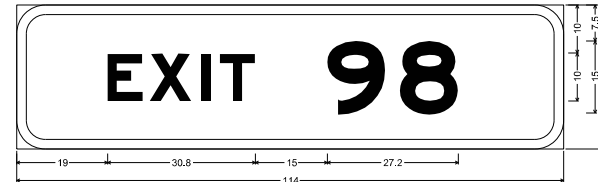
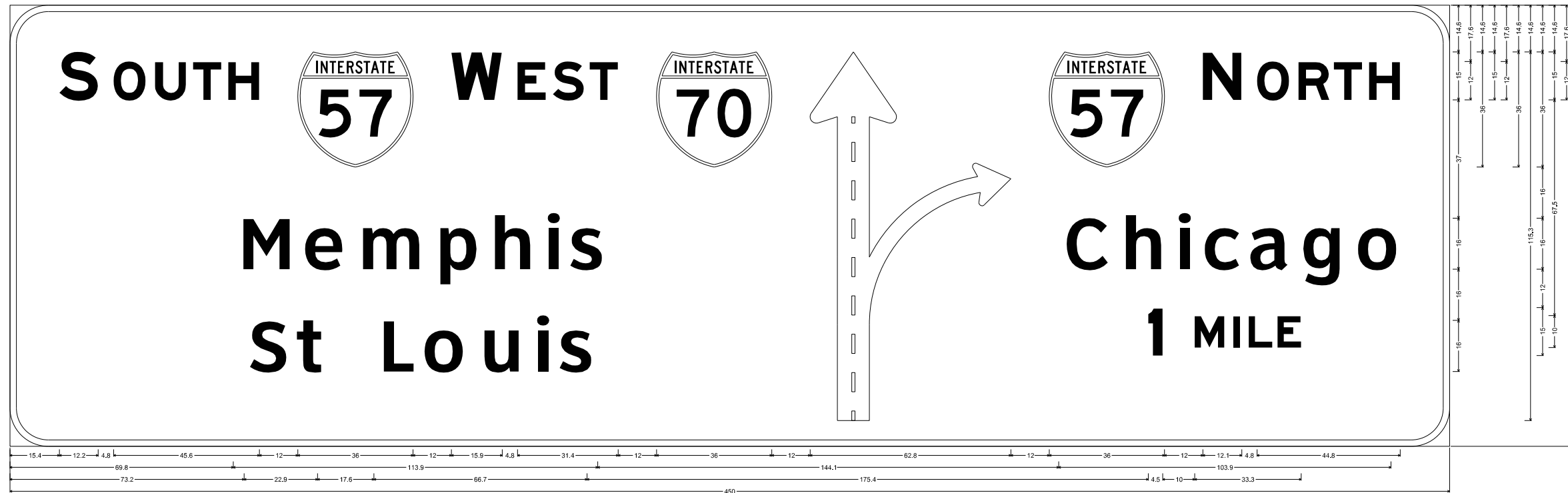


EXISTING SIGN TRUSS #10485
 STA 2434+00 FAI ROUTE 70



6.0" Radius, 2.0" Border, White on Green;
 [EXIT 98] E Mod 2K;
 Table of widths and spaces:

E	X	I	T	9	8							
19.0	7.4	1.4	8.7	2.1	2.0	1.8	7.4	14.9	12.2	3.0	12.1	22.0



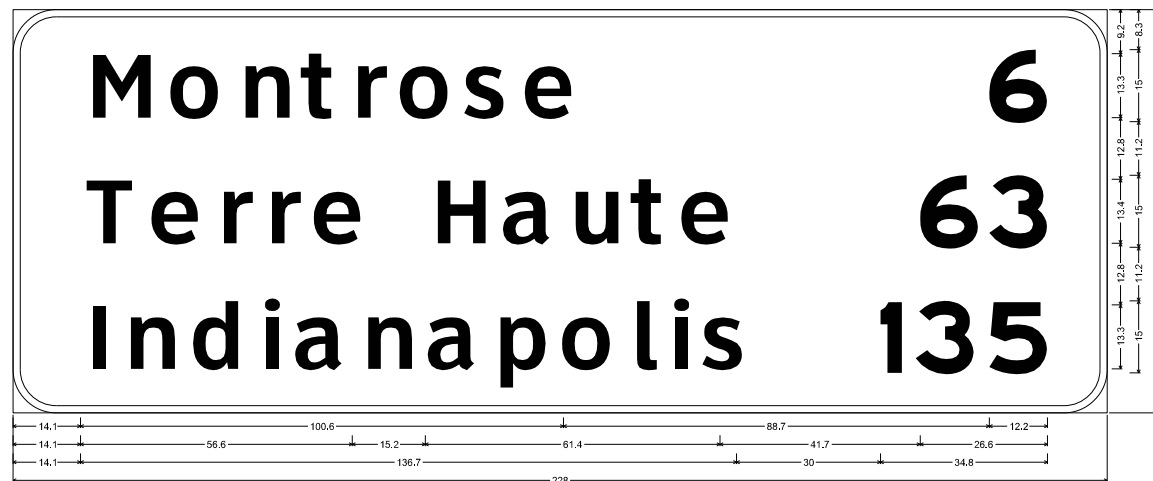
12.0" Radius, 2.0" Border, White on Green;
 [SOUTH] E Mod 2K; [WEST] E Mod 2K; [Memphis] ClearviewHwy-5-W; [St Louis] ClearviewHwy-5-W; Diagrammatic Arrow line Black; [NORTH] E Mod 2K; [Chicago] ClearviewHwy-5-W; [1 MILE] E Mod 2K;
 Table of widths and spaces:

S	O	U	T	H	W	E	S	T	I	N	O	R	T	H																						
15.4	12.2	4.8	10.0	2.9	8.7	2.2	8.9	2.1	9.8	12.0	38.0	12.0	15.9	4.8	8.8	2.2	9.7	1.8	8.9	12.0	38.0	12.0	62.8	12.0	38.0	12.0	12.1	4.8	10.1	2.9	8.7	1.3	8.9	2.2	9.7	15.4
M	e	m	p	h	i	s	C	h	i	C	a	g	o																							
69.8	14.7	5.6	11.8	5.3	18.3	5.9	11.6	5.5	11.2	5.6	3.8	4.3	10.3	144.1	13.1	4.8	11.2	5.6	3.8	5.0	10.9	3.6	12.0	4.3	11.8	5.3	12.5	18.3								
S	t	L	o	u	i	s	I	M	I	L	E																									
73.2	11.6	3.4	7.9	17.6	9.4	4.3	12.5	5.3	11.0	5.7	3.8	4.4	10.3	175.4	4.5	10.0	5.3	2.8	2.0	2.8	7.4	1.6	7.4	46.4												

NOT TO SCALE

FILE NAME =	USER NAME = \$USER\$	DESIGNED - ESW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SIGN PANEL DETAILS, FAI ROUTE 57/70			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S:\Projects\403-00072.57-70\dgn\W Trl\l\sign panel details.dgn		DRAWN - LEC	REVISED -		57/70	(25-4)R	EFFINGHAM	1760	401	CONTRACT NO. 74295		
PLOT SCALE = \$SCALE\$		CHECKED - BRM	REVISED -		SCALE: 1"=50'	SHEET NO. 19 OF 58 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			
PLOT DATE = \$DATE\$		DATE - 8-05-09	REVISED -									

SN011
SIGN ON EXISTING POSTS (2 I-BEAMS) #10451
STA 2434+00 FAI ROUTE 70



9.0" Radius, 1.5" Border, White on Green;
[Montrose] ClearviewHwy-5-W; [6] E Mod 2K [] ClearviewHwy-5-W; [Terre Haute] ClearviewHwy-5-W; [63] E Mod 2K [] ClearviewHwy-5-W; [Indianapolis] ClearviewHwy-5-W; [135] E Mod 2K [] ClearviewHwy-5-W;

Table of widths and spaces.

H	14.1	12.2	4.6	10.4	4.5	8.4	3.5	6.7	3.9	6.2	3.3	10.4	3.3	8.6	3.7	8.9	88.7	12.2	12.4												
T	14.1	9.7	3.2	9.9	4.4	6.3	3.7	6.3	3.2	9.9	15.2	10.3	4.3	10.0	4.1	9.2	3.6	6.7	3.3	9.9	41.7	6	3	12.2	12.4						
I	14.1	2.7	5.2	9.3	4.4	9.7	4.7	3.2	3.9	10.0	4.2	9.3	4.2	9.9	4.1	9.8	3.9	10.4	4.4	4.3	3.7	3.2	3.6	8.6	30.0	4.5	2.8	12.2	3.1	12.2	12.4

SN013
EXISTING POSTS (2 I-BEAMS) #10112
STA 5486+30 FAI ROUTE 57

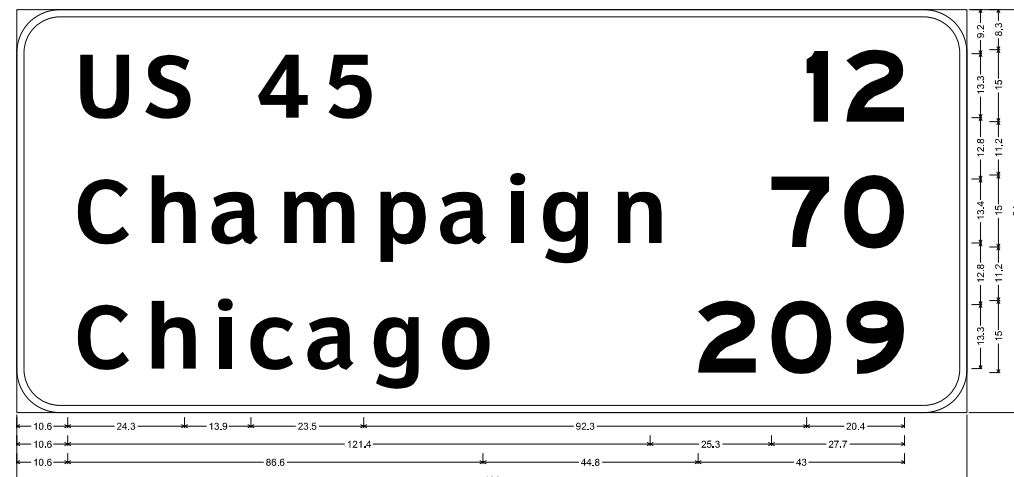


12.0" Radius, 2.0" Border, White on Green;
[EXIT 163] E Mod 2K; [Indianapolis] ClearviewHwy-5-W; [St Louis] ClearviewHwy-5-W; [2 MILES] E Mod 2K;

Table of widths and spaces.

E	76.8	7.4	1.4	8.7	2.1	2.0	1.8	7.4	15.0	4.6	3.6	12.1	2.3	12.1	76.8										
X	2.0	230.0	2.0																						
T	93.0	48.0	93.0																						
I	14.5	4.0	7.8	14.0	6.6	14.6	7.1	4.7	5.9	14.9	6.3	14.1	6.2	14.9	6.2	14.6	5.9	15.5	6.7	6.5	5.5	4.7	5.5	12.8	14.5
S	50.0	14.6	4.2	9.3	22.0	11.0	5.3	15.0	6.7	13.7	7.2	4.7	5.4	12.9	50.0										
Z	79.9	12.2	18.8	9.3	2.8	2.0	2.8	7.4	1.6	7.4	1.8	8.1	79.9												

SN012
SIGN ON EXISTING POSTS (2 I-BEAMS) #10095
STA 5433+00 FAI ROUTE 57



9.0" Radius, 1.5" Border, White on Green;
[US 45] ClearviewHwy-5-W; [12] E Mod 2K [] ClearviewHwy-5-W; [Champaign] ClearviewHwy-5-W; [70] E Mod 2K [] ClearviewHwy-5-W; [Chicago] ClearviewHwy-5-W;

Table of widths and spaces.

U	10.6	10.4	4.2	8.7	13.9	10.5	3.7	9.3	92.3	4.5	3.8	12.1	13.0										
C	10.6	10.9	4.0	9.4	4.1	10.0	4.1	15.2	4.9	9.7	3.7	10.0	3.9	3.1	4.2	9.8	5.0	9.4	25.3	12.1	3.0	12.6	13.0
C	10.6	10.9	4.0	9.4	4.0	3.2	4.1	9.2	3.0	9.9	3.6	9.8	4.5	10.4	44.8	12.1	3.2	12.6	3.0	12.1	13.0		

NOT TO SCALE

FILE NAME =	USER NAME = \$USER\$	DESIGNED - ESW	REVISED -
Sn\Projects\403-00072-57-70\dgn\W Tr\IL\va\sign panel details.dgn		DRAWN - LEC	REVISED -
PLOT SCALE = \$SCALE\$		CHECKED - BRM	REVISED -
PLOT DATE = \$DATE\$		DATE - 8-05-09	REVISED -

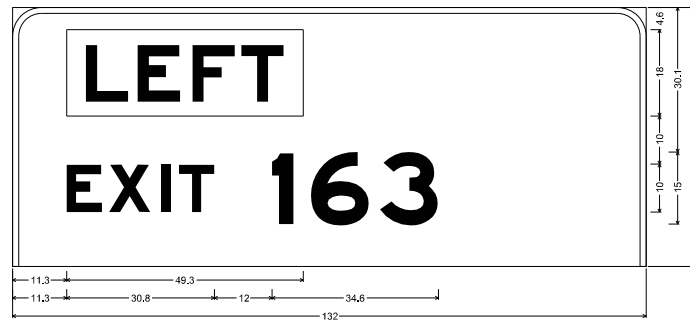
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGN PANEL DETAILS, FAI ROUTE 57/70

SCALE: 1"=50' SHEET NO. 20 OF 58 SHEETS STA. TO STA.

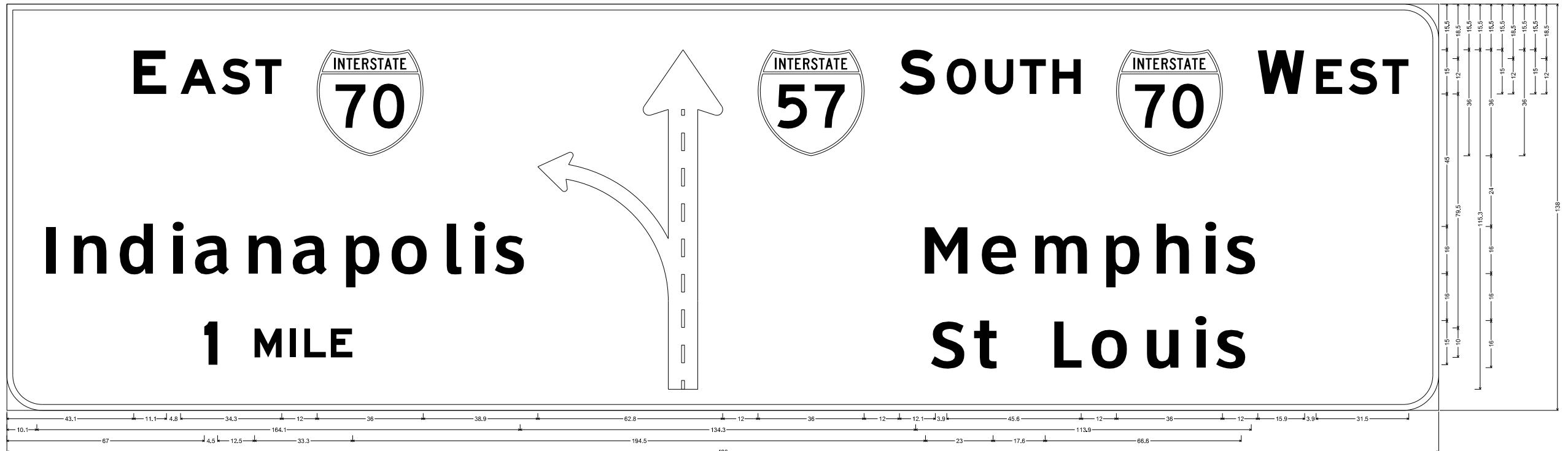
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-4R)	EFFINGHAM	1760	402
CONTRACT NO. 74295				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

EXISTING SIGN TRUSS #10114
 STA 5434+00 FAI ROUTE 57



6.0" Radius, 1.3" Border, White on Green;
 Rectangle Yellow;
 [EXIT 163] E Mod 2K;
 Table of widths and spaces.

11.3	49.3	71.4
E	X	163
11.3	7.4	1.4
2.1	2.0	1.8
7.4	12.0	4.5
3.6	6	3
12.1	43.3	



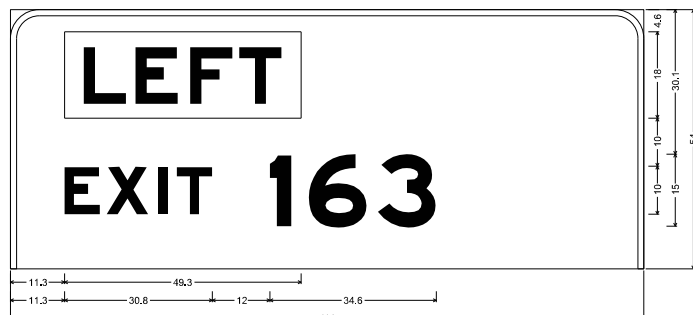
12.0" Radius, 2.0" Border, White on Green;
 [EAST] E Mod 2K; [Indianapolis] ClearviewHwy-S-W; [1 MILE] E Mod 2K; Diagrammatic Arrow lane lines Black; [SOUTH] E Mod 2K; [West] E Mod 2K; [Memphis] ClearviewHwy-S-W; [St Louis] ClearviewHwy-S-W;
 Table of widths and spaces.

E	A	S	T	70	I	N	D	I	A	N	A	P	O	L	I	S	1	M	I	L	E	S	57	M	E	M	P	H	I	S	W	E	S	T	70						
43.1	11.1	4.8	12.1	1.8	9.7	1.8	8.9	12.0	36.0	38.9	62.8	12.0	36.0	12.0	12.1	3.9	10.1	2.9	9.7	2.2	8.8	2.2	9.7	12.0	36.0	12.0	15.9	3.9	8.9	2.2	9.7	1.8	8.9	10.1							
10.1	3.3	6.2	11.2	5.3	11.6	5.7	3.8	4.7	12.0	5.0	11.2	5.0	11.9	5.0	11.7	4.7	12.4	5.4	5.1	4.5	3.8	4.3	10.3	13.3	14.7	5.5	11.9	5.3	18.3	5.8	11.7	5.4	11.2	5.6	3.8	4.4	10.3	63.6			
67.0	4.5	12.5	9.3	2.8	2.0	2.8	7.4	1.6	7.4	194.5	11.7	3.3	8.0	17.6	9.4	4.3	12.4	5.4	11.0	5.7	3.8	4.3	10.3	67.0																	

NOT TO SCALE

FILE NAME =	USER NAME = \$USER\$	DESIGNED - ESW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SIGN PANEL DETAILS, FAI ROUTE 57/70			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S:\Projects\403-00072-57-70\dgn\W Tr\lv\sign panel details.dgn		DRAWN - LEC	REVISED -		57/70	(25-4)R	EFFINGHAM	1760	403	CONTRACT NO. 74295		
PLOT SCALE = \$SCALE\$		CHECKED - BRM	REVISED -		SCALE: 1"=50'	SHEET NO. 21 OF 58 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			
PLOT DATE = \$DATE\$		DATE - 8-05-09	REVISED -									

EXISTING SIGN TRUSS #10115
STA 5407+00 FAI ROUTE 57

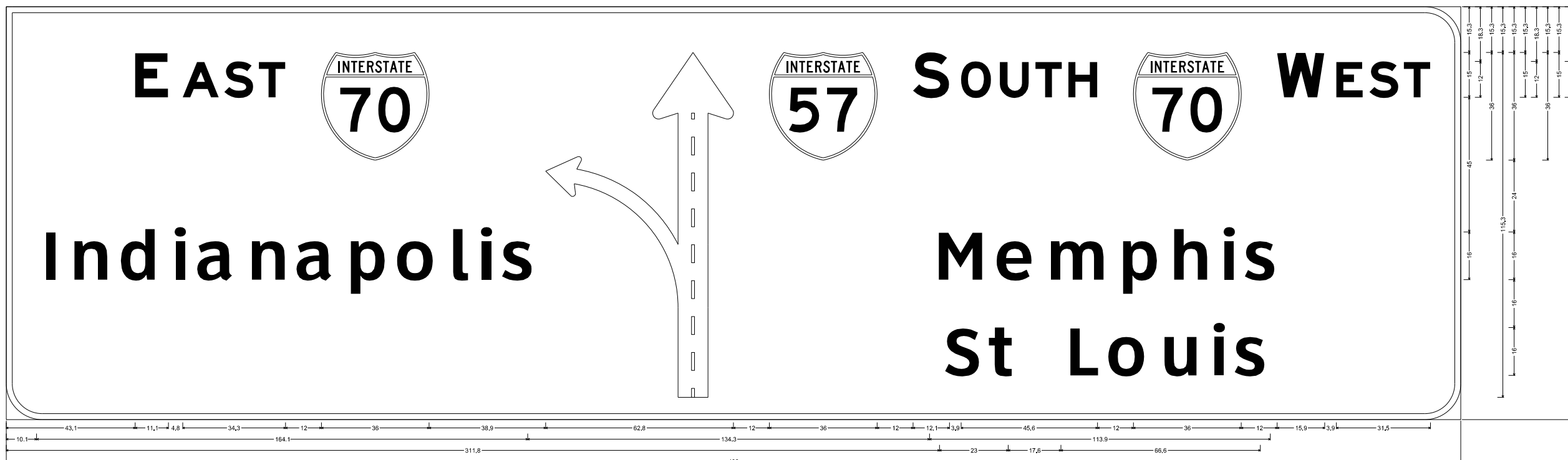


6.0" Radius, 1.3" Border, White on Green;

Rectangle Yellow;
[EXIT 163] E Mod 2K;

Table of widths and spaces:

E	X	I	T	1	6	3
11.3	7.4	1.4	6.7	2.1	2.0	1.8
7.4	1.4	6.7	2.1	2.0	1.8	7.4
12.0	4.5	3.6	12.1	2.3	12.1	43.3



12.0" Radius, 2.0" Border, White on Green;

[E AST] E Mod 2K; [Indianapolis] ClearViewHwy-5W; [Diagrammatic Arrow line lines Black; [SOUTH] E Mod 2K; [W EST] E Mod 2K; [Memphis] ClearViewHwy-5W; [St Louis] ClearViewHwy-5W;

Table of widths and spaces:

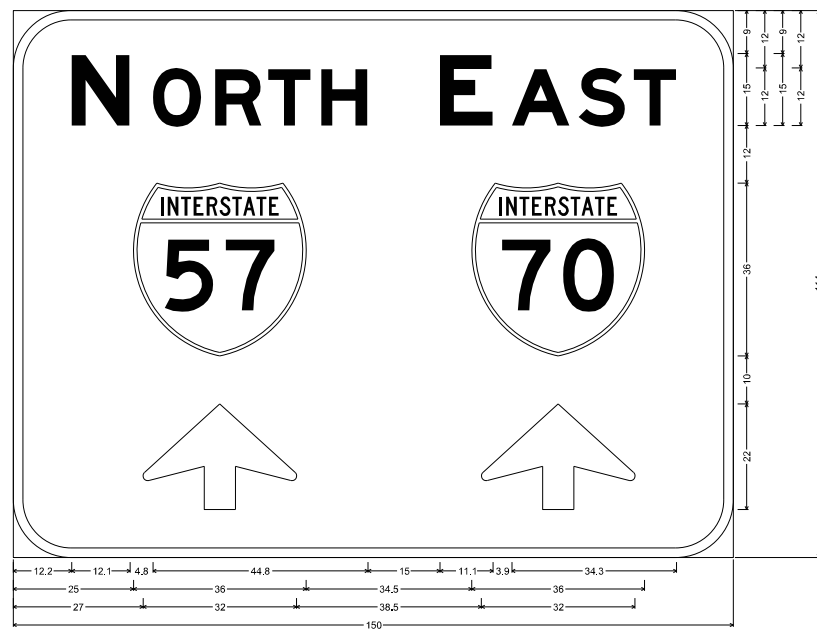
E	A	S	T	I	N	A	P	O	L	I	S	S	O	U	T	H	M	E	M	P	H	S	T	L	O	U	I	S										
43.1	11.1	4.8	12.1	1.8	3.7	1.8	5.9	12.0	38.9	62.8	12.0	39.0	12.0	12.1	3.9	10.1	2.9	3.7	2.2	8.8	2.2	3.7	12.0	38.0	12.0	15.9	3.9	8.9	2.2	3.7	1.8	5.9	10.1					
10.1	3.3	6.2	11.2	5.3	11.6	5.7	3.8	4.7	12.0	5.0	11.2	5.0	11.9	5.0	11.7	4.7	12.4	5.4	5.1	4.5	3.8	4.3	10.3	134.3	14.7	5.5	11.9	5.3	18.3	5.8	11.7	5.4	11.2	5.6	3.8	4.4	10.3	83.6
311.8	11.7	3.3	8.0	17.6	9.4	4.3	12.4	5.4	11.0	5.7	3.8	4.3	10.3	67.0																								

