APPROACH SLAB ELEVATIONS  
 VETERANS MEMORIAL DR. over F.A.I. ROUTES 57/64  
 SECTION (41-3)HBK  
 JEFFERSON COUNTY  
 STATION 49+72.27  
 STRUCTURE NO. 041-0108

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 DATE  
 03-14-07

March 2007 Submittal  
 LAYOUT MM 03/12/07  
 DRAWN DAC 03/12/07  
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	518	277
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 98963

Sheet 7 of 25

**NORTH CURB LINE**

Location	Station	Offset	Theoretical Grade Elevations
Bk. East Abut.	50+90.64	-37.00	530.22
a	51+00.64	-37.00	530.09
b	51+10.64	-37.00	529.94
End E. Appr. Pav't.	51+21.27	-37.00	529.78

**NORTH EDGE OF PAVEMENT**

Location	Station	Offset	Theoretical Grade Elevations
Bk. East Abut.	50+91.27	-35.00	530.25
a	51+01.27	-35.00	530.12
b	51+11.27	-35.00	529.97
End E. Appr. Pav't.	51+21.27	-35.00	529.82

**PROFILE GRADE LINE (W.B.L.)**

Location	Station	Offset	Theoretical Grade Elevations
Bk. East Abut.	50+98.81	-11.00	530.63
a	51+08.81	-11.00	530.49
b	51+18.81	-11.00	530.34
End E. Appr. Pav't.	51+28.81	-11.00	530.18

**☉ ROADWAY (VETERANS MEMORIAL DRIVE)**

Location	Station	Offset	Theoretical Grade Elevations
Bk. East Abut.	51+02.27	0.00	530.80
a	51+12.27	0.00	530.66
b	51+22.27	0.00	530.50
End E. Appr. Pav't.	51+32.27	0.00	530.34

**PROFILE GRADE LINE (E.B.L.)**

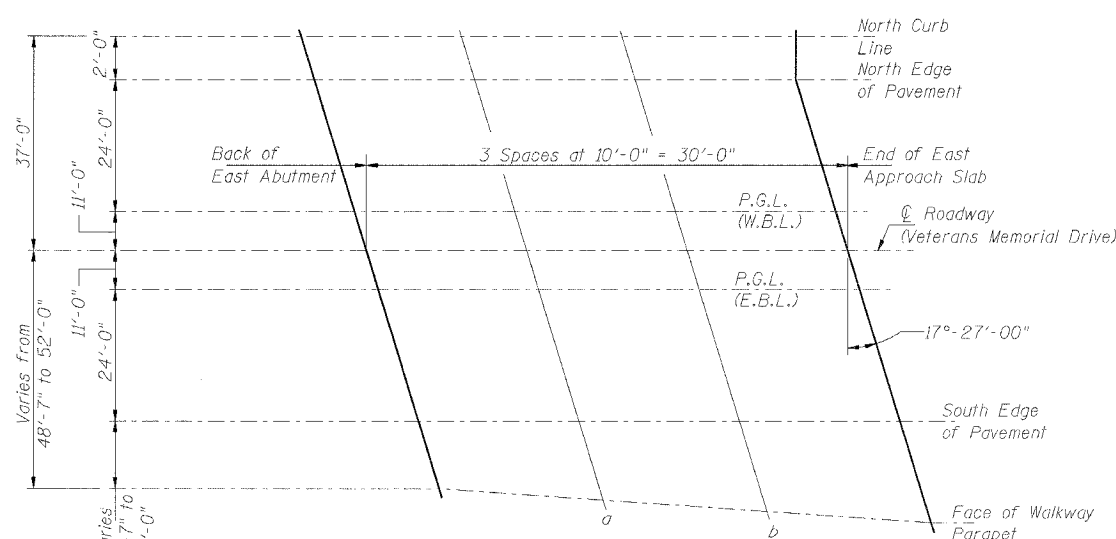
Location	Station	Offset	Theoretical Grade Elevations
Bk. East Abut.	51+05.73	11.00	530.53
a	51+15.73	11.00	530.38
b	51+25.73	11.00	530.23
End E. Appr. Pav't.	51+35.73	11.00	530.06

**SOUTH EDGE OF PAVEMENT**

Location	Station	Offset	Theoretical Grade Elevations
Bk. East Abut.	51+13.27	35.00	529.94
a	51+23.27	35.00	529.79
b	51+33.27	35.00	529.62
End E. Appr. Pav't.	51+43.27	35.00	529.45

**FACE OF WALKWAY PARAPET**

Location	Station	Offset	Theoretical Grade Elevations
Bk. East Abut.	51+17.54	48.58	529.61
a	51+27.90	49.72	529.42
b	51+38.26	50.86	529.22
End E. Appr. Pav't.	51+48.62	52.00	529.02



**DIAGRAMMATIC PLAN**

Note: Offsets are from ☉ Roadway (Veterans Memorial Drive)

TOP of EAST APPROACH SLAB ELEVATIONS  
 VETERANS MEMORIAL DR. over F.A.I. ROUTES 57/64  
 SECTION (41-3)HBK  
 JEFFERSON COUNTY  
 STATION 49+72.27  
 STRUCTURE NO. 041-0108

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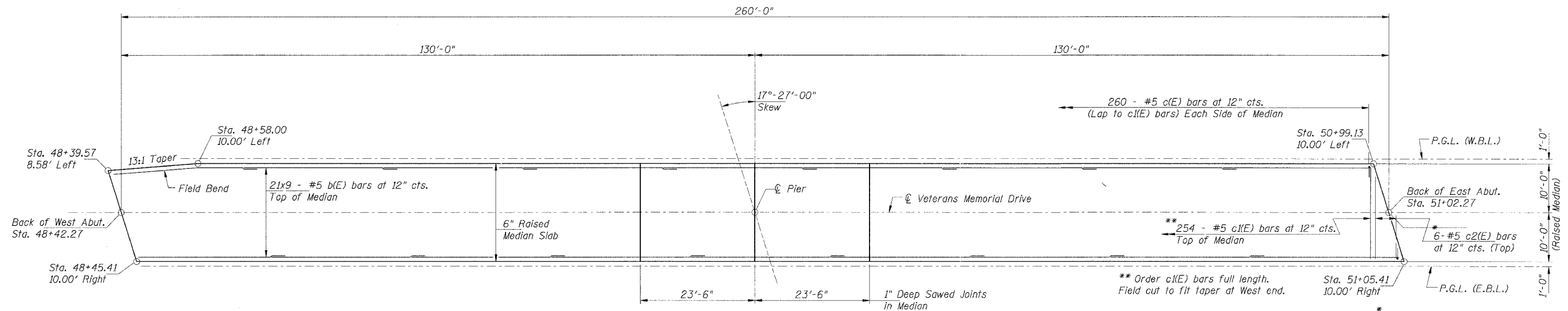
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	518	279
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	CONTRACT NO. 98963	

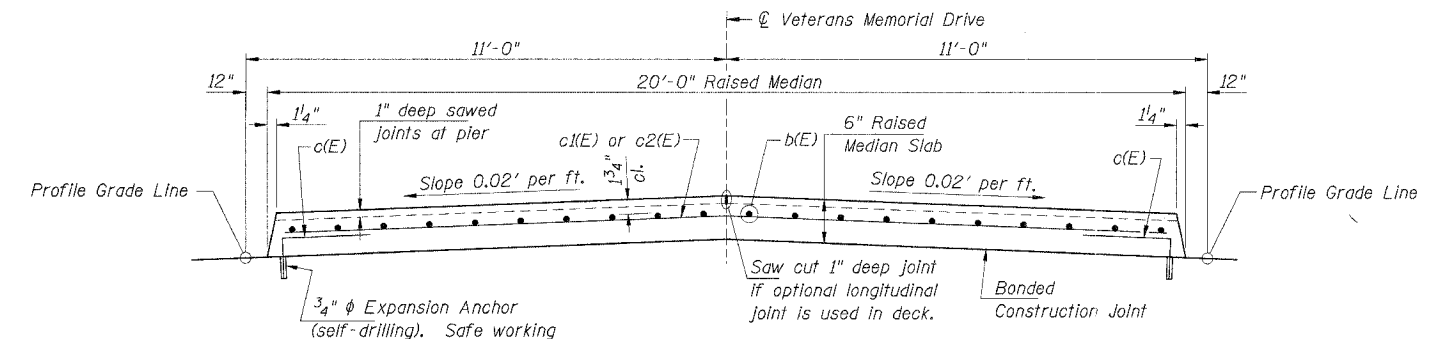
Sheet 9 of 25



RAISED MEDIAN PLAN

\* Order c2(E) bars full length. Field cut to fit skew at East end and use remainder of bars in West end and field cut to fit taper.

BAR LAPS  
#5 = 2'-2"



SECTION THRU RAISED MEDIAN  
(Looking Upstation)

Note:  
The cost of Expansion Anchors (self-drilling) is included in the cost of "Reinforcement Bars, Epoxy Coated".

Note:  
The cost of 1" deep sawed joints is included with the cost of "Concrete Superstructure".

RAISED MEDIAN DETAILS  
VETERANS MEMORIAL DR. over F.A.I. ROUTES 57/64  
SECTION (41-3)HBK  
JEFFERSON COUNTY  
STATION 49+72.27  
STRUCTURE NO. 041-0108

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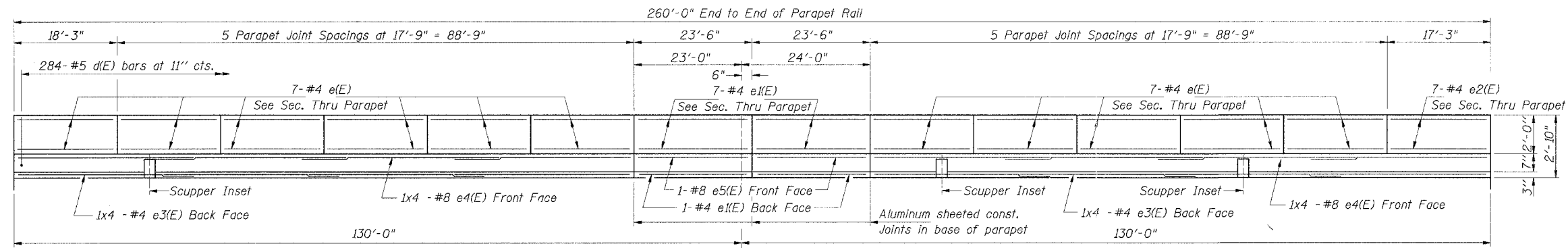


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03-14-07

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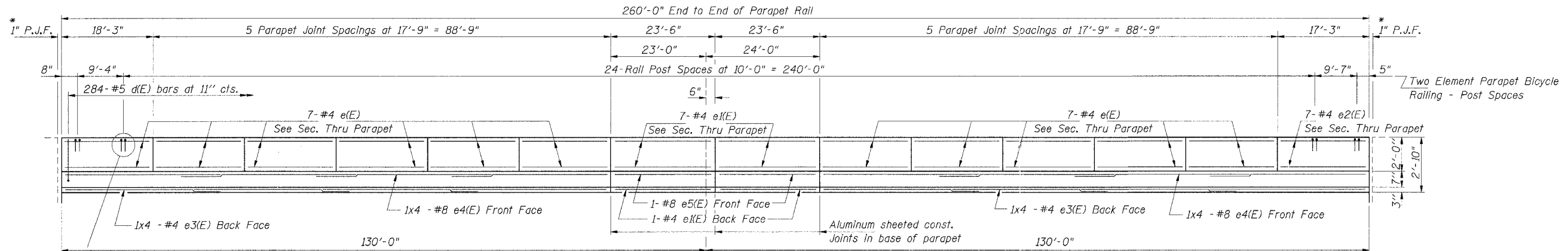
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STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	CONTRACT NO. 98963	

Sheet 10 of 25

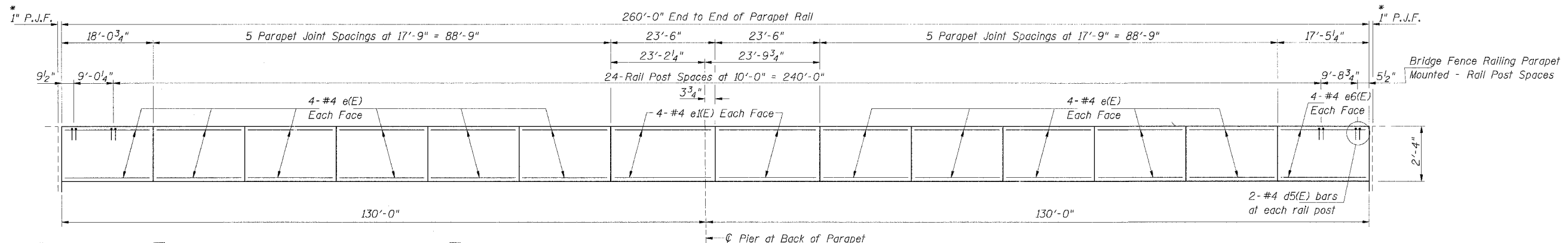


**INSIDE ELEVATION - NORTH ROADWAY PARAPET**  
(All dimensions are measured along back face of parapet.)

\* Cost included with Concrete Superstructure



**INSIDE ELEVATION - SOUTH ROADWAY PARAPET**  
(All dimensions are measured along back face of parapet.)



**INSIDE ELEVATION - WALKWAY PARAPET**  
(All dimensions are measured along back face of parapet.)

**BAR LAPS**  
#4 = 1'-8"  
#8 = 4'-6"

Note:  
Space reinforcement to miss railing anchor bolts.

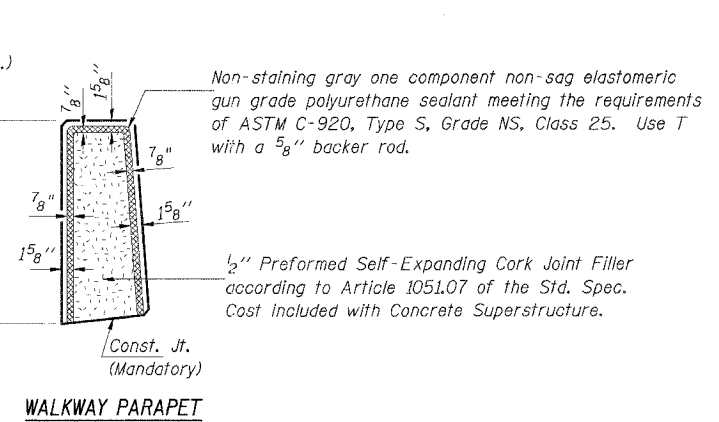
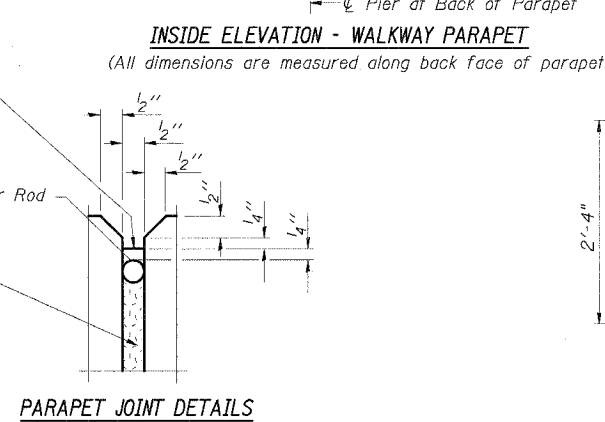
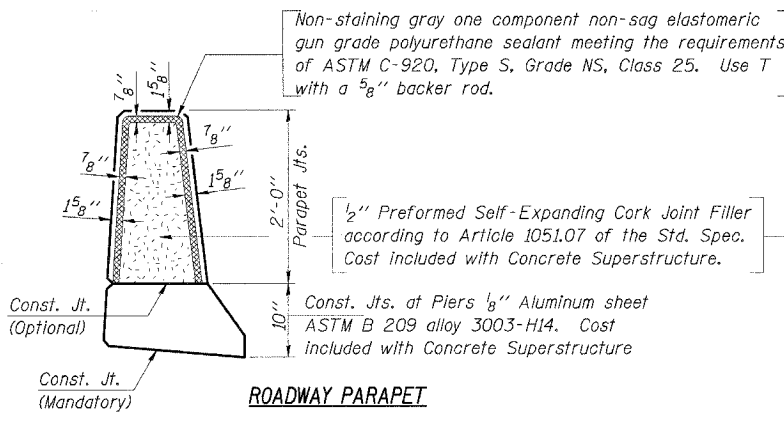
PARAPET DETAILS  
VETERANS MEMORIAL DR. over F.A.I. ROUTES 57/64  
SECTION (41-3)HBK  
JEFFERSON COUNTY  
STATION 49+72.27  
STRUCTURE NO. 041-0108

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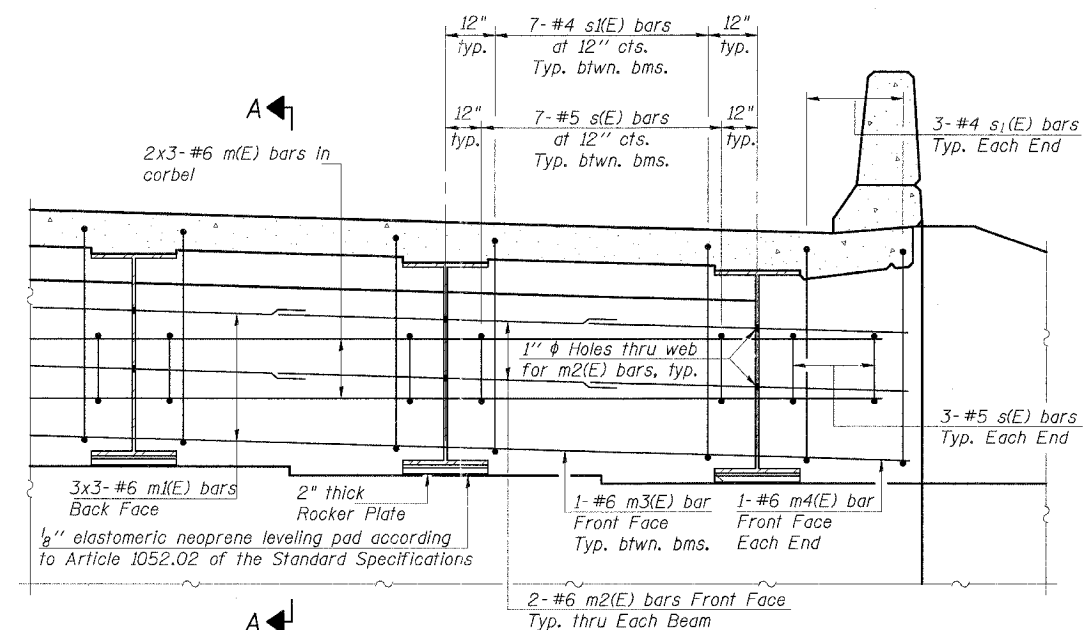
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REVIEWED	02/22/04



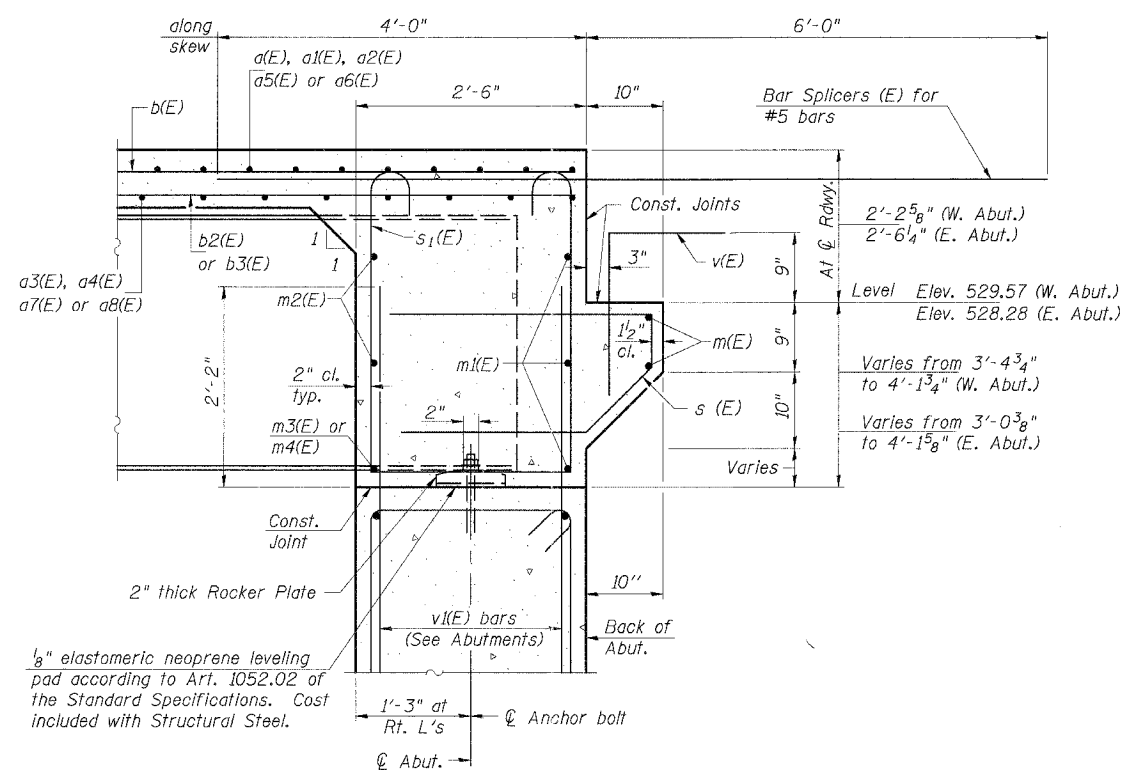


F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	518	281
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		CONTRACT NO. 98963

Sheet 11 of 25



**DIAPHRAGM ELEVATION AT ABUTMENT**



**SECTION A-A**

Dimensions at right angles to abutment, except as shown.

**Notes:**  
 Reinforcement bars in diaphragm are billed with superstructure on sheet 12 of 25.  
 Concrete in diaphragm is included with Concrete Superstructure on sheet 12 of 25.  
 For details of bars s(E) & s1(E) see sheet 12 of 25.  
 The s(E) and s1(E) bars shall be placed parallel to the beams. Spacing for these bars shall be at right angles to the beams.  
 Bars indicated thus 2x3-#6 etc. indicates 2 lines of bars with 3 lengths per line.  
 See Sheet 23 of 25 for Bar Splicer Details.