NOT TO SCALE

FILE NAME =	USER NAME = \$USER\$	DESIGNED - ESW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SIGN PANEL DETAILS, FAI ROUTE 57/70			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S:\Projects\403-00072-57-70\dgn\W Tr\lv\sign panel details.dgn		DRAWN - LEC	REVISED -					57/70	(25-4R)	EFFINGHAM	1760	404
PLOT SCALE = \$SCALE\$		CHECKED - BRM	REVISED -		SCALE: 1"=50'	SHEET NO. 22 OF 58 SHEETS	STA.	TO STA.	CONTRACT NO. 74295			
PLOT DATE = \$DATE\$		DATE - 8-05-09	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							

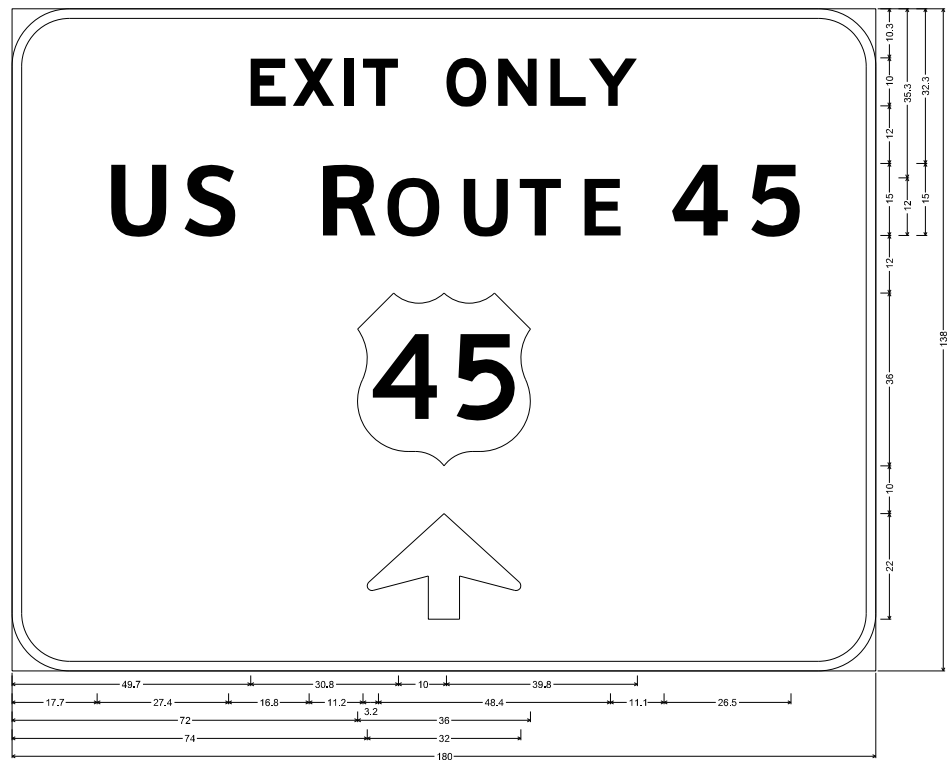
MAINTENANCE OF TRAFFIC SIGN PANEL - PRE-STAGE 2 (TEMP)
STA 2238+00 FAI ROUTE 57/70

MAINTENANCE OF TRAFFIC SIGN PANEL - PRE-STAGE 2 (TEMP)
STA 2258+00 FAI ROUTE 57/70



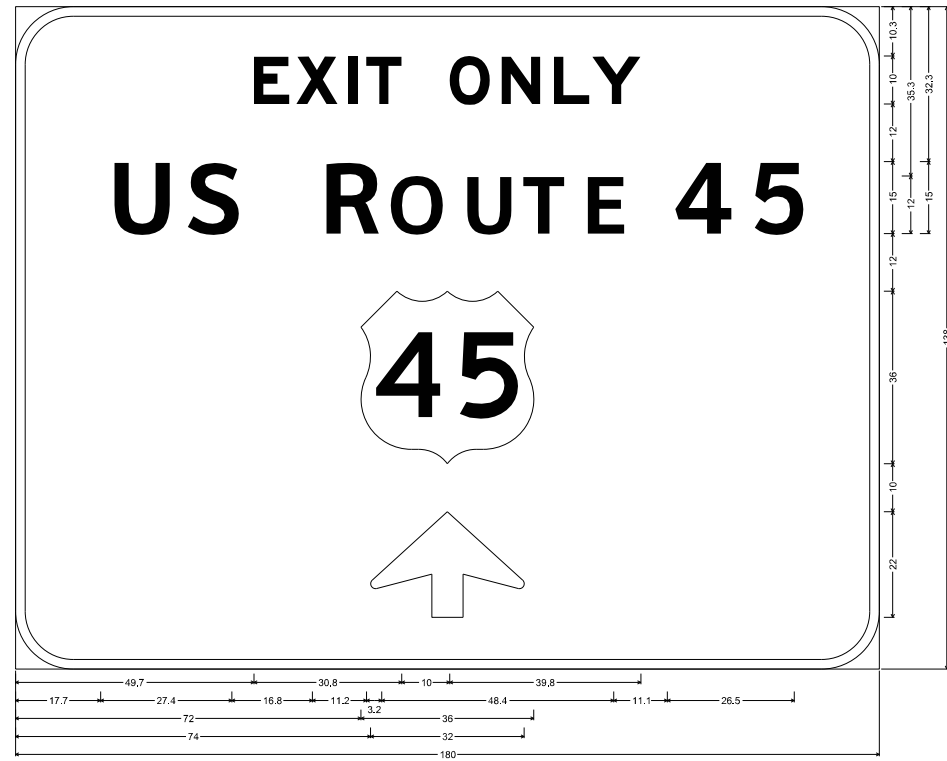
12.0" Radius, 2.0" Border, White on Orange;
[N ORTH] E Mod 2K; [E AST] E Mod 2K; Down Arrow 22.0" 90"; Down Arrow 22.0" 90";
Table of widths and spaces.

N	O	R	T	H	E	A	S	T
12.2	12.1	4.8	10.1	2.9	9.7	1.3	8.9	2.2
15.0	11.1	3.9	12.1	1.8	9.7	1.8	8.9	11.8
25.0	36.0	34.5	36.0	18.5				
27.0	32.0	38.5	32.0	20.5				



12.0" Radius, 2.0" Border, White on Orange;
[EXIT ONLY] E Mod 2K; [US R OUTE 45] ClearViewHwy-5-W; Down Arrow 22.0" 90";
Table of widths and spaces.

E	X	I	T	O	N	L	Y
49.7	7.4	1.4	8.7	2.1	2.0	1.8	7.4
10.0	8.4	2.4	8.1	2.8	7.4	0.6	10.1
49.7							
U	S	R	O	U	T	E	4
17.7	11.7	4.8	10.9	16.8	11.2	3.2	11.2
4.3	3.6	8.7	3.5	7.8	11.1	11.9	4.2
10.4	17.7						
72.0	36.0	72.0					
74.0	32.0	74.0					



12.0" Radius, 2.0" Border, White on Orange;
[EXIT ONLY] E Mod 2K; [US R OUTE 45] ClearViewHwy-5-W; Down Arrow 22.0" 90";
Table of widths and spaces.

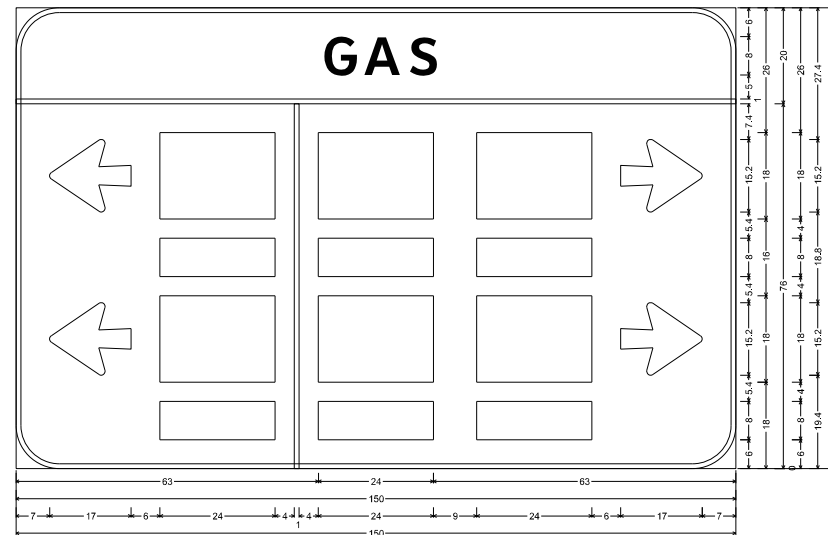
E	X	I	T	O	N	L	Y
49.7	7.4	1.4	8.7	2.1	2.0	1.8	7.4
10.0	8.4	2.4	8.1	2.8	7.4	0.6	10.1
49.7							
U	S	R	O	U	T	E	4
17.7	11.7	4.8	10.9	16.8	11.2	3.2	11.2
4.3	3.6	8.7	3.5	7.8	11.1	11.9	4.2
10.4	17.7						
72.0	36.0	72.0					
74.0	32.0	74.0					

NOT TO SCALE

• SIGNS ON THIS SHEET TO BE USED FOR MAINTAINENCE OF TRAFFIC

FILE NAME = S:\Projects\403-00072.57-70\dgn\W Tr\lv\sign panel details.dgn	USER NAME = \$USER\$	DESIGNED - ESW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SIGN PANEL DETAILS, FAI ROUTE 57/70			F.A.I. RTE. 57/70	SECTION (25-4)R	COUNTY EFFINGHAM	TOTAL SHEETS 1760	SHEET NO. 405
	PLOT SCALE = \$SCALE\$	CHECKED - BRM	REVISED -		SCALE: 1"=50'	SHEET NO. 23 OF 58 SHEETS	STA.	TO STA.	CONTRACT NO. 74295			
	PLOT DATE = \$DATE\$	DATE - 8-05-09	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							

SN022 STA 22+50 (US45 RAMP B)



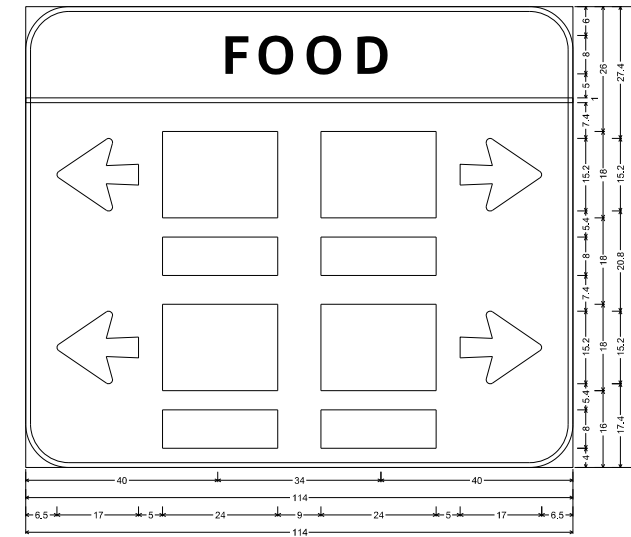
9.0' Radius, 1.0' Border, White on Blue;
 (GAS) ClearviewHwy-S-W; Arrow 80 - 17.0' 180'; Rectangle Blue; Rectangle Blue; Arrow 80 - 17.0' 180'; Rectangle Blue; Rectangle Blue;
 Rectangle Blue; Rectangle Blue; Arrow 80 - 17.0' 0'; Rectangle Blue; Rectangle Blue; Rectangle Blue; Rectangle Blue; Arrow 80 - 17.0' 0';
 Rectangle Blue; Rectangle Blue;
 Table of widths and spaces.

G	A	S
63.0	7.0	2.0
7.5	1.6	5.9
63.0		

-0.0 150.0 0.0

7.0	17.0	6.0	24.0	4.0	1.0	4.0	24.0	9.0	24.0	6.0	17.0	7.0
30.0	24.0	9.0	24.0	9.0	24.0	30.0						
7.0	17.0	6.0	24.0	9.0	24.0	9.0	24.0	6.0	17.0	7.0		
30.0	24.0	9.0	24.0	9.0	24.0	30.0						

SN023 STA 20+50 (US45 RAMP B)



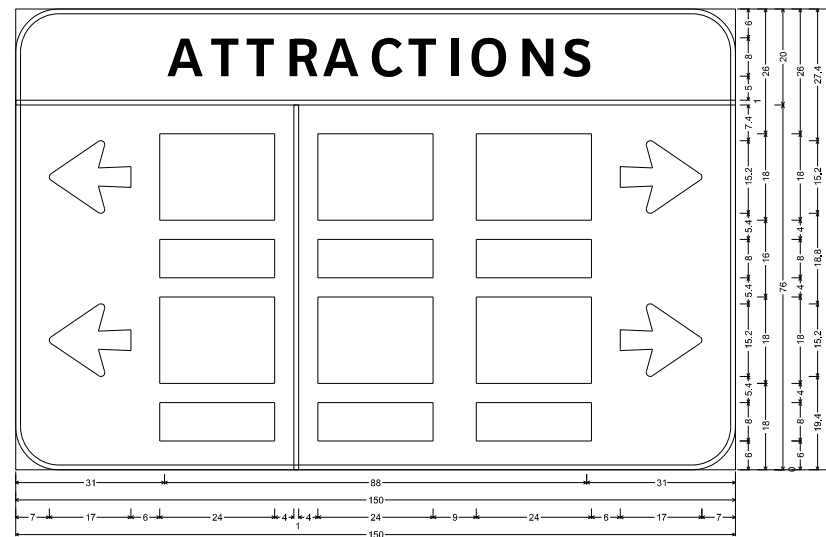
9.0' Radius, 1.0' Border, White on Blue;
 (FOOD) ClearviewHwy-S-W; Arrow 80 - 17.0' 180'; Rectangle Blue; Rectangle Blue; Arrow 80 - 17.0' 0';
 Rectangle Blue; Rectangle Blue; Arrow 80 - 17.0' 180'; Rectangle Blue; Rectangle Blue; Arrow 80 - 17.0' 0';
 Rectangle Blue;
 Table of widths and spaces.

G	A	S
40.0	4.8	2.3
7.5	2.5	2.8
40.0		

-0.0 114.0 0.0

6.5	17.0	5.0	24.0	9.0	24.0	5.0	17.0	6.5
28.5	24.0	9.0	24.0	28.5				
6.5	17.0	5.0	24.0	9.0	24.0	5.0	17.0	6.5
28.5	24.0	9.0	24.0	28.5				

SN024 STA 18+50 (US45 RAMP B)



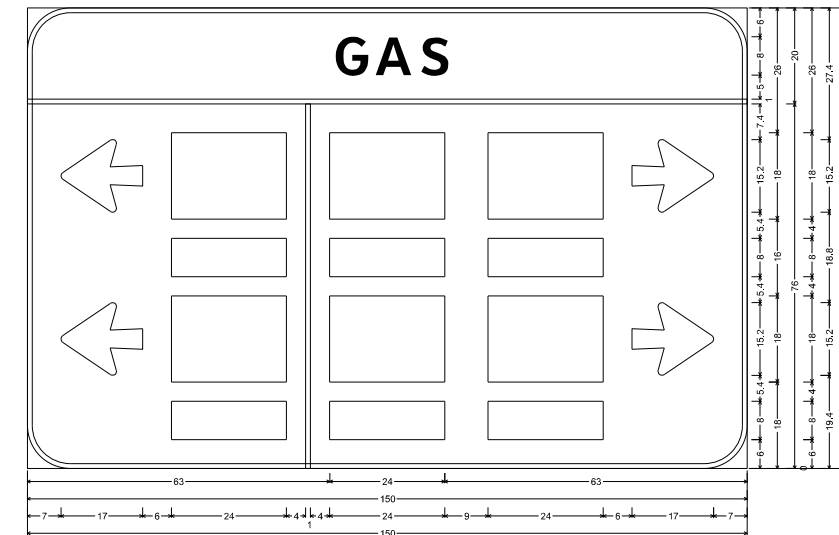
9.0' Radius, 1.0' Border, White on Blue;
 (ATTRACTIONS) ClearviewHwy-S-W; Arrow 80 - 17.0' 180'; Rectangle Blue; Rectangle Blue; Arrow 80 - 17.0' 180'; Rectangle Blue; Rectangle Blue;
 Rectangle Blue; Rectangle Blue; Arrow 80 - 17.0' 0'; Rectangle Blue; Rectangle Blue; Rectangle Blue; Rectangle Blue; Arrow 80 - 17.0' 0';
 Rectangle Blue; Rectangle Blue;
 Table of widths and spaces.

A	T	T	R	A	C	T	I	O	N	S
31.0	7.5	1.5	5.8	1.6	5.8	2.3	6.1	1.9	7.5	1.9
6.6	1.6	6.6	1.6	5.9	2.3	1.6	2.8	7.5	2.8	6.6
31.0										

-0.0 150.0 0.0

7.0	17.0	6.0	24.0	4.0	1.0	4.0	24.0	9.0	24.0	6.0	17.0	7.0
30.0	24.0	9.0	24.0	9.0	24.0	30.0						
7.0	17.0	6.0	24.0	9.0	24.0	9.0	24.0	6.0	17.0	7.0		
30.0	24.0	9.0	24.0	9.0	24.0	30.0						

SN025 STA 25+50 (US45 RAMP C)



9.0' Radius, 1.0' Border, White on Blue;
 (GAS) ClearviewHwy-S-W; Arrow 80 - 17.0' 180'; Rectangle Blue; Rectangle Blue; Arrow 80 - 17.0' 180'; Rectangle Blue; Rectangle Blue;
 Rectangle Blue; Rectangle Blue; Arrow 80 - 17.0' 0'; Rectangle Blue; Rectangle Blue; Rectangle Blue; Rectangle Blue; Arrow 80 - 17.0' 0';
 Rectangle Blue;
 Table of widths and spaces.

G	A	S
63.0	7.0	2.0
7.5	1.6	5.9
63.0		

-0.0 150.0 0.0

7.0	17.0	6.0	24.0	4.0	1.0	4.0	24.0	9.0	24.0	6.0	17.0	7.0
30.0	24.0	9.0	24.0	9.0	24.0	30.0						
7.0	17.0	6.0	24.0	9.0	24.0	9.0	24.0	6.0	17.0	7.0		
30.0	24.0	9.0	24.0	9.0	24.0	30.0						

NOT TO SCALE

FILE NAME =	USER NAME = \$USER\$	DESIGNED - ESW	REVISED -
Sn\Projects\403-00072.57-70\dgn\W Tr\ILV\sign panel details.dgn		DRAWN - LEC	REVISED -
PLOT SCALE = \$SCALE\$		CHECKED - BRM	REVISED -
PLOT DATE = \$DATE\$		DATE - 8-05-09	REVISED -

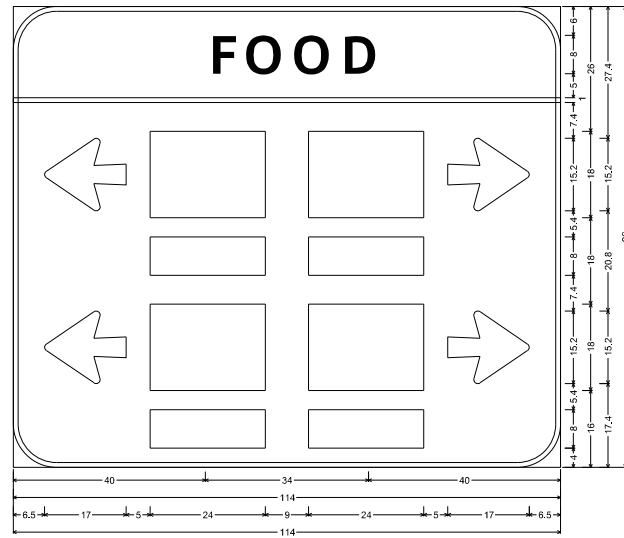
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SIGN PANEL DETAILS, FAI ROUTE 57/70

SCALE: 1"=50' SHEET NO. 24 OF 58 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-4R)	EFFINGHAM	1760	406
CONTRACT NO. 74295				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

SN014
STA 23+50 (US45 RAMP C)



9.0" Radius, 1.0" Border, White on Blue;
[FOOD] ClearviewHwy=5W; Arrow 80 • 17.0" 180"; Rectangle Blue; Rectangle Blue; Arrow 80 • 17.0" 0";
Rectangle Blue; Rectangle Blue; Arrow 80 • 17.0" 180"; Rectangle Blue; Rectangle Blue; Arrow 80 • 17.0" 0";
Rectangle Blue; Rectangle Blue;

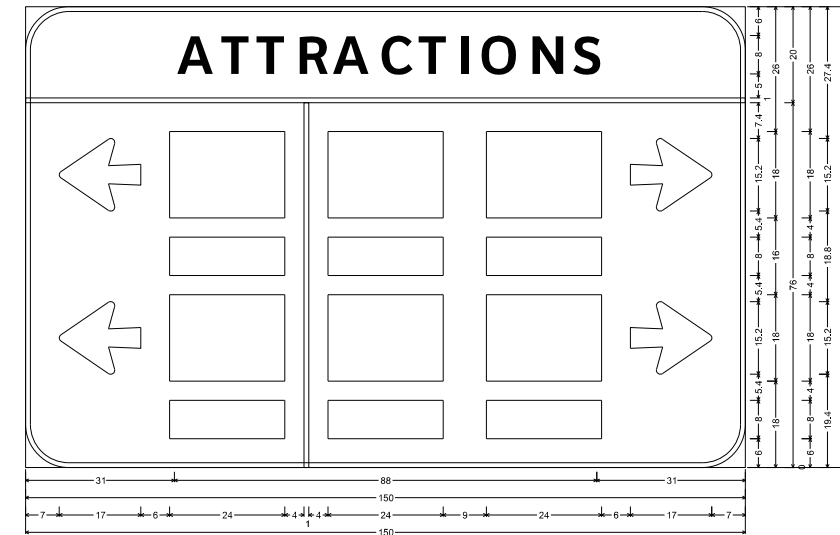
Table of widths and spaces:

F	O	O	D
40.0	4.9	2.3	7.5
2.5	2.5	2.8	6.5
40.0			

Table of widths and spaces:

←	□	□	□	→
6.5	17.0	5.0	24.0	5.0
17.0	5.0	24.0	5.0	17.0
6.5	17.0	5.0	24.0	5.0
17.0	5.0	24.0	5.0	17.0
6.5	17.0	5.0	24.0	5.0
17.0	5.0	24.0	5.0	17.0
6.5	17.0	5.0	24.0	5.0

SN015
STA 21+50 (US45 RAMP C)



9.0" Radius, 1.0" Border, White on Blue;
[ATTRACTIONS] ClearviewHwy=5W; Arrow 80 • 17.0" 180"; Rectangle Blue; Rectangle Blue; Arrow 80 • 17.0" 180"; Rectangle Blue; Rectangle Blue;
Rectangle Blue; Rectangle Blue; Arrow 80 • 17.0" 0"; Rectangle Blue; Rectangle Blue; Rectangle Blue; Arrow 80 • 17.0" 0";
Rectangle Blue; Rectangle Blue;