**MIN. BAR LAP**

#6 bar = 2'-9"

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LAYOUT	MM	03/12/07
DRAWN	DAB	03/12/07
REVIEWED		

GBR	02/02/04
Rad	02/02/04
TJH	02/02/04

END DIAPHRAGM DETAILS  
 VETERANS MEMORIAL DR. over F.A.I. ROUTES 57/64  
 SECTION (41-3)HBK  
 JEFFERSON COUNTY  
 STATION 49+72.27  
 STRUCTURE NO. 041-0108

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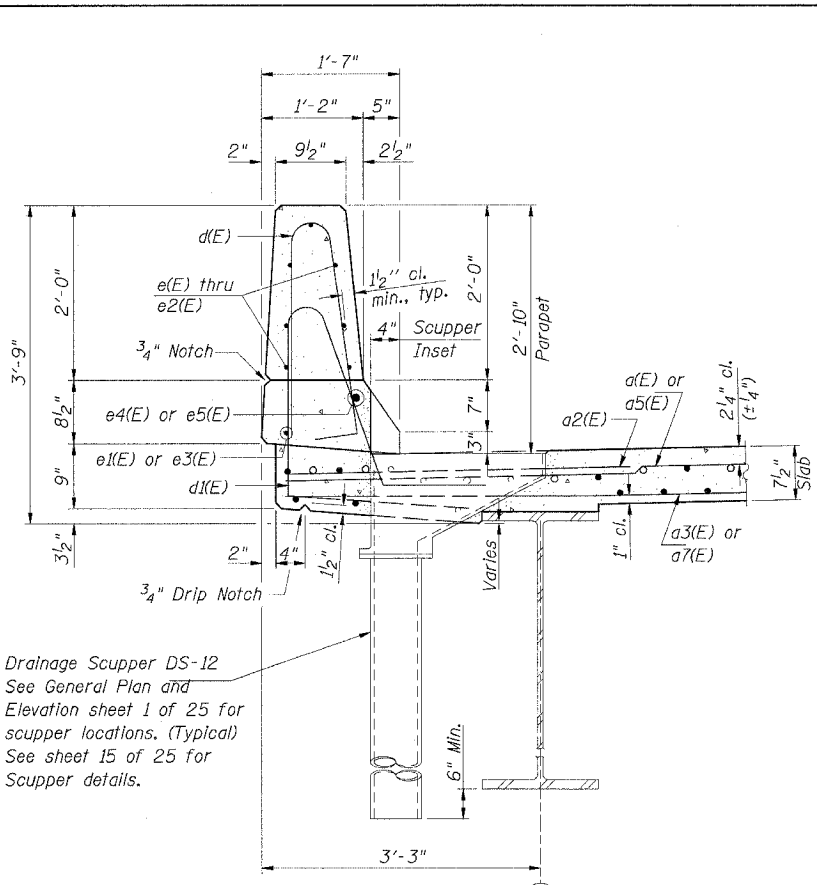
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 98963				

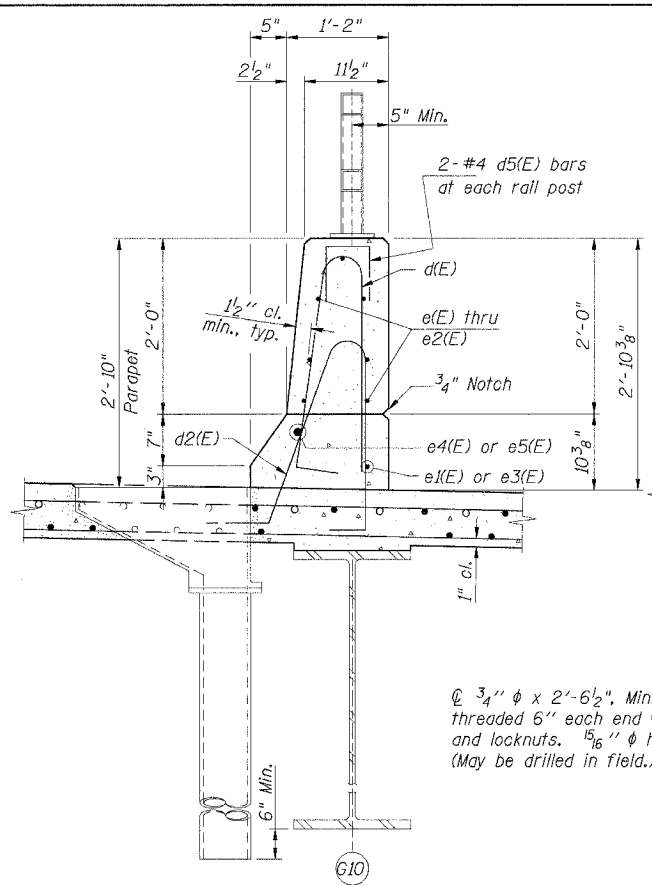
Sheet 12 of 25

**SUPERSTRUCTURE BILL OF MATERIAL**

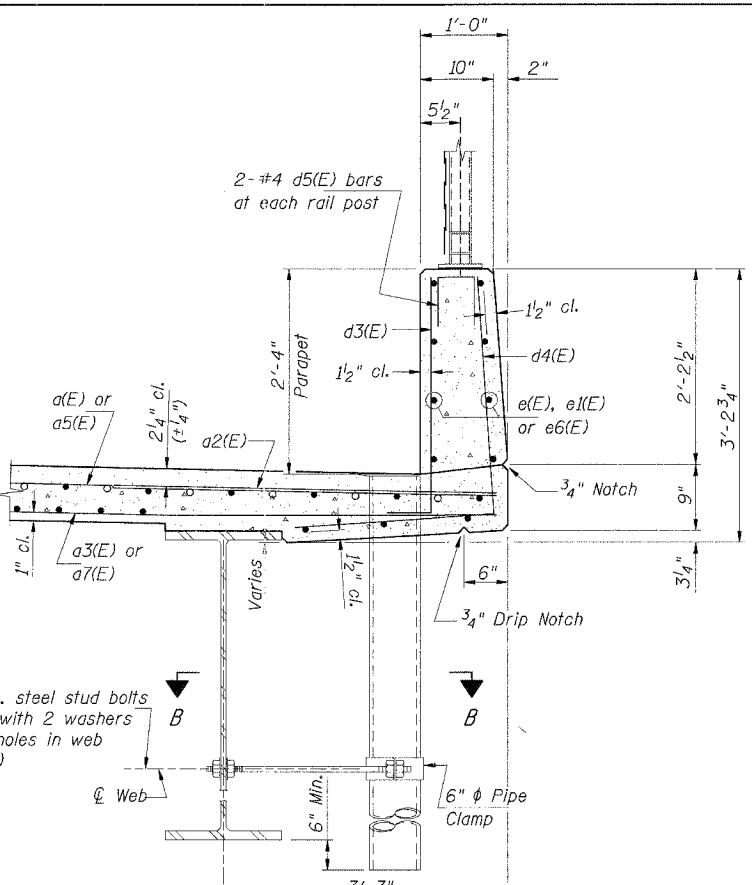
Bar	No.	Size	Length	Shape
a(E)	1090	#5	32'-7"	—
a1(E)	549	#5	26'-8"	—
a2(E)	566	#6	6'-0"	—
a3(E)	754	#5	27'-10"	—
a4(E)	374	#5	34'-10"	—
a5(E)	40	#5	34'-1"	—
a6(E)	17	#5	27'-6"	—
a7(E)	24	#5	28'-10"	—
a8(E)	14	#5	35'-10"	—
a9(E)	12	#5	31'-6"	—
a10(E)	56	#5	2'-0"	—
b(E)	999	#5	30'-10"	—
b1(E)	264	#6	31'-1"	—
b2(E)	864	#5	29'-5"	—
b3(E)	96	#5	14'-9"	—
c(E)	520	#5	1'-3"	└
c1(E)	254	#5	19'-6"	—
c2(E)	6	#5	19'-1"	—
d(E)	568	#5	5'-7"	┌
d1(E)	284	#5	7'-10"	└
d2(E)	284	#5	6'-9"	└
d3(E)	260	#6	3'-2"	└
d4(E)	260	#4	4'-10"	└
d5(E)	108	#4	2'-0"	└
e(E)	242	#4	17'-5"	—
e1(E)	48	#4	23'-2"	—
e2(E)	14	#4	17'-0"	—
e3(E)	16	#4	28'-0"	—
e4(E)	16	#8	30'-1"	—
e5(E)	4	#8	23'-2"	—
e6(E)	8	#4	17'-1"	—
m(E)	12	#6	31'-11"	—
m1(E)	18	#6	32'-7"	—
m2(E)	44	#6	11'-4"	—
m3(E)	20	#6	8'-3"	—
m4(E)	4	#6	2'-10"	—
s(E)	152	#5	6'-9"	└
s1(E)	152	#4	13'-7"	└
v(E)	174	#5	3'-4"	└
Reinforcement Bars.		Pound	195970	
Epoxy Coated Concrete Superstructure		Cu. Yds.	814.5	



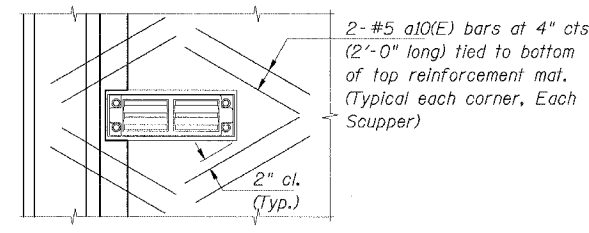
**SECTION THRU PARAPET**  
(Exterior Parapet at Roadway)



**SECTION THRU PARAPET**  
(Parapet Between Roadway & Walkway)

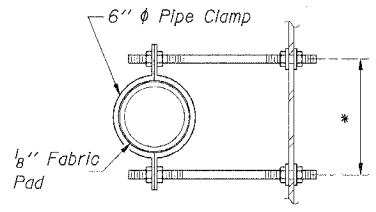


**SECTION THRU PARAPET**  
(Exterior Parapet at Walkway)



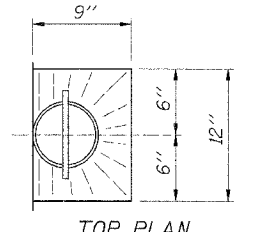
**PARTIAL PLAN - SCUPPERS**

Inset Scuppers at North Parapet shown, flush mounted South Parapet Scuppers similar.

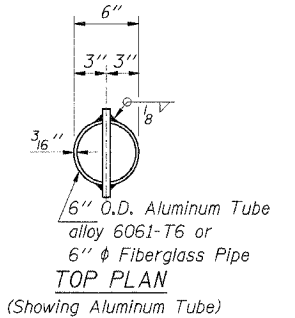
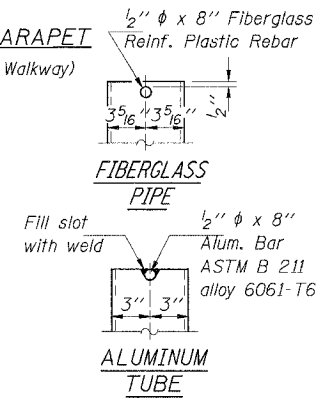


**SECTION B-B**

\* Dimension as required by Pipe Clamp

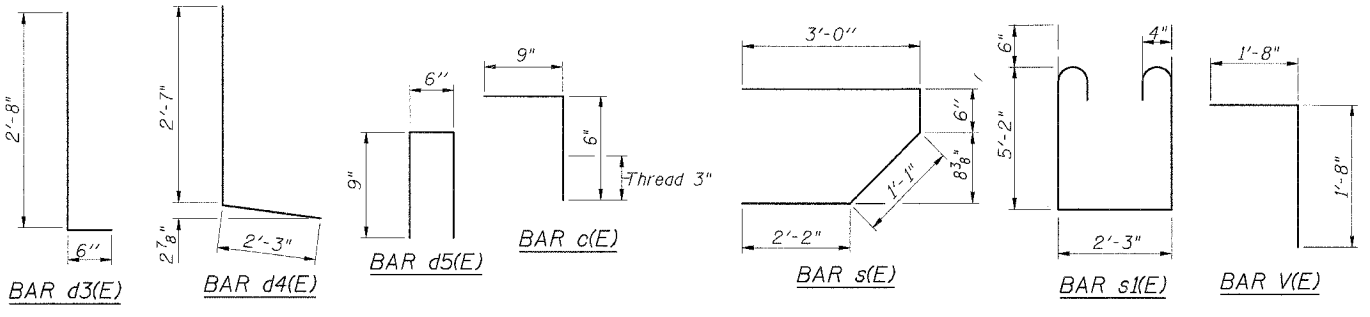
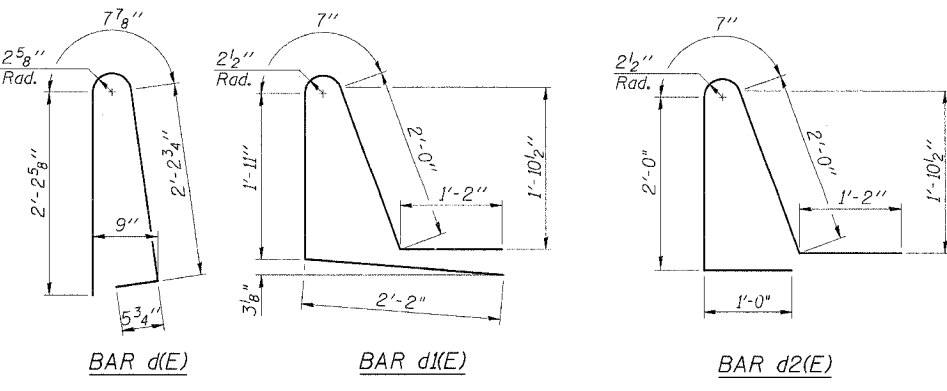


**TOP PLAN**



**TOP PLAN**  
(Showing Aluminum Tube)

**Notes:**  
The exterior surfaces of the floor drains shall be painted with the finish coat as specified in the special provisions for Cleaning and Painting New Metal Structures. The exterior surfaces of the drains shall be cleaned according to Steel Structures Painting Council's Spec. SSPC-SPI prior to painting. Fiberglass pipe shall conform to ASTM D 2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum. Drains shall be located clear of all cross frames.



**SUPERSTRUCTURE DETAILS**  
VETERANS MEMORIAL DR. over F.A.I. ROUTES 57/64  
SECTION (41-3)HBK  
JEFFERSON COUNTY  
STATION 49+72.27  
STRUCTURE NO. 041-0108

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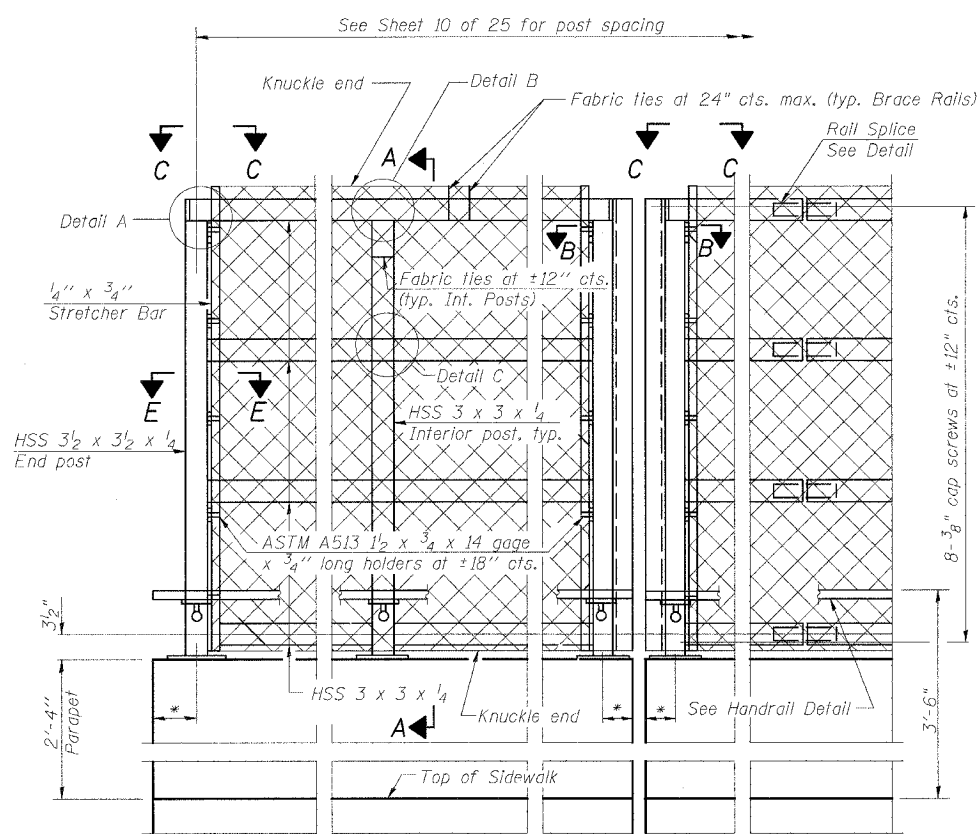
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DRAWN	02/02/04	DAB	03/12/07
REVIEWED	02/02/04		

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	18	283
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FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

Sheet 13 of 25

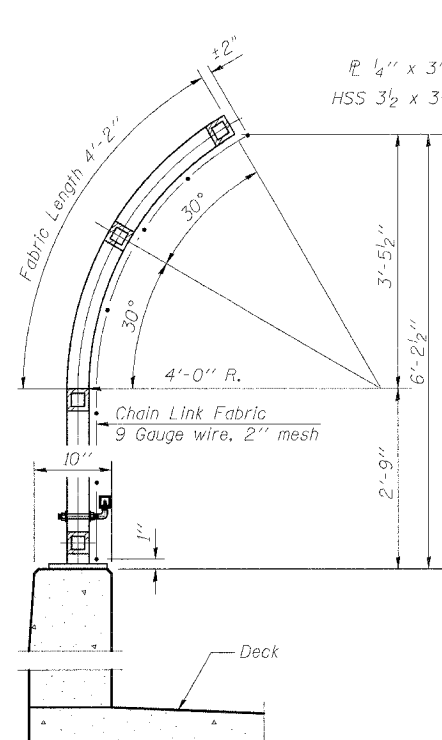
**NOTE**

All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.

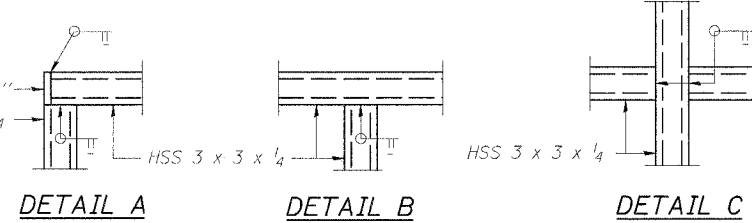


**ELEVATION**

(Inside Face)



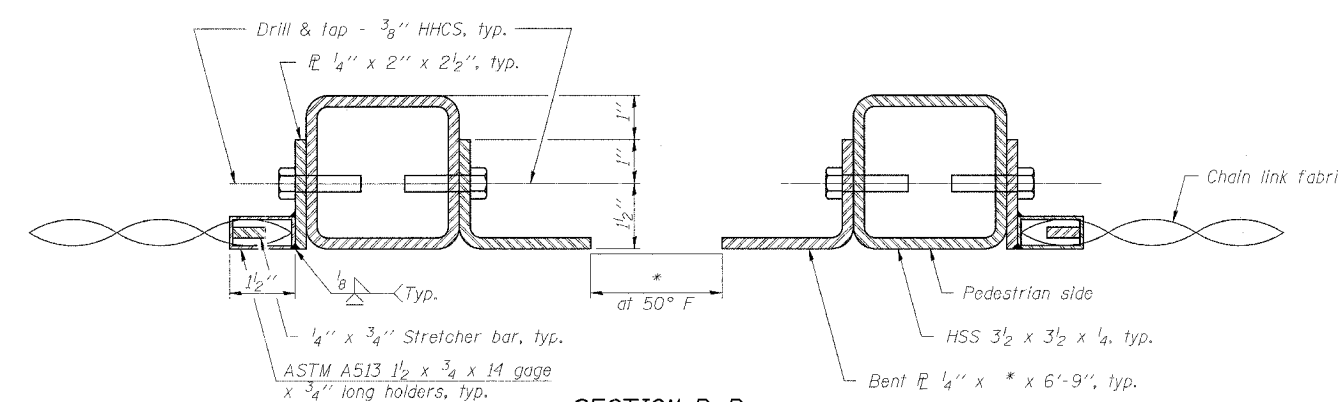
**SECTION A-A**



**DETAIL A**

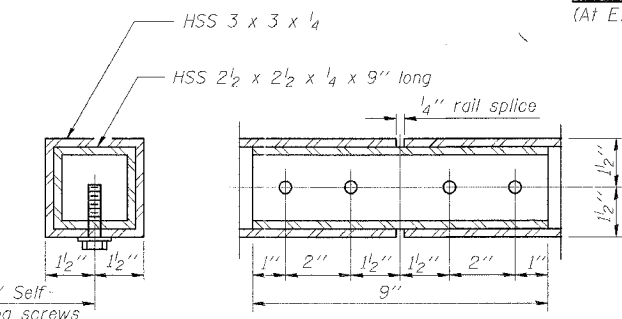
**DETAIL B**

**DETAIL C**

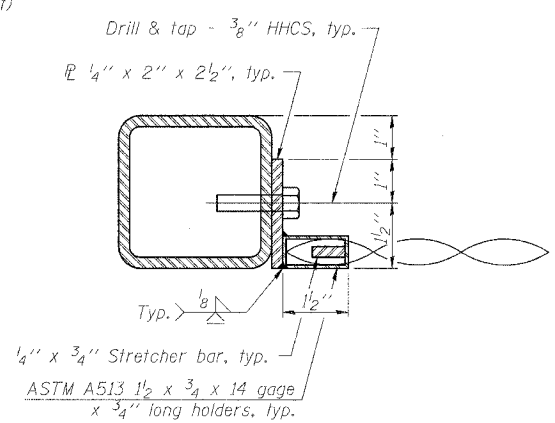


**SECTION B-B**

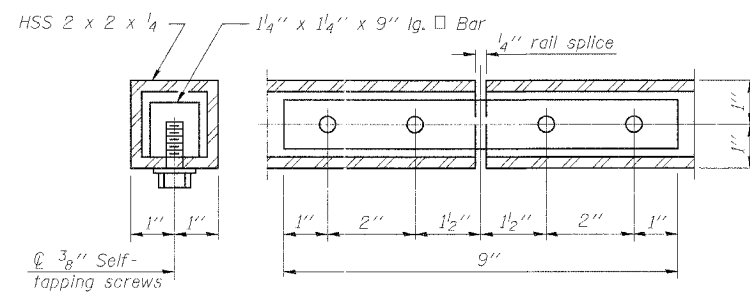
(At Expansion Joint)



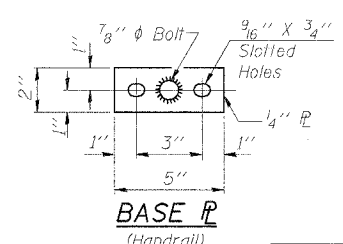
**RAIL SPLICE**



**SECTION E-E**

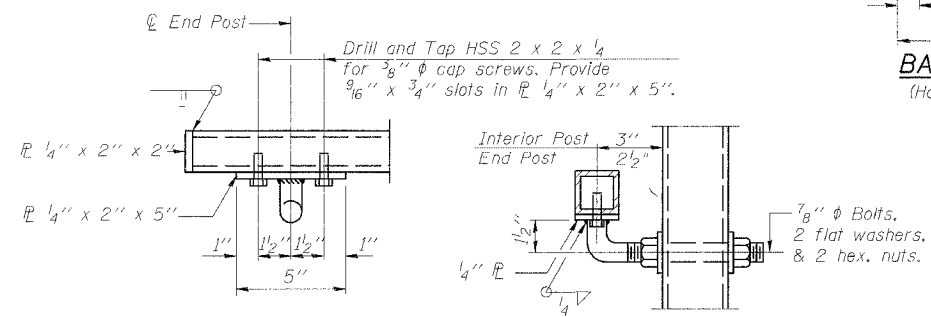


**HANDRAIL SPLICE**

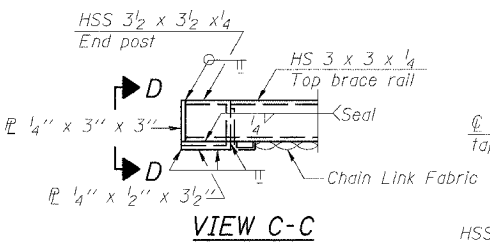


**BASE P**

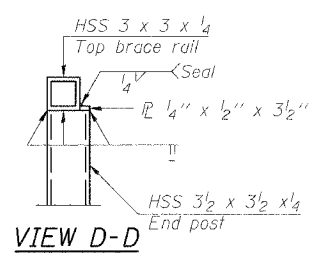
(Handrail)



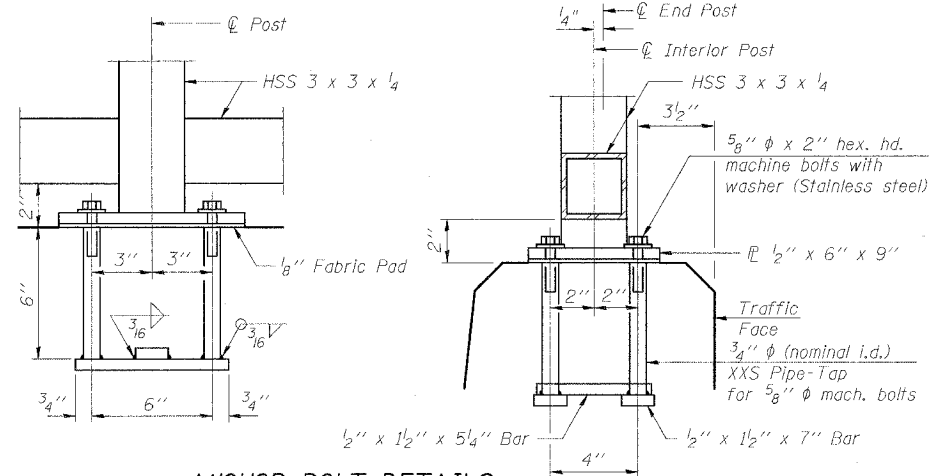
**HANDRAIL DETAIL**



**VIEW C-C**

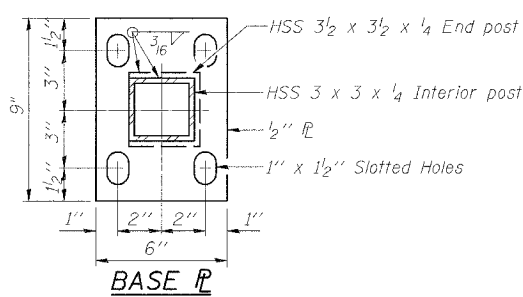


**VIEW D-D**



**ANCHOR BOLT DETAILS**

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 5/8\"/>



**BASE P**

**BILL OF MATERIAL**

Item	Unit	Quantity
Bridge Fence Railing	Fool	260

BRIDGE FENCE RAILING PARAPET MOUNTED  
 VETERANS MEMORIAL DR. over F.A.I. ROUTES 57/64  
 SECTION (41-3)HBK  
 JEFFERSON COUNTY  
 STATION 49+72.27  
 STRUCTURE NO. 041-0108

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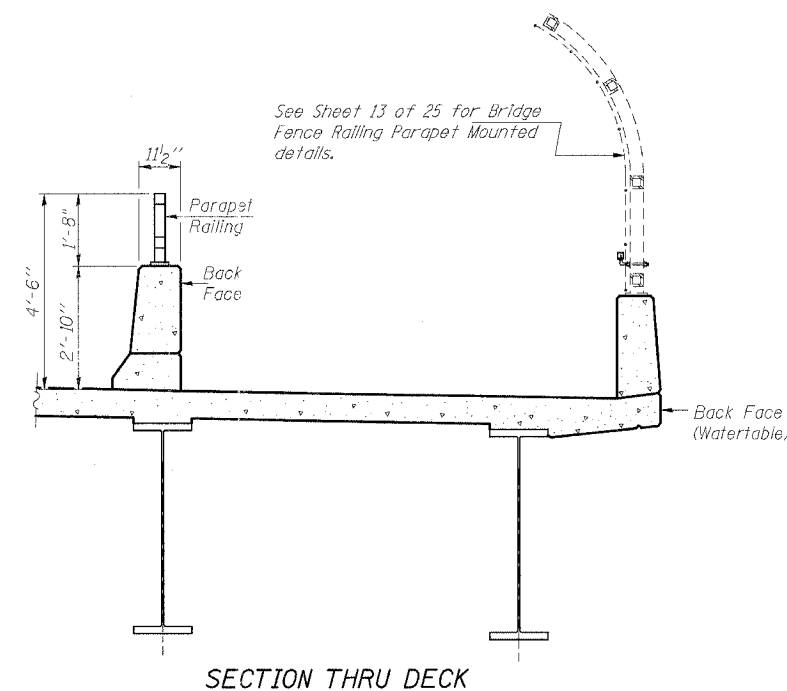
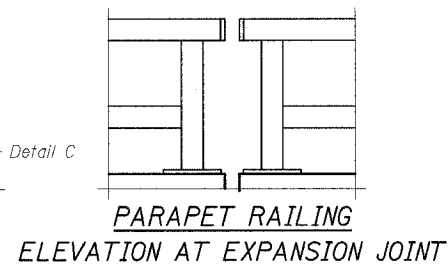
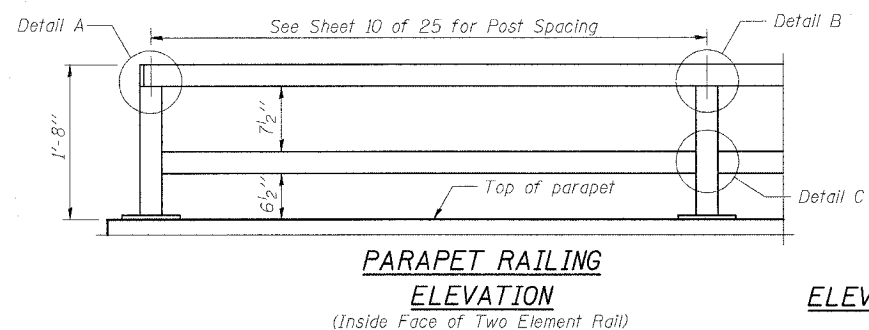
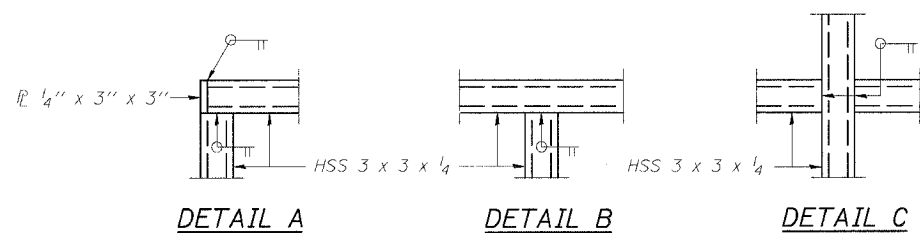


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 DRAWN: DAB 03/12/07  
 REVIEWED: J.F.  
 LAYOUT: GBR 02/02/04  
 DRAWN: RVR 02/02/04  
 REVIEWED: TEL 02/02/04

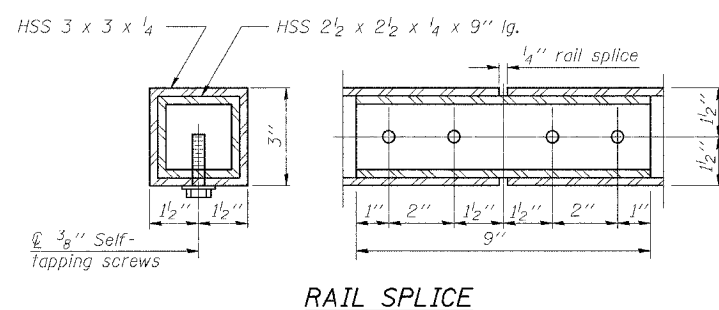
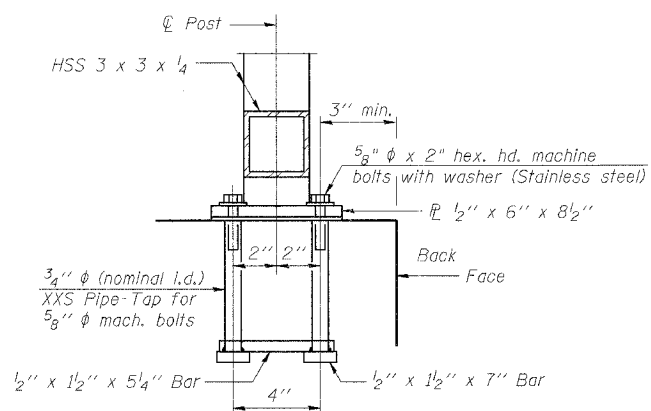
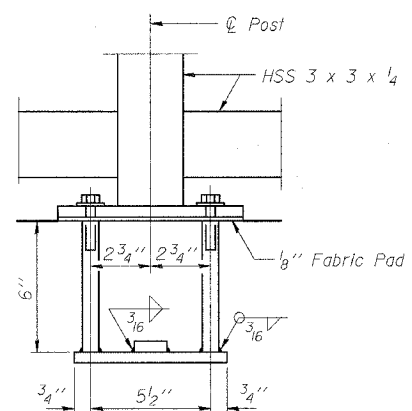
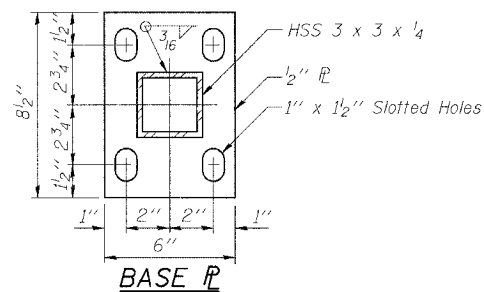
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	518	284
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 98963  
Sheet 14 of 25



**NOTE**

All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.



**BILL OF MATERIAL**

Item	Unit	Quantity
Parapet Railing	Foot	260

BICYCLE RAILING  
VETERANS MEMORIAL DR. over F.A.I. ROUTES 57/64  
SECTION (41-3)HBK  
JEFFERSON COUNTY  
STATION 49+72.27  
STRUCTURE NO. 041-0108

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JOB NO.

98S2019A

DATE

03-14-07

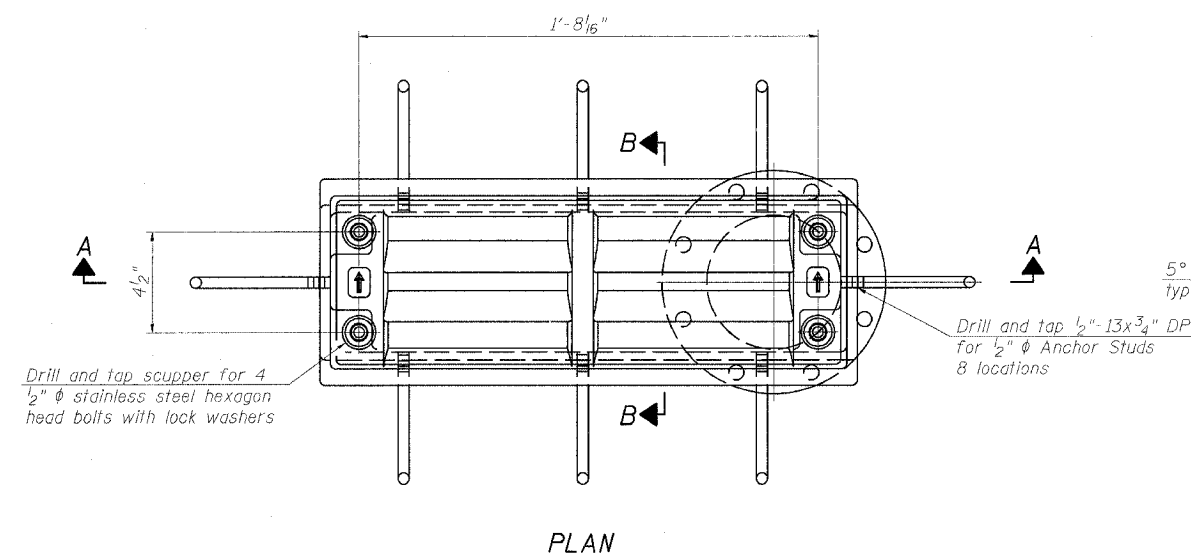
March 2007 Submittal  
LAYOUT: MMN 03/12/07  
DRAWN: DAB 03/12/07  
REVIEWED: / /  
LAYOUT: GBR 02/02/04  
DRAWN: RMB 02/02/04  
REVIEWED: TEH 02/02/04

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	18	25
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 98963				

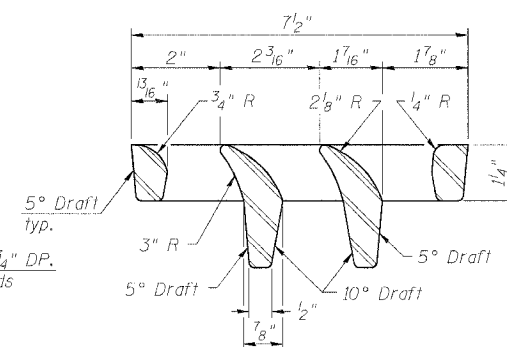
Sheet 15 of 25

**Notes:**

All cast iron parts shall be gray iron conforming to the requirements of AASHTO M 105, Class 35B.  
 Bolts, anchor studs, washers and nuts shall conform to the requirements of ASTM A 307 and shall be galvanized according to AASHTO M 232.  
 Downspouts located on the exterior side of a painted steel fascia beam shall be painted with the finish coat specified for the exterior side of the fascia beam.  
 As an alternate, bolts, anchor studs, washers and nuts may be stainless steel according to Article 1006.29(d) of the Standard Specifications.  
 Structural steel weldments of equal sections and of the same configuration may be substituted for the cast iron scupper frame. Fillet or full penetration welds shall be used for the weldments. Details shall be submitted to the Engineer for approval. Structural steel weldments shall not be substituted for the cast iron scupper grate. Structural steel frames and downspouts shall be galvanized according to AASHTO M111.  
 The Contractor shall take appropriate measures to assure that Protective Coat is not applied to the scupper.  
 Cost of the Grate, Frame, Downspout, Anchor Studs, Bolts, Washers and Nuts including complete installation of the scupper shall be paid for at the contract unit price each for Drainage Scupper, DS-12.  
 Alternate fiberglass downspout conforming to ASTM D 2996 with a short-time rupture strength hoop tensile stress of 30,000 psi min. may be used in lieu of the cast iron or steel equivalent.

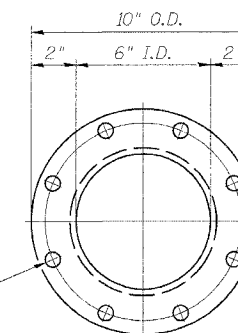


**PLAN**

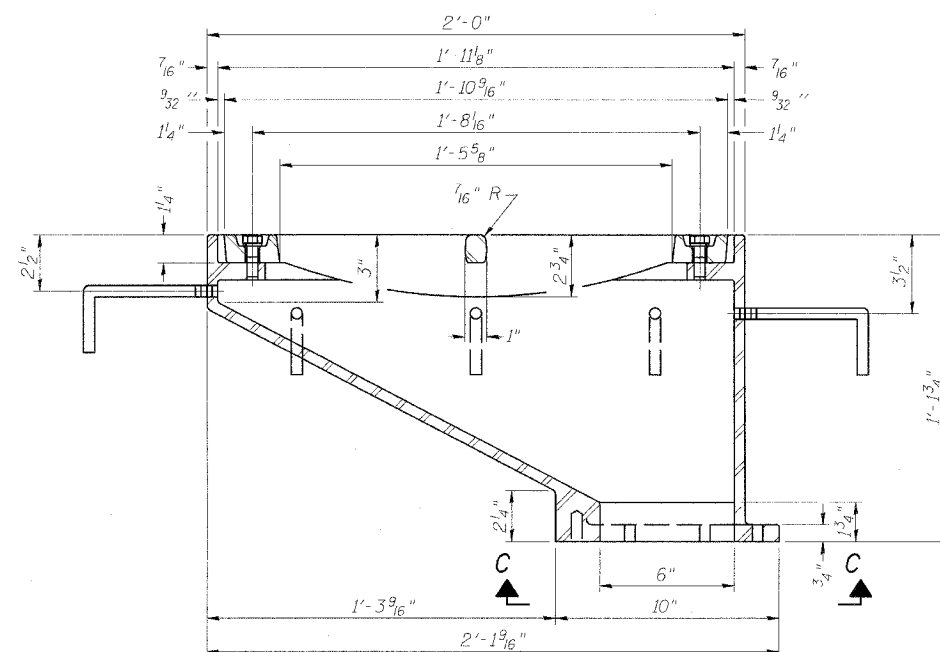


**VANE GRATE DETAIL**

8-9/16"  $\phi$  holes on an 8 3/4"  $\phi$  bolt circle

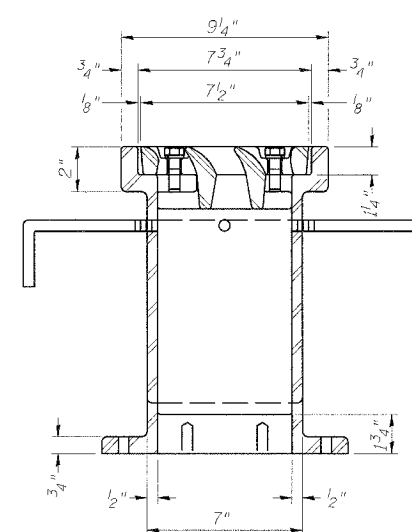


**VIEW C-C**

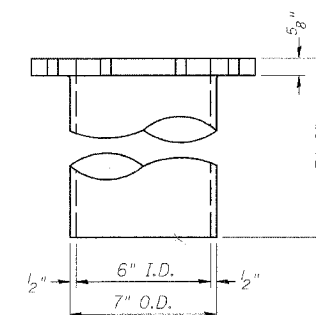


**SECTION A-A**

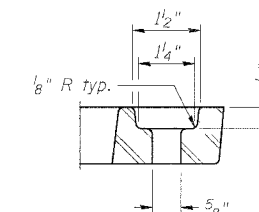
See sheet 12 of 25 for scupper location relative to parapet.



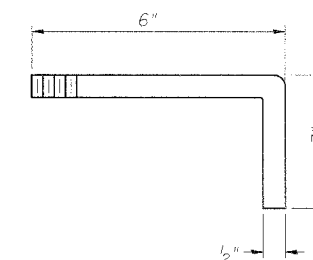
**SECTION B-B**



**DOWNSPOUT**



**BOLT HOLE DETAIL**



**ANCHOR STUD DETAIL**

**BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Drainage Scupper, DS-12	Each	7

DRAINAGE SCUPPER, DS-12  
 VETERANS MEMORIAL DR. over F.A.I. ROUTES 57/64  
 SECTION (41-3)HBK  
 JEFFERSON COUNTY  
 STATION 49+72.27  
 STRUCTURE NO. 041-0108

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JOB NO.  
98S2019A  
DATE  
03-14-07

March 2007 Submit 11d  
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DRAWN	DAB	03/12/07
REVIEWED		
LAYOUT	GBR	02/02/04
DRAWN	FRD	02/02/04
REVIEWED	TEH	02/02/04

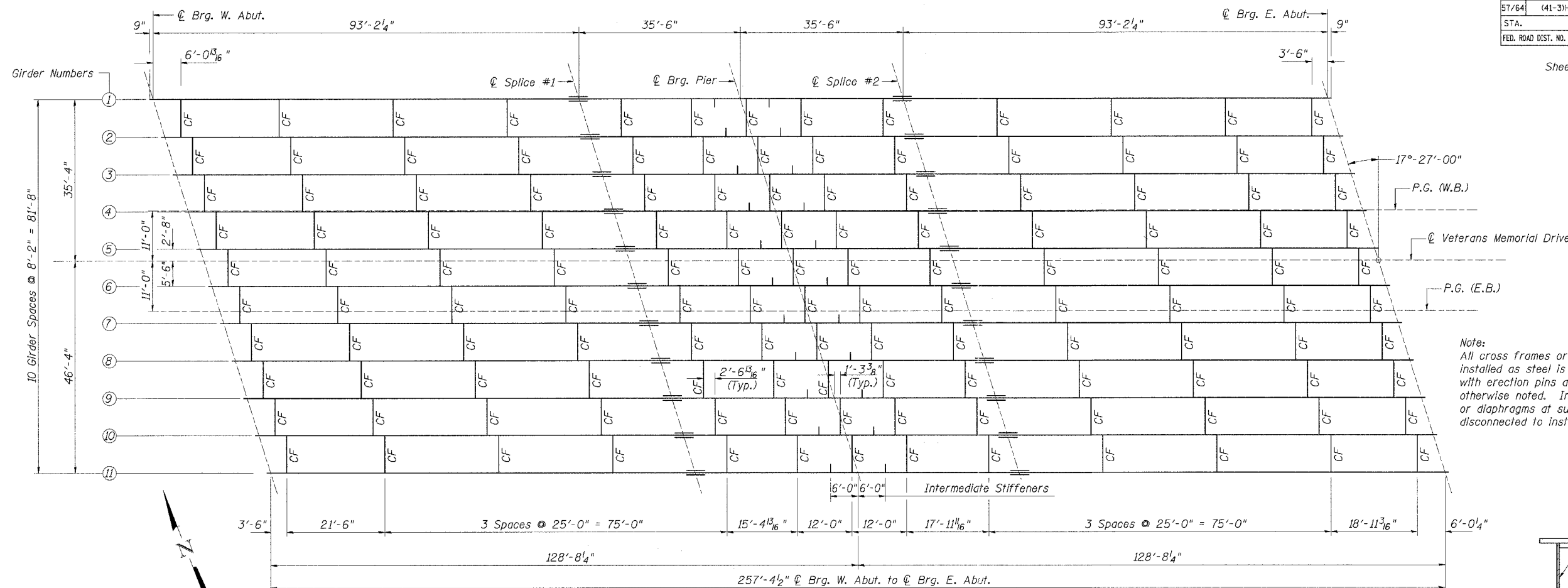
DS-12

11-1-06

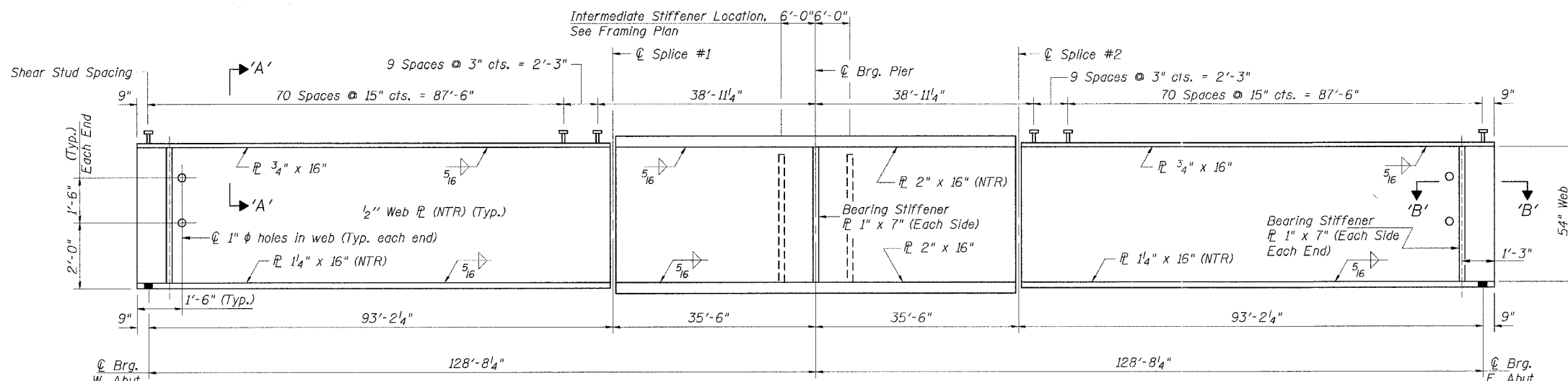
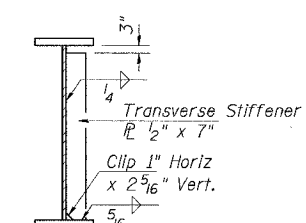
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57/64	(41-3)HBK	JEFFERSON	518	286
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 98963

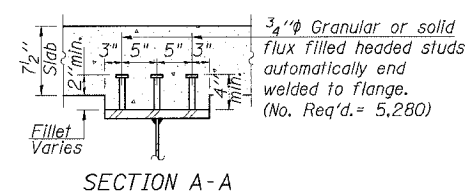
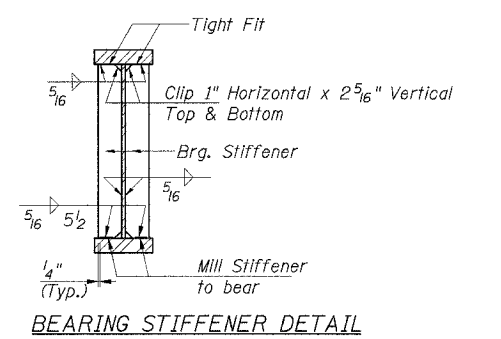
Sheet 16 of 25



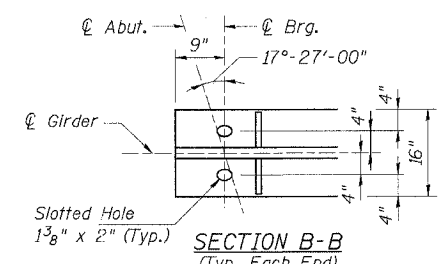
Note:  
All cross frames or diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual cross frames or diaphragms at supports may be temporarily disconnected to install bearing anchor rods.



INTERMEDIATE STIFFENER DETAIL



All plates of the girders, including bearing stiffeners and transverse stiffeners, shall be AASHTO M270 Grade 50.  
 For cross frame details and splice plate details see sheet 17 of 25.  
 Load carrying components designated "NTR" shall conform to the Supplemental Requirements For Notch Toughness, Zone 2.



STRUCTURAL STEEL  
 VETERANS MEMORIAL DR. over F.A.I. ROUTES 57/64  
 SECTION (41-3)HBK  
 JEFFERSON COUNTY  
 STATION 49+72.27  
 STRUCTURE NO. 041-0108

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**HANSON**

JOB NO. 9852019A  
 DATE 03-14-07

March 2007 Submittal

LAYOUT	GR	02/02/04	MAN	03/12/07
DRAWN	DAP	02/02/04	DAB	03/12/07
REVIEWED	TEH	02/02/04		

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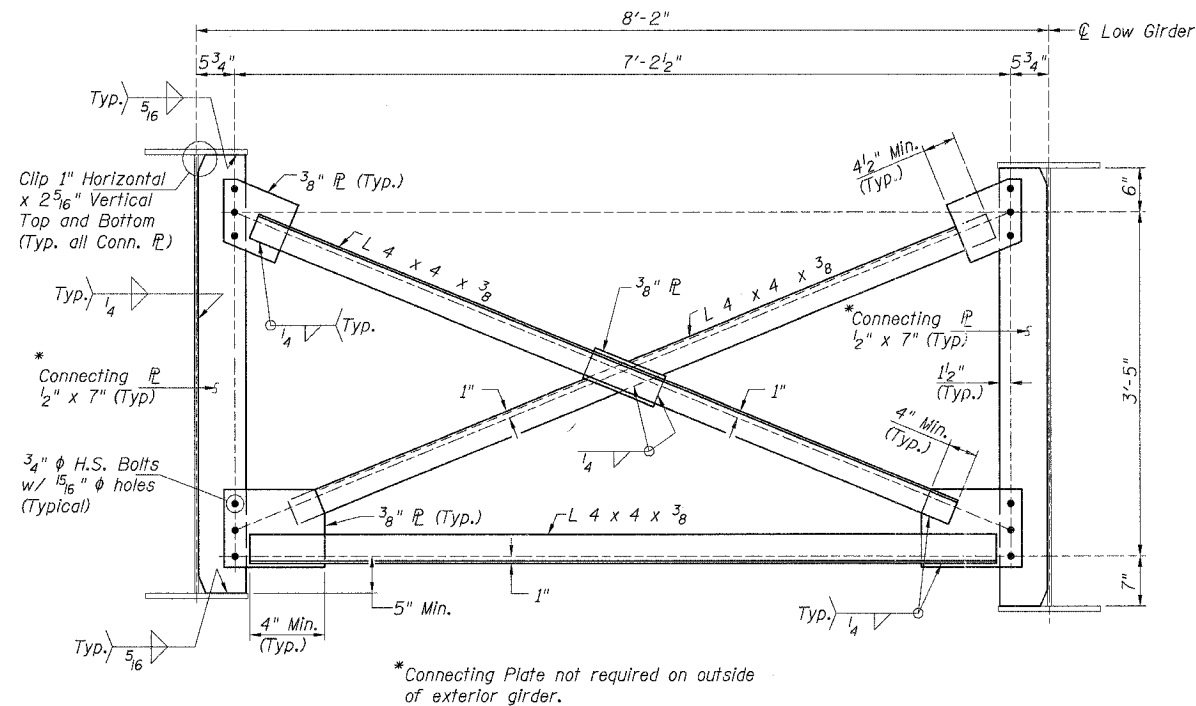
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57/64 (41-3)HBK	JEFFERSON	18	287
STA. TO STA.		FED. AID PROJECT	
FED. ROAD DIST. NO.		ILLINOIS	

Sheet 17 of 25

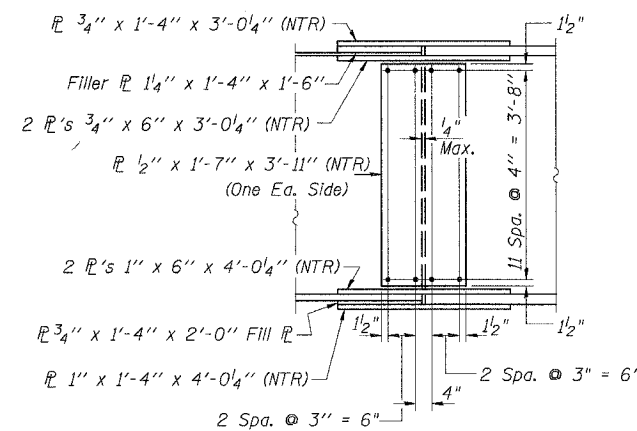
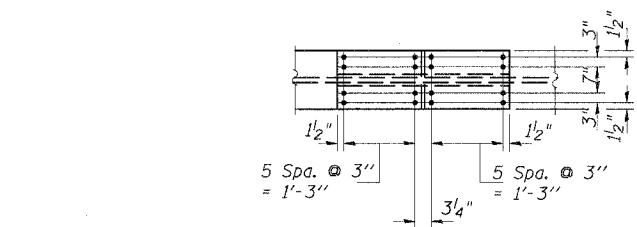
	0.4 Sp. 1	Pier
$I_s$	(in <sup>4</sup> ) 29969	56758
$I_c$ (n)	(in <sup>4</sup> ) 71440	---
$I_c$ (3n)	(in <sup>4</sup> ) 51939	---
$S_s$	(in <sup>3</sup> ) 1226	1957
$S_c$ (n)	(in <sup>3</sup> ) 1616	---
$S_c$ (3n)	(in <sup>3</sup> ) 1486	---
$\bar{D}$	(k/ft.) 1.06	1.53
$M\bar{D}$	(k) 1042	3651
$s\bar{D}$	(k/ft.) 0.47	---
$M_s\bar{D}$	(k) 532	---
$M\bar{L}$	(k) 1250	1237
$M$ (Imp)	(k) 246	244
$5s[M\bar{L} + M(Imp)]$	(k) 2493	2468
$M_a$	(k) 5287	7955
$f_s\bar{D}$ (non-comp)	(k.s.i.) 10.2	22.4
$f_s\bar{D}$ (comp)	(k.s.i.) 4.3	---
$f_s 5s(L + Imp)$	(k.s.i.) 18.5	15.1
$f_s$ (Overload)	(k.s.i.) 33.0	37.5
$f_s$ (Total)	(k.s.i.) 42.9	49.0
VR	(k) 70	---

	Abut.	Pier
$R\bar{D}$	(k) 69.9	253.3
$R\bar{L}$	(k) 53.4	94.9
Imp.	(k) 10.6	18.7
$R$ (Total)	(k) 133.9	366.9

- $I_s, S_s$ : Non-composite moment of inertia and section modulus of the steel section used for computing  $f_s$  (Total and Overload) due to non-composite dead loads (in.4 and in.3).
- $I_c(n), S_c(n)$ : Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing  $f_s$  (Total and Overload) due to short-term composite live loads (in.4 and in.3).
- $I_c(3n), S_c(3n)$ : Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing  $f_s$  (Total and Overload) due to long-term composite (superimposed) dead loads (in.4 and in.3).
- $\bar{D}$ : Un-factored non-composite dead load (kips/ft.).
- $M\bar{D}$ : Un-factored moment due to non-composite dead load (kip-ft.).
- $s\bar{D}$ : Un-factored long-term composite (superimposed) dead load (kips/ft.).
- $M_s\bar{D}$ : Un-factored moment due to long-term composite (superimposed) dead load (kip-ft.).
- $M\bar{L}$ : Un-factored live load moment (kip-ft.).
- $M$  (Imp): Un-factored moment due to impact (kip-ft.).
- $M_a$ : Factored design moment (kip-ft.).
- $1.3 [M\bar{D} + M_s\bar{D} + \frac{5}{3} (M\bar{L} + M$  (Imp))]
- $f_s$  (Overload): Sum of stresses as computed from the moments below (ksi).  $M\bar{D} + M_s\bar{D} + \frac{5}{3} (M\bar{L} + M$  (Imp))
- $f_s$  (Total): Sum of stresses as computed from the moments below on non-compact section (ksi).  $1.3 [M\bar{D} + M_s\bar{D} + \frac{5}{3} (M\bar{L} + M$  (Imp))]
- VR: Maximum  $\frac{1}{4}$  + impact horizontal shear range within the composite portion of the span for stud shear connector design (kips).