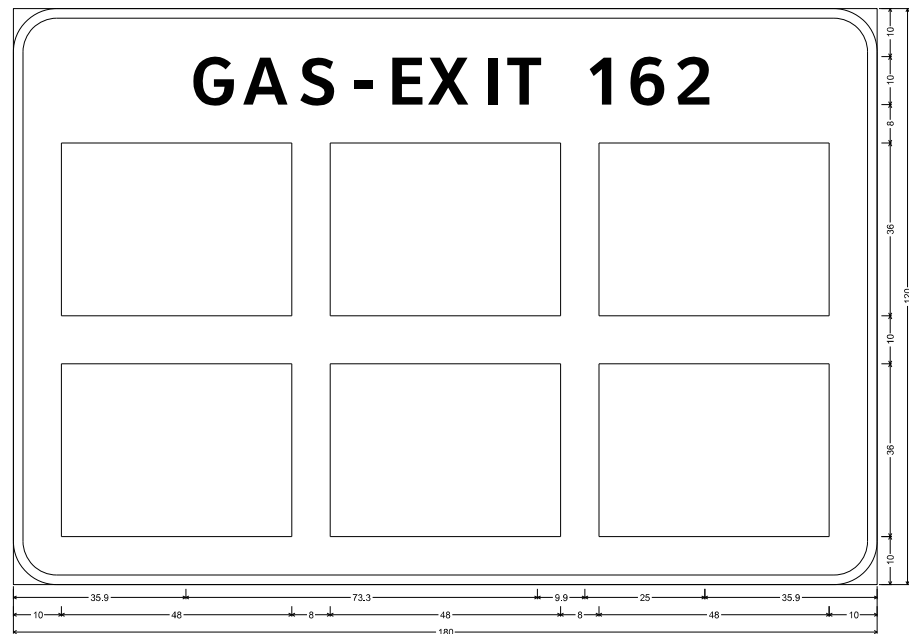
Table of widths and spaces:

A	T	T	R	A	C	T	I	O	N	S
31.0	7.5	1.5	5.8	1.6	5.8	2.3	6.1	1.9	7.5	1.9
6.6	1.8	5.9	2.3	1.8	2.8	7.5	2.8	6.6	2.5	5.8
31.0										

Table of widths and spaces:

←	□	□	□	→
7.0	17.0	6.0	24.0	4.0
1.0	4.0	24.0	9.0	24.0
6.0	17.0	6.0	24.0	7.0
7.0	17.0	6.0	24.0	9.0
24.0	9.0	24.0	9.0	30.0
7.0	17.0	6.0	24.0	9.0
24.0	9.0	24.0	9.0	30.0
7.0	17.0	6.0	24.0	9.0
24.0	9.0	24.0	9.0	30.0

SN016
STA 2358+60 (N TRI-LEVEL ROADWAY A)



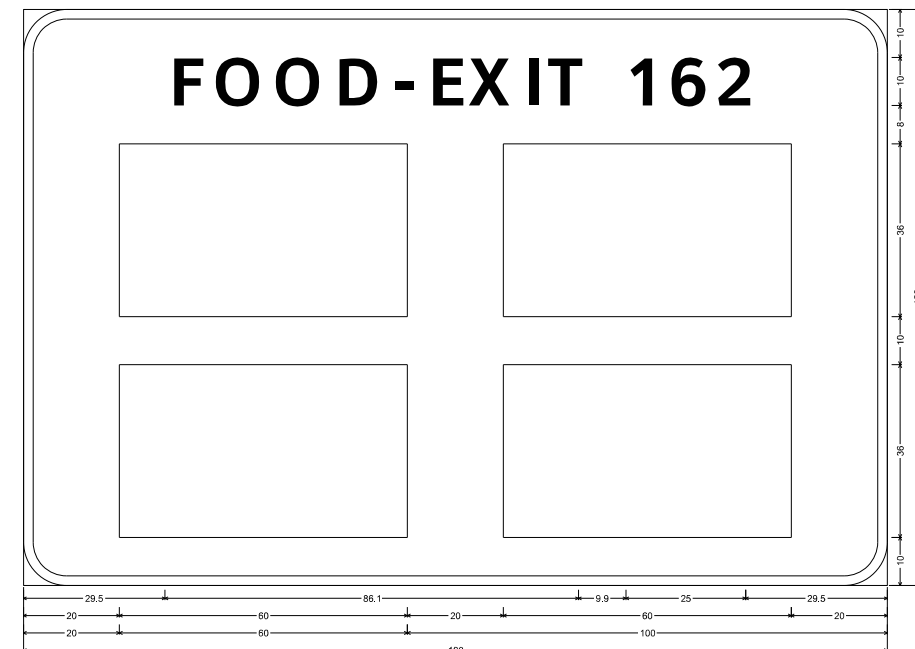
9.0" Radius, 2.0" Border, White on Blue;
[GAS-EXIT 162] ClearviewHwy=5W; Rectangle Blue; Rectangle Blue; Rectangle Blue; Rectangle Blue; Rectangle Blue; Rectangle Blue;
Table of widths and spaces:

G	A	S	-	E	X	I	T	1	6	2
35.9	8.7	2.5	9.5	2.0	7.3	3.2	4.0	3.9	6.4	2.2
8.6	2.7	2.1	2.9	7.3	9.9	4.6	3.5	7.3	2.7	6.9
35.9										

Table of widths and spaces:

□	□	□
10.0	48.0	8.0
48.0	8.0	48.0
10.0	48.0	8.0
48.0	8.0	48.0
10.0	48.0	8.0
48.0	8.0	48.0
10.0	48.0	8.0
48.0	8.0	48.0

SN017
STA 2365+38 (N TRI-LEVEL ROADWAY A)



9.0" Radius, 2.0" Border, White on Blue;
[FOOD-EXIT 162] ClearviewHwy=5W; Rectangle Blue; Rectangle Blue; Rectangle Blue; Rectangle Blue;
Table of widths and spaces:

F	O	O	D	-	E	X	I	T	1	6	2
29.5	6.1	2.9	9.4	3.1	9.3	3.6	6.1	3.5	4.0	3.9	
6.5	2.1	6.7	2.7	2.0	3.0	7.2	9.9	4.6	3.5	7.3	
29.5											

Table of widths and spaces:

□	□	□
20.0	60.0	20.0
60.0	20.0	60.0
20.0	60.0	20.0
20.0	60.0	20.0
20.0	60.0	20.0
20.0	60.0	20.0
20.0	60.0	20.0
20.0	60.0	20.0

NOT TO SCALE

FILE NAME =	USER NAME = \$USER\$	DESIGNED - ESW	REVISED -
S:\Projects\403-00072-57-70\dgn\W Trilv\sign panel details.dgn		DRAWN - LEC	REVISED -
	PLOT SCALE = \$SCALE\$	CHECKED - BRM	REVISED -
	PLOT DATE = \$DATE\$	DATE - 8-05-09	REVISED -

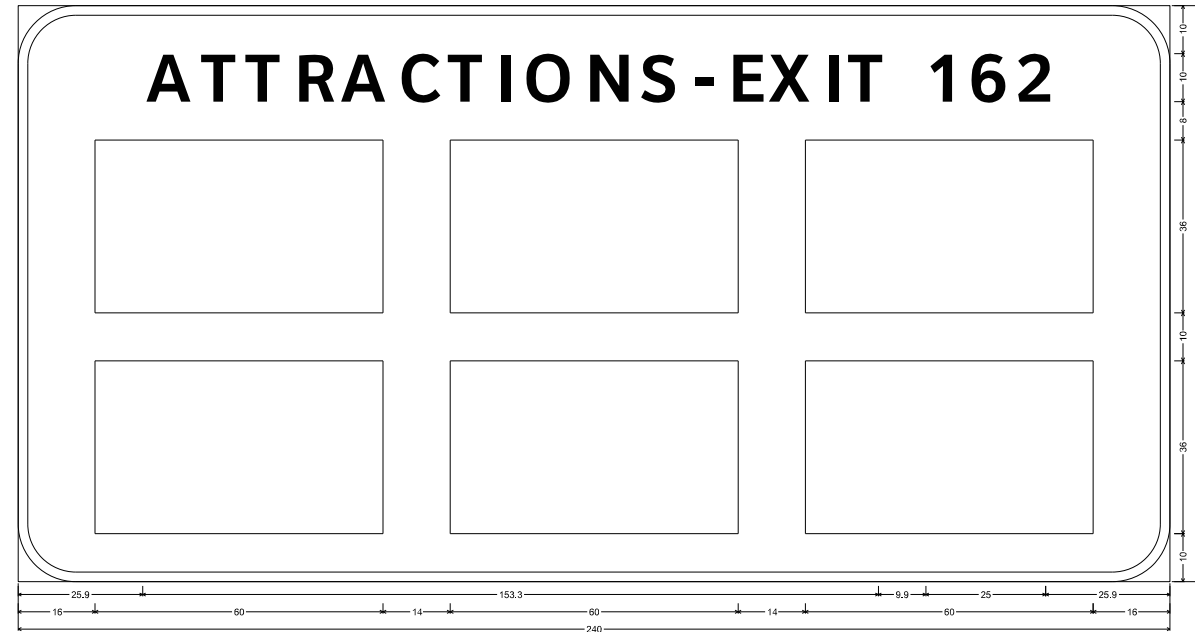
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGN PANEL DETAILS, FAI ROUTE 57/70

SCALE: 1"=50' SHEET NO. 25 OF 58 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-4R)	EFFINGHAM	1760	407
CONTRACT NO. 74295				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

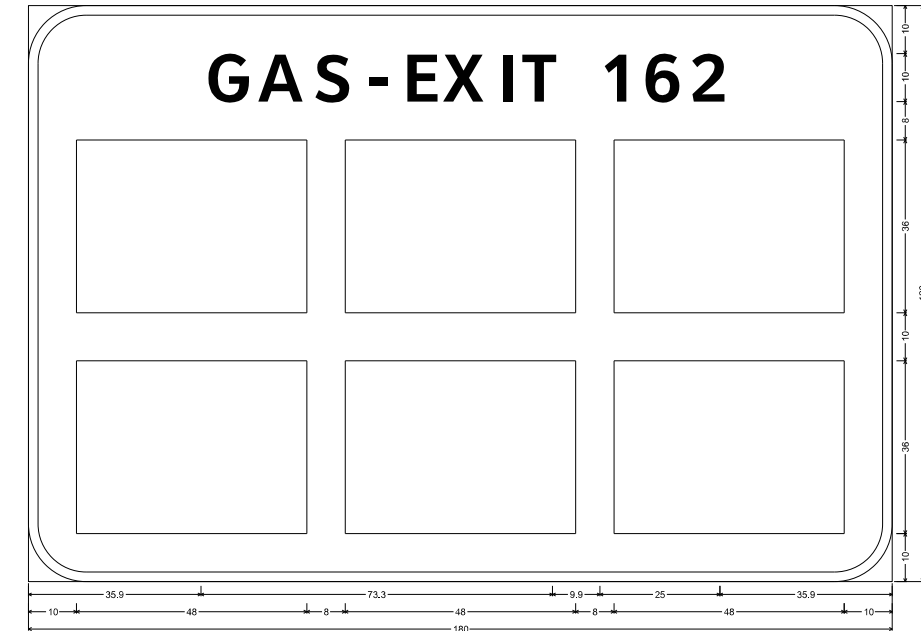
SN018
STA 2375+00 (N TRI-LEVEL ROADWAY A)



12.0" Radius, 2.0" Border, White on Blue:
[ATTRACTIONS-EXIT 162] ClearviewHwy-S-W; Rectangle Blue; Rectangle Blue; Rectangle Blue; Rectangle Blue; Rectangle Blue; Rectangle Blue;
Table of widths and spaces.

A	T	T	R	A	C	T	I	O	N	S	-	E	X	I	T	1	6	2																					
25.9	9.4	1.8	7.3	2.0	7.2	3.0	7.5	2.4	9.4	2.4	8.2	2.1	7.2	2.9	2.1	3.5	9.3	3.6	8.3	3.1	7.3	3.2	4.0	3.9	6.5	2.1	8.7	2.7	2.0	2.9	7.3	9.9	4.6	3.6	7.2	2.7	6.9	25.9	
□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□
16.0	60.0	14.0	60.0	14.0	60.0	14.0	60.0	14.0	60.0	14.0	60.0	14.0	60.0	14.0	60.0	14.0	60.0	14.0	60.0	14.0	60.0	14.0	60.0	14.0	60.0	14.0	60.0	14.0	60.0	14.0	60.0	14.0	60.0	14.0	60.0	14.0	60.0	14.0	60.0

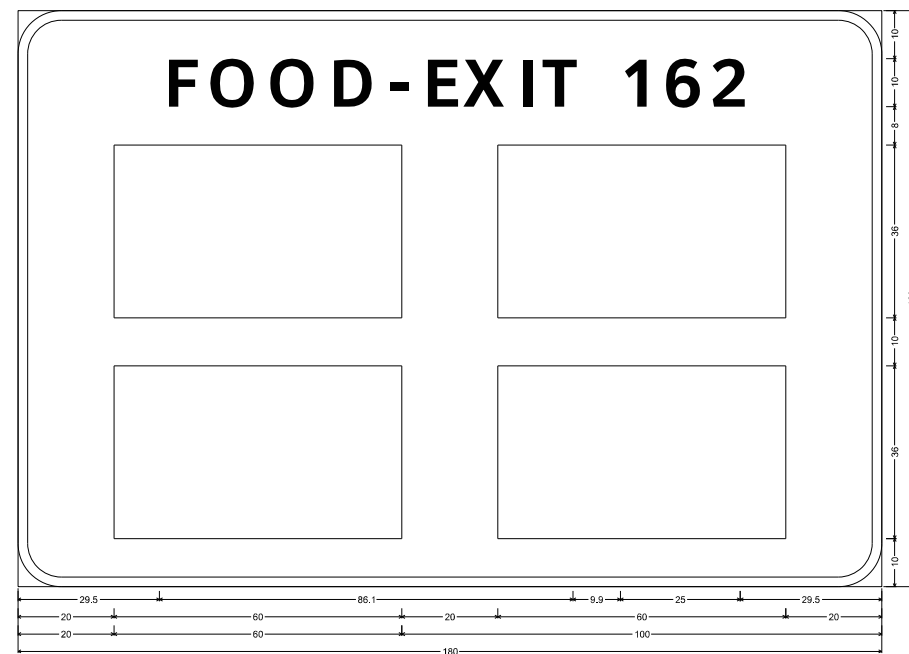
SN019
STA 5363+06 (N TRI-LEVEL ROADWAY C)



12.0" Radius, 2.0" Border, White on Blue:
[GAS-EXIT 162] ClearviewHwy-S-W; Rectangle Blue; Rectangle Blue; Rectangle Blue; Rectangle Blue; Rectangle Blue; Rectangle Blue;
Table of widths and spaces.

G	A	S	-	E	X	I	T	1	6	2													
35.9	8.7	2.5	0.5	2.0	7.3	3.2	4.0	3.9	6.4	2.2	8.6	2.7	2.1	2.9	7.3	9.9	4.6	3.5	7.3	2.7	6.9	35.9	
□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□
10.0	48.0	8.0	48.0	8.0	48.0	8.0	48.0	8.0	48.0	8.0	48.0	8.0	48.0	8.0	48.0	8.0	48.0	8.0	48.0	8.0	48.0	8.0	48.0

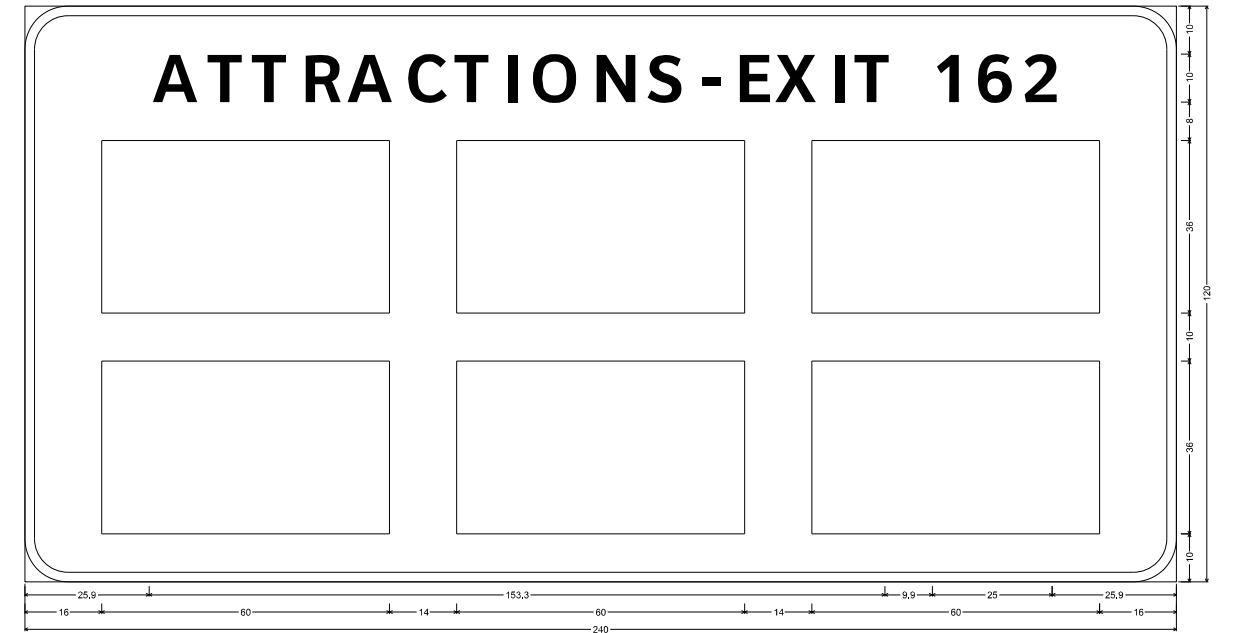
SN020
STA 5371+03 (N TRI-LEVEL ROADWAY C)



9.0" Radius, 2.0" Border, White on Blue:
[FOOD-EXIT 162] ClearviewHwy-S-W; Rectangle Blue; Rectangle Blue; Rectangle Blue; Rectangle Blue;
Table of widths and spaces.

F	O	O	D	-	E	X	I	T	1	6	2													
25.5	6.1	2.9	9.4	3.1	9.3	3.6	8.1	3.5	4.0	3.9	6.5	2.1	8.7	2.7	2.0	3.0	7.2	9.9	4.6	3.6	7.2	2.6	6.9	25.5
□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□
20.0	60.0	20.0	60.0	20.0	60.0	20.0	60.0	20.0	60.0	20.0	60.0	20.0	60.0	20.0	60.0	20.0	60.0	20.0	60.0	20.0	60.0	20.0	60.0	20.0

SN021
STA 5379+60 (N TRI-LEVEL ROADWAY C)



9.0" Radius, 2.0" Border, White on Blue:
[ATTRACTIONS-EXIT 162] ClearviewHwy-S-W; Rectangle Blue; Rectangle Blue; Rectangle Blue; Rectangle Blue; Rectangle Blue; Rectangle Blue;
Table of widths and spaces.

A	T	T	R	A	C	T	I	O	N	S	-	E	X	I	T	1	6	2																					
25.9	9.4	1.8	7.3	2.0	7.2	3.0	7.5	2.4	9.4	2.4	8.2	2.1	7.2	2.9	2.1	3.5	9.3	3.6	8.3	3.1	7.3	3.2	4.0	3.9	6.5	2.1	8.7	2.7	2.0	2.9	7.3	9.9	4.6	3.6	7.2	2.7	6.9	25.9	
□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□
16.0	60.0	14.0	60.0	14.0	60.0	14.0	60.0	14.0	60.0	14.0	60.0	14.0	60.0	14.0	60.0	14.0	60.0	14.0	60.0	14.0	60.0	14.0	60.0	14.0	60.0	14.0	60.0	14.0	60.0	14.0	60.0	14.0	60.0	14.0	60.0	14.0	60.0	14.0	60.0

NOT TO SCALE

FILE NAME =	USER NAME = \$USER\$	DESIGNED - ESW	REVISED -
S:\Projects\403-00072-57-70\dgn\W Trilv\sign panel details.dgn		DRAWN - LEC	REVISED -
PLOT SCALE = \$SCALE\$		CHECKED - BRM	REVISED -
PLOT DATE = \$DATE\$		DATE - 8-05-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGN PANEL DETAILS, FAI ROUTE 57/70

SCALE: 1"=50' SHEET NO. 26 OF 58 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-4R)	EFFINGHAM	1760	408
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 74295	

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

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

DESIGN STRESSES:
Field Units
F_c = 3,500 p.s.i.
f_y = 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 or A500 Grade B or C. 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 ASTM F1554 Gr. 105.

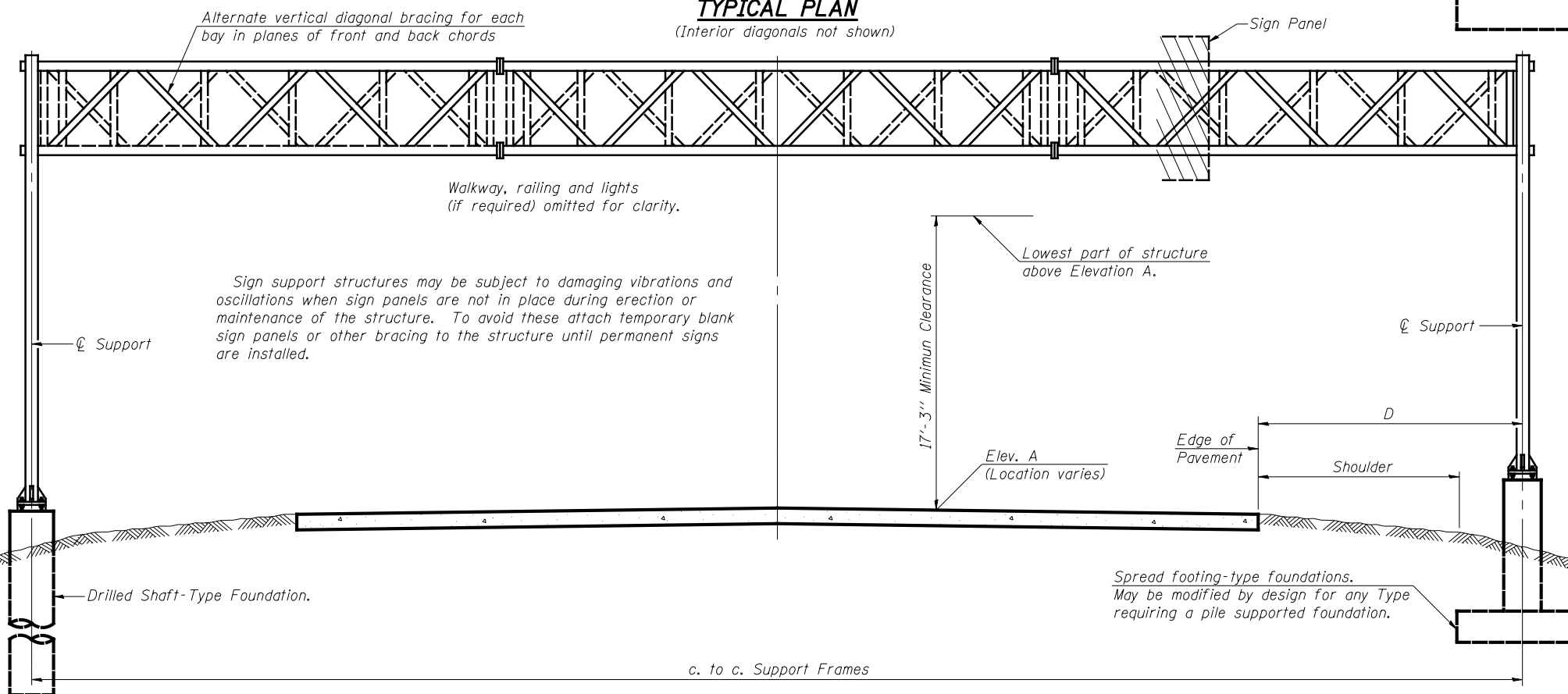
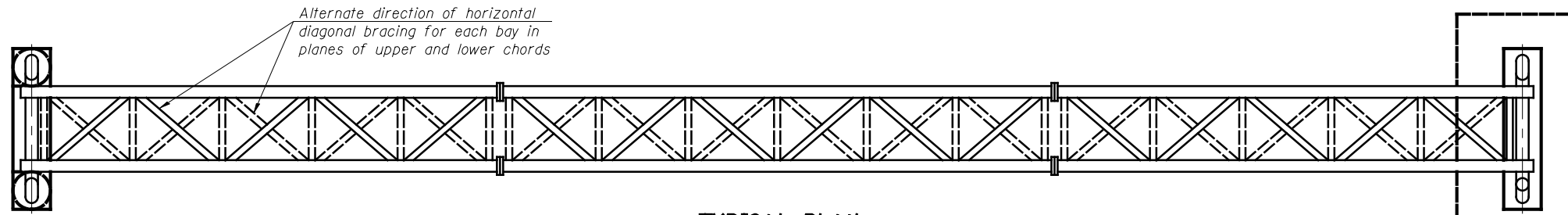
CONCRETE SURFACES: All concrete surfaces above an elevation 6" below the lowest final ground line at each foundation shall be cleaned and coated with Bridge Seat Sealer in accordance with the Standard Specifications.

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

FOUNDATIONS: The contract unit price for Concrete Foundations and Drilled Shaft Concrete Foundations shall include reinforcement bars complete in place.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE SPAN TYPE I-A	Foot	381'-0"
OVERHEAD SIGN STRUCTURE SPAN TYPE II-A	Foot	
OVERHEAD SIGN STRUCTURE SPAN TYPE III-A	Foot	
OVERHEAD SIGN STRUCTURE WALKWAY TYPE A	Foot	232'-0"
CONCRETE FOUNDATIONS	Cu. Yds.	19.6
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yds.	95.7



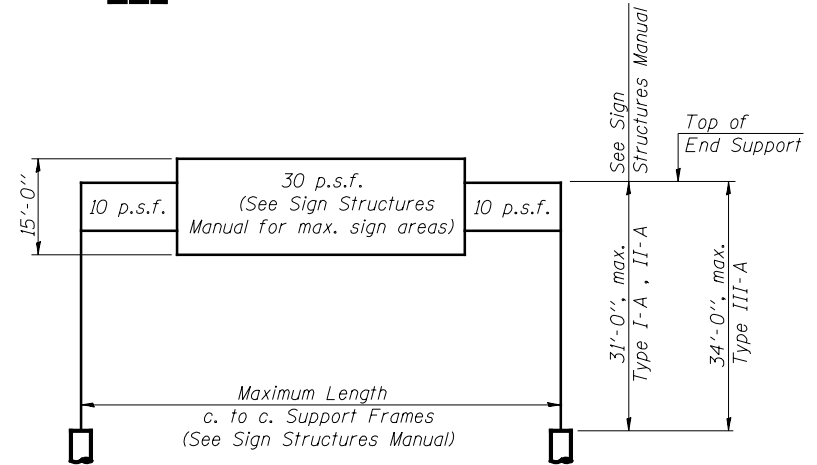
TYPICAL ELEVATION
(Looking at Face of Signs**)

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
7S0251057R162.0	2290+50	I-A	86'-0"	631.54	18'-0"	15'-0"	576.25 SF
7S0251057R162.7	2326+30	I-A	74'-0"	601.69	18'-0"	11'-6"	373.75 SF
7S0251057R163.4	2351+00	I-A	84'-0"	603.66	18'-0"	10'-0"	275.00 SF
7S0251070L098.6	2387+00	I-A	77'-0"	608.47	18'-0"	11'-0"	381.50 SF
7S0251070L099.1	2412+00	I-A	60'-0"	606.09	18'-0"	11'-6"	455.00 SF

**Looking upstation for structures with signs both sides.

* 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.



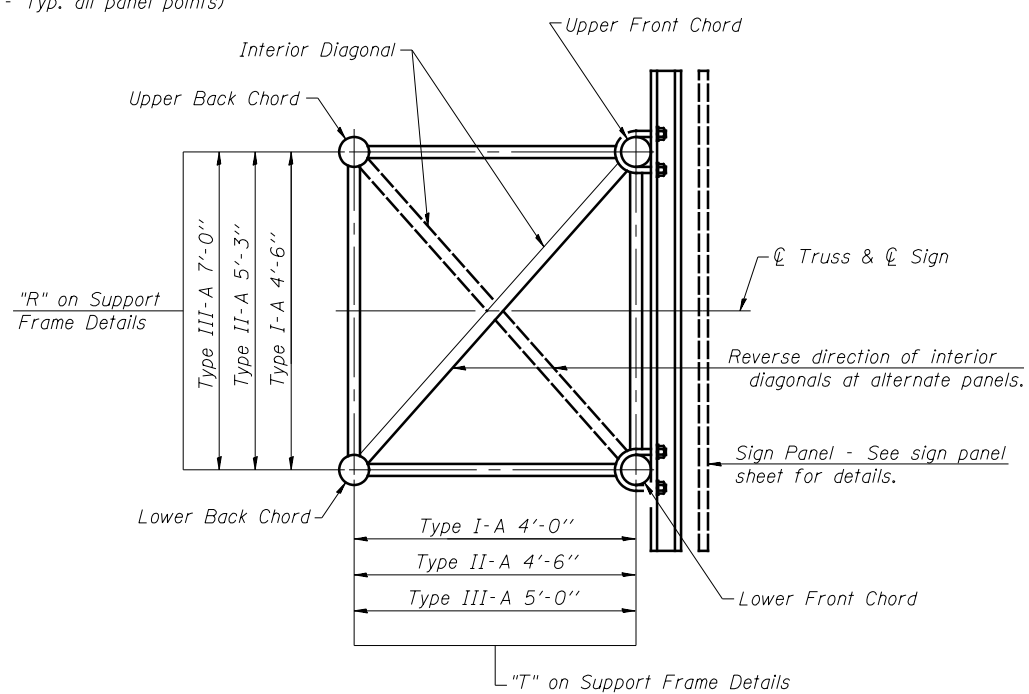
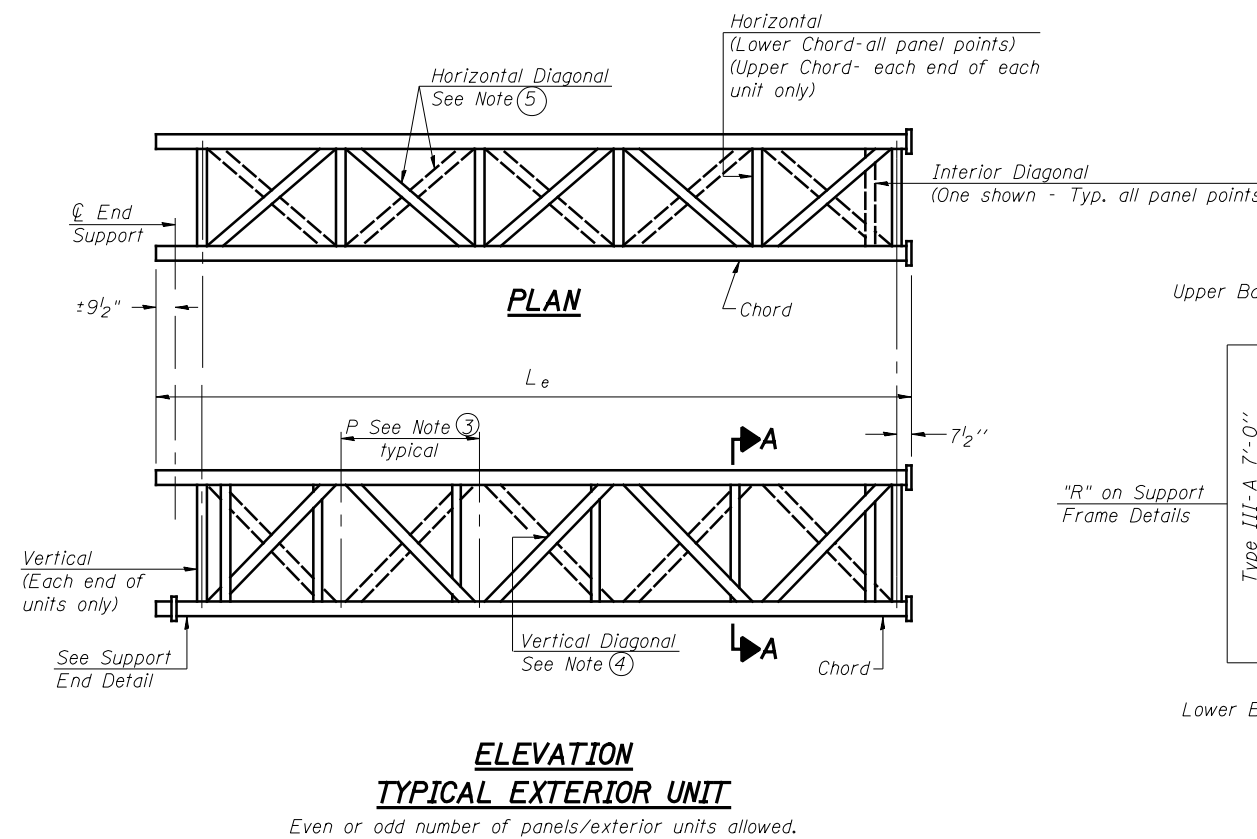
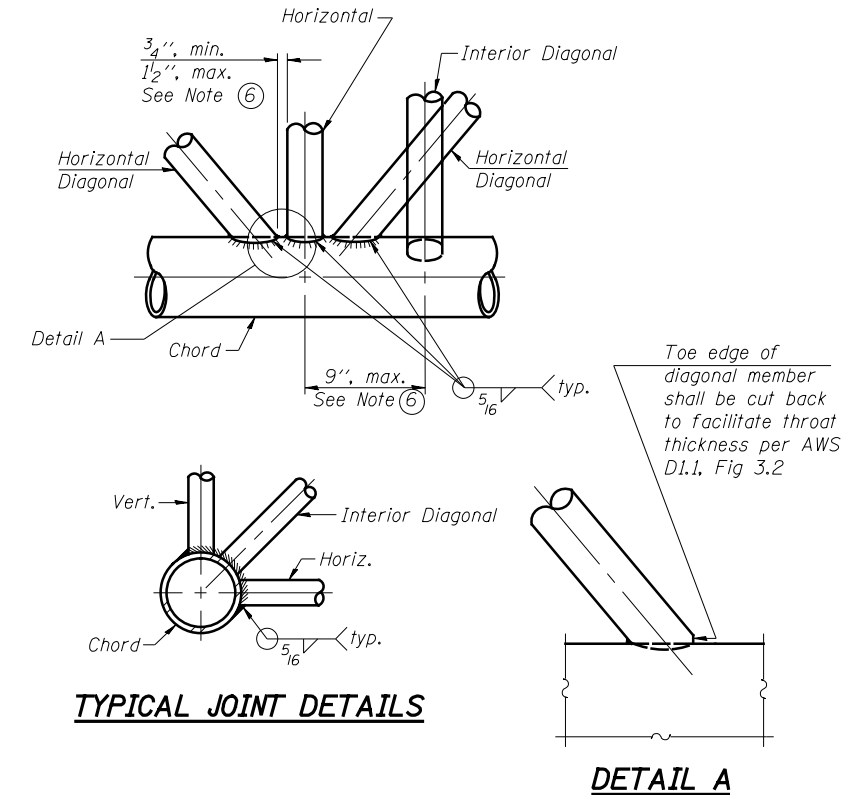
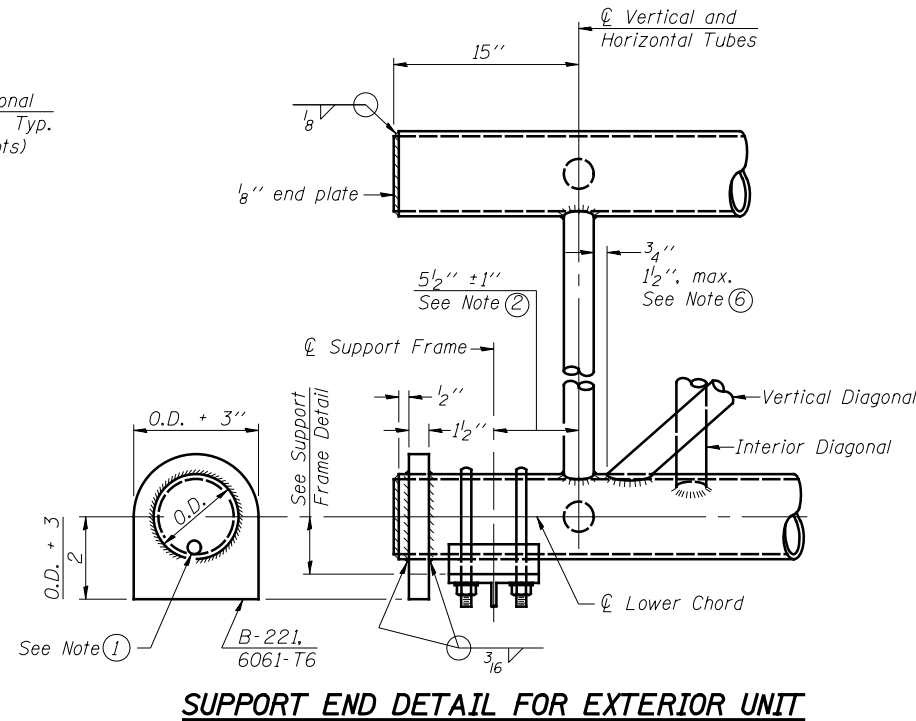
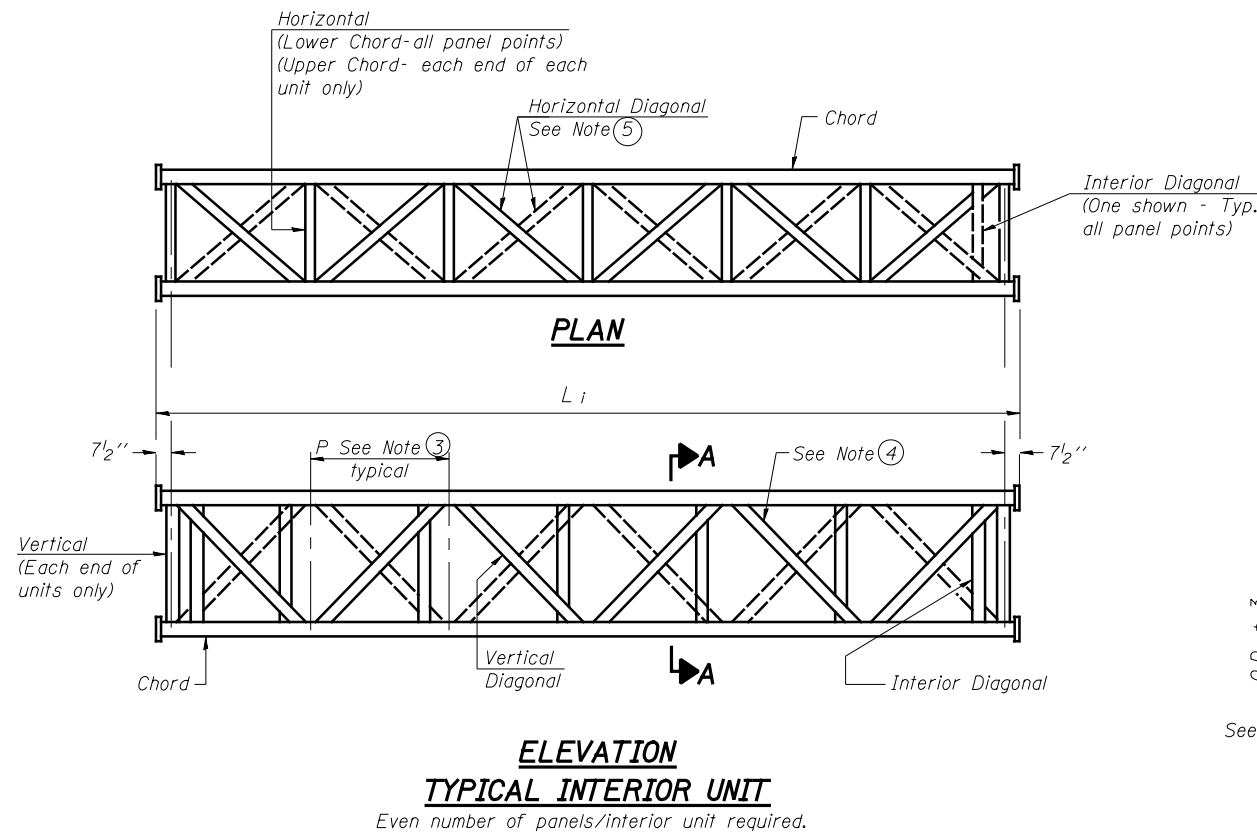
DESIGN WIND LOADING DIAGRAM

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.

OS-A-1

6-1-12

FILE NAME =	USER NAME =	DESIGNED - ESW	REVISIONS -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	OVERHEAD SIGN STRUCTURES - GENERAL PLAN & ELEVATION - ALUMINUM TRUSS & STEEL SUPPORTS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		CHECKED - JWS	REVISIONS -			57/70	(25-4R)	EFFINGHAM	1760	409	
		DRAWN - PDB	REVISIONS -			CONTRACT NO. 74295					
		CHECKED - BRM	REVISIONS -			ILLINOIS FED. AID PROJECT					



- ① Contractor may alternatively use standard aluminum drive-fit cap to close end. 1/2" ϕ drain hole in end plate/drive-fit cap. (Typ. at ends of all chords)
- ② 5 1/2" end dimension may vary by $\pm 1"$ to provide uniform panel spacing (P).
- ③ 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.
- ④ Vertical Diagonals in front and back face shall alternate.
- ⑤ Hidden lines show wind bracing alternates direction between planes of top and bottom chords.
- ⑥ 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.

OS-A-2

6-1-12

FILE NAME =	USER NAME =	DESIGNED - ESW	REVISED -
		CHECKED - JWS	REVISED -
		DRAWN - PDB	REVISED -
		CHECKED - BRM	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

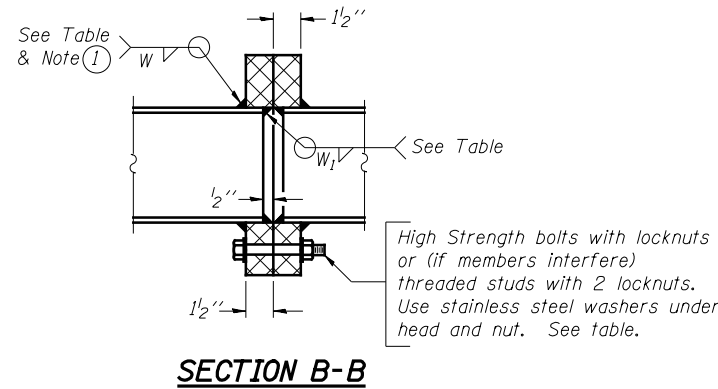
OVERHEAD SIGN STRUCTURES - ALUMINUM TRUSS
DETAILS FOR TRUSS TYPES I-A, II-A AND III-A

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-4R)	EFFINGHAM	1760	410
CONTRACT NO. 74295				
ILLINOIS FED. AID PROJECT				

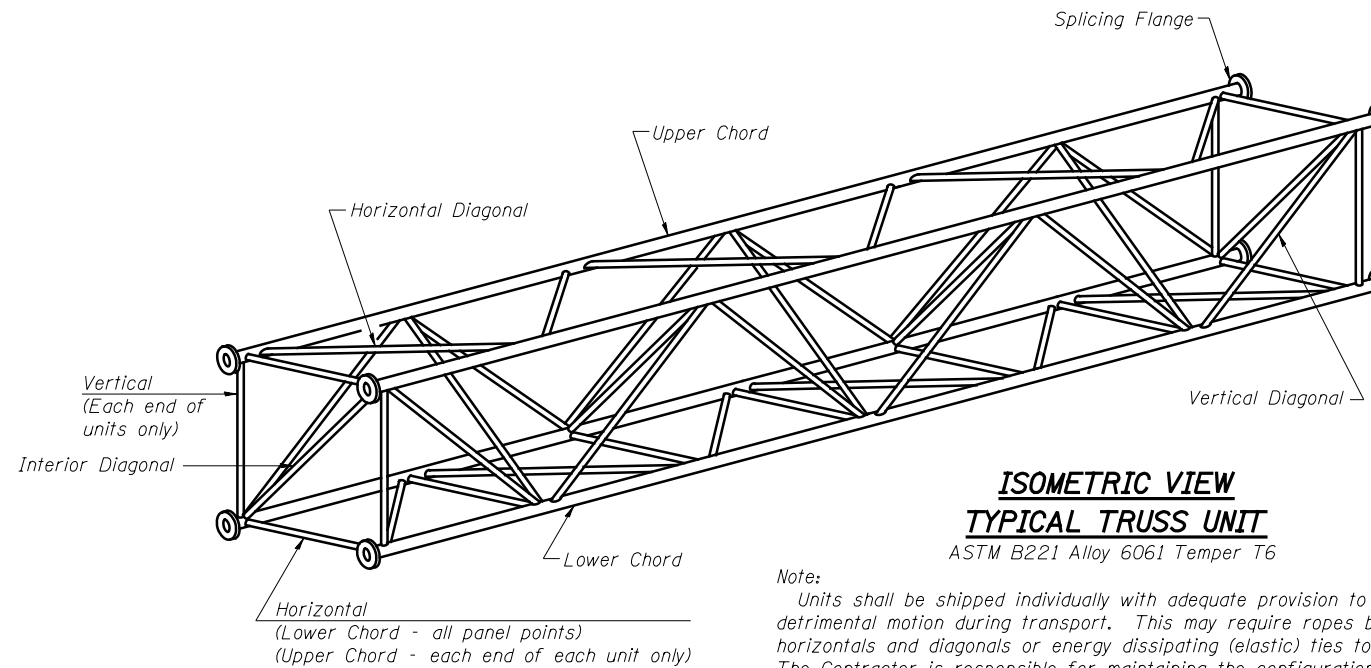
SHEET NO. 23 OF 53 SHEETS

TRUSS UNIT TABLE

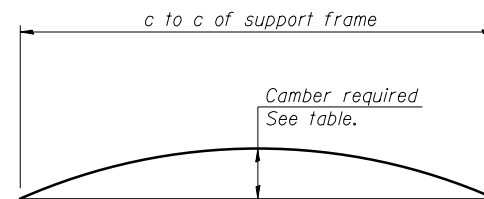
Structure Number	Station	Design Truss Type	Exterior Units (2)			Interior Unit				Upper & Lower Chord		Verticals; Horizontals; Vertical, Horizontal, and Interior Diagonals		Camber at Midspan	Splicing Flange					
			No. Panels per Unit	Unit Lgth.(L _e)	Panel Lgth.(P)	No. Req'd.	No. Panels per Unit	Unit Lgth.(L _i)	Panel Lgth.(P)	O.D.	Wall	O.D.	Wall		Bolts		Weld Sizes		A	B
															No./Splice	Dia.	W	W ₁		
7S025I057R162.0	2290+50	I-A	6	29'-4 1/2"	4'-7"	1	6	28'-9"	4'-7"	5"	5/16"	2 1/2"	5/16"	2.55"	6	7/8"	5/16"	1/4"	8 3/4"	11 3/4"
7S025I057R162.7	2326+30	I-A	8	37'-10 1/2"	4'-6"	0	-	-	-	5"	5/16"	2 1/2"	5/16"	1.95"	6	7/8"	5/16"	1/4"	8 3/4"	11 3/4"
7S025I057R163.4	2351+00	I-A	6	28'-9"	4'-5 3/4"	1	6	28'-1 1/2"	4'-5 3/4"	5"	5/16"	2 1/2"	5/16"	2.45"	6	7/8"	5/16"	1/4"	8 3/4"	11 3/4"
7S025I070L098.6	2387+00	I-A	8	39'-2 1/2"	4'-8"	0	-	-	-	5"	5/16"	2 1/2"	5/16"	2.10"	6	7/8"	5/16"	1/4"	8 3/4"	11 3/4"
7S025I070L099.1	2412+00	I-A	6	30'-10 1/2"	4'-10"	0	-	-	-	5"	1/4"	2 1/2"	1/4"	1.25"	6	7/8"	5/16"	1/4"	8 3/4"	11 3/4"



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.