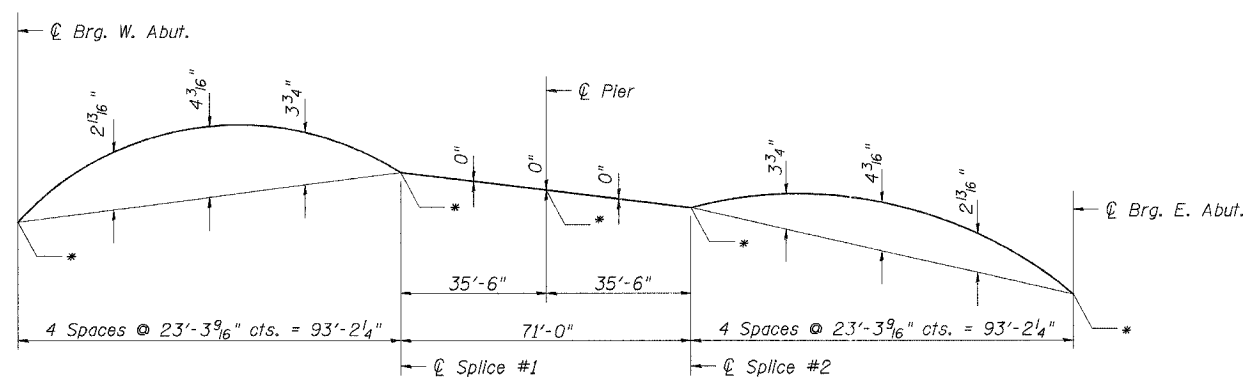


INTERIOR CROSS FRAME CF  
(130 Required)



FIELD SPLICE DETAIL  
(22 Required)

- Notes:
- Use  $\frac{3}{4}$ "  $\phi$  H.S. Bolts with  $\frac{15}{16}$ "  $\phi$  holes for all Splice Connections.
  - All splice plate material except fill plates, shall be AASHTO M270 Grade 50.
  - "NTR" denotes plates to which Notch Toughness Requirements are applicable.
  - Use  $\frac{3}{4}$ "  $\phi$  H.S. Bolts with  $\frac{15}{16}$ "  $\phi$  holes in all Cross Frame connections.
  - Two hardened washers shall be required over all oversized holes.
  - Load carrying components designated "NTR" shall conform to the Supplemental Requirements for Notch Toughness, Zone 2.



CAMBER DIAGRAM

\* See Table For Top of Web Elevations

\*\* TOP OF WEB ELEVATIONS

	Girder 1	Girder 2	Girder 3	Girder 4	Girder 5	Girder 6	Girder 7	Girder 8	Girder 9	Girder 10	Girder 11
$\bar{C}$ Brg. W. Abut.	530.261	530.443	530.625	530.806	530.986	530.946	530.799	530.651	530.503	530.354	530.205
$\bar{C}$ Splice No. 1	530.546	530.709	530.872	531.034	531.195	531.136	530.970	530.803	530.635	530.467	530.299
$\bar{C}$ Brg. Pier	530.444	530.600	530.755	530.909	531.063	530.997	530.823	530.649	530.474	530.299	530.123
$\bar{C}$ Splice No. 2	530.341	530.489	530.637	530.785	530.931	530.858	530.677	530.495	530.313	530.131	529.948
$\bar{C}$ Brg. E. Abut.	529.516	529.646	529.774	529.902	530.030	529.937	529.737	529.536	529.335	529.134	528.931

\*\* For Fabrication Only

STRUCTURAL STEEL DETAILS  
VETERANS MEMORIAL DR. over F.A.I. ROUTES 57/64  
SECTION (41-3)HBK  
JEFFERSON COUNTY  
STATION 49+72.27  
STRUCTURE NO. 041-0108

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DATE

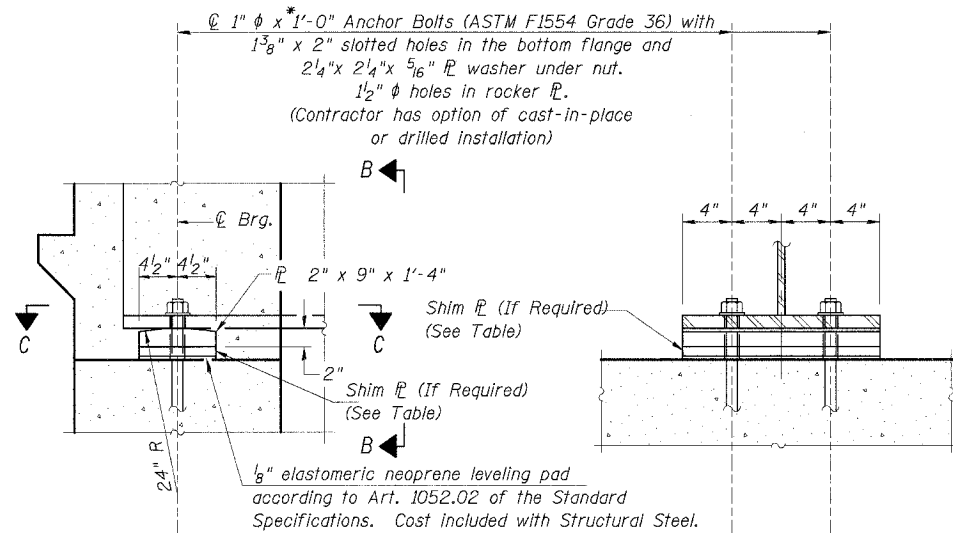
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March 2007 Submit Final  
5/21/2007  
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DRAWN	DAB	03/12/07
REVIEWED	/	/
CSR	02/02/04	
DAP	02/02/04	
TEH	02/02/04	
REVIEWED	/	/

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	518	288
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	CONTRACT NO. 98963	

Sheet 18 of 25

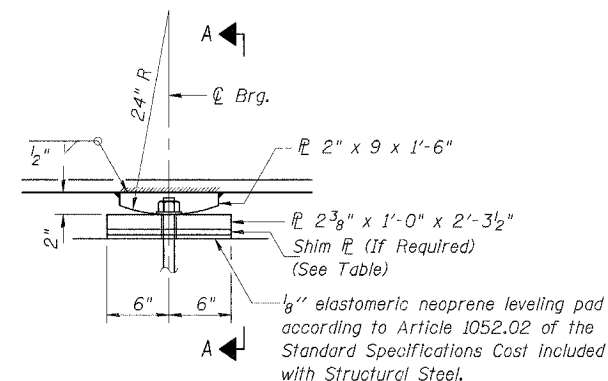


ELEVATION AT ABUTMENT

SECTION B-B

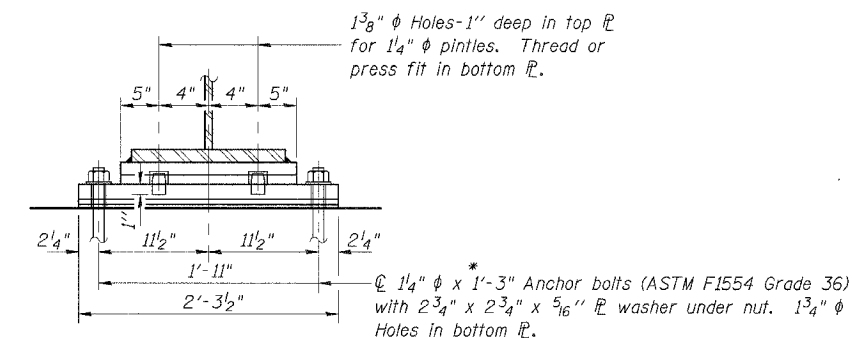
FIXED ABUTMENT BEARINGS

\* Length shown is the required total length for cast-in-place headed anchor bolts. The required total length for the sealed capsule alternate anchor bolt shall be according to the manufacturer's recommendations.

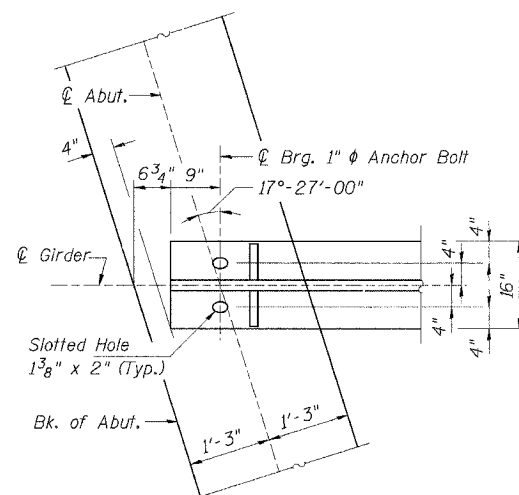


ELEVATION AT PIER

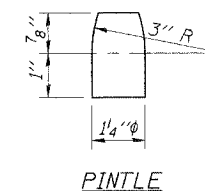
FIXED PIER BEARINGS



SECTION A-A



SECTION C-C



Notes:

Two  $\frac{1}{8}$  in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 ( $F_y=36$ ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.

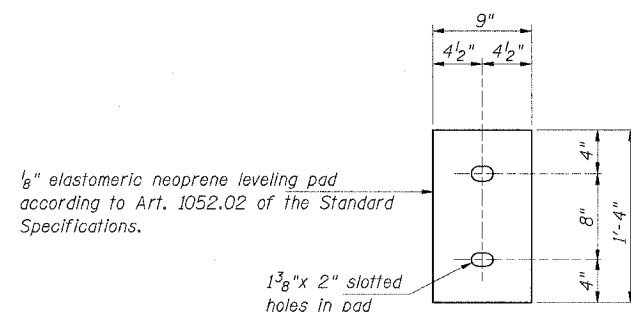
Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

The anchor bolts, furnished and installed and including the epoxy capsules shall not be paid for separately but shall be included in the unit bid price for Furnishing and Erecting Steel.

All bearing plates, pintles and shim plates shall conform to the requirements of AASHTO M270, Grade 50.

SHIM TABLE

Girder Location	#5
West Abut.	$\frac{3}{8}"$



PLAN-ELASTOMERIC NEOPRENE LEVELING PAD (At Abutments)

BEARING DETAILS  
 VETERANS MEMORIAL DR. over F.A.I. ROUTES 57/64  
 SECTION (41-3)HBK  
 JEFFERSON COUNTY  
 STATION 49+72.27  
 STRUCTURE NO. 041-0108

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DATE

03-14-07

March 2007 Submittal  
 03/20/07 03/12/07  
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REVIEWED	/	/

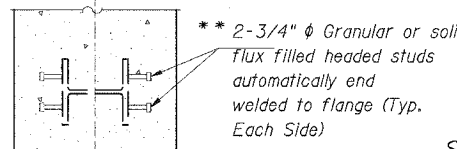
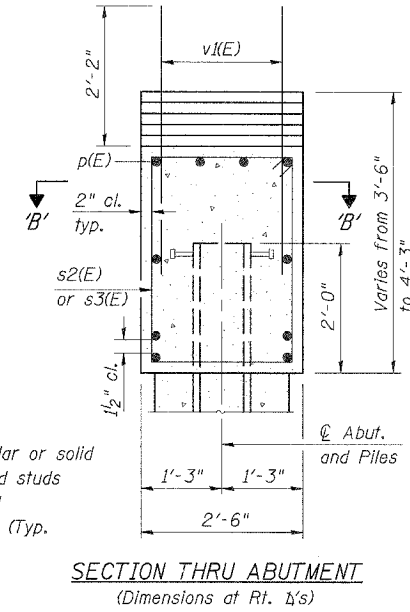
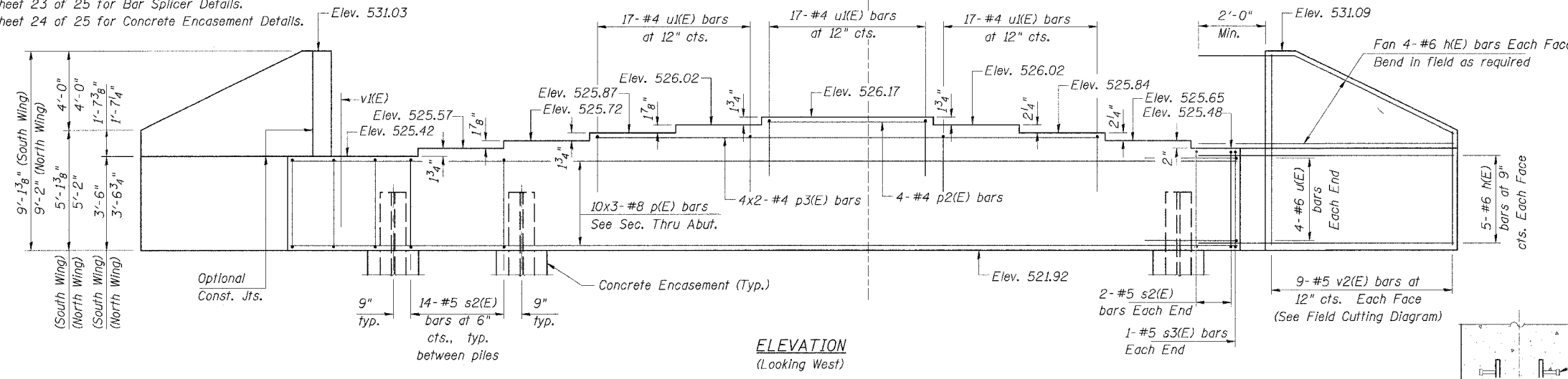
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REVIEWED	TEH	02/02/04



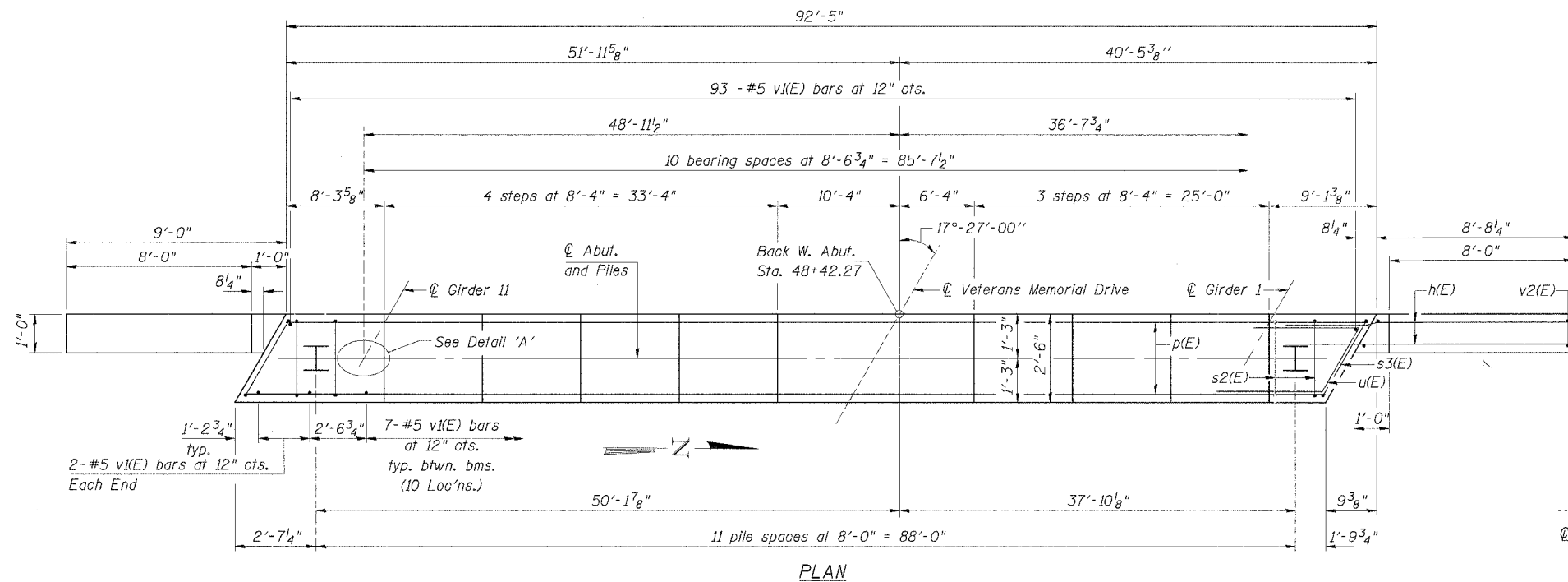
F.A.I. RT. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	518	289
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	CONTRACT NO. 98963	

Sheet 19 of 25

Notes:  
 Four steps monolithically with cap.  
 Space reinforcement in cap to miss anchor bolts.  
 Bars indicated thus: 4x2-#4 etc. indicates 4 lines of bars with 2 lengths per line.  
 See sheet 23 of 25 for Bar Splicer Details.  
 See sheet 24 of 25 for Concrete Encasement Details.



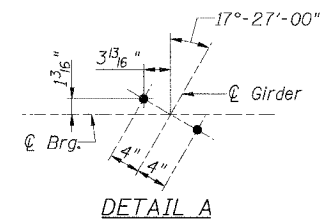
SECTION B-B  
 \*\*Cost Included with "Furnishing Steel Piles HP 12x84".



**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h(E)	36	#6	12'-0"	
p(E)	30	#8	34'-1"	
p1(E)	8	#4	25'-10"	
p2(E)	4	#4	16'-4"	
s2(E)	158	#5	11'-7"	
s3(E)	2	#5	11'-9"	
u(E)	8	#6	11'-2"	
u1(E)	51	#4	6'-6"	
v1(E)	167	#5	4'-4"	
v2(E)	18	#5	13'-5"	
Concrete Structures		Cu. Yd.	37.9	
Reinforcement Bars, Epoxy Coated		Pound	6860	
Structure Excavation		Cu. Yd.	234	
Furnishing Steel Piles HP12x84		Ft.	495	
Driving Piles		Ft.	495	
Test Pile Steel HP12x84		Each	1	
Pile Shoes		Each	12	
Concrete Encasement		Cu. Yd.	4.2	

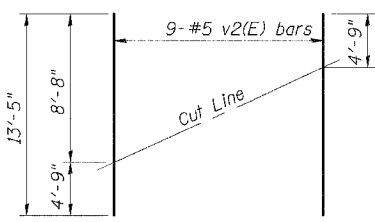
MIN. BAR LAPS  
 #4 bar - 1'-11"  
 #8 bar - 5'-1"



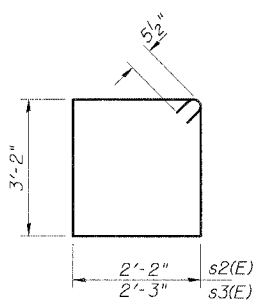
**PILE DATA**

Type: Steel - HP12x84 (w/ Pile Shoes)  
 Nominal Required Bearing : 664 kips  
 Allowable Resistance Factor: 161 kips  
 Est. Length: 45 ft.  
 No. of Production Piles: 11  
 No of Test Piles: 1

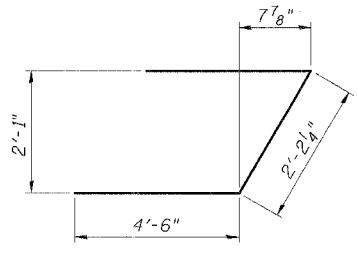
Piles shall be driven through 18 in. diameter precored holes extending to natural ground according to Article 512.09(c) of the Standard Specifications.  
 Cost included in driving piles.



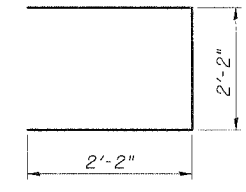
**FIELD CUTTING DIAGRAM**  
 Order v2(E) full length. Cut as shown and use remainder of bars in opposite face.



BARS s2(E) & s3(E)



BAR u(E)



BAR u1(E)

WEST ABUTMENT  
 VETERANS MEMORIAL DR. over F.A.I. ROUTES 57/64  
 SECTION (41-3)HBK  
 JEFFERSON COUNTY  
 STATION 49+72.27  
 STRUCTURE NO. 041-0108



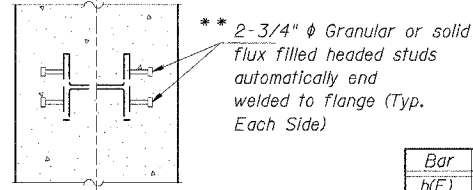
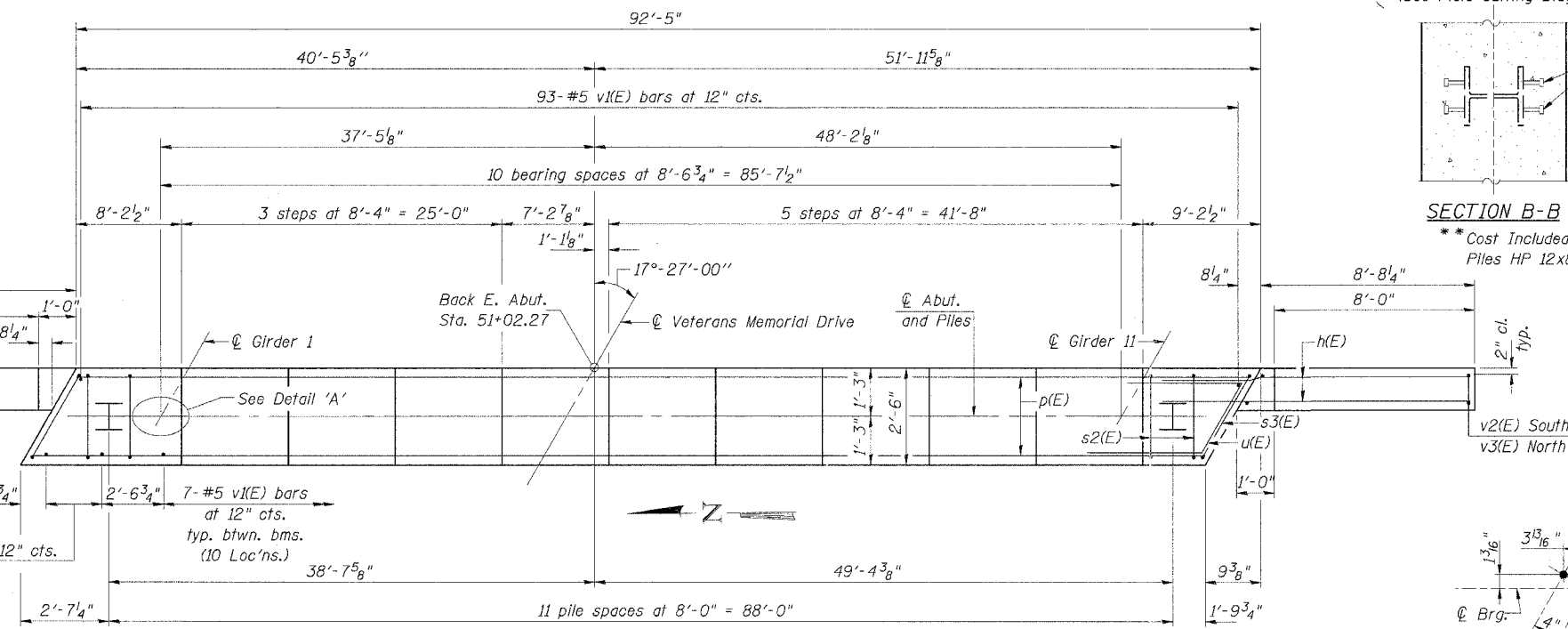
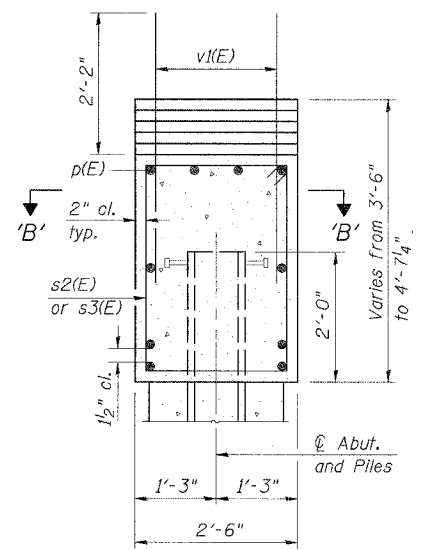
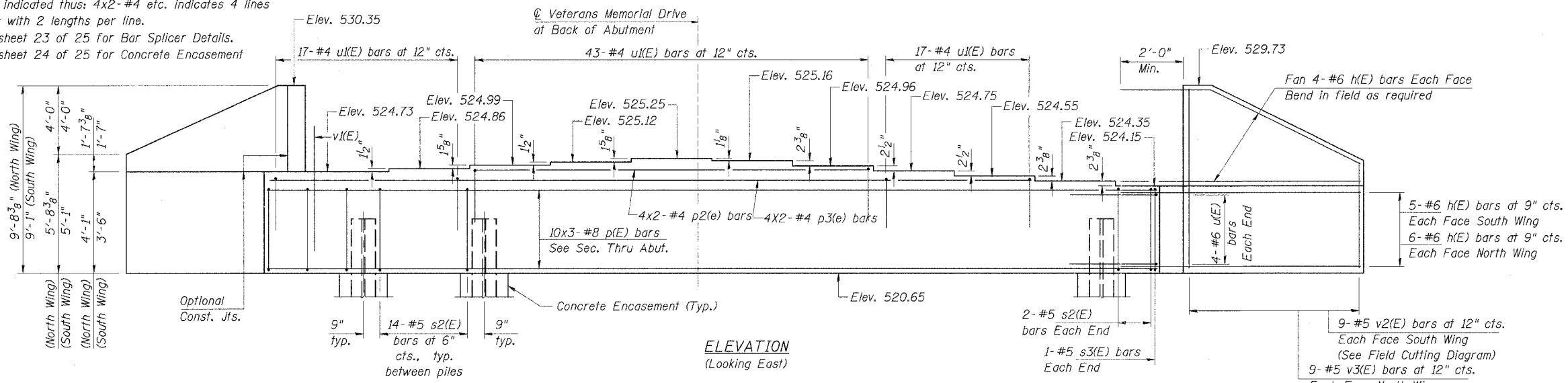
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 98S2019A  
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March 2007 Submit-Hd  
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 REVIEWED: TEH 02/22/04  
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	518	233
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 98963				

Sheet 20 of 25

**Notes:**  
 Pour steps monolithically with cap.  
 Space reinforcement in cap to miss anchor bolts.  
 Bars indicated thus: 4x2-#4 etc. indicates 4 lines of bars with 2 lengths per line.  
 See sheet 23 of 25 for Bar Splicer Details.  
 See sheet 24 of 25 for Concrete Encasement Details.



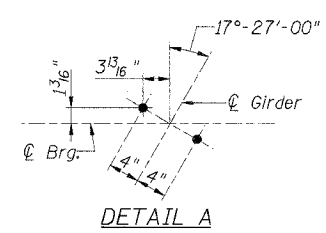
**SECTION THRU ABUTMENT**  
 (Dimensions at Rt. L's)

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h(E)	38	#6	12'-0"	
p(E)	30	#8	34'-1"	
p2(E)	8	#4	21'-9"	
p3(E)	8	#4	10'-0"	
s2(E)	158	#5	11'-7"	□
s3(E)	2	#5	11'-9"	□
u(E)	8	#6	11'-2"	┌
u(E)	77	#4	6'-6"	┌
v(E)	167	#5	4'-4"	
v2(E)	9	#5	13'-5"	
v3(E)	9	#5	14'-10"	
Concrete Structures	Cu. Yd.	38.2		
Reinforcement Bars, Epoxy Coated	Pound	7010		
Structure Excavation	Cu. Yd.	234		
Furnishing Steel Piles HPI2x84	Ft.	495		
Driving Piles	Ft.	495		
Test Pile Steel HPI2x84	Each	1		
Pile Shoes	Each	12		
Concrete Encasement	Cu. Yd.	4.2		

**MIN. BAR LAPS**  
 #4 bar - 1'-11"  
 #8 bar - 5'-1"

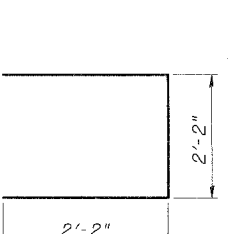
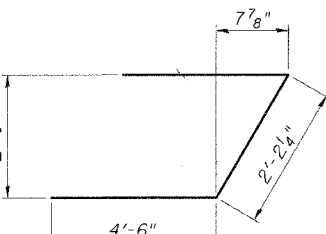
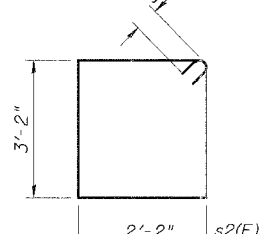
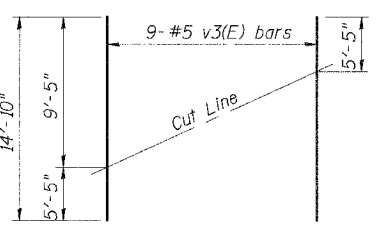
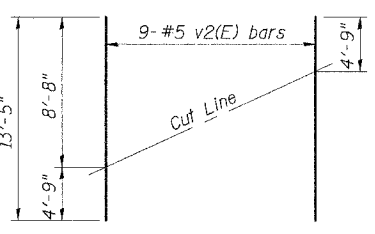
**SECTION B-B**  
 \* Cost Included with "Furnishing Steel Piles HP 12x84".



**PILE DATA**

Type: Steel - HPI2x84 (w/ Pile Shoes)  
 Nominal Required Bearing : 664 kips  
 Allowable Resistance Factor: 161 kips  
 Est. Length: 45 ft.  
 No. of Production Piles: 11  
 No of Test Piles: 1

Piles shall be driven through 18 in. diameter precored holes extending to natural ground according to Article 512.09(c) of the Standard Specifications.  
 Cost included in driving piles.



**FIELD CUTTING DIAGRAM SOUTH WING**

**FIELD CUTTING DIAGRAM NORTH WING**

**BARS s2(E) & s3(E)**

**BAR u(E)**

**BAR u(E)**

Order v2(E) full length. Cut as shown and use remainder of bars in opposite face.

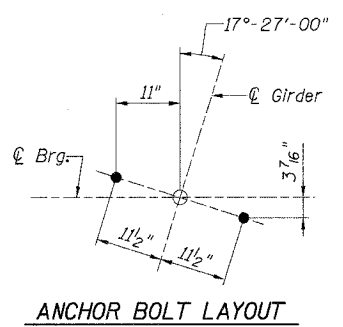
Order v3(E) full length. Cut as shown and use remainder of bars in opposite face.

**EAST ABUTMENT**  
 VETERANS MEMORIAL DR. over F.A.I. ROUTES 57/64  
 SECTION (41-3)HBK  
 JEFFERSON COUNTY  
 STATION 49+72.27  
 STRUCTURE NO. 041-0108

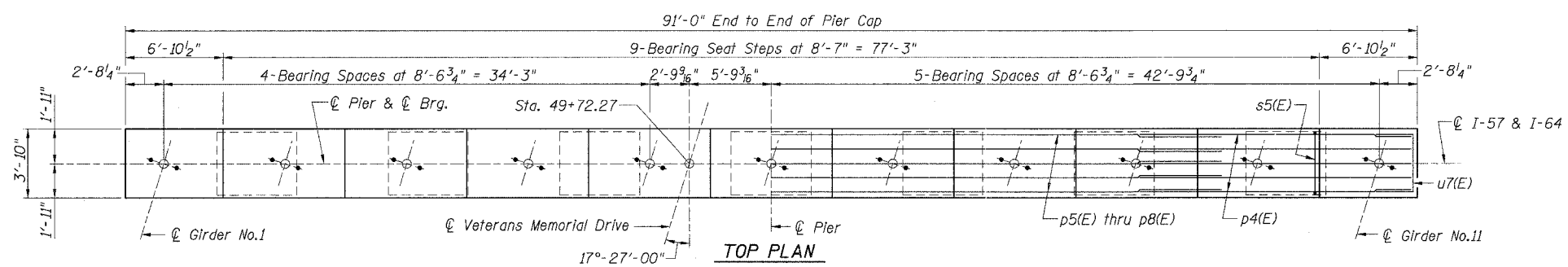
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 02/02/04

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	118	291
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 98963				

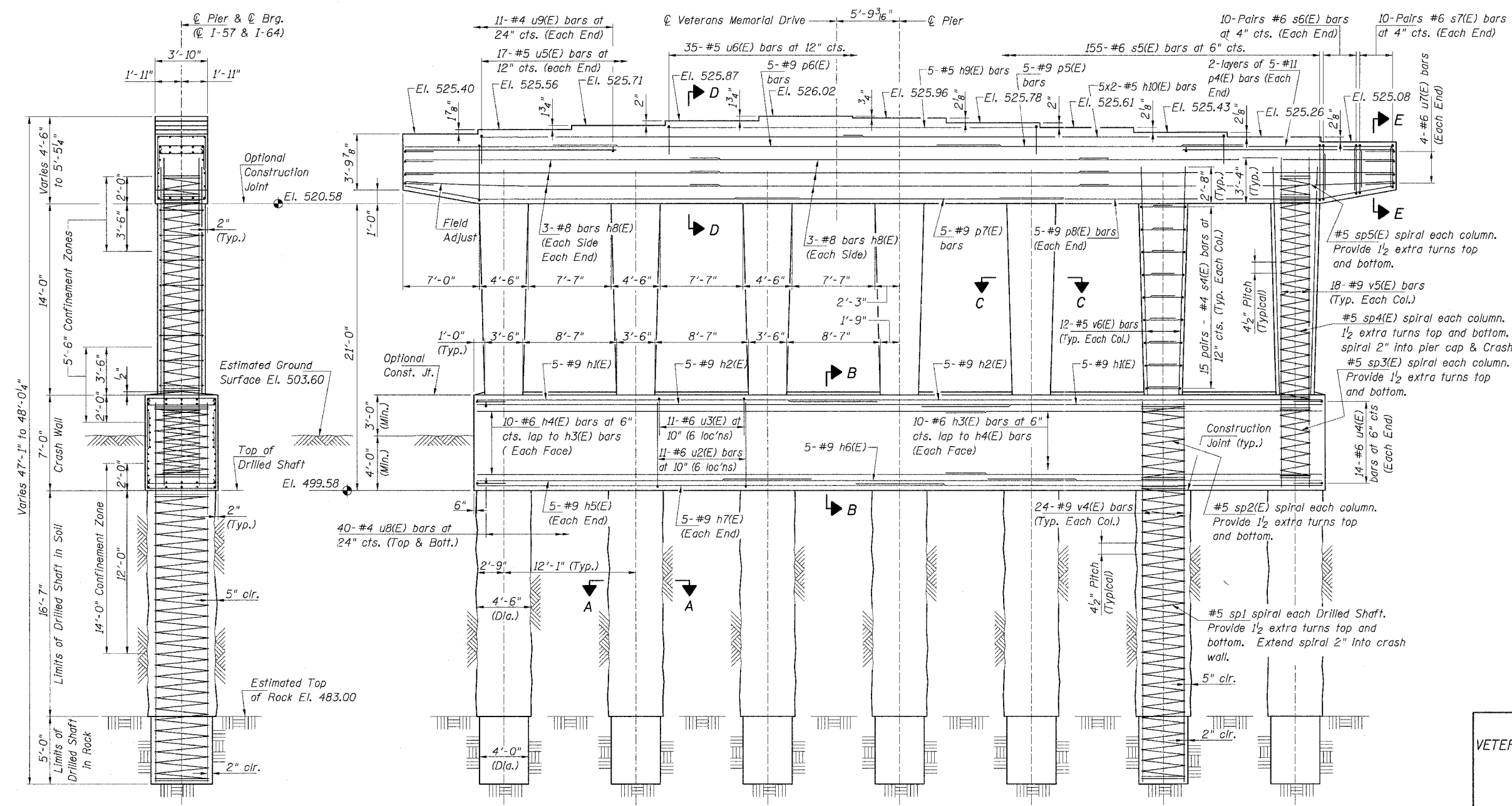
Sheet 21 of 25



ANCHOR BOLT LAYOUT



TOP PLAN



ELEVATION (Looking Upstation)

**MIN. BAR LAPS**

- #4 - 1'-8"
- #5 - 2'-2"
- #6 - 2'-7"
- #8 - 4'-6"
- #9 - 8'-1"

Note:  
 Space cap reinforcement to miss anchor bolts.  
 Cast steps monolithically with cap.  
 Bars indicated thus, 5x2 #5 etc. Indicates 5 lines of bars with 2 lengths per line.  
 Provide each spiral with 4-#4 spacers or equivalent.  
 See Sheet 22 of 25 for Pier Bill of Material, Sections and Details.  
 Shop weld together extra 1/2 spiral turns at top and bottom of spiral per AWS D1.4 or provide 1/2 extra turns top and bottom with 135° standard hook into core at ends of spiral.

The quantities and reinforcement detailing are based on the top of shaft and estimated rock elevations shown and may change based on the actual top of rock elevation encountered at each shaft and the final top of shaft elevation.

PIER DETAILS (Sheet 1 of 2)  
 VETERANS MEMORIAL DR. over F.A.I. ROUTES 57/64  
 SECTION (41-3)HBK  
 JEFFERSON COUNTY  
 STATION 49+72.27  
 STRUCTURE NO. 041-0108

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JOB NO. 98S2019A  
 DATE 03-14-07

March 2007 Submittal

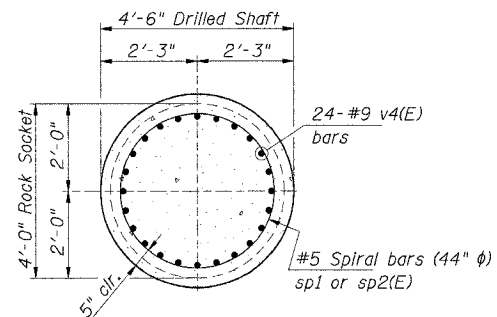
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DRAWN	DAS	03/12/07
REVIEWED		

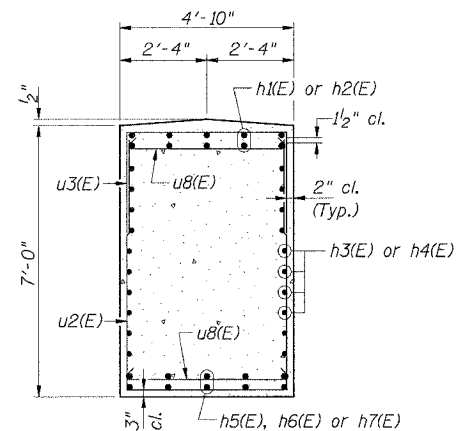
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02/22/04	MMN

F.A.I. RT#	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	518	292
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	CONTRACT NO. 98963	

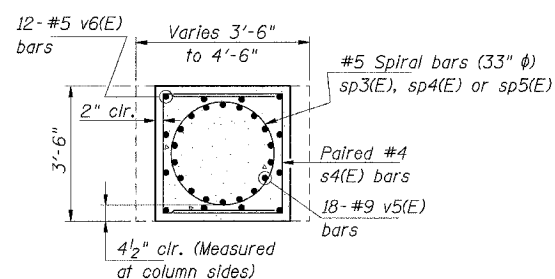
Sheet 22 of 25



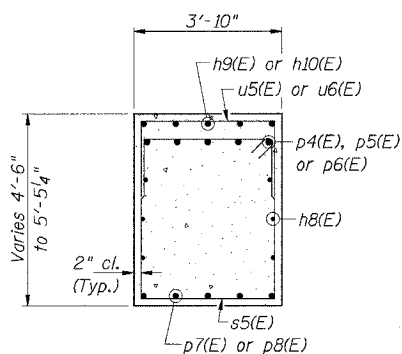
SECTION A-A



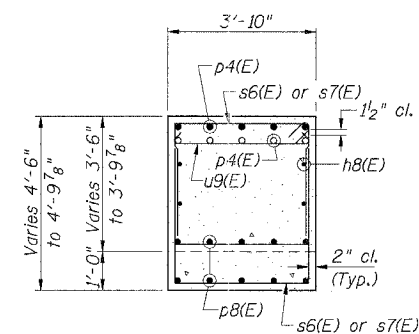
SECTION B-B



SECTION C-C



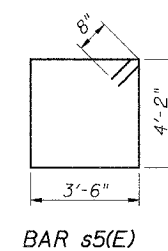
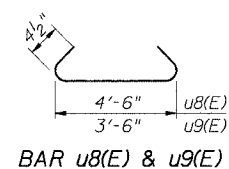
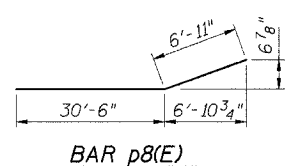
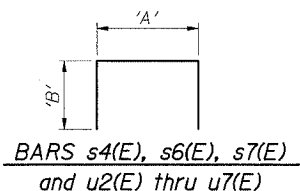
SECTION D-D



SECTION E-E

A & B DIMENSIONS

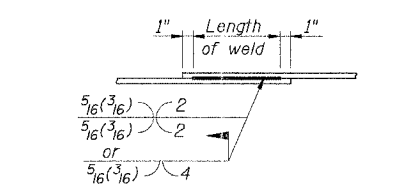
Bar	'A'	'B'
s4(E)	3'-2"	3'-2"
s6(E)	3'-6"	3'-5"
s7(E)	3'-6"	3'-2"
u2(E)	4'-6"	6'-7"
u3(E)	4'-6"	2'-7"
u4(E)	4'-0"	2'-7"
u5(E)	3'-6"	2'-8"
u6(E)	3'-6"	3'-1"
u7(E)	3'-4"	2'-7"



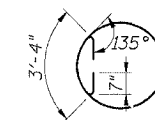
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h1(E)	10	#9	36'-10"	—
h2(E)	10	#9	48'-11"	—
h3(E)	20	#6	34'-1"	—
h4(E)	20	#6	46'-2"	—
h5(E)	10	#9	30'-9"	—
h6(E)	5	#9	32'-3"	—
h7(E)	10	#9	42'-10"	—
h8(E)	18	#8	33'-3"	—
h9(E)	5	#5	34'-0"	—
h10(E)	10	#5	35'-4"	—
p4(E)	20	#11	23'-11"	—
p5(E)	5	#9	27'-6"	—
p6(E)	5	#9	39'-7"	—
p7(E)	5	#9	32'-3"	—
p8(E)	10	#9	37'-5"	—
s4(E)	210	#4	9'-6"	—
s5(E)	155	#6	16'-8"	—
s6(E)	40	#6	10'-4"	—
s7(E)	40	#6	9'-10"	—
* sp1	7	#5	21'-4"	
* sp2(E)	7	#5	5'-9"	
* sp3(E)	7	#5	5'-9"	
* sp4(E)	7	#5	14'-4"	
* sp5(E)	7	#5	2'-0"	
u2(E)	66	#6	17'-8"	—
u3(E)	66	#6	9'-8"	—
u4(E)	28	#6	9'-2"	—
u5(E)	34	#5	8'-10"	—
u6(E)	35	#5	9'-8"	—
u7(E)	8	#6	8'-6"	—
u8(E)	80	#4	5'-3"	<—>
u9(E)	22	#4	4'-3"	<—>
v4(E)	168	#9	27'-8"	—
v5(E)	126	#9	24'-2"	—
v6(E)	84	#5	17'-4"	—
Structure Excavation	Cu. Yd.	108		
Drilled Shaft in Soil	Cu. Yd.	68.4		
Drilled Shaft in Rock	Cu. Yd.	16.3		
Concrete Structures	Cu. Yd.	209.7		
Reinforcement Bars, Epoxy Coated	Pound	59570		
Reinforcement Bars	Pound	4970		

\* Length of spiral is equal to its required height.



SPIRAL WELDED SPLICE DETAIL



SPIRAL LAP SPLICE DETAIL

Hooks shall be placed to avoid longitudinal reinforcement. Lap splices are not allowed in the confinement zones.

PIER DETAILS (Sheet 2 of 2)  
 VETERANS MEMORIAL DR. over F.A.I. ROUTES 57/64  
 SECTION (41-3)HBK  
 JEFFERSON COUNTY  
 STATION 49+72.27  
 STRUCTURE NO. 041-0108

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JOB NO.

98S2019A

DATE  
03-14-07

March 2007 Submitted  
 LAYOUT: MM 03/12/07  
 DRAWN: DBS 03/12/07  
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	518	233
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 98963

Sheet 23 of 25

**NOTES**

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.  
 Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.  
 All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.  
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.  
 Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

- ① Minimum Capacity =  $1.25 \times f_y \times A_l$   
(Tension in kips)
  - ② Minimum \*Pull-out Strength =  $0.66 \times f_y \times A_l$   
(Tension in kips)
- Where  $f_y$  = Yield strength of lapped reinforcement bars in ksi.  
 $A_l$  = Tensile stress area of lapped reinforcement bars.  
 \* = 28 day concrete

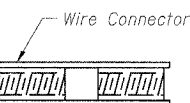
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension
#4	1'-8"	14.7	7.9
#5	2'-0"	23.0	12.3
#6	2'-7"	33.1	17.4
#7	3'-5"	45.1	23.8
#8	4'-6"	58.9	31.3
#9	5'-9"	75.0	39.6
#10	7'-3"	95.0	50.3
#11	9'-0"	117.4	61.8

The diameter of this part is equal or larger than the diameter of bar spliced.

**ROLLED THREAD DOWEL BAR**



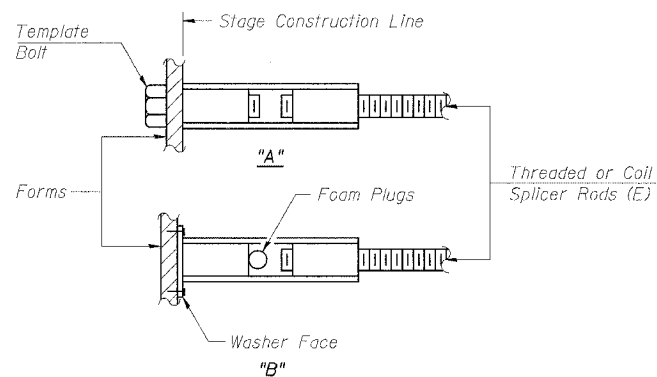
**\*\* ONE PIECE**



**WELDED SECTIONS**

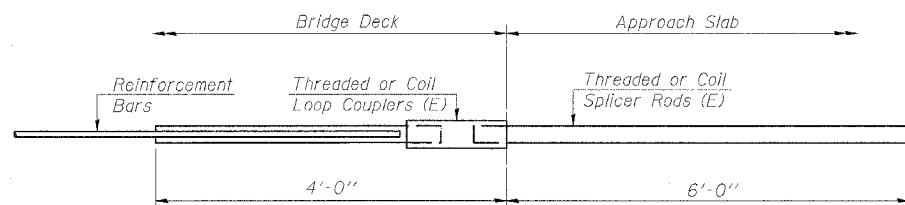
**BAR SPLICER ASSEMBLY ALTERNATIVES**

\*\* Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



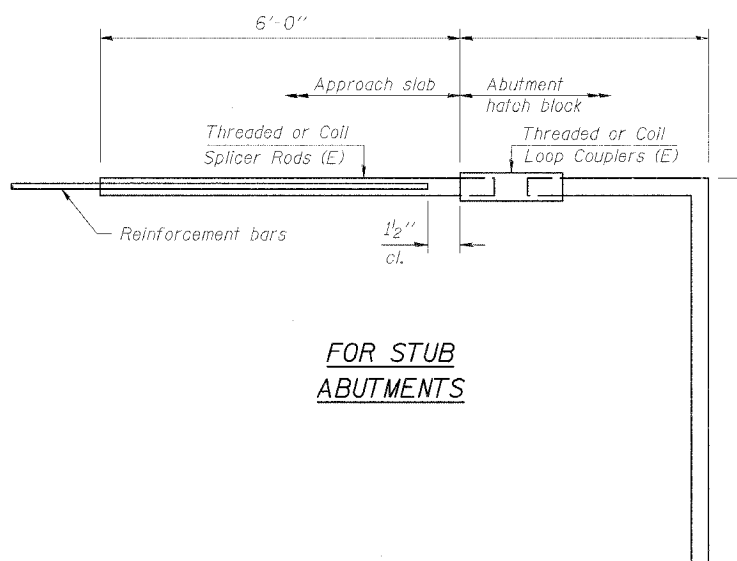
**INSTALLATION AND SETTING METHODS**

"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.



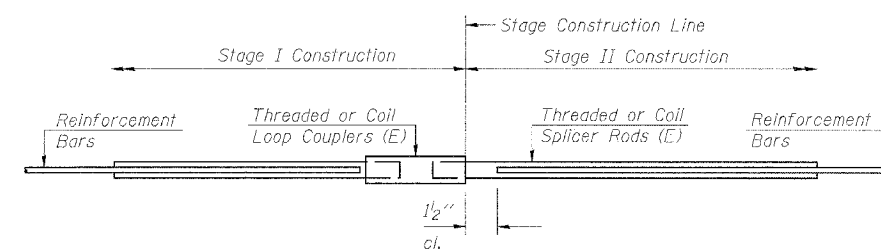
**FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS**

Bar Splicer for #5 bar		
Min. Capacity =	23.0 kips - tension	
Min. Pull-out Strength =	12.3 kips - tension	
No. Required =	174	



**FOR STUB ABUTMENTS**

Bar Splicer for #5 bar		
Min. Capacity =	23.0 kips - tension	
Min. Pull-out Strength =	12.3 kips - tension	
No. Required =		



**STANDARD**

Bar Size	No. Assemblies Required	Location

**BAR SPLICER ASSEMBLY DETAILS**  
 VETERANS MEMORIAL DR. over F.A.I. ROUTES 57/64  
 SECTION (41-3)HBK  
 JEFFERSON COUNTY  
 STATION 49+72.27  
 STRUCTURE NO. 041-0108

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JOB NO.