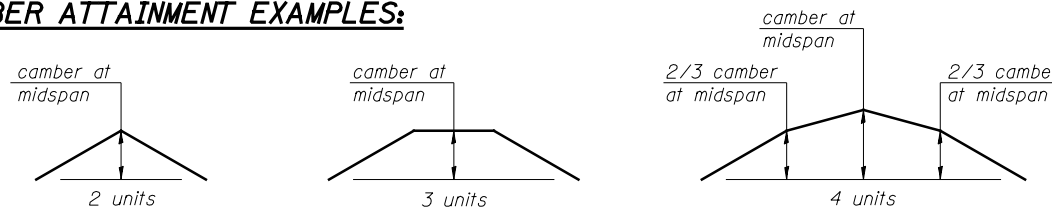


Note:
Units shall be shipped individually with adequate provision to prevent detrimental motion during transport. This may require ropes between horizontals and diagonals or energy dissipating (elastic) ties to the vehicle. The Contractor is responsible for maintaining the configuration and protection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

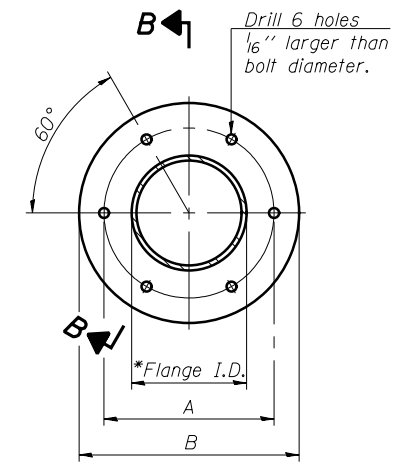


Camber curve shown is theoretical. Actual camber attained by slope changes at splices between units.

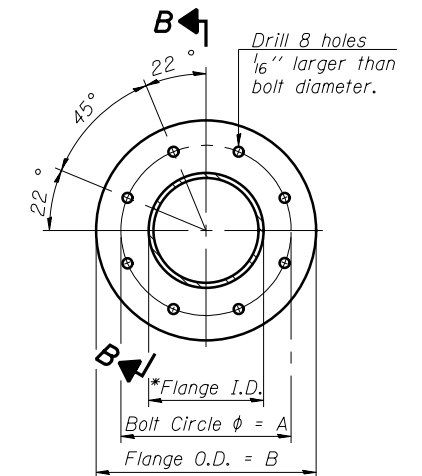
CAMBER ATTAINMENT EXAMPLES:



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



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



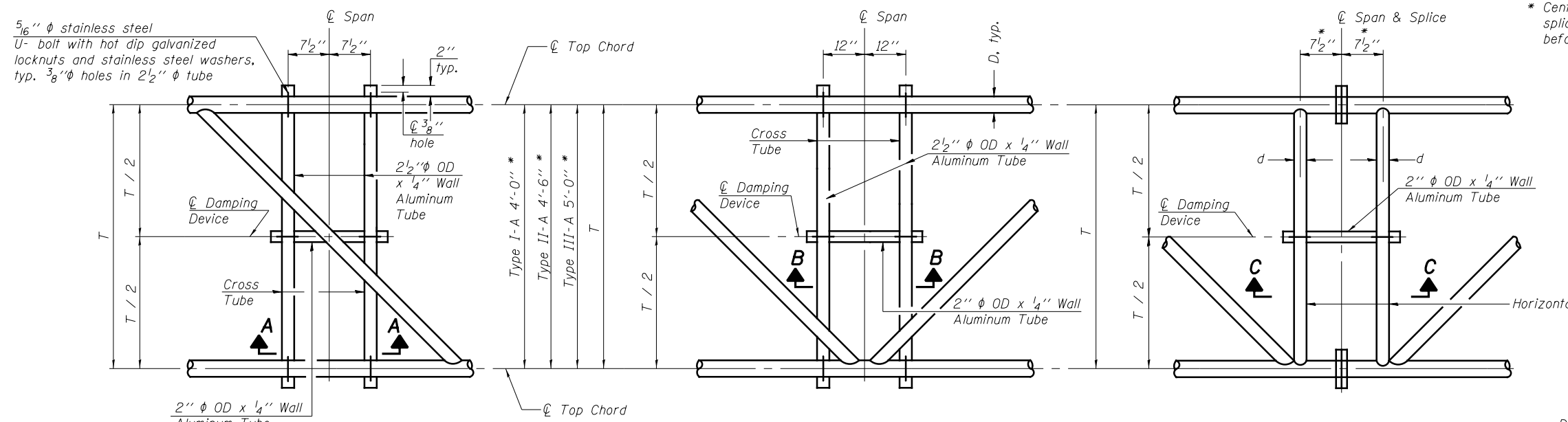
**TRUSS TYPES II-A & III-A
SPLICING FLANGES**

ASTM B221, Alloy 6061-T6
or ASTM B209, Alloy 6061-T651
*To fit O.D. of Chord with maximum gap of 1/16".

OS4-A-2

6-1-12

FILE NAME =	USER NAME =	DESIGNED - ESW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	OVERHEAD SIGN STRUCTURES - ALUMINUM TRUSS DETAILS FOR TRUSS TYPES I-A, II-A AND III-A	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		CHECKED - JWS	REVISED -			57/70	(25-4R)	EFFINGHAM	1760	411	
		DRAWN - PDB	REVISED -			CONTRACT NO. 74295					
		CHECKED - BRM	REVISED -			SHEET NO. 24 OF 53 SHEETS					



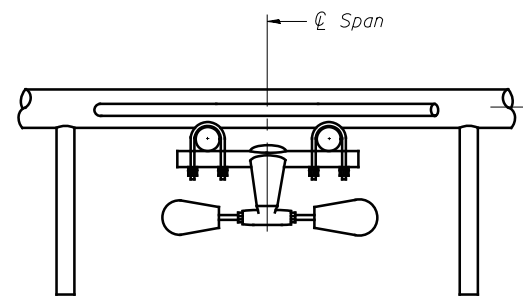
PLAN DETAIL "A"
 ☐ Span between Panel Points

PLAN DETAIL "B"
 ☐ Span at Panel Point

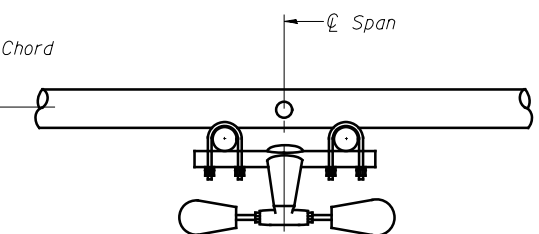
PLAN DETAIL "C"
 ☐ Span at ☐ Chord Splice

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

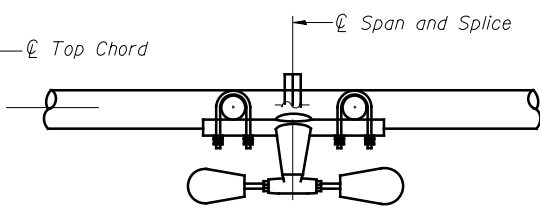
NOTES
 Damper: One damper per truss. (31 lbs. minimum Stockbridge-Type Aluminum - 29" minimum between ends of weights) Cost included in Overhead Sign Structure...
 Materials: Materials: Aluminum tubes shall be ASTM B221 alloy 6061 temper T6. Cost included in Overhead Sign Structure...



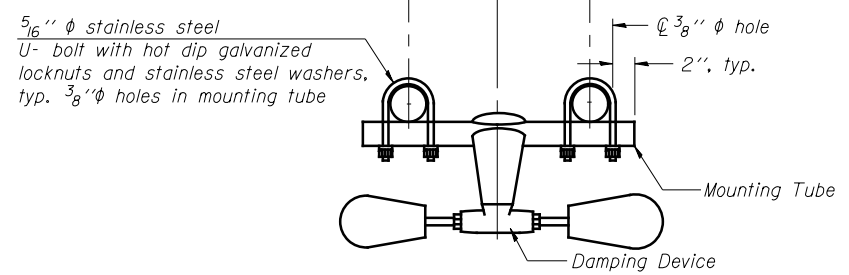
SECTION A-A



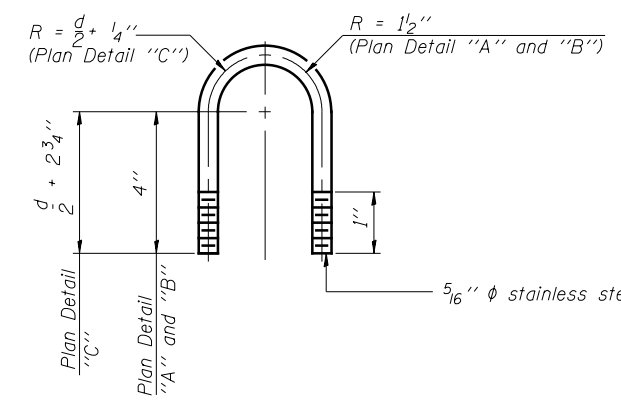
SECTION B-B



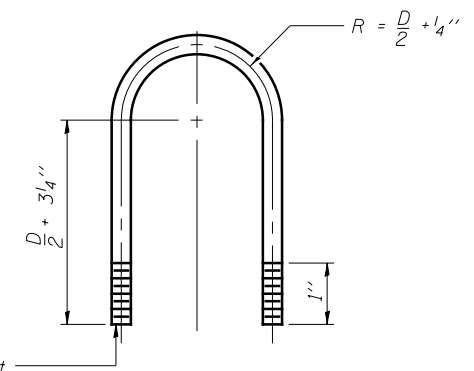
SECTION C-C



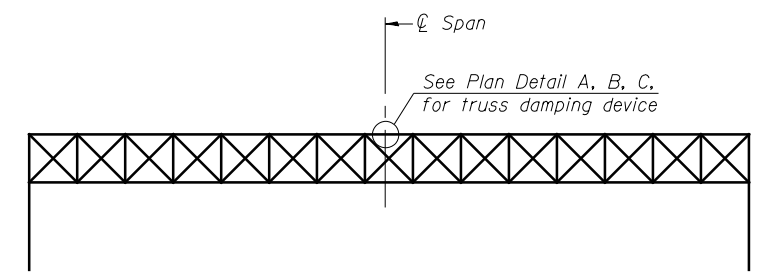
TRUSS DAMPING DEVICE CONNECTION DETAIL
 (Typical)



DAMPING DEVICE MOUNTING TUBE U-BOLT DETAIL
 (Typical)



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



ELEVATION
 Aluminum Overhead Sign Truss

OS-A-D

6-1-12

FILE NAME =	USER NAME =	DESIGNED - ESW	REVISED -
		CHECKED - JWS	REVISED -
		DRAWN - PDB	REVISED -
		CHECKED - BRM	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

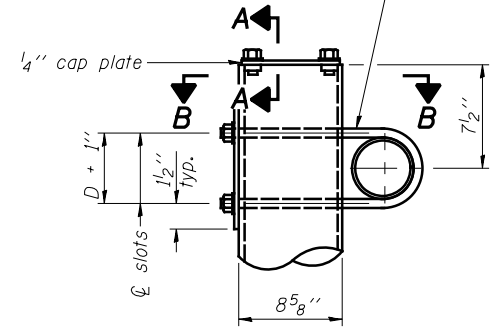
OVERHEAD SIGN STRUCTURE
 DAMPING DEVICE

SHEET NO. 25 OF 53 SHEETS

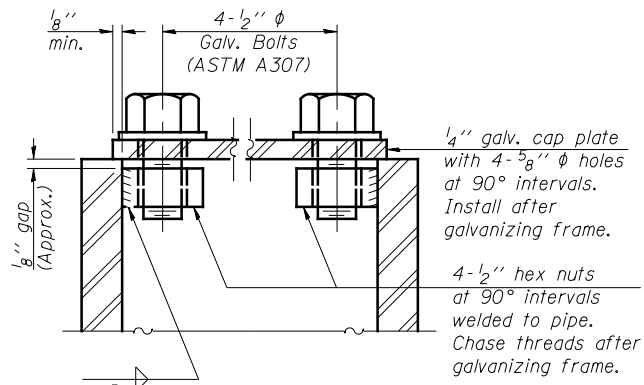
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-4R)	EFFINGHAM	1760	412
CONTRACT NO. 74295				

ILLINOIS FED. AID PROJECT

3/4" φ stainless steel U-bolt.
Provide two washers and two hexagon locknuts. (4)
1 3/16" x 2" slots on 8" φ pipe.
(4 slots required per pipe)

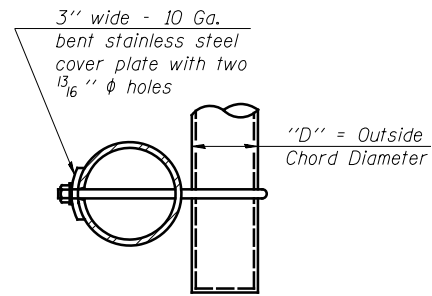


DETAIL A

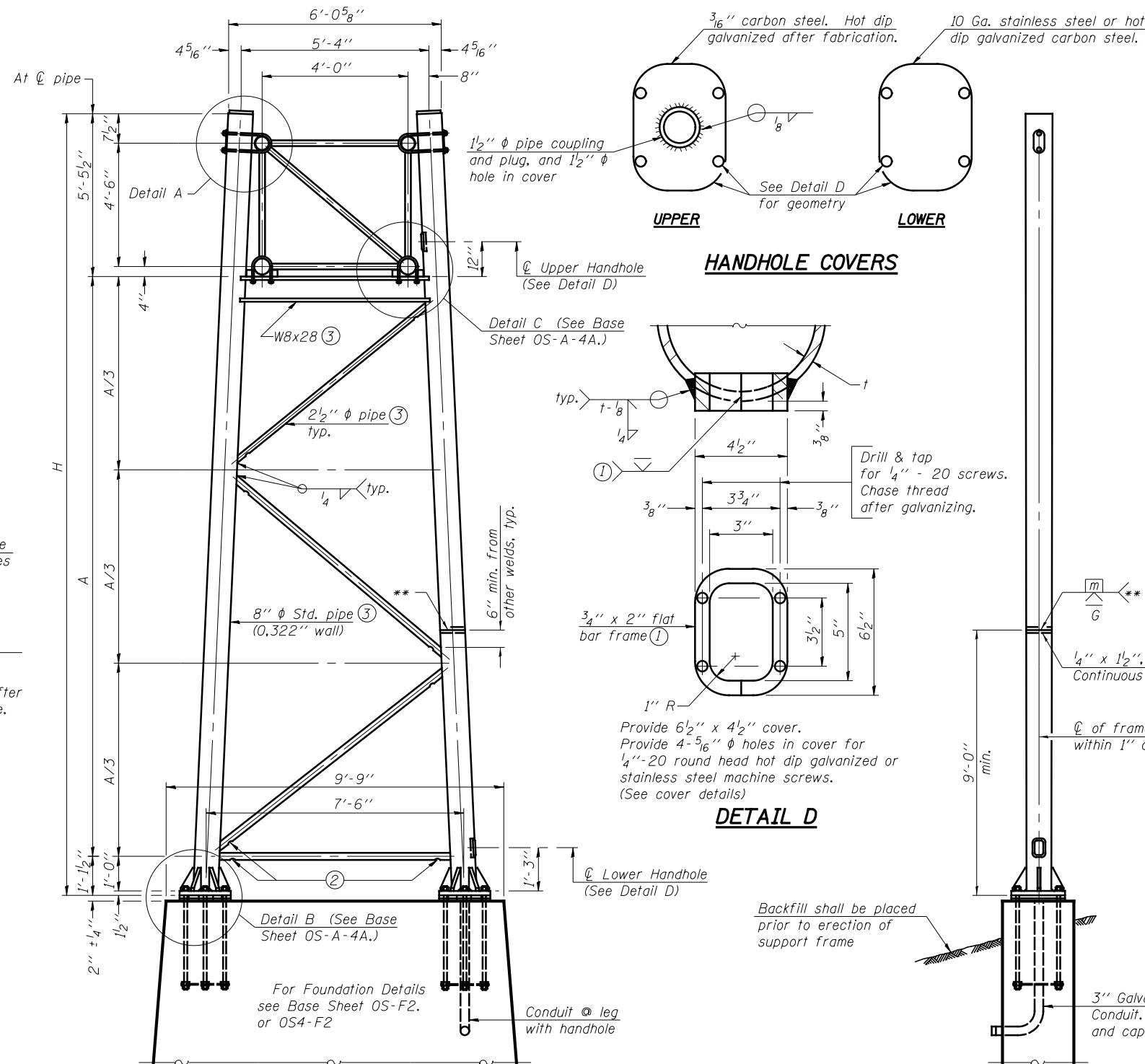


SECTION A-A

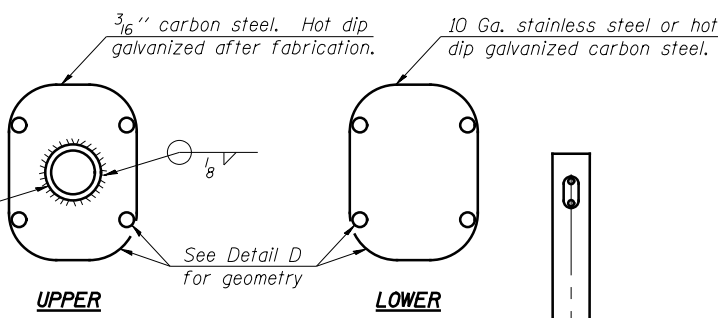
As an alternate to bolts, may use galvanized drive-fit caps installed after galvanizing frame.



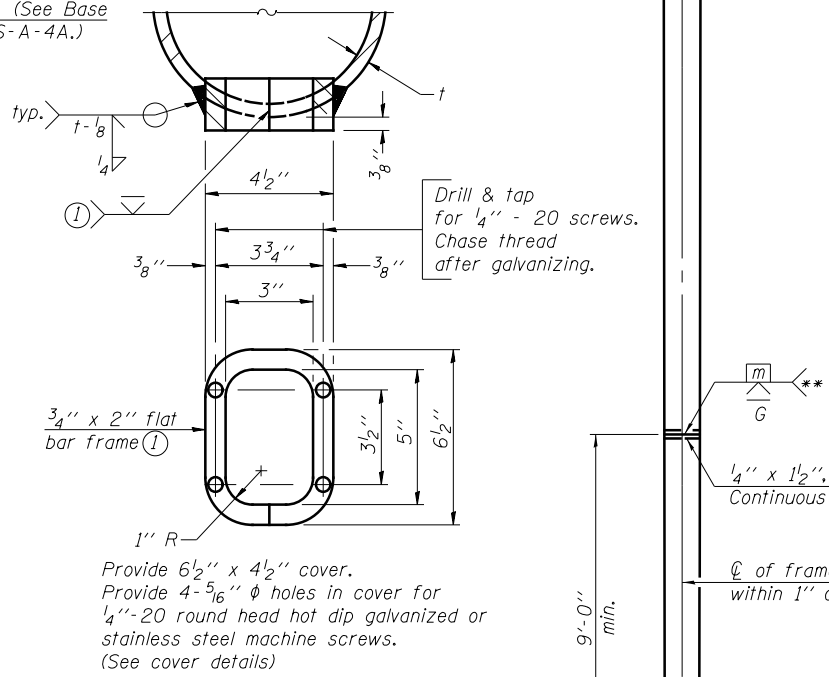
SECTION B-B



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

- ① 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.
- ② 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.
- ③ 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.
- ④ See General Notes for fasteners.
- ⑤ Dimensions shown are based on selection criteria in the Sign Structures Manual. Nonstandard applications must have dimensions verified or amended as appropriate.
- ⑥ "H" based on 15'-0" or actual sign height, whichever is greater.

8" φ PIPE TRUSS SUPPORT FRAME

** One butt welded joint is allowed only on one post per support frame. If used, weld procedure must be pre-approved by Engineer and joint shall receive 100% RT or UT (tension criteria) at Contractor's expense.

OS-A-4

6-1-12

FILE NAME =	USER NAME =	DESIGNED - ESW	REVISED -
		CHECKED - JWS	REVISED -
		DRAWN - PDB	REVISED -
		CHECKED - BRM	REVISED -

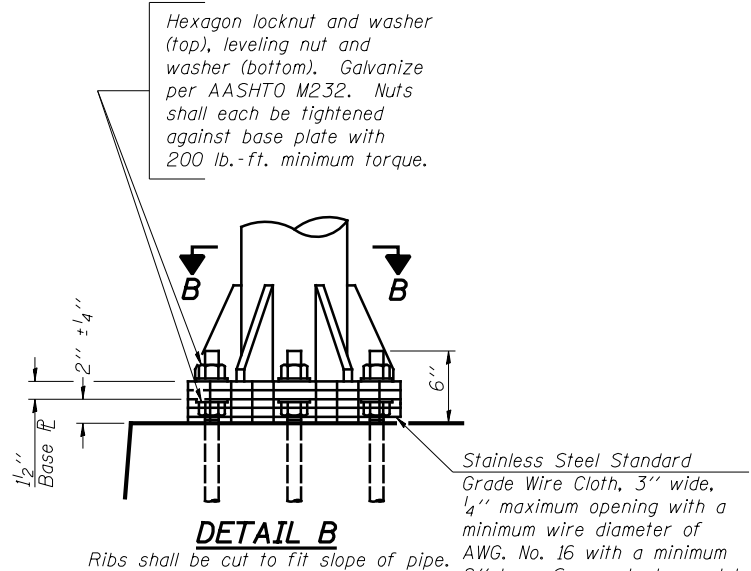
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
SUPPORT FRAME FOR TYPE I-A ALUMINUM TRUSS

SHEET NO. 26 OF 53 SHEETS

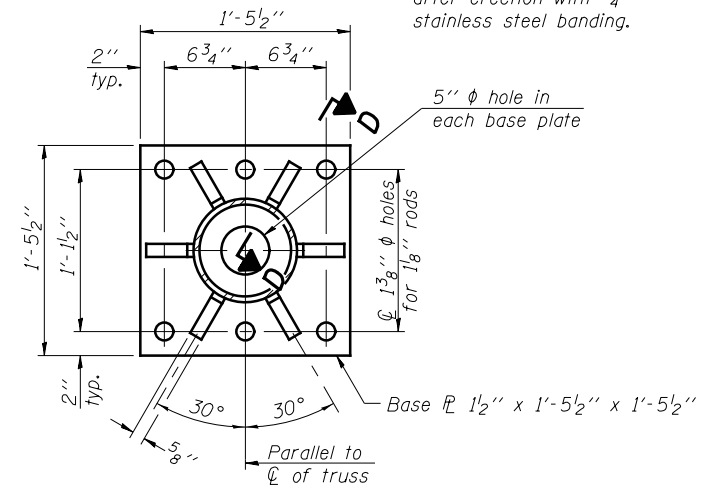
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-4R)	EFFINGHAM	1760	413
CONTRACT NO. 74295				
ILLINOIS FED. AID PROJECT				

Structure Number	Station	Support		H ⑥	A
		Left	Right		
7S025I057R162.7	2326+30		✓	27'-5"	20'-10"
7S025I057R162.7	2326+30	✓		26'-5"	19'-10"
7S025I070L099.1	2412+00		✓	27'-11"	21'-4"
7S025I070L099.1	2412+00	✓		27'-5"	20'-10"

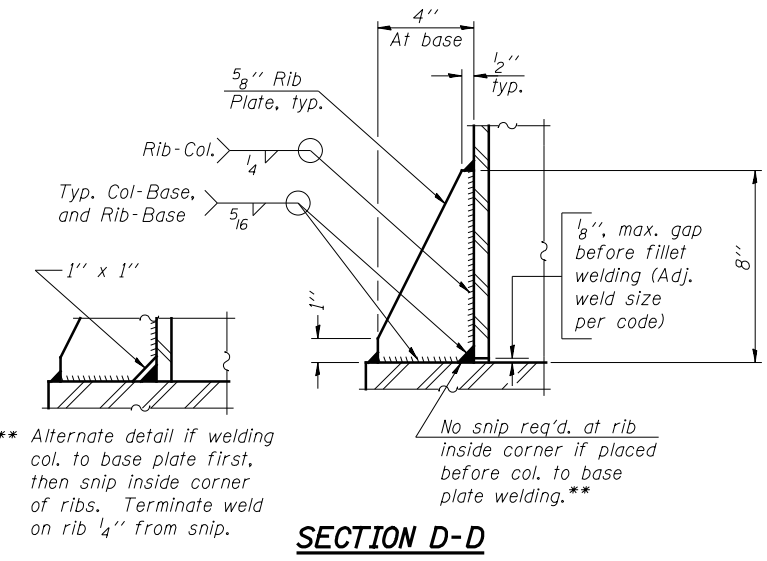


DETAIL B

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.