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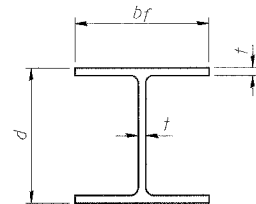
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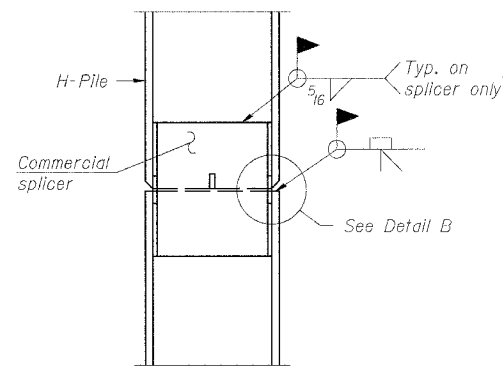
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	518	294
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	CONTRACT NO. 98963	

Sheet 24 of 25

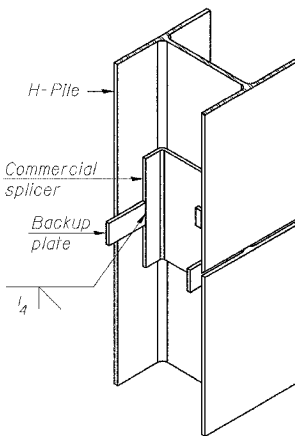


STEEL PILE TABLE

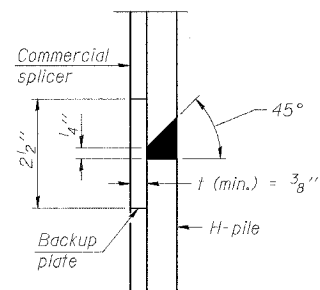
Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1 1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1 1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"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

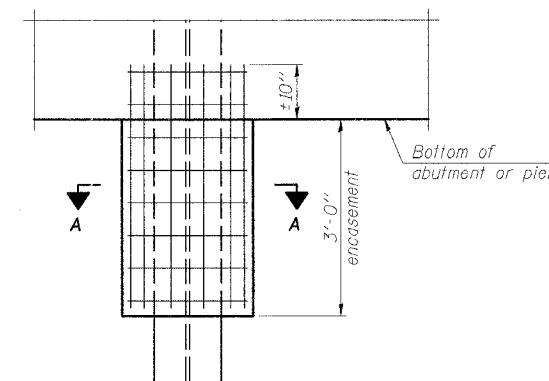


ISOMETRIC VIEW



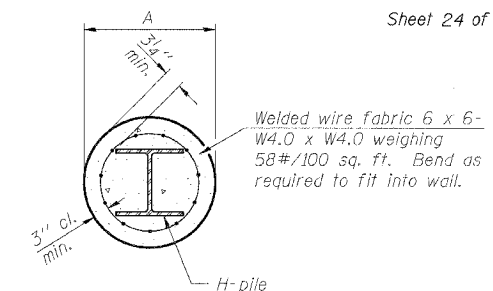
DETAIL "B"

WELDED COMMERCIAL SPLICE



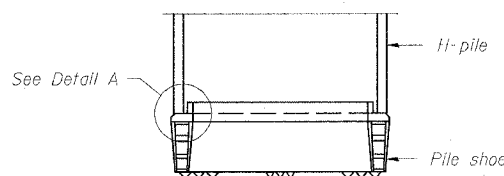
ELEVATION

PILE ENCASUREMENT



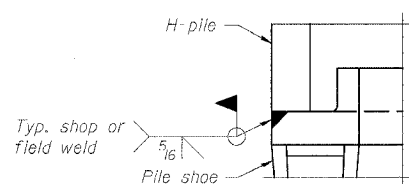
SECTION A-A

Note:  
Forms for encasement may be omitted when soil conditions permit.

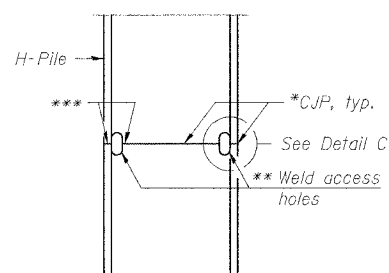


ELEVATION

H-PILE SHOE ATTACHMENT

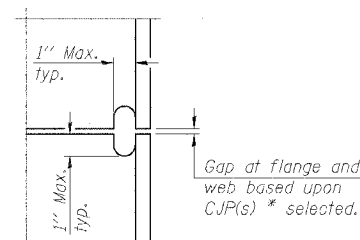


DETAIL A

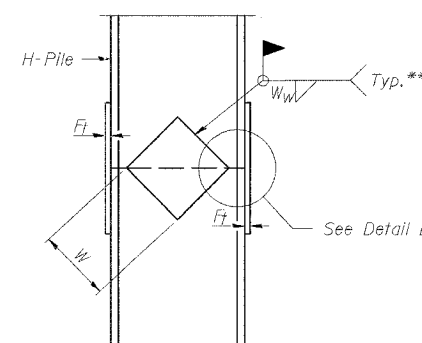


ELEVATION

COMPLETE PENETRATION WELD SPLICE

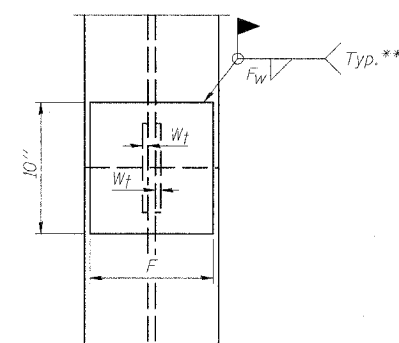


DETAIL C



ELEVATION

WELDED PLATE FIELD SPLICE



END VIEW

Designation	F	F <sub>t</sub>	F <sub>w</sub>	W	W <sub>t</sub>	W <sub>w</sub>
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5 1/2"	1 1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5 1/2"	1 1/2"
x89	12 1/2"	3/4"	1 1/16"	7 3/4"	5 1/2"	1 1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5 1/2"	1 1/2"
HP 12x84	10"	7/8"	1 1/16"	6 1/2"	5 1/2"	1 1/2"
x74	10"	7/8"	1 1/16"	6 1/2"	5 1/2"	1 1/2"
x63	10"	5/8"	1/2"	6 1/2"	1 1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1 1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1 1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1 1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1 1/2"	3/8"

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

- \* Use joint conforming to Figure 3.4 in AWS D1.1, Structure Welding Code - Steel.
- \*\* Preparation per Fig. 5.2 in AWS D1.1, Structure Welding Code - Steel.
- \*\*\* Interrupt welds 1/4" from end of each pile.

PILE DETAILS  
VETERANS MEMORIAL DR. over F.A.I. ROUTES 57/64  
SECTION (41-3)HBK  
JEFFERSON COUNTY  
STATION 49+72.27  
STRUCTURE NO. 041-0108

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98S2019A

03-14-07

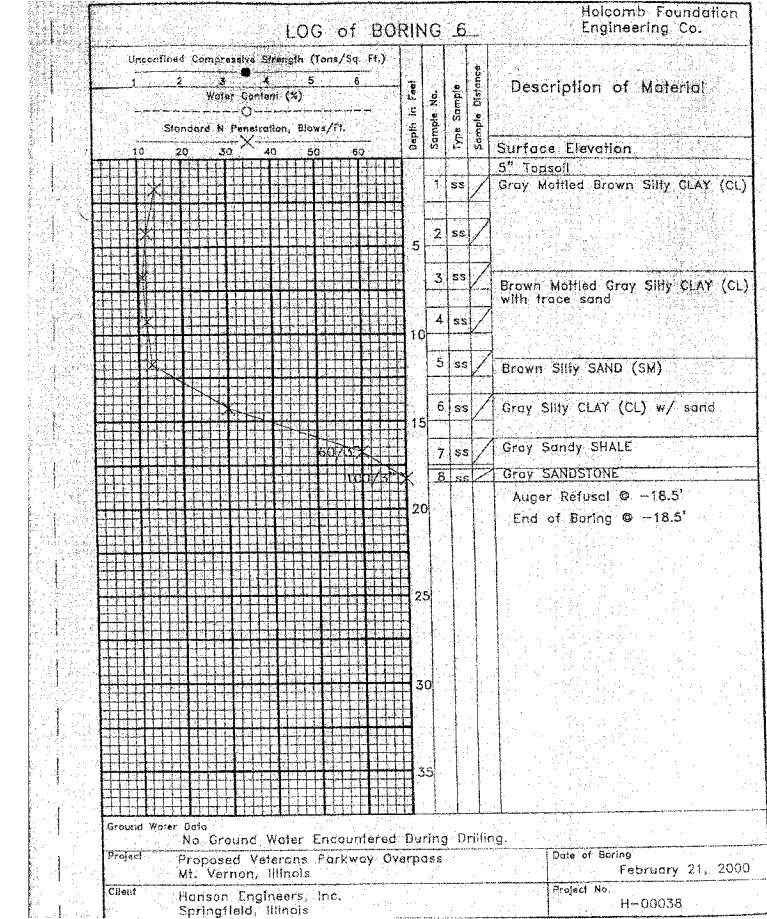
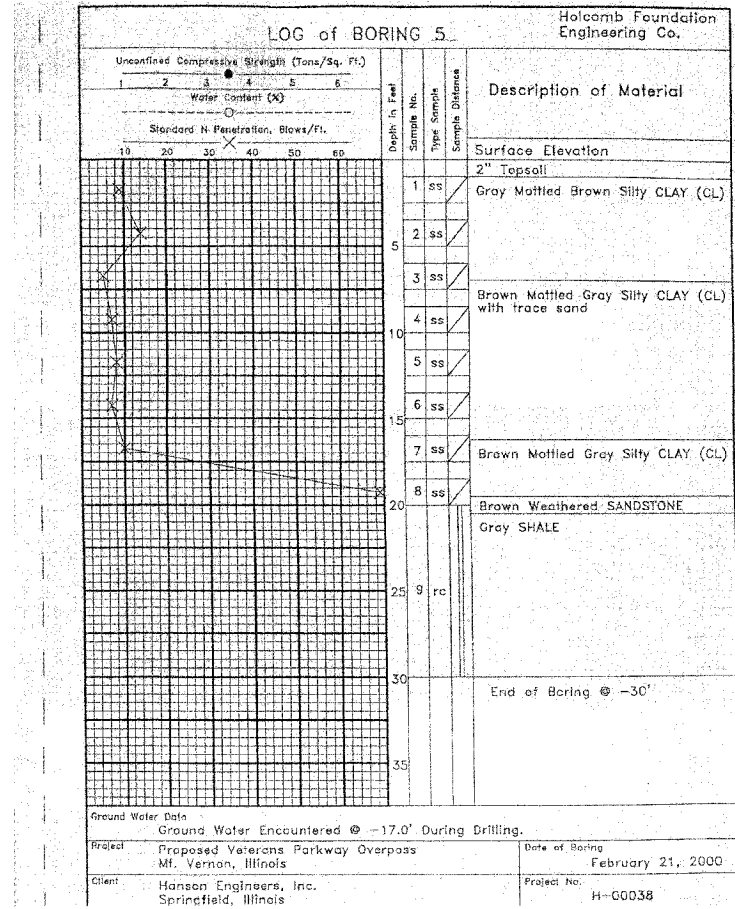
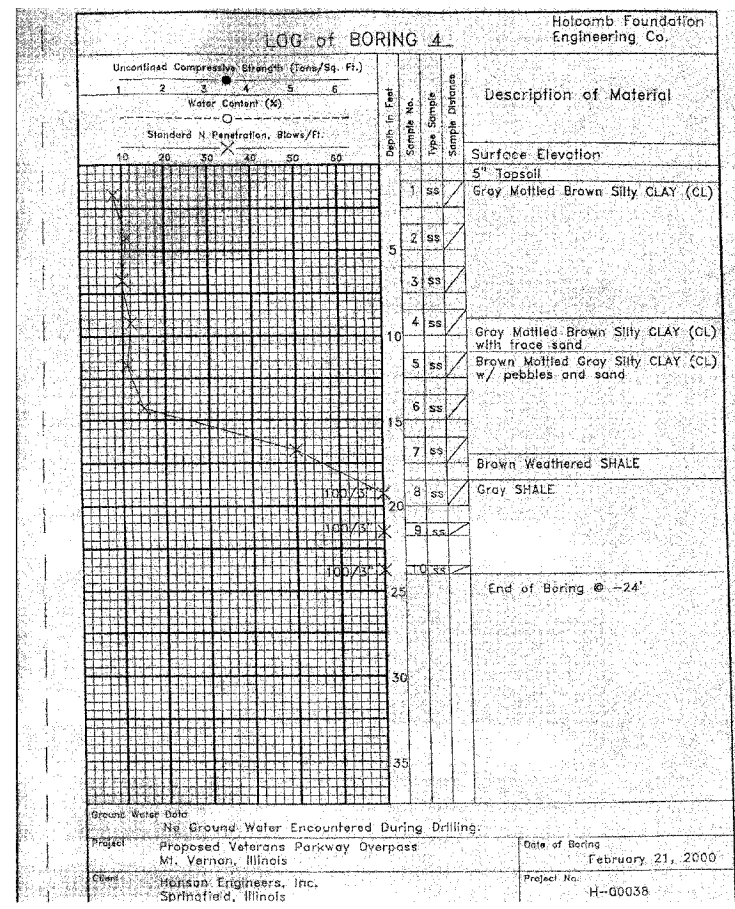
March 2007 Submittal  
 LAYOUT MM 03/12/07  
 DRAWN DAB 03/12/07  
 REVIEWED / /

March 2007 Submittal  
 LAYOUT MM 03/12/07  
 DRAWN DAB 03/12/07  
 REVIEWED / /

F.A.I. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64 (41-3)HBK	JEFFERSON	518	295
STA. TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		

CONTRACT NO. 98963

Sheet 25 of 25



3/21/2007  
I:\086\085\862\086\Struct\Sheet\Final Plans 03-18-00\F-025.dwg

DATE	BY
02/22/04	CSR
02/22/04	DJP
02/22/04	TEH

**BORINGS**  
VETERANS MEMORIAL DR. over F.A.I. ROUTES 57/64  
SECTION (41-3)HBK  
JEFFERSON COUNTY  
STATION 49+72.27  
STRUCTURE NO. 041-0108

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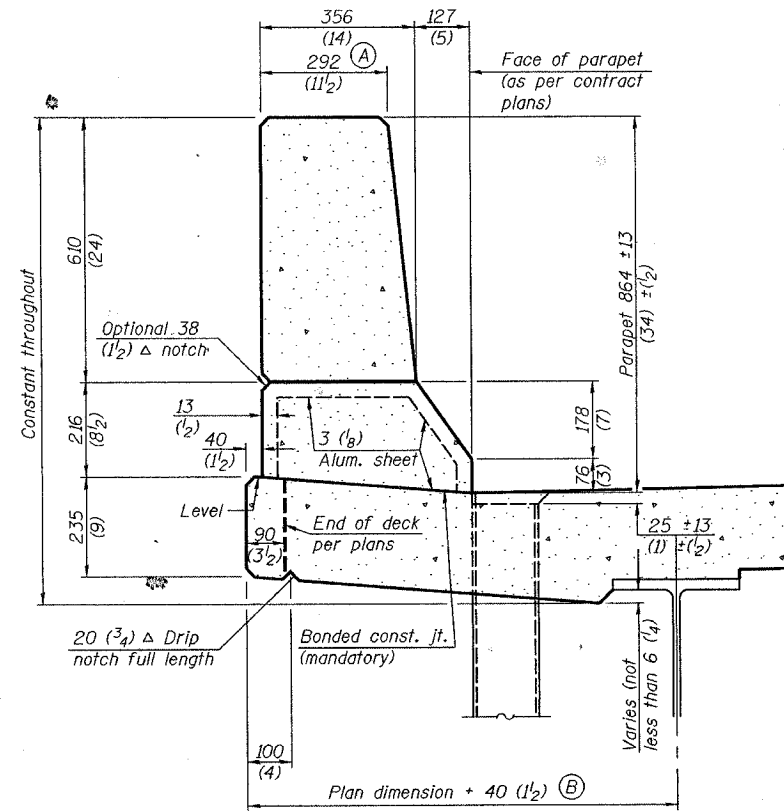
**HANSON**

JOB NO. 98S2019A  
DATE 03-14-07

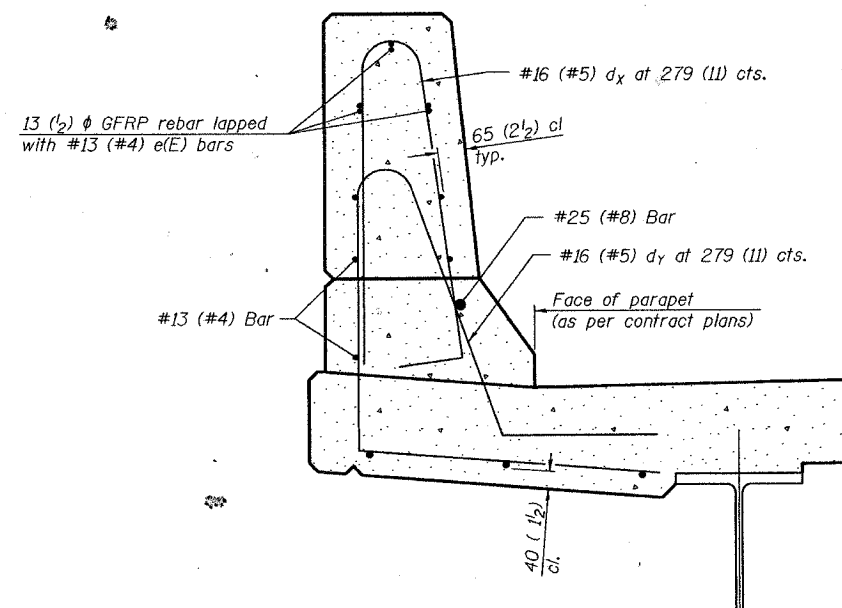
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO.
P.A.I. 57/64	41-3...	Jefferson	518	295A.	SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

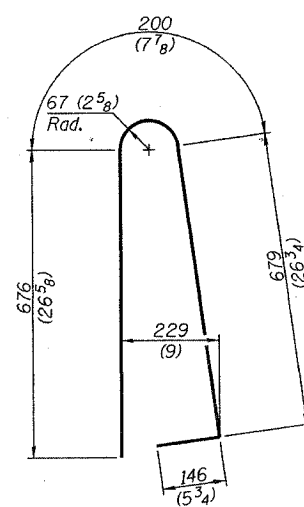
Contract # 98963



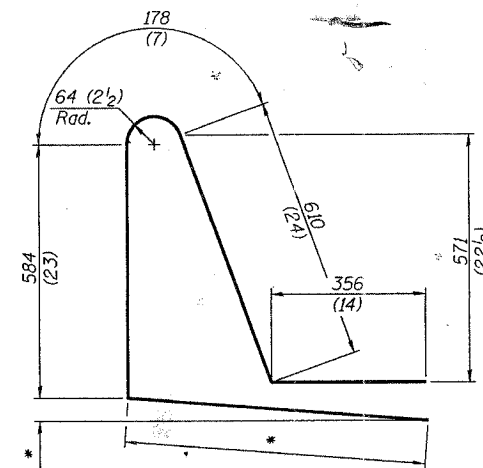
**SECTION**  
(Showing dimensions)



**SECTION**  
(Showing required reinforcement)

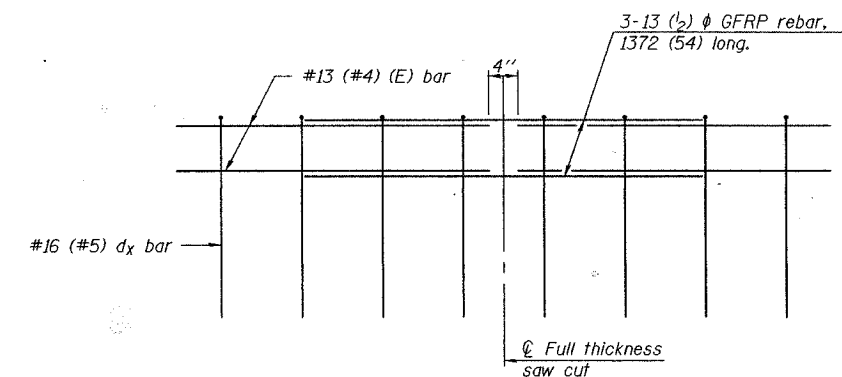


**BAR dx(e)**



**BAR dy(e)**  
\* Per contract plans

**GENERAL NOTES**  
All dimensions shall remain the same as shown on contract plans, except dimensions A and B which are to be revised as shown to provide additional clearance. Additional concrete needed to revise dimension A and B = 0.0422 m<sup>3</sup>/m (0.165 cu. yds./ft.) of parapet. Place aluminum sheet in curb portion at and near piers. Full thickness saw cut at all other locations. Adjust/add joint locations to maintain 3 to 6 meter (10 to 20 foot) spacing.

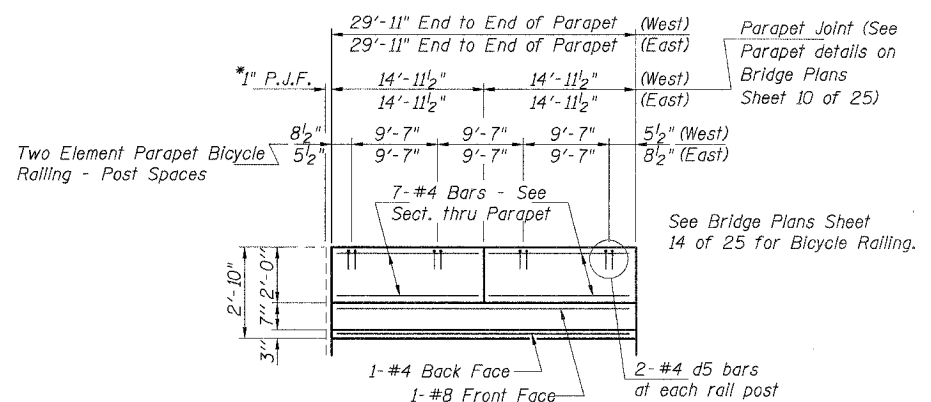
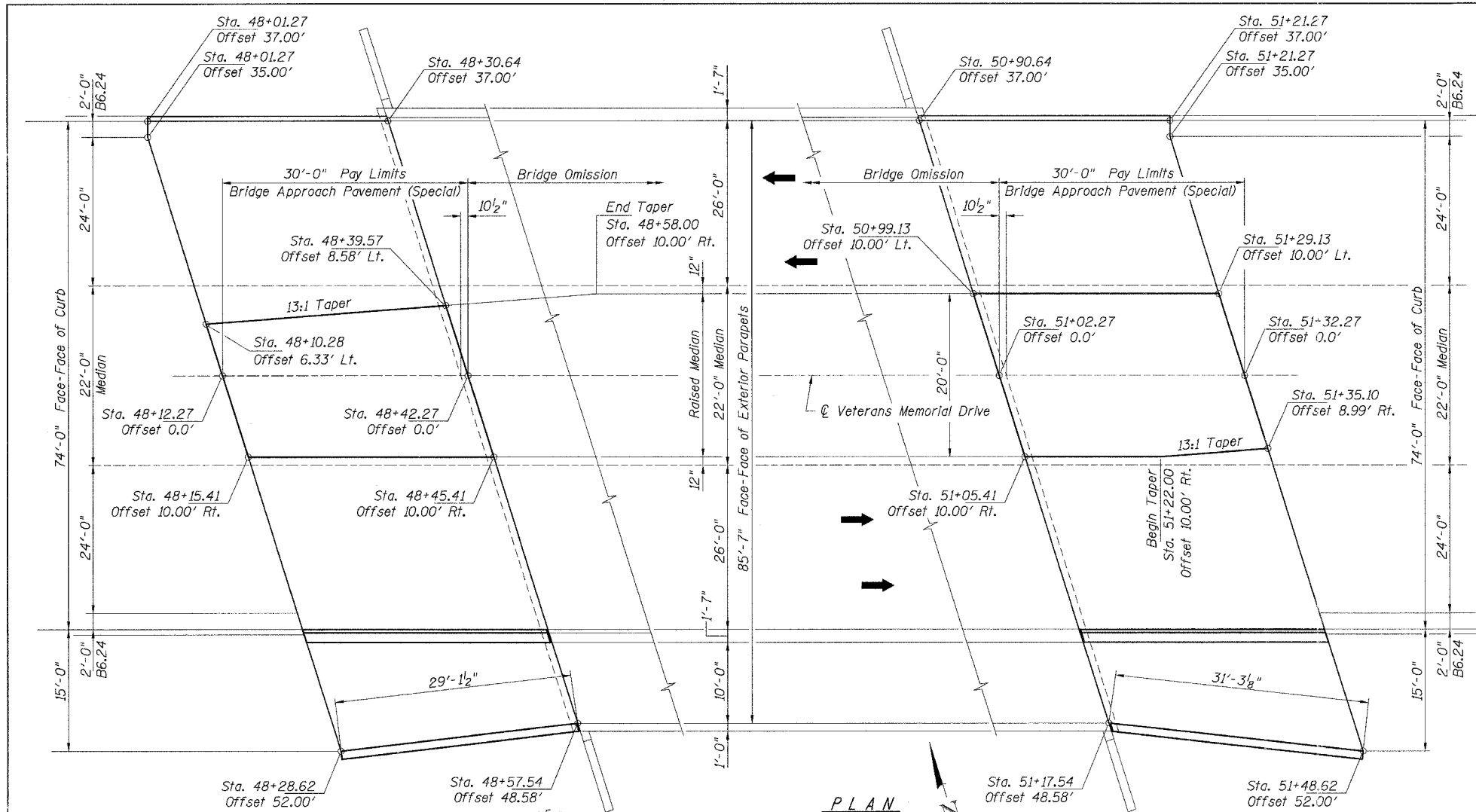


**GFRP REBAR STIFFENING DETAIL**  
(Place as shown in parapet section)

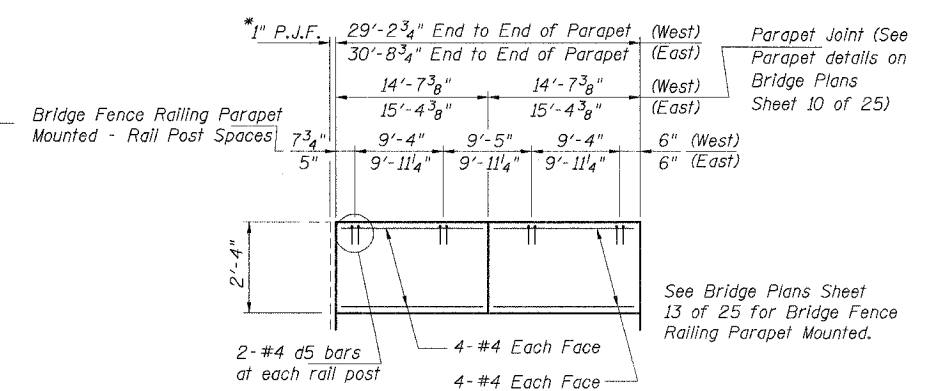
**CONCRETE PARAPET  
SLIPFORMING OPTION**



F.A.I. SHEET NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	518	296
STA.	TO STA.			
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 98963				



Note:  
 All dimensions are measured along back face of parapets.



Notes:  
 The cost of, W.B. Curb, Raised Median, Roadway Parapet, Walkway Parapet, and reinforcement bars shown shall be included with the cost for 30'-0" Approach Pavement (Special).  
 All Parapet and Median Reinforcement shall be Epoxy Coated.

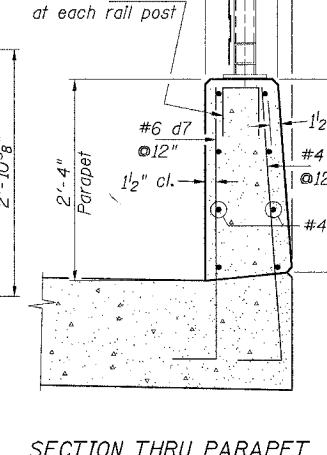
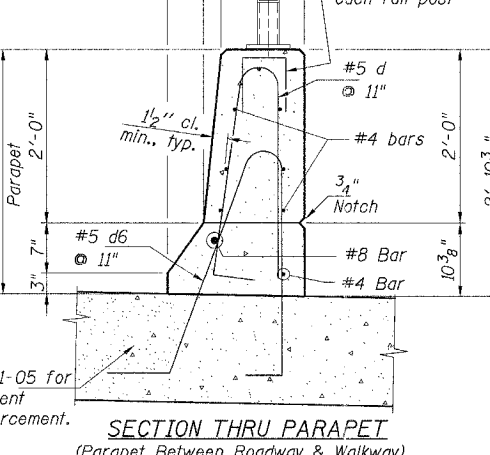
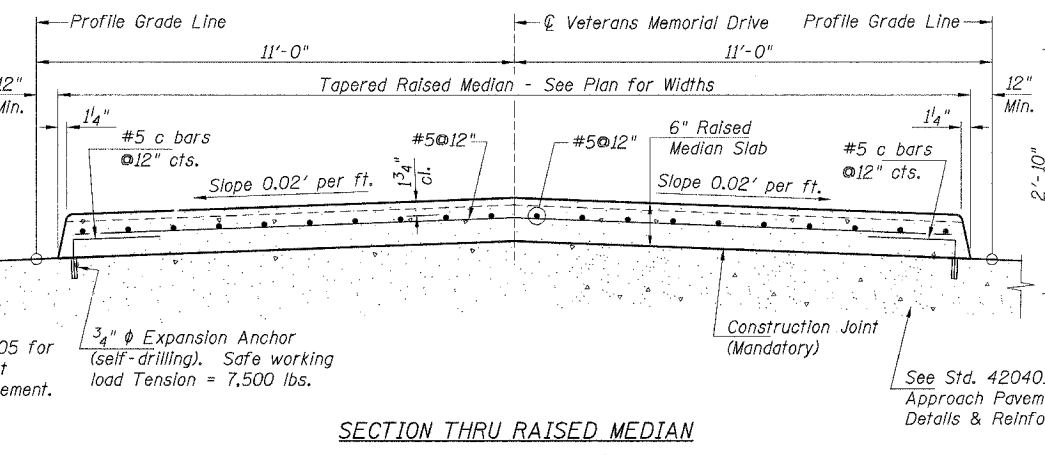
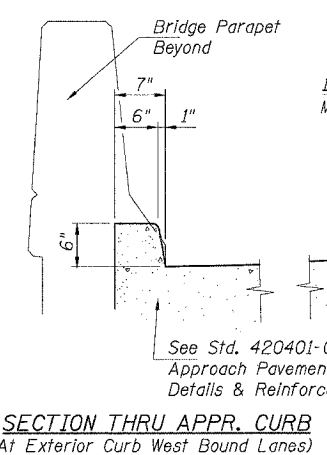
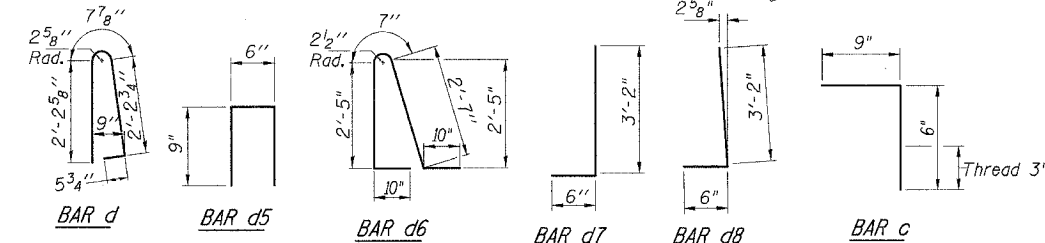
**BILL OF MATERIAL**

Item	Unit	Quantity
Bicycle Railing	Foot	58
Bridge Fence Railing	Foot	58
Bridge Approach Pavement (Special)	Sq. Yd.	593

**REVISIONS**

NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**APPROACH PAVEMENT DETAILS SHEET**  
**VETERANS MEMORIAL DRIVE INTERCHANGE SECTION (41-3)HBK**  
 SCALE: DATE 3-22-07 DRAWN BY RLT CHECKED BY MTM



3/21/2007  
 1:498.005.986:2019aRoadSheetAC-601-bapad.rvt  
 RLT 02/26/04  
 LEO 04/12/04  
 REVIEWED MTM 03/22/07

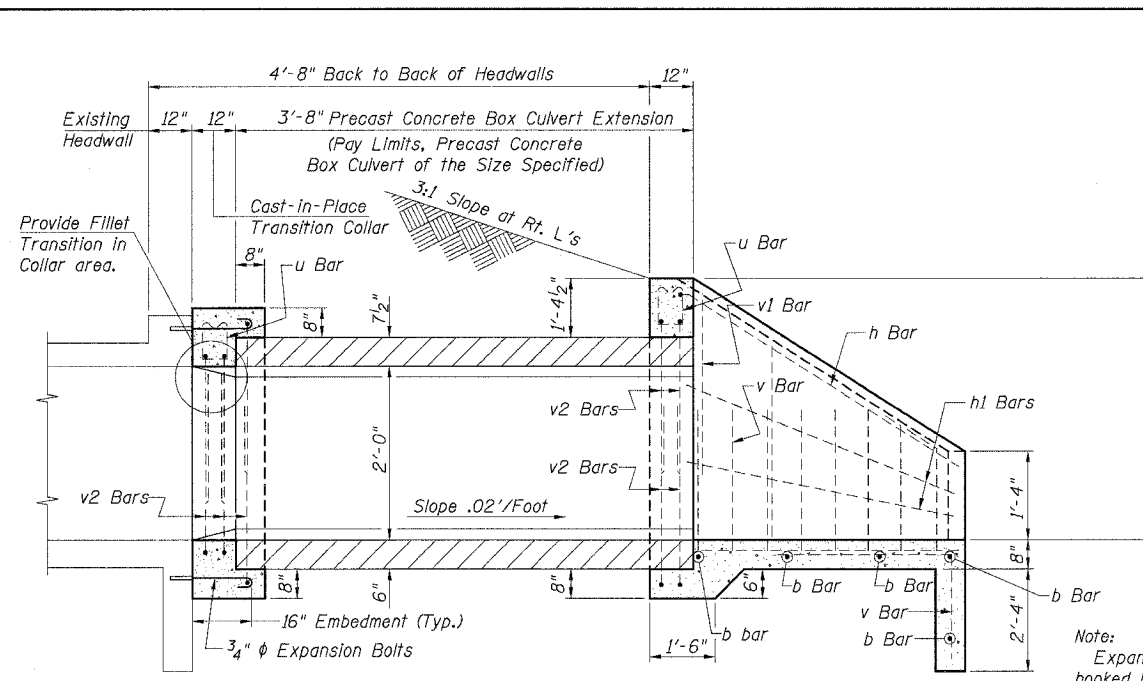
See Std. 420401-05 for Approach Pavement Details & Reinforcement.

3/4" Expansion Anchor (self-drilling). Safe working load Tension = 7,500 lbs.

See Std. 420401-05 for Approach Pavement Details & Reinforcement.

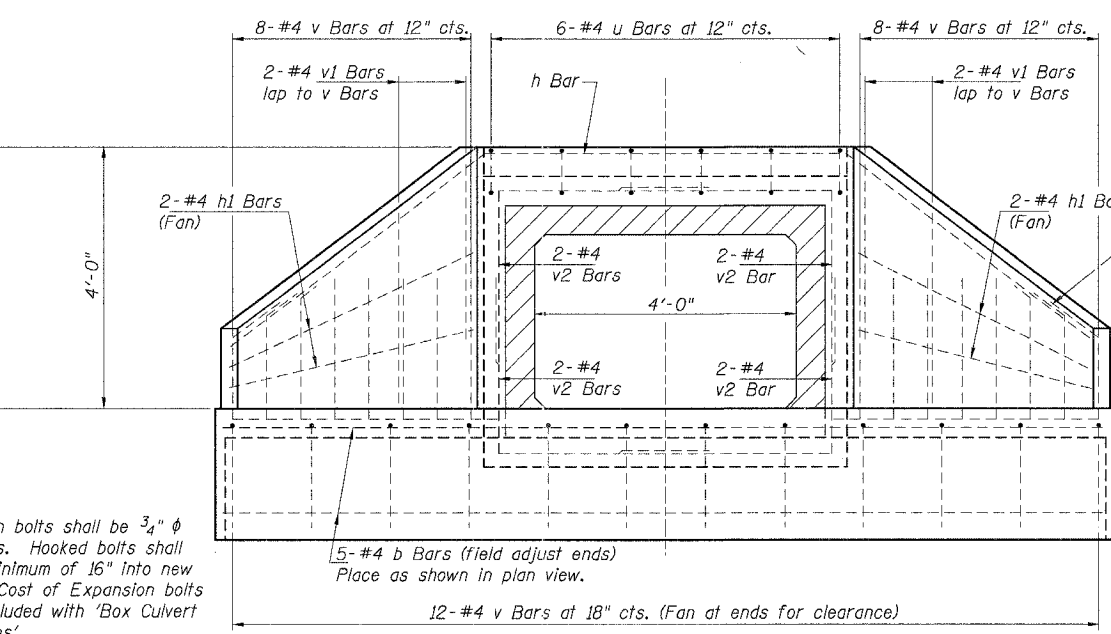
Construction Joint (Mandatory)

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	4L-3H8K	JEFFERSON	318	297
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 98963				

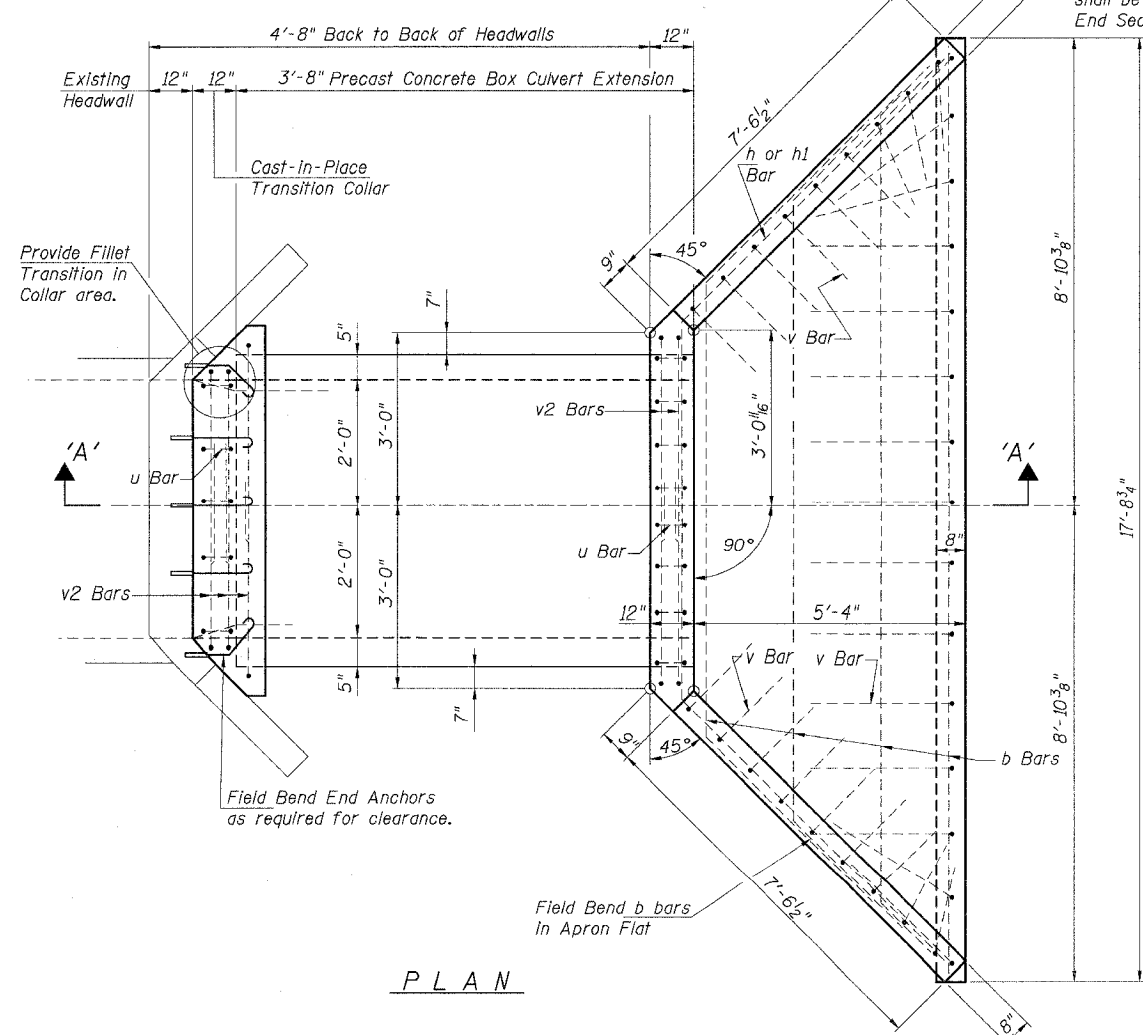


**SECTION 'A'-A'**  
(Along C of Culvert)

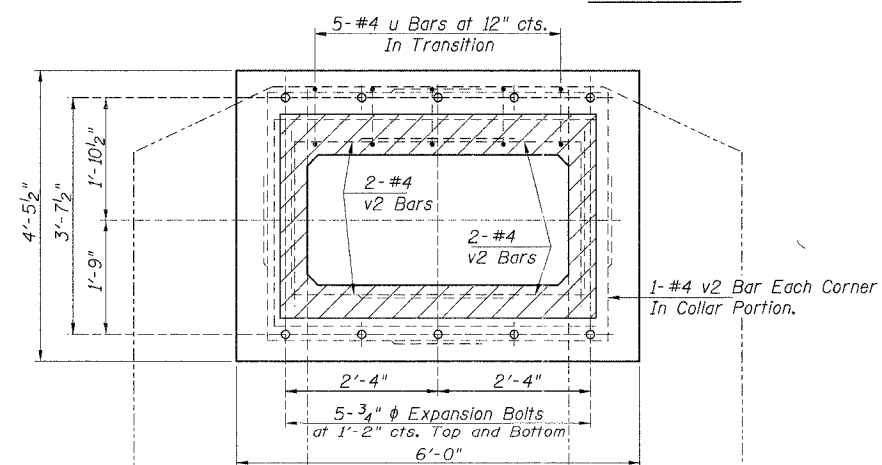
Note:  
Expansion bolts shall be 3/4"  $\phi$  hooked bolts. Hooked bolts shall extend a minimum of 16" into new concrete. Cost of Expansion bolts shall be included with 'Box Culvert End Sections'.



**END VIEW**



**PLAN**



**END ELEVATION VIEW**  
(At existing Culvert Showing Transition Collar)

**REINFORCEMENT TABLE**  
(One End Section)

Bar	No.	Size	Length	Shape
b	5	#4	17'-3"	—
h	1	#4	22'-4"	∩
h1	4	#4	7'-8"	—
u	11	#4	3'-5"	⊔
v	28	#4	5'-3"	—
v1	4	#4	3'-1"	—
v2	20	#4	6'-2"	—

**GENERAL NOTES**

Build tops of headwalls parallel to grade line.  
If embankment slope above headwall is flatter than 2:1, provide wings for 2:1 slope.

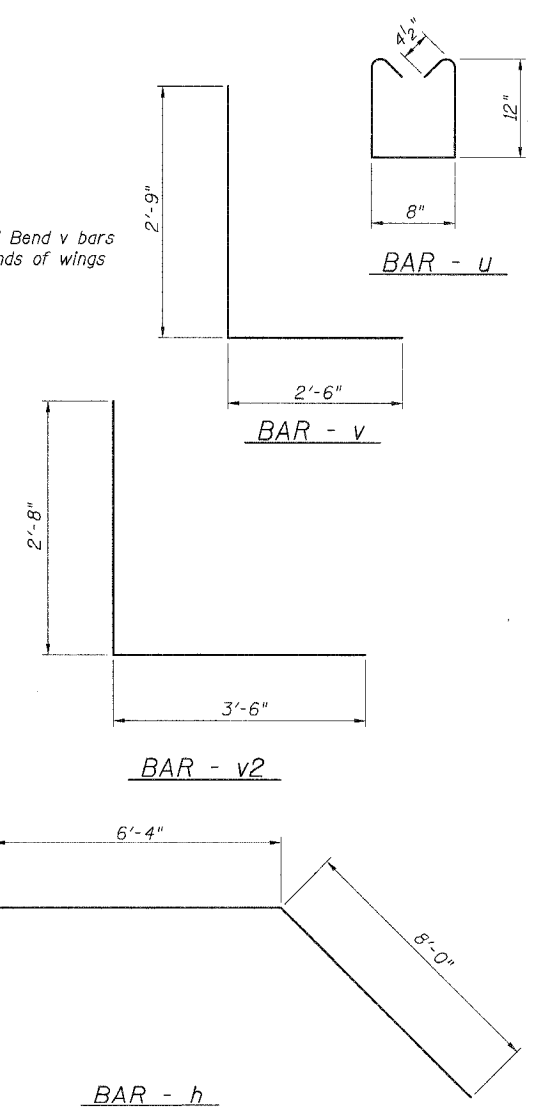
Reinforcing shapes shown, may be either shop or field formed.

The following quantities are for 1 (one) Concrete End Section with Transition Collar, and are for estimation purposes only. The end section shall be paid for at the unit price each for 'Box Culvert End Sections' of the size specified and shall include the cost of concrete and steel reinforcement.

Concrete for End section	= 4.6 Cu. Yds.
Reinforcement for End Section	= 250 Lbs.
Concrete for Transition Collar	= 0.8 Cu. Yds.
Reinforcement for Transition Collar	= 60 lbs.

The cost for Transition Collar quantities shall be included in the unit price for 'Box Culvert End Sections'

For construction requirements, See Section 540 of the Illinois Department of Transportation, Standard Specifications for Road and Bridge Construction.



**REINFORCED CONCRETE END SECTION FOR PRECAST BOX CULVERT**  
24" HIGH x 48" WIDE  
STATION 74+13.88

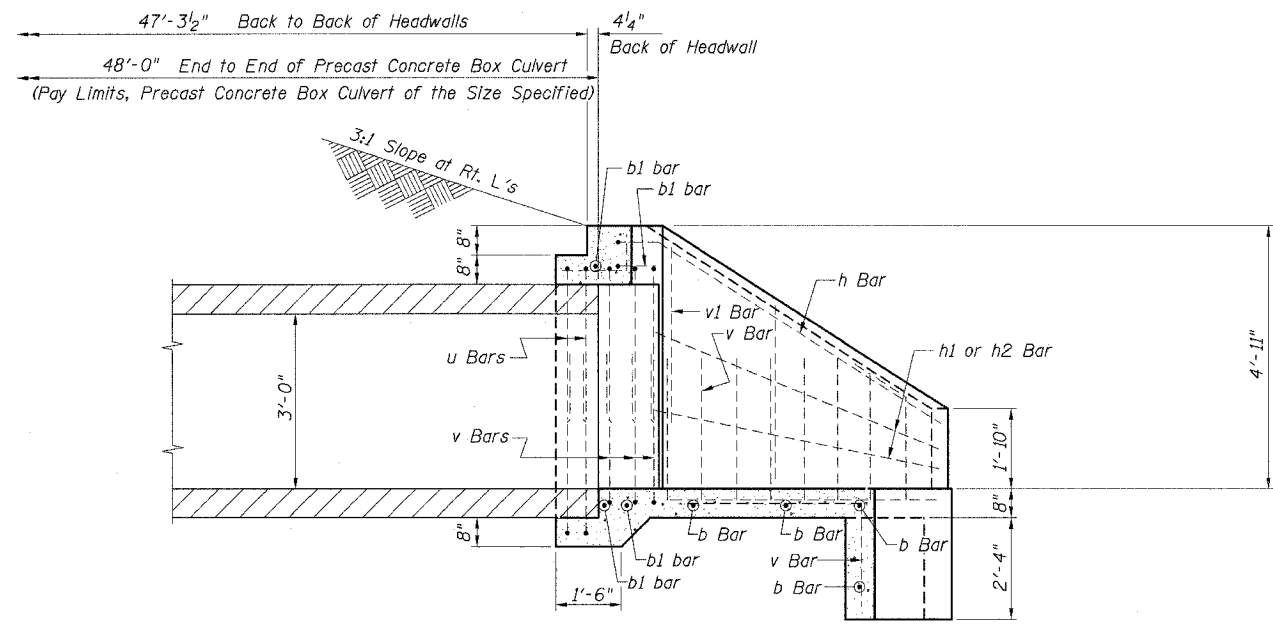
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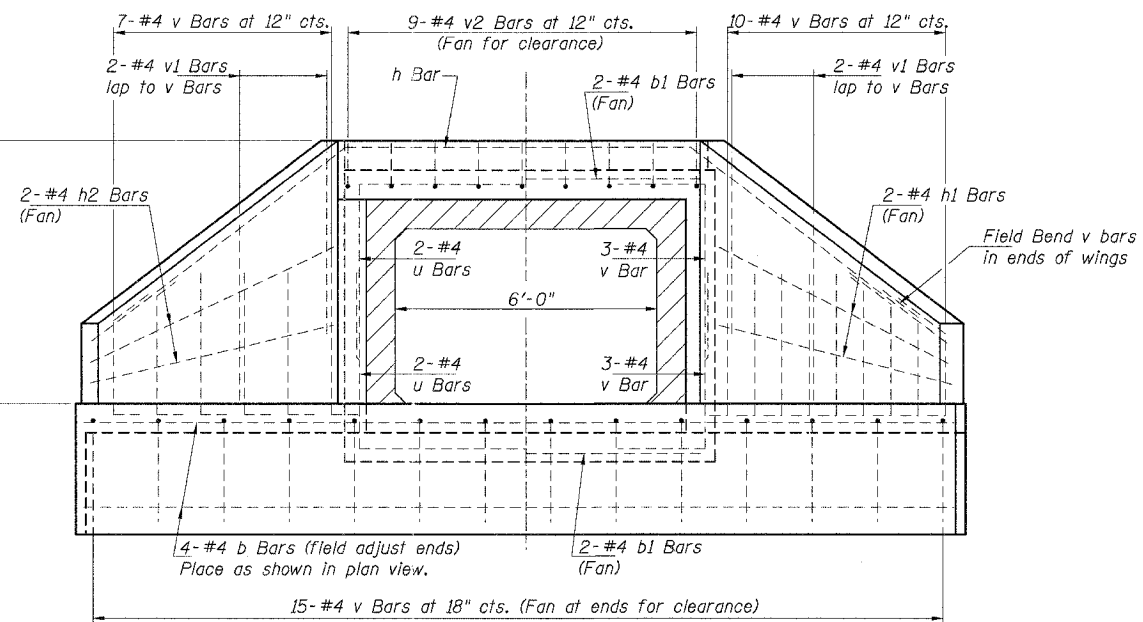
JOB NO.  
98S2019A  
DATE  
03-14-07