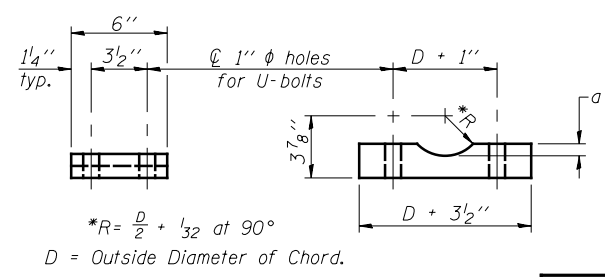


SECTION B-B



SECTION D-D

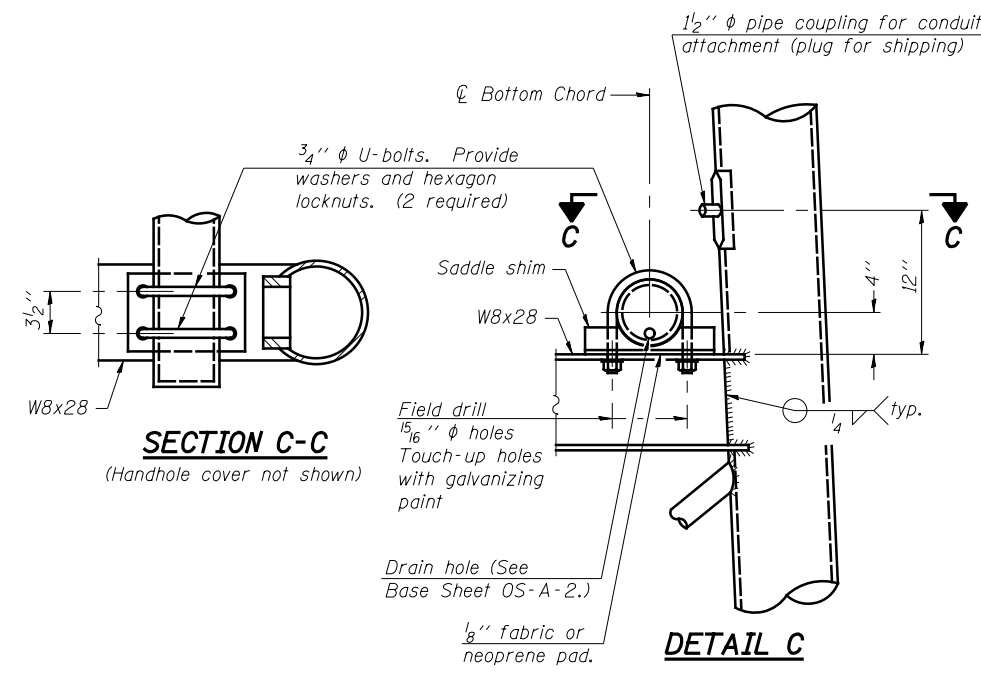
** Alternate detail if welding col. to base plate first, then snip inside corner of ribs. Terminate weld on rib 1/4" from snip.



SADDLE SHIM DETAIL

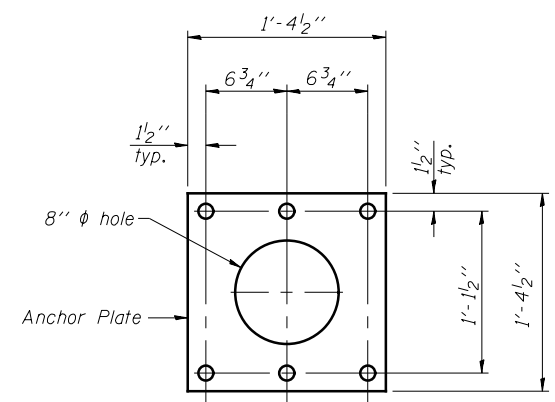
ASTM B26 Alloy 356-F or ASTM B209 Alloy 6061-T651 (4 required per sign truss)

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

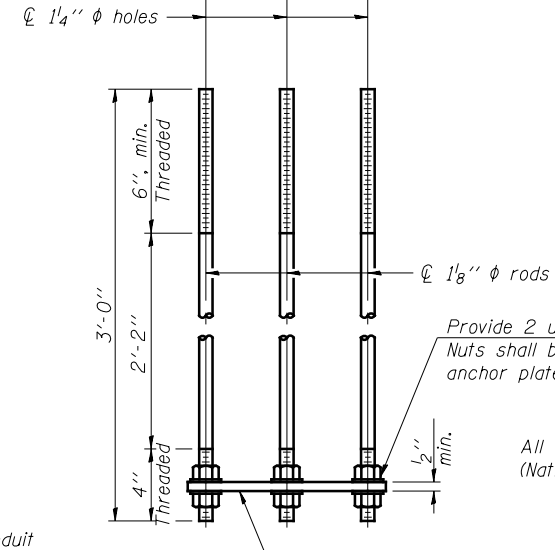


SECTION C-C

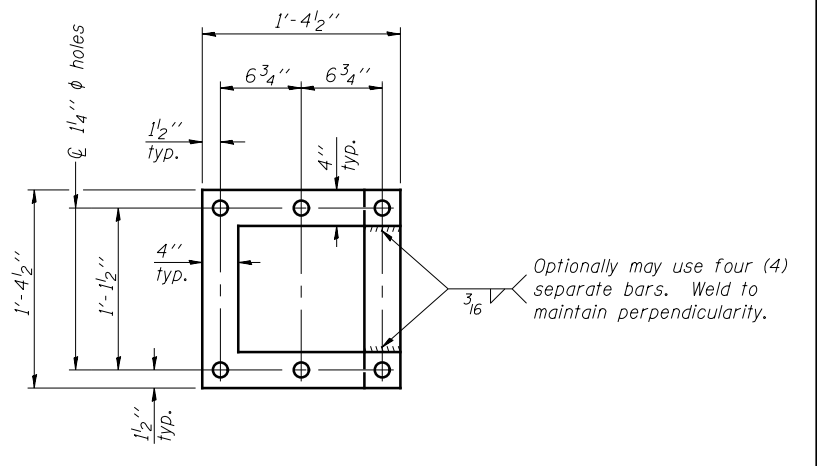
DETAIL C



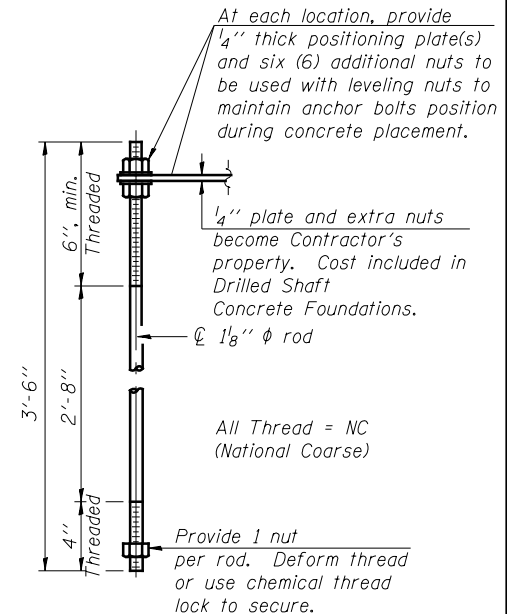
Anchor Plate



ANCHOR ROD DETAIL
Spread Footing Foundation



POSITIONING PLATE(S)



ANCHOR ROD DETAIL
Drilled Shaft Foundation

Anchor rods shall conform to ASTM F1554 Grade 105. Galvanize upper 12" minimum per AASHTO M232. No welding shall be permitted on rods.

TYPE I-A TRUSS
8" PIPE SUPPORT FRAME DETAILS

OS-A-4A

6-1-12

FILE NAME =	USER NAME =	DESIGNED - ESW	REVISED -
		CHECKED - JWS	REVISED -
		DRAWN - PSB	REVISED -
		CHECKED - BRM	REVISED -
PLOT SCALE =			
PLOT DATE =			

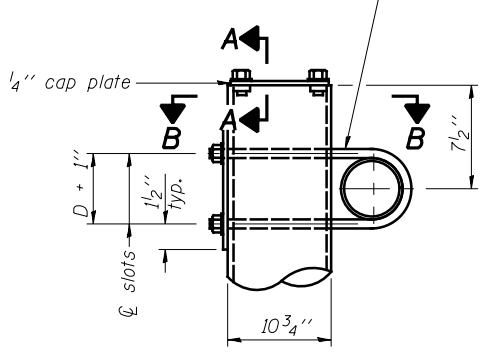
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
SUPPORT FRAME DETAILS - ALUMINUM TRUSS

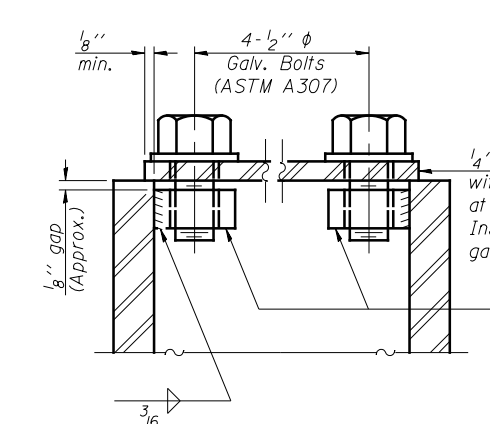
SHEET NO. 27 OF 53 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-4R)	EFFINGHAM	1760	414
CONTRACT NO. 74295				
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)

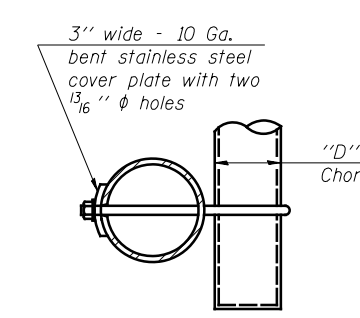


DETAIL A

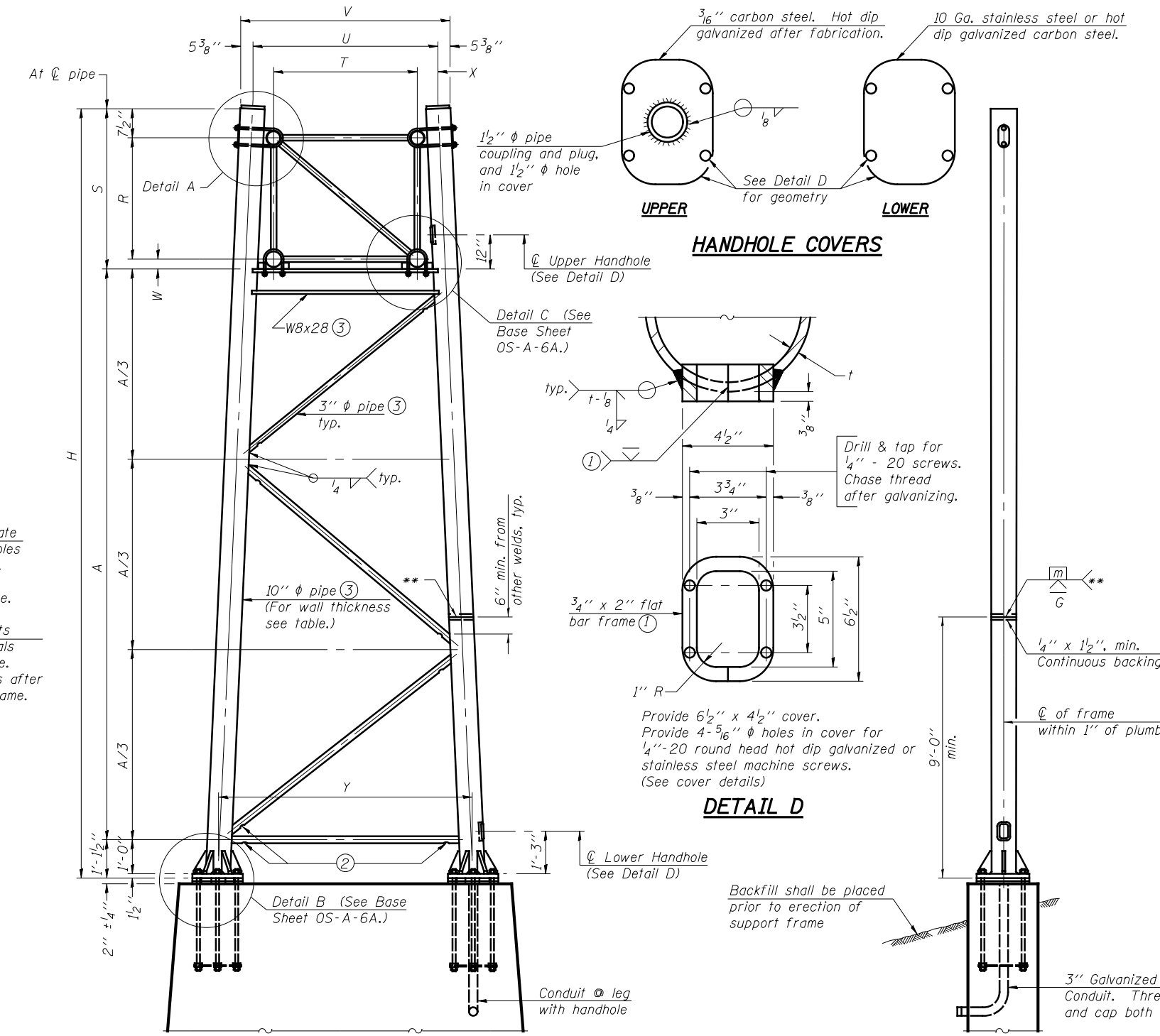


SECTION A-A

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

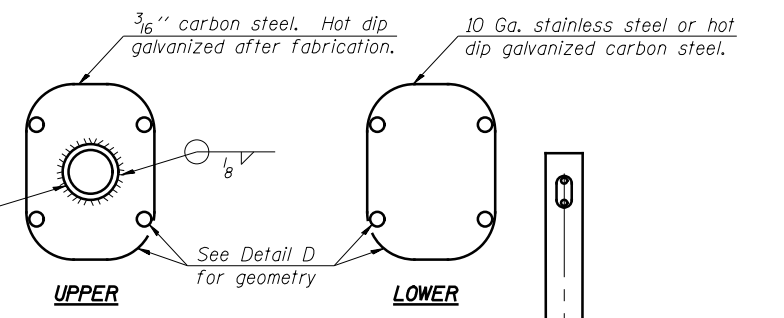


SECTION B-B

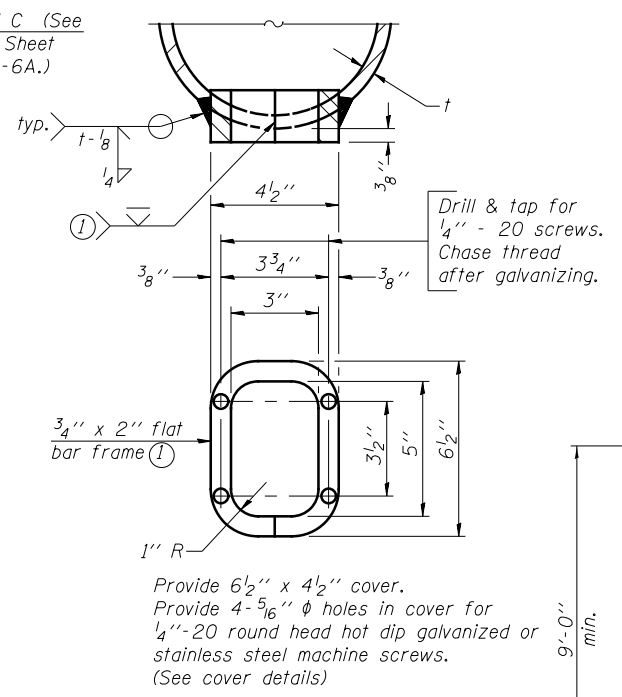


For Foundation Details, see base sheet OS-F3 (Spread Footing) or OS4-F3 (Drilled Shaft).

SIDE ELEVATION

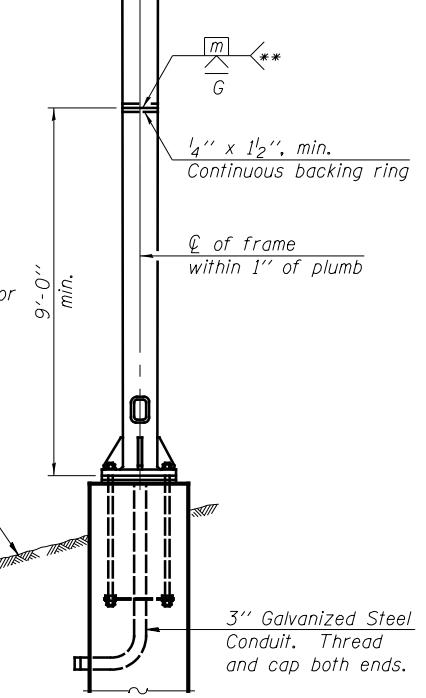


HANDHOLE COVERS



DETAIL D

Backfill shall be placed prior to erection of support frame



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

- ① 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.
- ② 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.
- ③ 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.
- ④ See General Notes for fasteners.
- ⑤ Dimensions shown are based on selection criteria in the Sign Structures Manual. Nonstandard applications must have dimensions verified or amended as appropriate.
- ⑥ "H" based on 15'-0" or actual sign height, whichever is greater.

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"
II-A ⑤	5'-3"	6'-3 1/4"	4'-6"	6'-1"	6'-11 3/4"	4 3/4"	9 1/2"	8'-3"

10" φ PIPE TRUSS SUPPORT FRAME
** One butt welded joint is allowed only on one post per support frame. If used, weld procedure must be pre-approved by Engineer and joint shall receive 100% RT or UT (tension criteria) at Contractor's expense.

OS-A-6

6-1-12

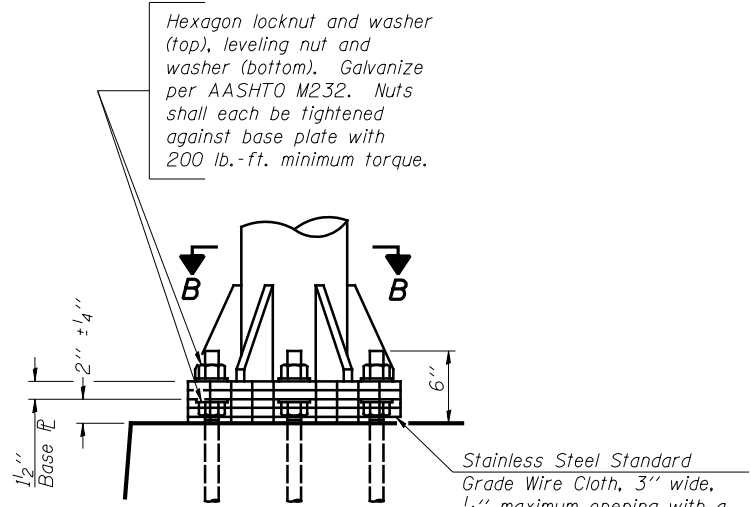
FILE NAME =	USER NAME =	DESIGNED - ESW	REVISED -
		CHECKED - JWS	REVISED -
		DRAWN - PDB	REVISED -
		CHECKED - BRM	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
SUPPORT FRAME FOR ALUMINUM TRUSS

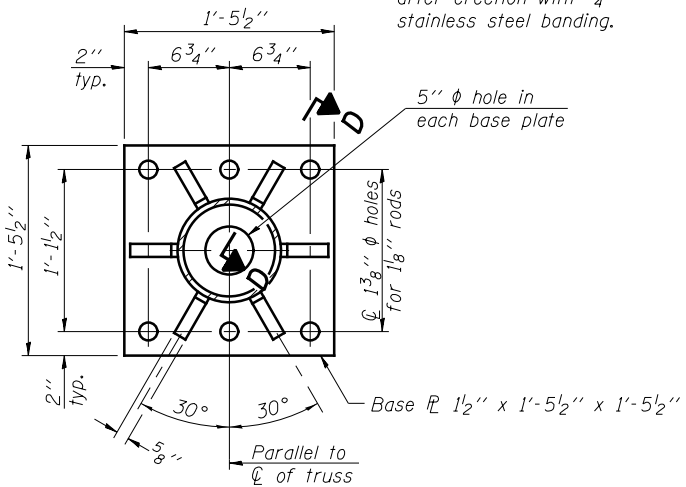
SHEET NO. 28 OF 53 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-4R)	EFFINGHAM	1760	415
CONTRACT NO. 74295			ILLINOIS FED. AID PROJECT	

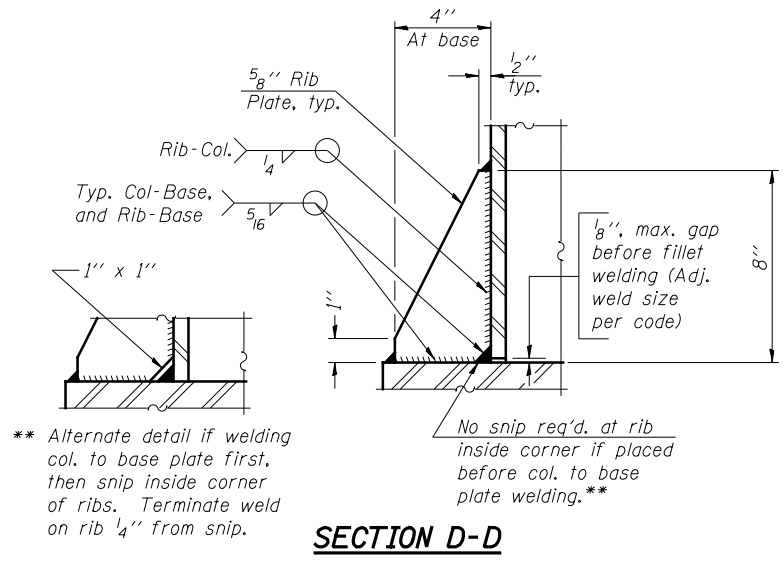


DETAIL B

Ribs shall be cut to fit slope of pipe.

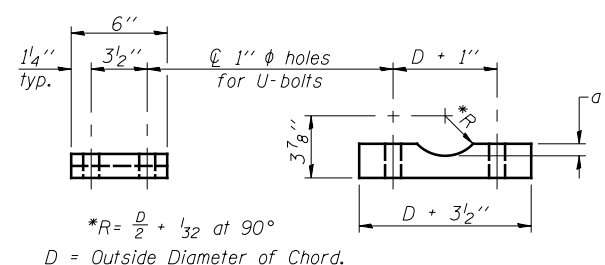


SECTION B-B



SECTION D-D

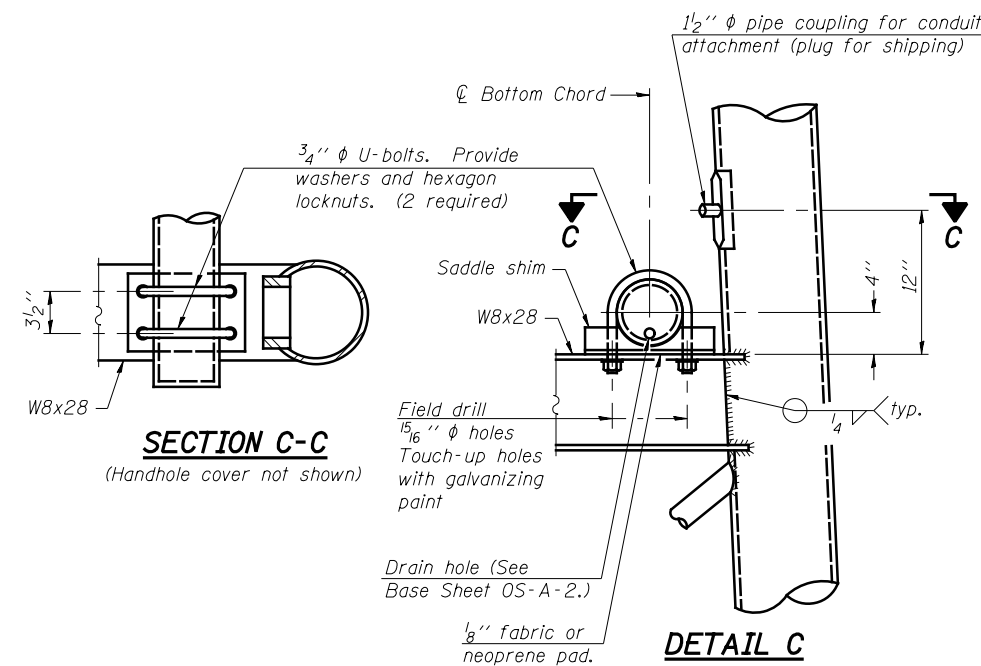
** Alternate detail if welding col. to base plate first, then snip inside corner of ribs. Terminate weld on rib 1/4" from snip.