March 2007 Submittal  
 LAYOUT: MHW 03/27/07  
 DRAWN: DBS 03/27/07  
 REVIEWED: 7/7  
 3/21/2007  
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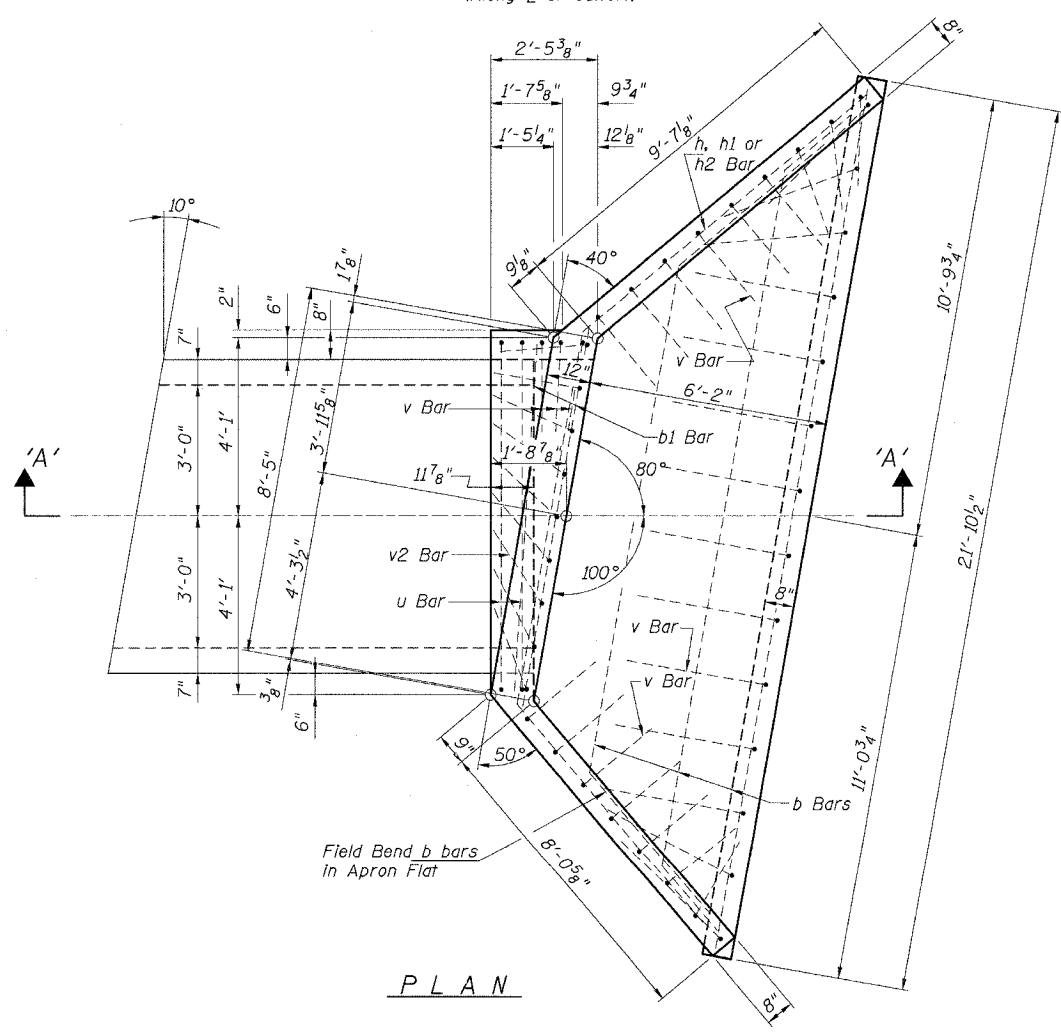
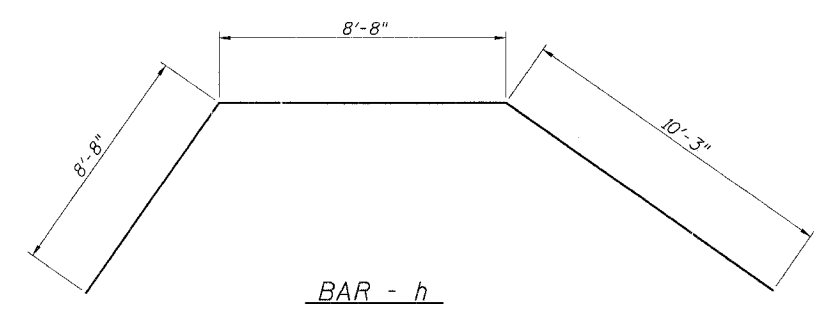
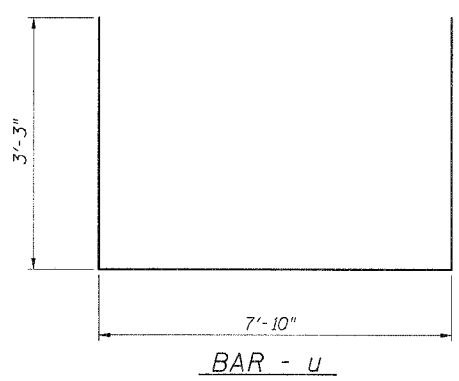
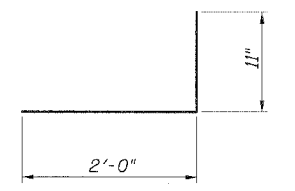
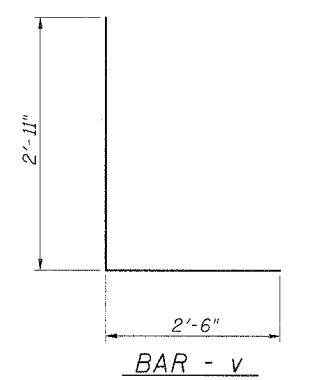
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	118	298
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 98963				



SECTION 'A'-'A'  
(Along C of Culvert)



END VIEW



PLAN

REINFORCEMENT TABLE  
(One End Section)

Bar	No.	Size	Length	Shape
b	4	#4	21'-4"	—
b1	4	#4	8'-5"	—
h	1	#4	27'-7"	∩
h1	2	#4	10'-0"	—
h2	2	#4	8'-9"	—
u	4	#4	14'-4"	□
v	38	#4	5'-5"	—
v1	4	#4	3'-9"	—
v2	9	#4	2'-11"	—

GENERAL NOTES

Build tops of headwalls parallel to grade line.  
 If embankment slope above headwall is flatter than 2:1, provide wings for 2:1 slope.  
 Reinforcing shapes shown, may be either shop or field formed.  
 The following quantities are for 1 (one) Concrete End Section and are for estimation purposes only. The end section shall be paid for at the unit price each for 'Box Culvert End Sections' of the size specified and shall include the cost of concrete and steel reinforcement.  
 Cubic Yards of Concrete = 6.8 Cu. Yds.  
 Pounds of Reinforcement Bars = 330 Lbs.

For construction requirements, See Section 540 of the Illinois Department of Transportation, Standard Specifications for Road and Bridge Construction.

REINFORCED CONCRETE END SECTION  
 FOR PRECAST BOX CULVERT  
 36" HIGH x 72" WIDE  
 AT 42nd STREET & ILLINOIS POWER ACCESS ROAD

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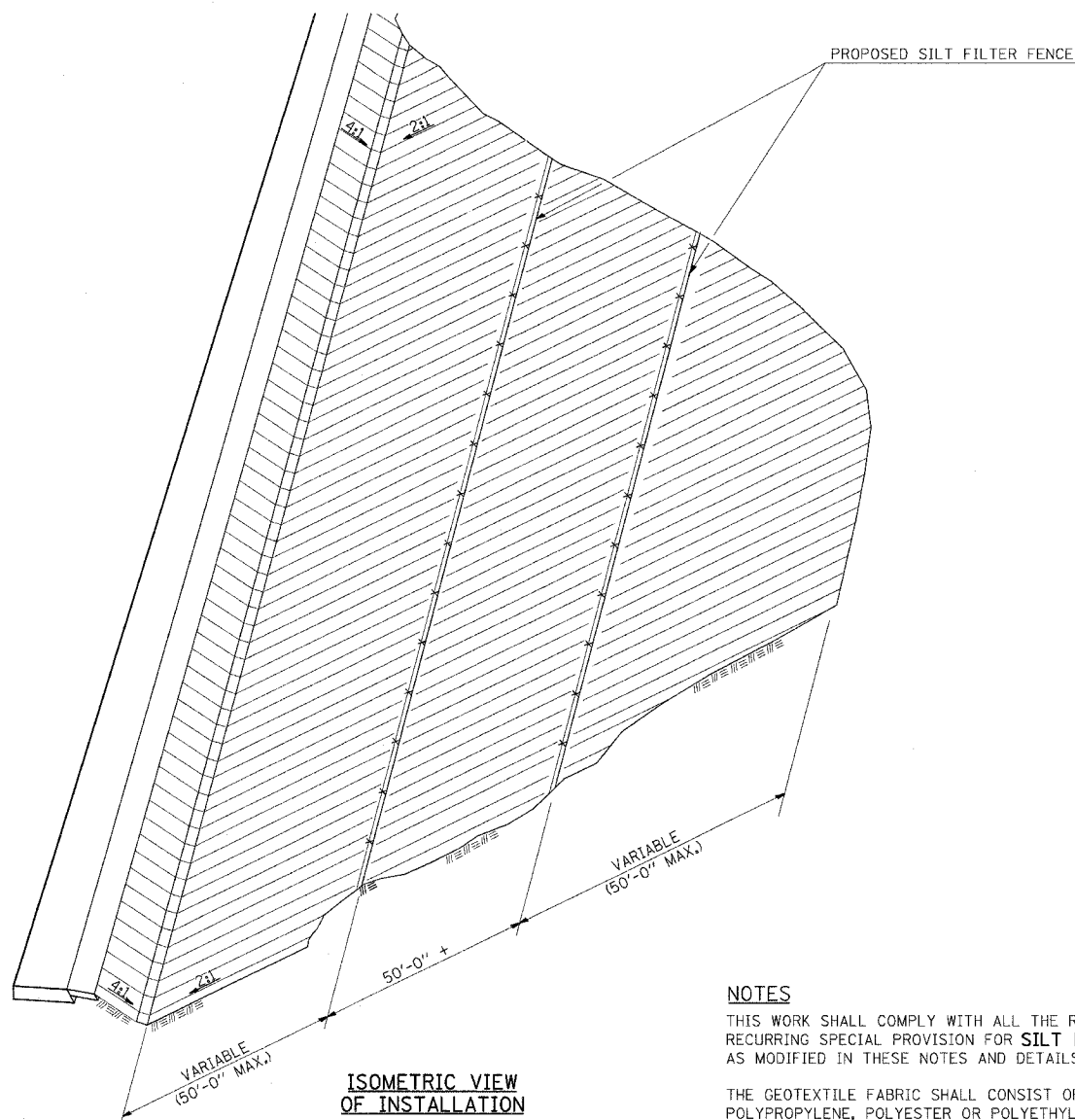
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98S2019A  
DATE  
03-14-07

3/21/2007  
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LAYOUT	05/20/04
DRW	05/20/04
REVIEWED	05/20/04

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	518	299
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

### DETAIL OF SILT FILTER FENCE



**NOTES**

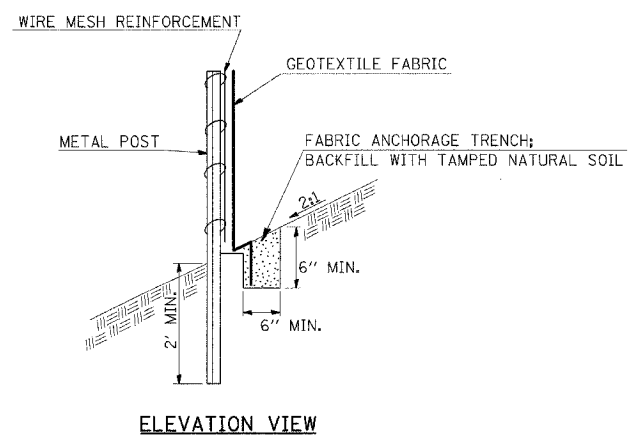
THIS WORK SHALL COMPLY WITH ALL THE REQUIREMENTS OF THE RECURRING SPECIAL PROVISION FOR **SILT FILTER FENCE**, EXCEPT AS MODIFIED IN THESE NOTES AND DETAILS.

THE GEOTEXTILE FABRIC SHALL CONSIST OF WOVEN FILAMENTS OF POLYPROPYLENE, POLYESTER OR POLYETHYLENE. NEEDLE PUNCHED, HEAT-BONDED OR RESIN BONDED FABRIC WILL NOT BE PERMITTED.

THE WIRE MESH REINFORCEMENT SHALL BE A MINIMUM OF 36" IN HEIGHT, HAVE A MINIMUM WIRE SIZE OF .14 GAGE AND A MAXIMUM WIRE SPACING OF SIX INCHES. WOVEN WIRE FENCING MAY BE USED PROVIDED IT MEETS THESE REQUIREMENTS.

THE WIRE MESH REINFORCEMENT SHALL BE ATTACHED TO THE STEEL POST WITH TIE WIRES. THE GEOTEXTILE FABRIC SHALL BE ATTACHED TO THE WIRE MESH REINFORCEMENT WITH HOG RINGS. THE STEEL POSTS SHALL BE A MINIMUM OF 6' LONG AND SHALL BE PLACED ON 10' CENTERS.

THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR **PERIMETER EROSION BARRIER AND FENCE**, AS MEASURED (**EROSION CONTROL**) IN PLACE. THE UNIT PRICE SHALL INCLUDE THE COST OF ALL MATERIAL, EQUIPMENT AND LABOR TO CONSTRUCT THE FENCE AS DESCRIBED.

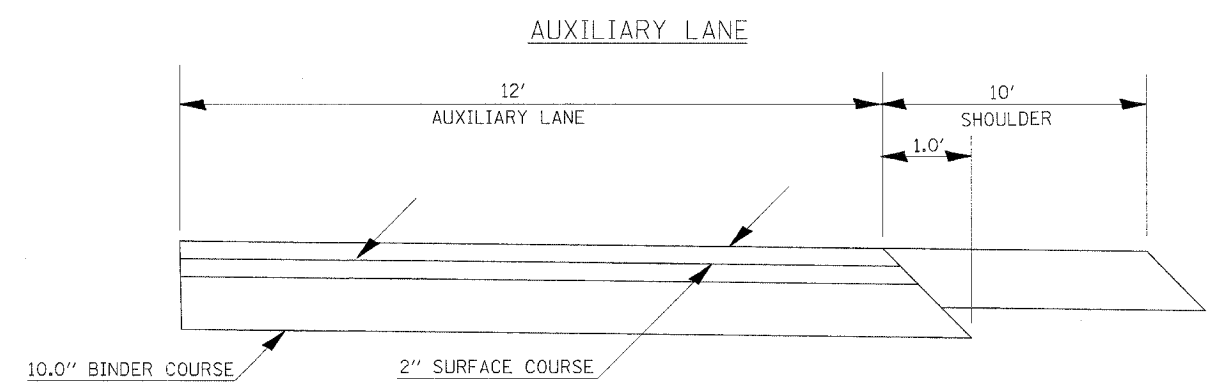
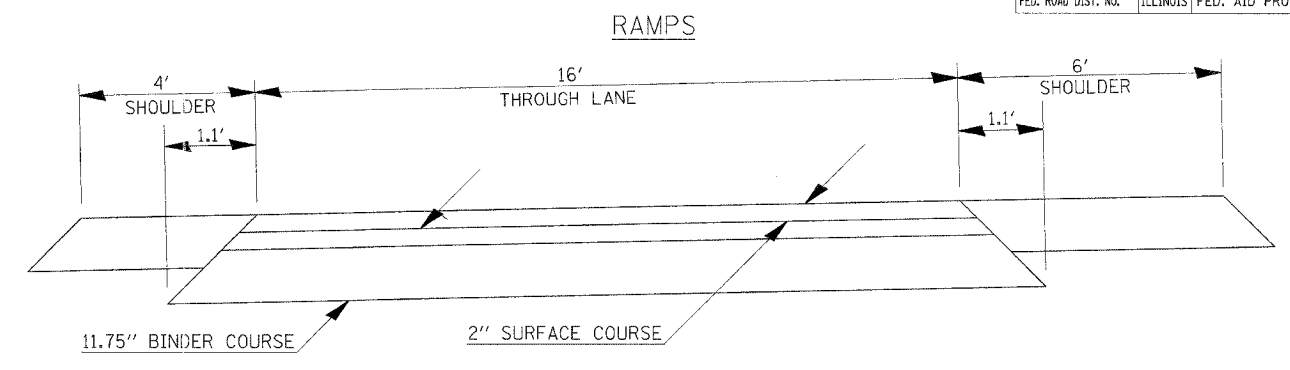


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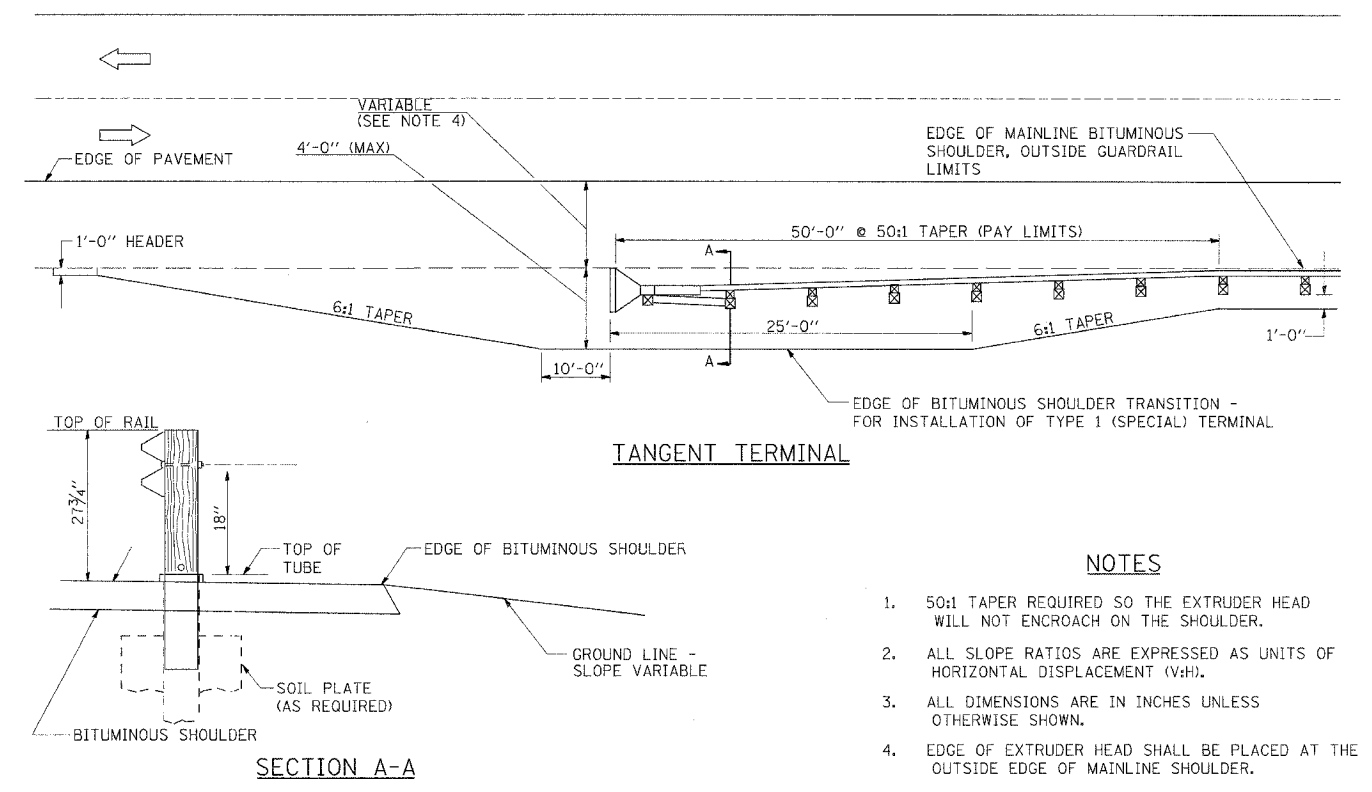
REVISIONS	DATE	BY	REASON
REDRAWN	2-15-89	REVISOR	
REVISED	8-18-94	REVISOR	
REVISED	10-3-94	REVISOR	
REVISED	12-17-01	REVISOR	

STD. 9-40

### EDGE OF BINDER COURSE



### DETAIL - BITUMINOUS SHOULDER AT GUARDRAIL TERMINAL

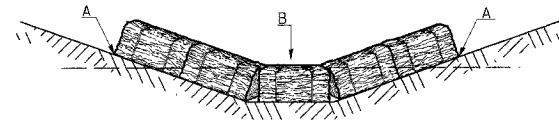


- NOTES**
- 50:1 TAPER REQUIRED SO THE EXTRUDER HEAD WILL NOT ENCRANCH ON THE SHOULDER.
  - ALL SLOPE RATIOS ARE EXPRESSED AS UNITS OF HORIZONTAL DISPLACEMENT (V:H).
  - ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SHOWN.
  - EDGE OF EXTRUDER HEAD SHALL BE PLACED AT THE OUTSIDE EDGE OF MAINLINE SHOULDER.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	318	300
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

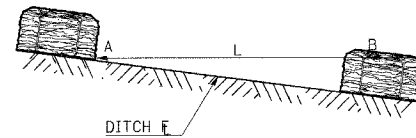
### TEMPORARY DITCH CHECKS

#### PLACEMENT OF TEMPORARY STRAW BALE DITCH CHECK IN DRAINAGEWAY



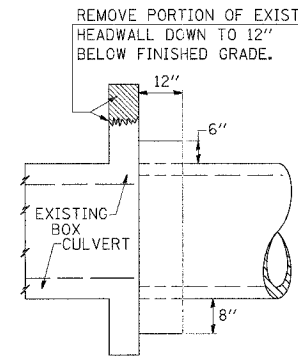
POINTS A SHOULD BE HIGHER THAN POINT B

#### SPACING BETWEEN TEMPORARY DITCH CHECKS

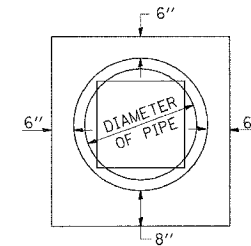


L = THE DISTANCE SUCH THAT POINTS A AND B ARE OF EQUAL ELEVATION  
 B = THE LOW POINT IN CENTER OF CHECK

### DETAILS OF CONCRETE COLLAR



SIDE VIEW



END VIEW

#### TABULATION

DIAMETER OF PIPE	CL CU	SI CONC YDS EST
12"		0.16
15"		0.19
18"		0.21
24"		0.29
30"		0.37
36"		0.44
42"		0.53
48"		0.62
54"		0.71
60"		0.81
72"		1.03

THE CONCRETE COLLAR SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARD FOR **CONCRETE COLLAR**, AS SHOWN ON THE PLANS, WHICH PRICE SHALL INCLUDE THE REMOVAL OF SUCH PORTIONS OF THE EXISTING HEADWALLS AS MAY BE REQUIRED.

CLASS SI CONCRETE SHALL BE USED THROUGHOUT.

REVISIONS

DRAWN	9-01-99
REVISED	10-3-01
REVISED	
REVISED	

STD. 9-108

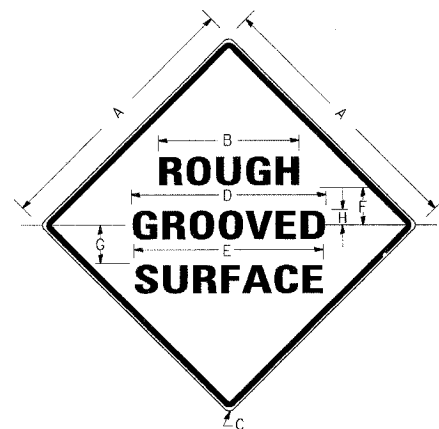
REVISIONS

REDRAWN	2-15-89
REVISED	8-19-94
REVISED	
REVISED	

STD. 9-19

### ILLINOIS STANDARD

W8-I106



#### COLORS:

LEGEND AND BORDER- BLACK NON-REFLECTORIZED  
 BACKGROUND- ORANGE REFLECTORIZED

SIGN SIZE	DIMENSIONS							
	A	B	C	D	E	F	G	H
48X48	48.0	24.1	3.0	34.0	33.0	6.0	13.0	3.5

SIGN SIZE	SERIES LINES			MARGIN	BORDER	BLANK STD.
	1	2	3			
48X48	7C	7C	7C	0.8	1.2	B4-48D

ALL DIMENSIONS IN INCHES

#### NOTES:

PRIOR TO ALLOWING TRAFFIC ON ANY PORTION OF THE ROADWAY THAT HAS BEEN COLDMILLED, THE CONTRACTOR SHALL HAVE ERECTED "ROUGH GROOVED SURFACE" SIGNS THAT CONFORM TO THE ABOVE DETAILS. A MINIMUM OF ONE SIGN AT EACH END OF THE IMPROVEMENT WILL BE REQUIRED. THE CONTRACTOR SHALL MAINTAIN THE "ROUGH GROOVED SURFACE" SIGNS UNTIL THE COLDMILLED SURFACE IS COVERED WITH LEVELING BINDER OR SURFACE COURSE.

IF AT ANY TIME THE SIGNS ARE IN PLACE BUT NOT APPLICABLE, THEY SHALL BE TURNED FROM THE VIEW OF MOTORISTS OR COVERED AS DIRECTED BY THE ENGINEER.

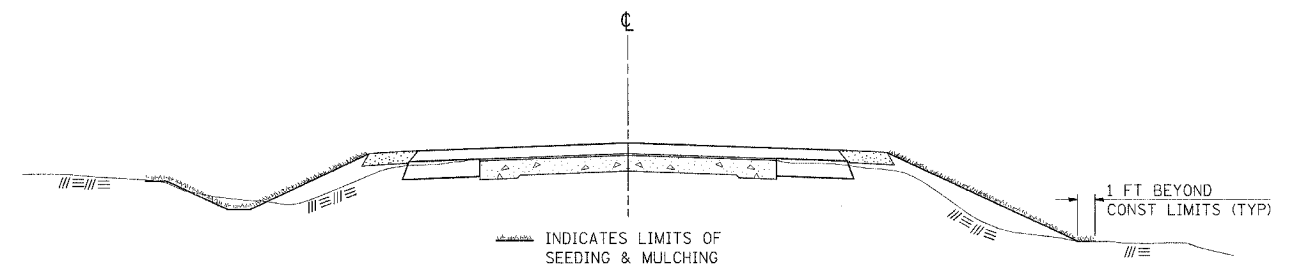
THE COST OF FURNISHING, ERECTING, MAINTAINING, AND REMOVING THE REQUIRED SIGNS SHALL BE INCLUDED IN THE CONTRACT.

REVISIONS

REDRAWN	2-15-89
REVISED	4-6-98
REVISED	
REVISED	

STD. 9-39

### SEEDING & MULCHING



#### GENERAL NOTES

IN GENERAL, ALL EARTH SURFACES DISTURBED DURING CONSTRUCTION OPERATIONS SHALL BE SEEDING AND MULCHED UPON COMPLETION OF ALL GRADING OPERATIONS.

FERTILIZER NUTRIENTS AND LIMESTONE SHALL BE APPLIED TO ALL SEEDING AREAS.

THE RATES OF APPLICATION OF FERTILIZER, MULCH AND LIMESTONE SHALL BE AS SPECIFIED IN THE SPECIAL PROVISIONS.

SECTIONS 250 AND 251 OF THE STANDARD SPECIFICATIONS SHALL GOVERN THIS WORK EXCEPT AS SPECIFIED HEREIN OR AS NOTED IN THE SPECIAL PROVISIONS.

REVISIONS

REDRAWN	2-15-89
REVISED	8-15-94
REVISED	6-3-99
REVISED	

STD. 9-12

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