SADDLE SHIM DETAIL

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

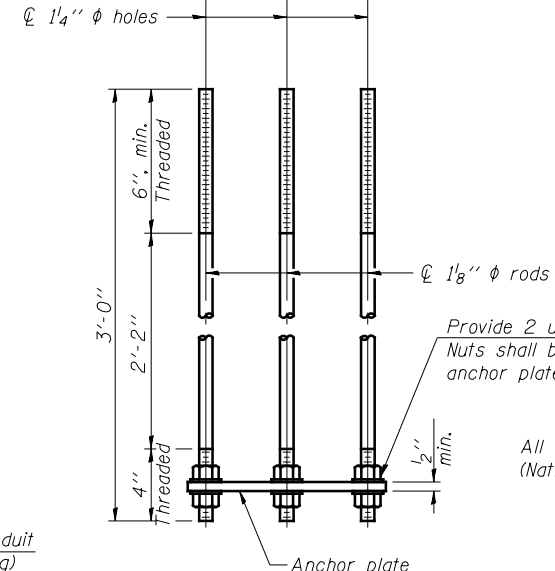
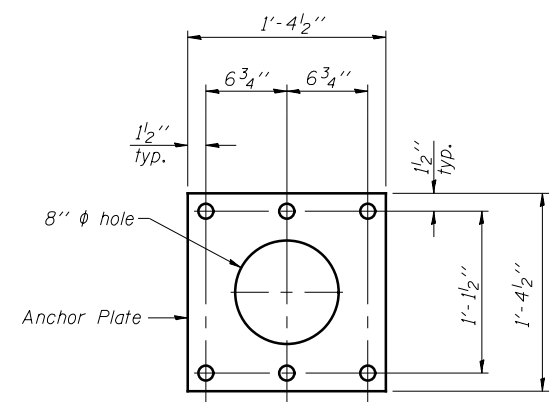
Truss Chord Nominal Dia.	a
5"	3/4"
5 1/2"	13/16"
6"	7/8"
6 1/2"	15/16"



SECTION C-C

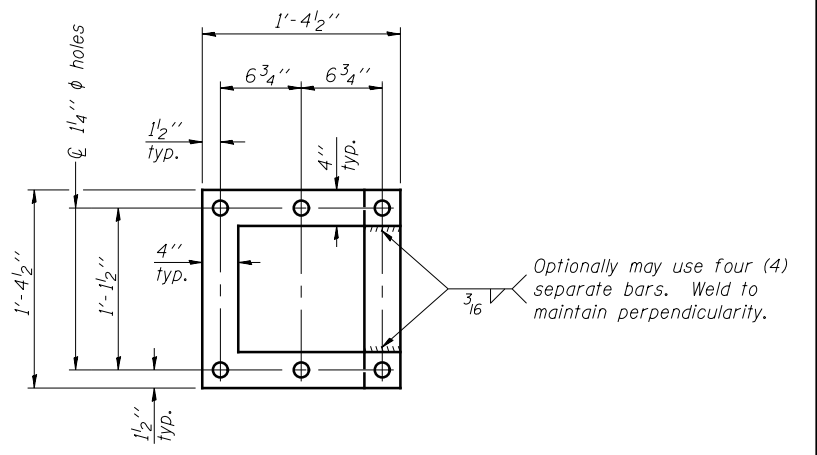
(Handhole cover not shown)

DETAIL C

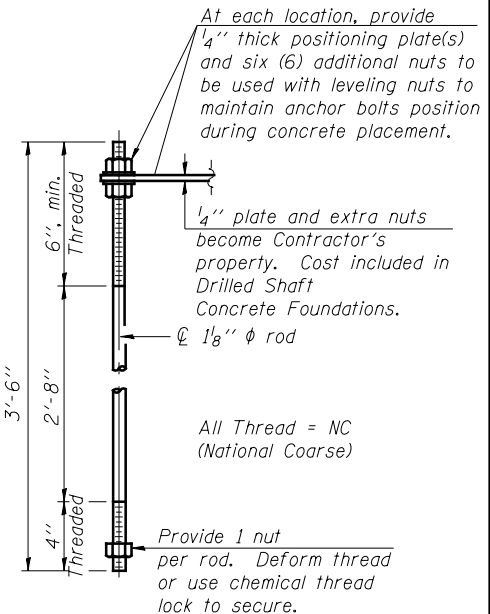


ANCHOR ROD DETAIL

Spread Footing Foundation



POSITIONING PLATE(S)



ANCHOR ROD DETAIL

Drilled Shaft Foundation

Anchor rods shall conform to ASTM F1554 Grade 105. Galvanize upper 12" minimum per AASHTO M232. No welding shall be permitted on rods.

TYPE I-A TRUSS
8" ϕ PIPE SUPPORT FRAME DETAILS

OS-A-4A

6-1-12

FILE NAME =	USER NAME =	DESIGNED - ESW	REVISED -
		CHECKED - JWS	REVISED -
		DRAWN - PDB	REVISED -
		CHECKED - BRM	REVISED -

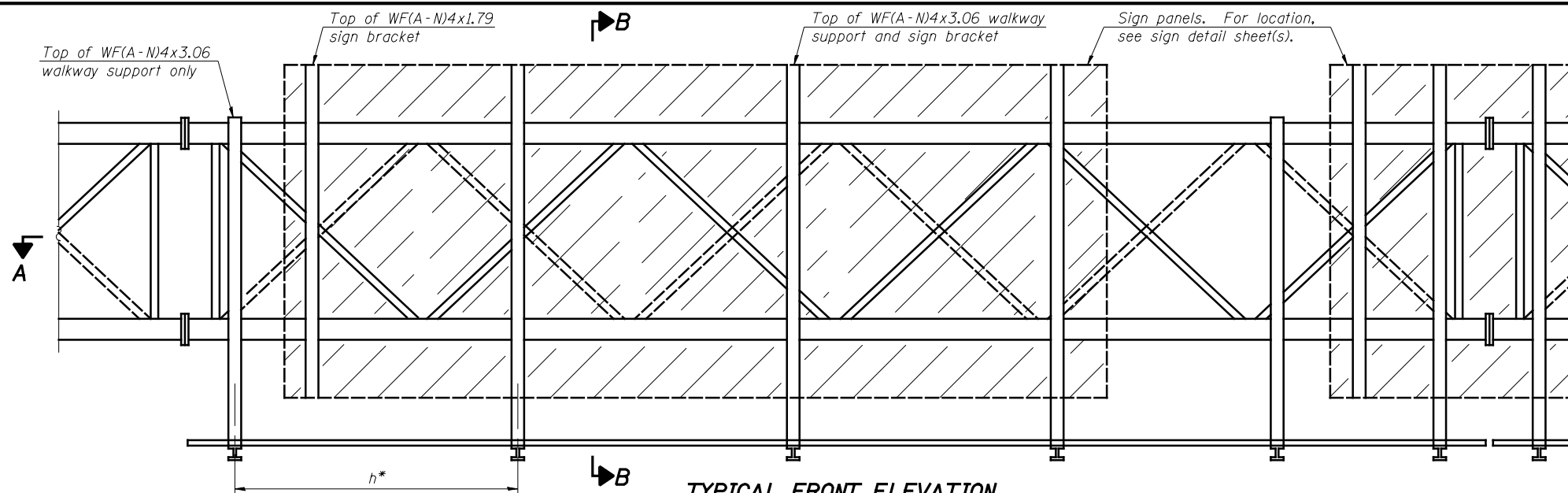
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
SUPPORT FRAME DETAILS - ALUMINUM TRUSS

SHEET NO. 29 OF 53 SHEETS

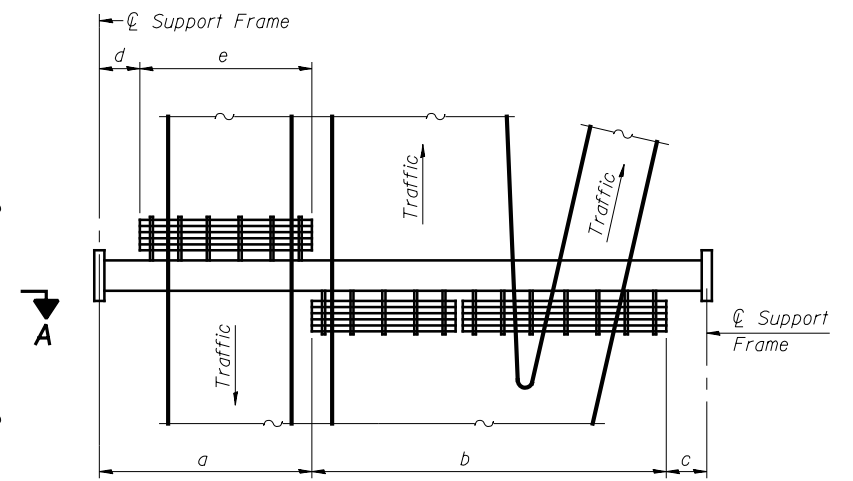
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-4R)	EFFINGHAM	1760	416
CONTRACT NO. 74295				

ILLINOIS FED. AID PROJECT



TYPICAL FRONT ELEVATION

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



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

BRACKET TABLE

WF(A-N)4x1.79 or WF(A-N)4x3.06 ASTM B308, Alloy 6061-T6		
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

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 ϕ of nearest bracket)
g = 12" maximum, 4" minimum (End of walkway grating to ϕ of nearest support bracket)

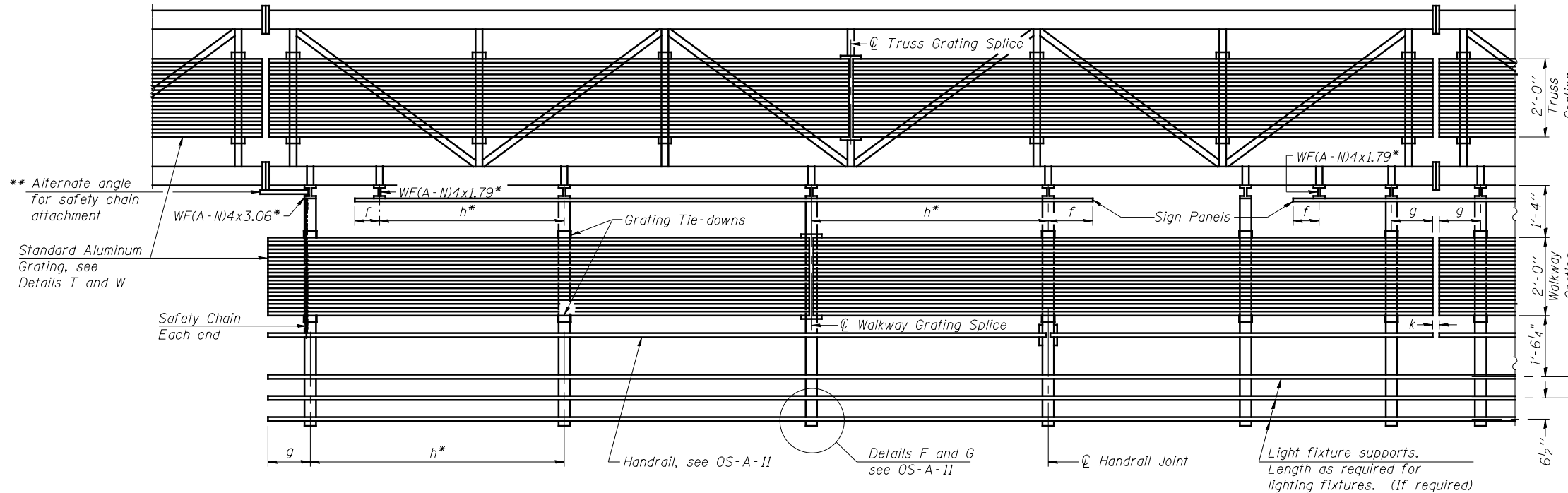
h = 6'-0" maximum (ϕ to ϕ sign and/or walkway support brackets, WF(A-N)4x1.79 or WF(A-N)4x3.06)

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.



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.

Structure Number	Station	a	b	c	d	e	Walkway Grating and Handrail Lengths
7S025I057R162.0	2290+50	16'-0"	57'-0"	13'-0"	-	-	57'-0"
7S025I057R162.7	2326+30	17'-6"	41'-0"	15'-6"	-	-	41'-0"
7S025I057R163.4	2351+00	18'-0"	52'-0"	14'-0"	-	-	52'-0"
7S025I070L098.6	2387+00	18'-0"	41'-0"	18'-0"	-	-	41'-0"
7S025I070L099.1	2412+00	9'-6"	41'-0"	9'-6"	-	-	41'-0"

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

Walkway and Truss Grating width dimensions are nominal and may vary $\pm 1/2"$ based on available standard widths.

OS-A-9

6-1-12

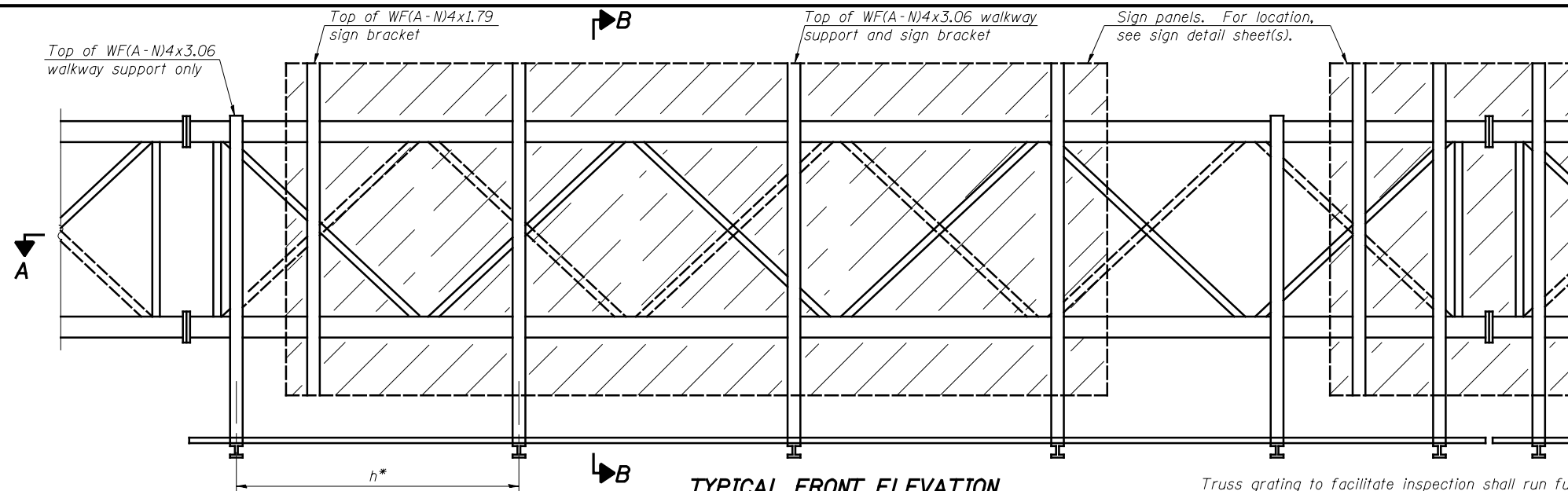
FILE NAME =	USER NAME =	DESIGNED - ESW	REVISED -
		CHECKED - JWS	REVISED -
		DRAWN - PDB	REVISED -
		CHECKED - BRM	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
ALUMINUM WALKWAY DETAILS

SHEET NO. 30 OF 53 SHEETS

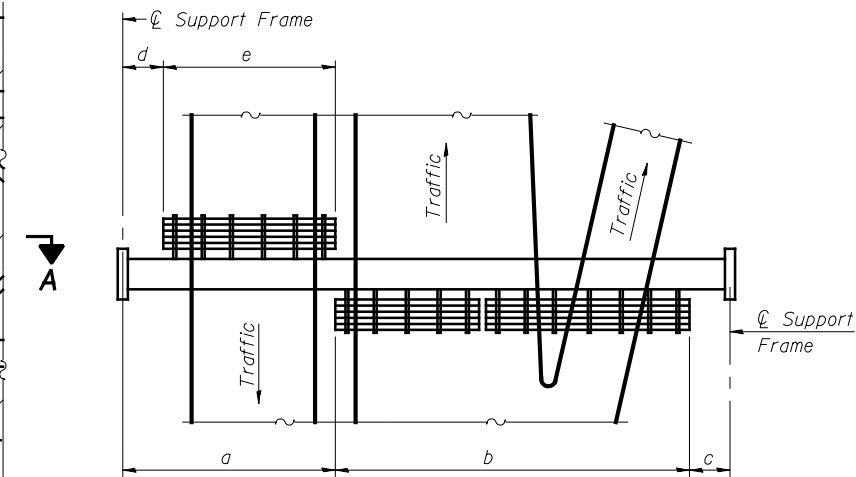
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-4R)	EFFINGHAM	1760	417
CONTRACT NO. 74295				
ILLINOIS FED. AID PROJECT				



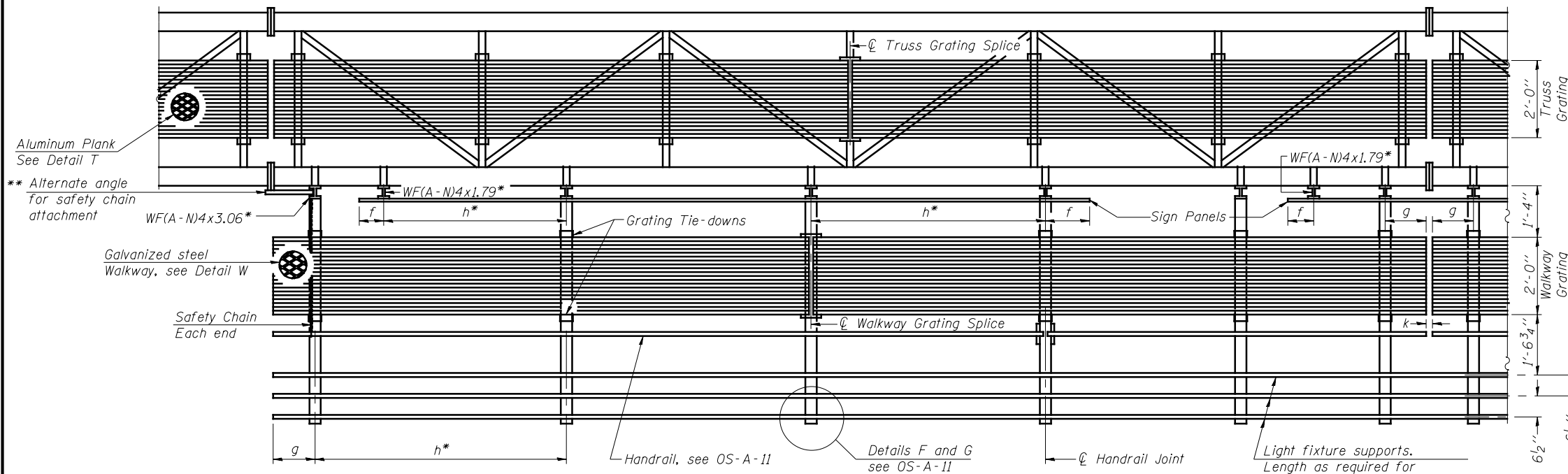
TYPICAL FRONT ELEVATION

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

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".



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



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.

Note: Details shown are considered equal alternatives to the Aluminum Walkway on Base Sheet OS-A-9, and may be substituted by Contractor at no change in contract cost.

Walkway and Truss Grating width dimensions are nominal and may vary ±1/2" based on available standard widths.

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

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
7S0251057R162.0	2290+50	16'-0"	57'-0"	13'-0"	-	-	57'-0"
7S0251057R162.7	2326+30	17'-6"	41'-0"	15'-6"	-	-	41'-0"
7S0251057R163.4	2351+00	18'-0"	52'-0"	14'-0"	-	-	52'-0"
7S0251070L098.6	2387+00	18'-0"	41'-0"	18'-0"	-	-	41'-0"
7S0251070L099.1	2412+00	9'-6"	41'-0"	9'-6"	-	-	41'-0"

OS-A-9S

6-1-12

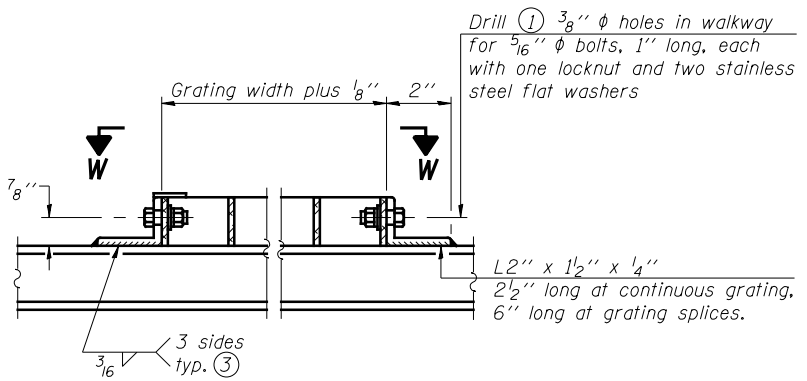
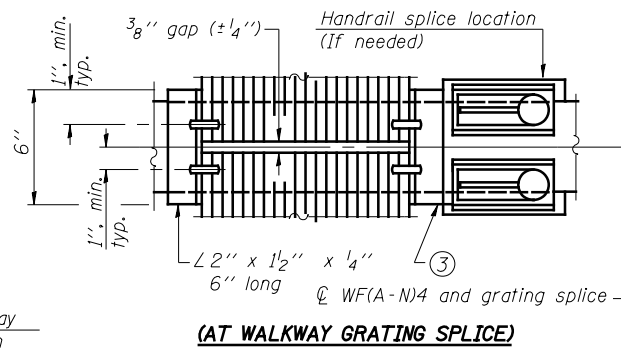
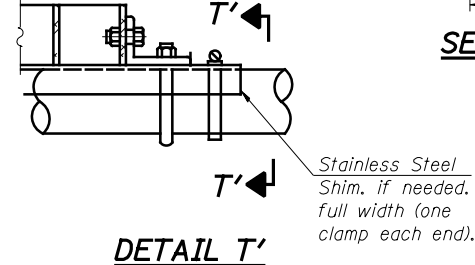
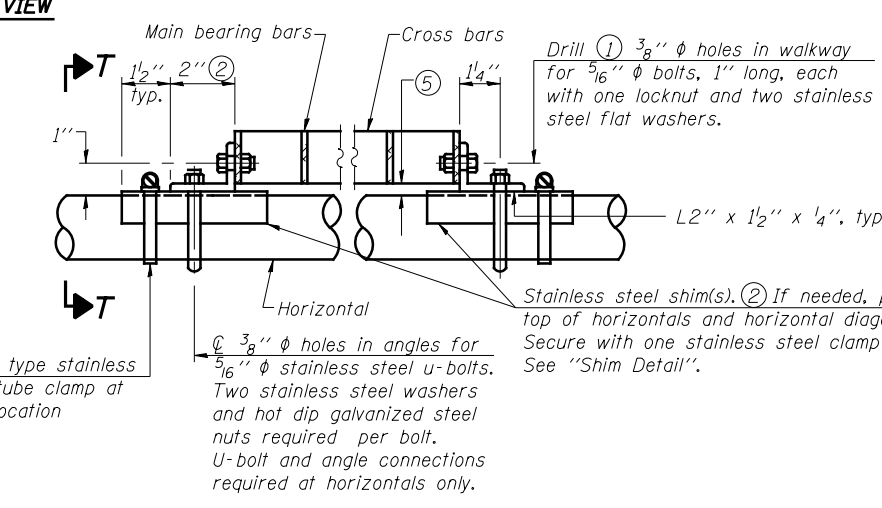
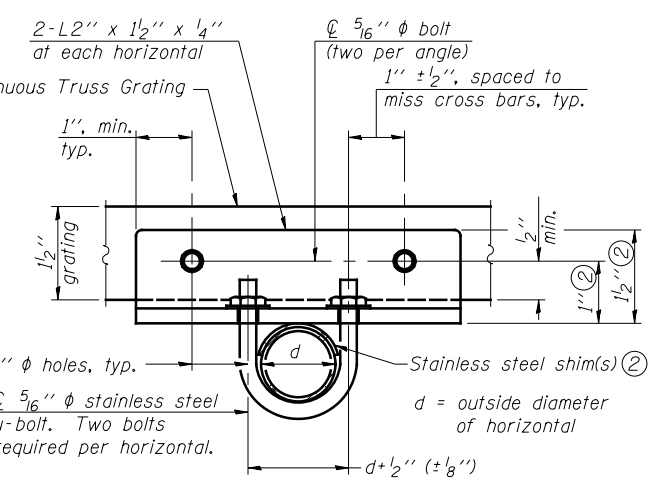
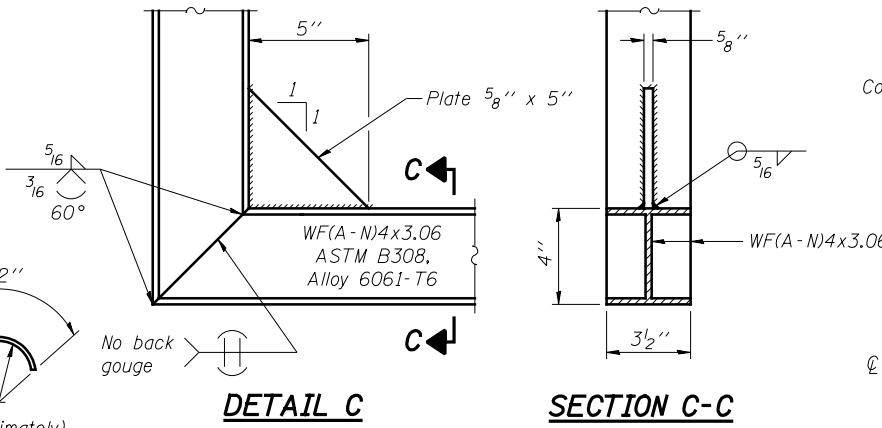
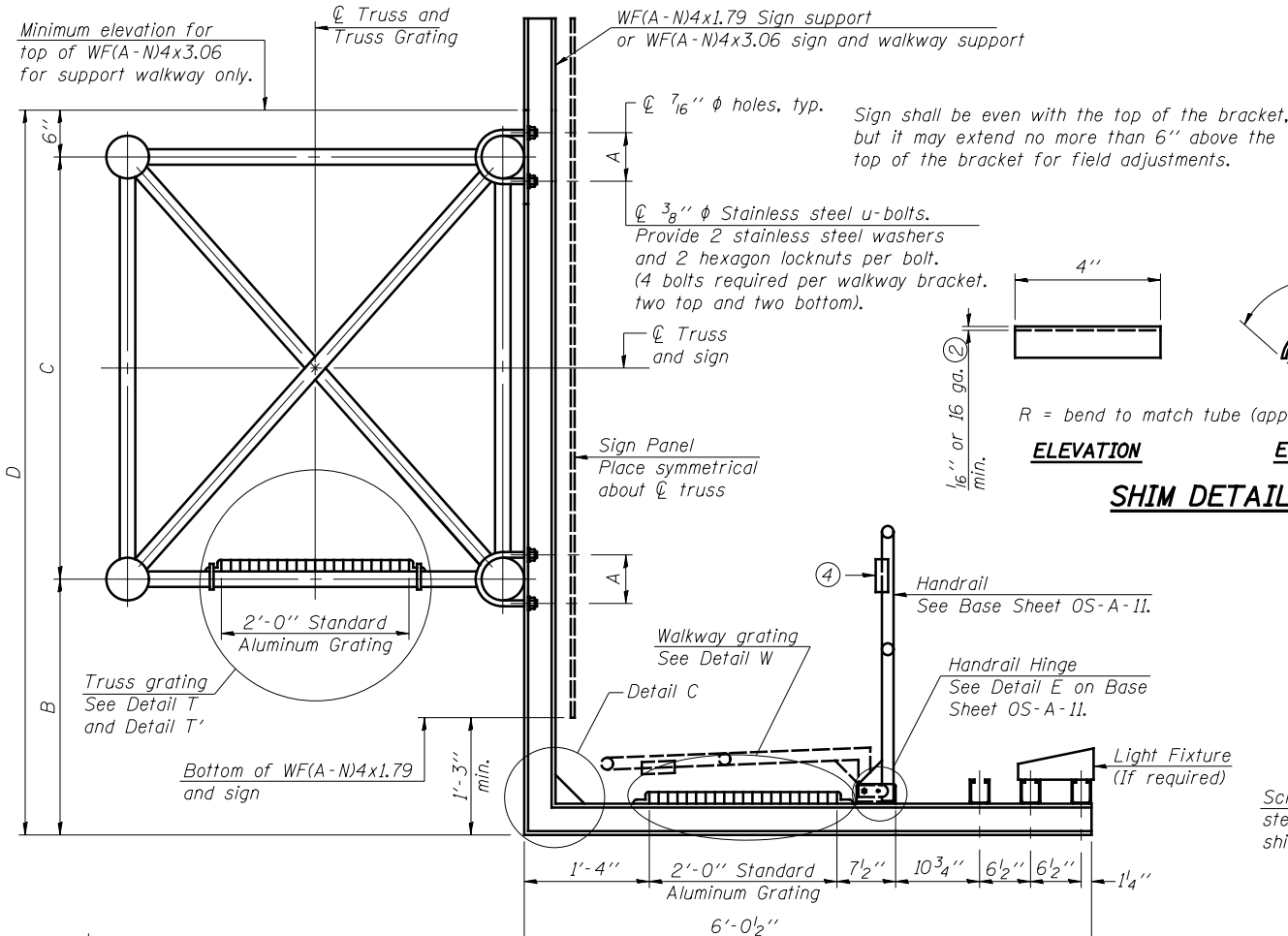
FILE NAME =	USER NAME =	DESIGNED - ESW	REVISIONS -
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		DRAWN - PDB	REVISIONS -
		CHECKED - BRM	REVISIONS -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
ALTERNATE WALKWAY DETAILS

SHEET NO. 31 OF 53 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-4R)	EFFINGHAM	1760	418
CONTRACT NO. 74295			ILLINOIS FED. AID PROJECT	



SPECIFICATIONS FOR STANDARD ALUMINUM GRATING

Main Bearing Bars shall be 3/16" x 1 1/2" on 1 3/16" centers and conform to ASTM B221 Alloy 6061-T6.

Cross bars shall be 3/16" x 1 1/2" on 4" centers and conform to ASTM B221 Alloy 6063-T5 or 6061-T6.

OR

Aluminum Grating with modified "4" sections for main bearing bars shall meet the following requirements:

Main bars shall conform to ASTM B221 Alloy 6061-T6 and have a minimum section modulus equal to 0.0705 in.³ per bar, a depth of 1 1/2", spaced on 1 3/16" centers.

Cross bars shall conform to ASTM B221 Alloy 6063-T5 or T-42 and spaced on 4" centers.

Structure Number	Station	A	⑥ B	C	⑥ D
7S025I057R162.0	2290+50	5 1/2"	6'-6"	4'-6"	11'-6"
7S025I057R162.7	2326+30	5 1/2"	4'-9"	4'-6"	9'-9"
7S025I057R163.4	2351+00	5 1/2"	4'-0"	4'-6"	9'-0"
7S025I070L098.6	2387+00	5 1/2"	4'-6"	4'-6"	9'-6"
7S025I070L099.1	2412+00	5 1/2"	4'-9"	4'-6"	9'-9"

- Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment.
- Stainless steel shims shall be placed as shown in Detail T if needed to compensate for alignment variations between horizontal and diagonal pipes beyond adjustment provided by angles. Thicker shims may be used subject to shims performing properly.
- If Handrail Joint present, weld angle to WF(A-N)4 and 1/4" extension bars. (See Base Sheet OS-A-II.)
- 1/8" x 1/2" x 2" welded to handrail posts to protect locations that contact grating.
- Tube to grating gap may vary from 0 to 1/2", max. to align walkway, allow for camber, etc.
- Based on actual height of tallest sign given on OS-A-1.

OS-A-10

6-1-12

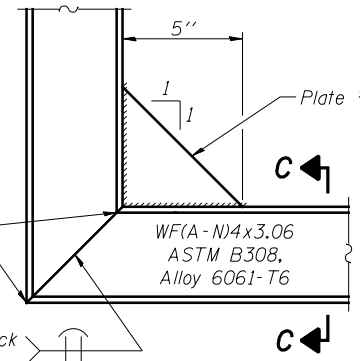
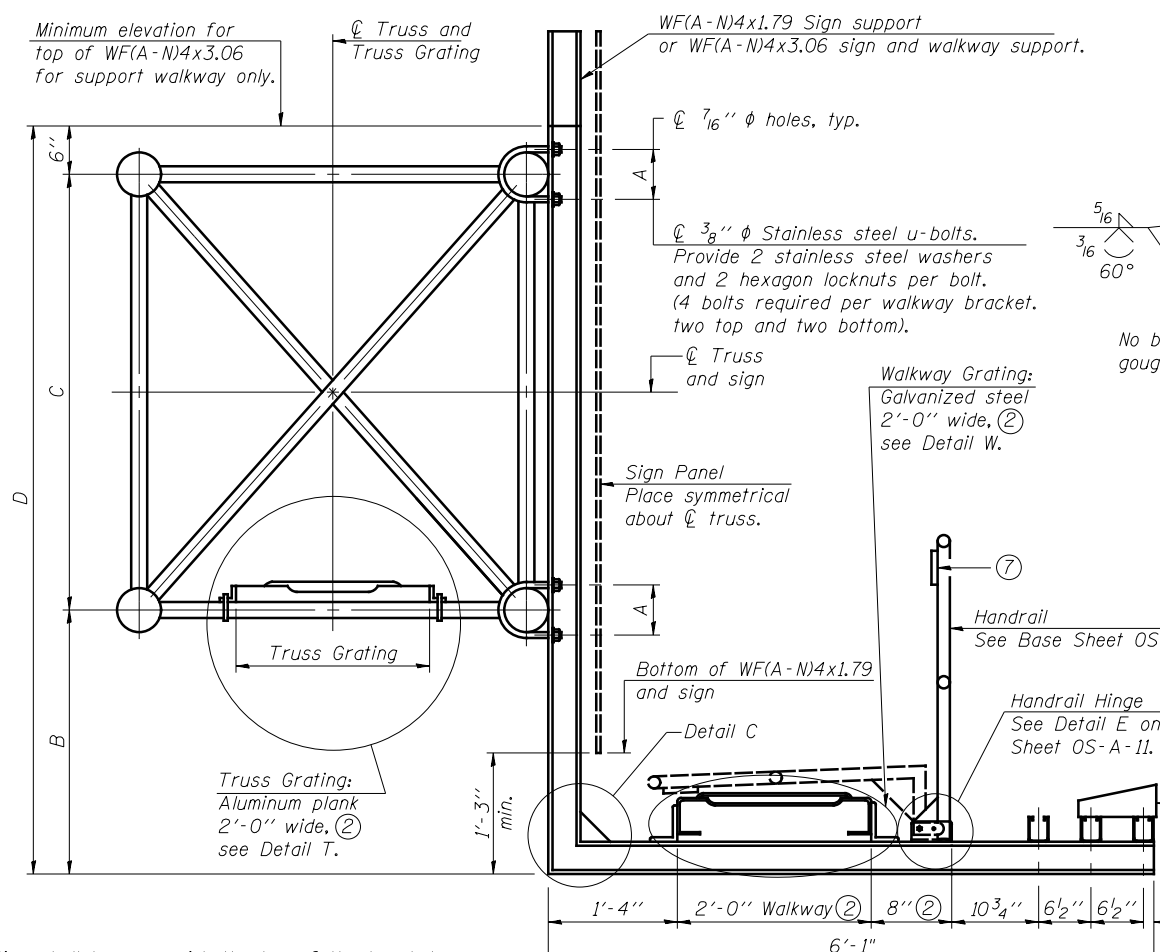
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

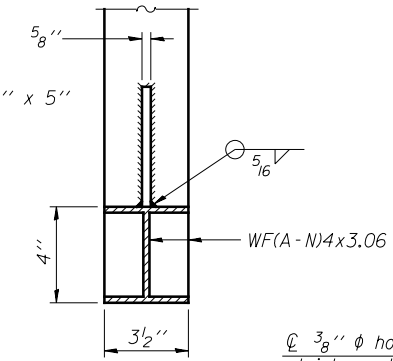
OVERHEAD SIGN STRUCTURES
ALUMINUM WALKWAY DETAILS

SHEET NO. 32 OF 53 SHEETS

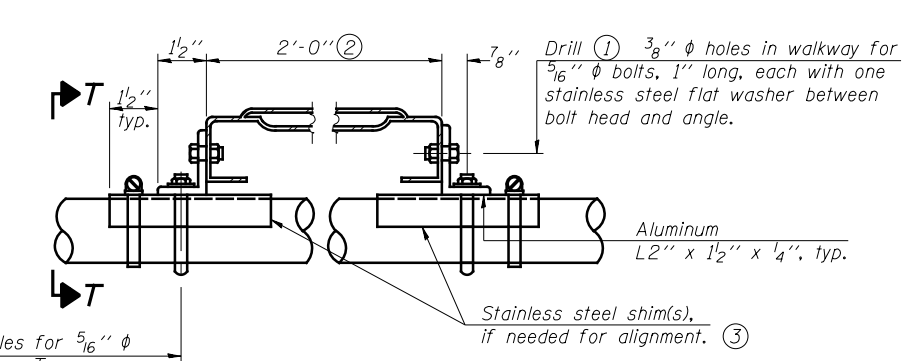
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-4R)	EFFINGHAM	1760	419
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74295	



DETAIL C

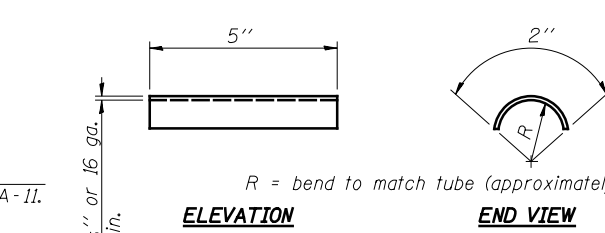


SECTION C-C

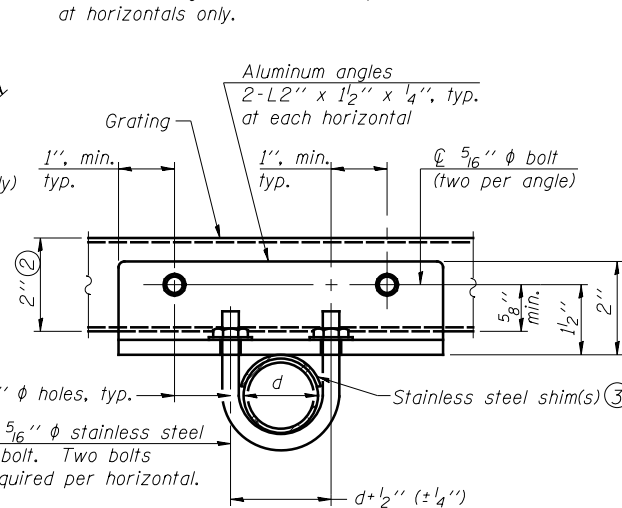


DETAIL T

(Truss grating at horizontal)



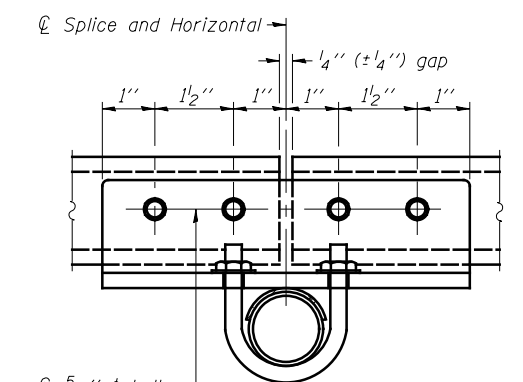
SHIM DETAIL



SECTION T-T

(Truss Grating Continuous)

d = outside diameter of horizontal



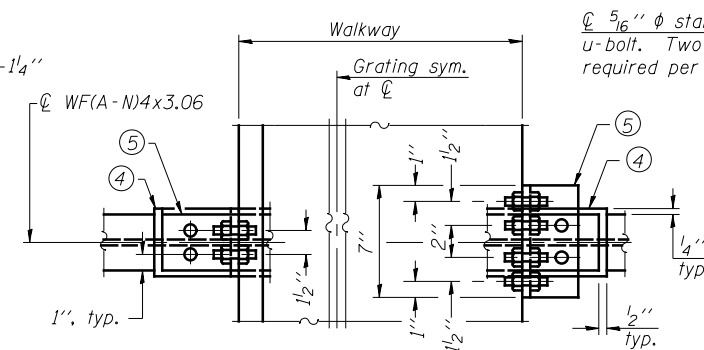
SECTION T-T

(Truss Grating Splice)

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

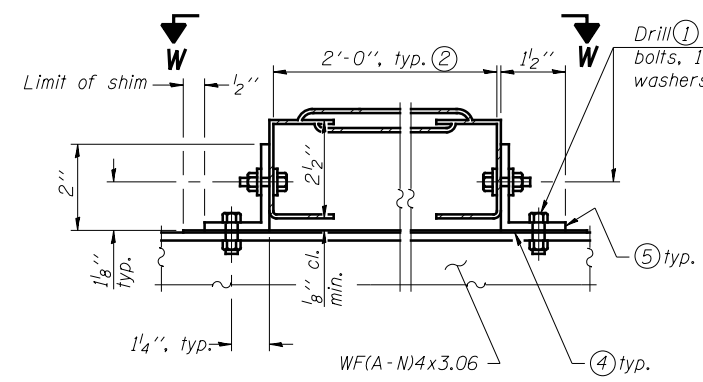
Sign shall be even with the top of the bracket, but it may extend no more than 6" above the top of the bracket for field adjustments.

SECTION B-B



WALKWAY GRATING CONTINUOUS AT WALKWAY GRATING SPLICE

SECTION W-W



DETAIL W
GALVANIZED STEEL WALKWAY GRATING

- (1) Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment.
- (2) 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 ± 2", depth ± 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.
- (3) 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.
- (4) 1/16" (or 16 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.
- (5) Galvanized steel L2" x 2" x 1/4", 3 1/2" long with continuous grating, 7" long at grating splice.
- (6) 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.
- (7) 1/8" x 1/2" x 2" welded to handrail posts to protect locations that contact grating.
- (8) Based on actual height of tallest sign given on OS-A-1.

ALUMINUM TRUSS GRATING

Structure Number	Station	A	(8) B	C	(8) D
7S025I057R162.0	2290+50	5 1/2"	6'-6"	4'-6"	11'-6"
7S025I057R162.7	2326+30	5 1/2"	4'-9"	4'-6"	9'-9"
7S025I057R163.4	2351+00	5 1/2"	4'-0"	4'-6"	9'-0"
7S025I070L098.6	2387+00	5 1/2"	4'-6"	4'-6"	9'-6"
7S025I070L099.1	2412+00	5 1/2"	4'-9"	4'-6"	9'-9"

OS-A-10S

6-1-12

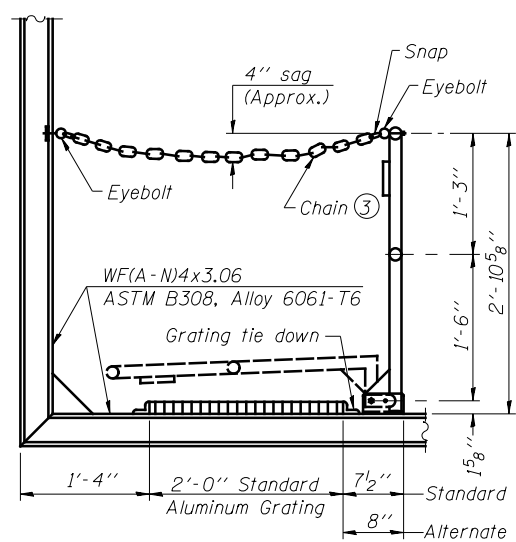
FILE NAME =	USER NAME =	DESIGNED - ESW	REVISED -
		CHECKED - JWS	REVISED -
		DRAWN - PDB	REVISED -
		CHECKED - BRM	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
ALTERNATE WALKWAY DETAILS

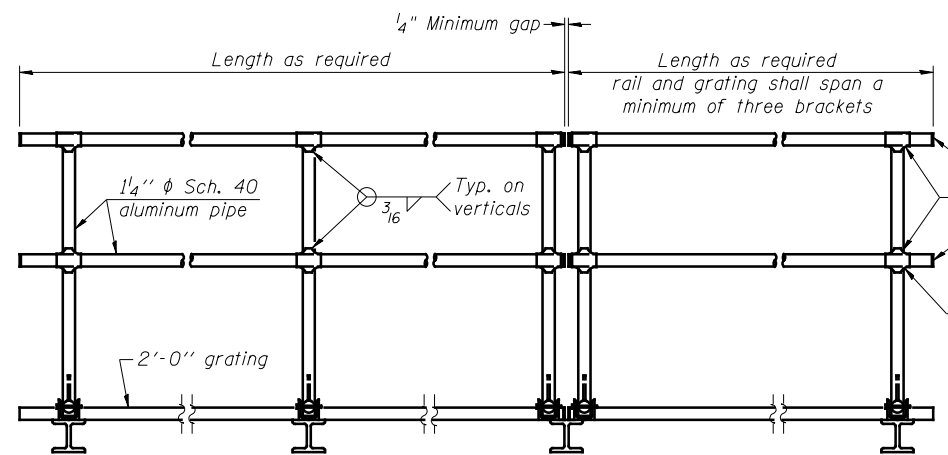
SHEET NO. 33 OF 53 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-4R)	EFFINGHAM	1760	420
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74295	



SIDE ELEVATION

(Showing safety chain w/o sign)

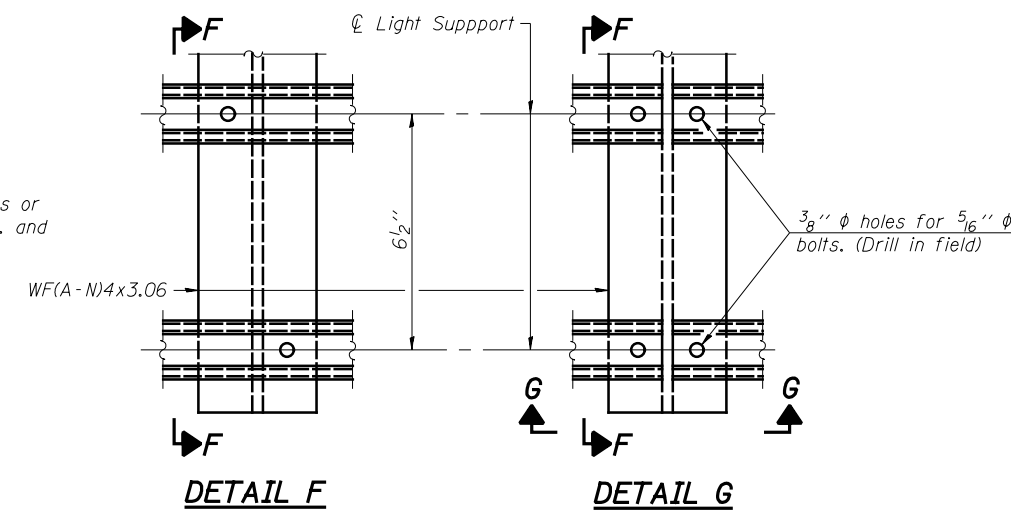


FRONT ELEVATION

HANDRAIL DETAILS

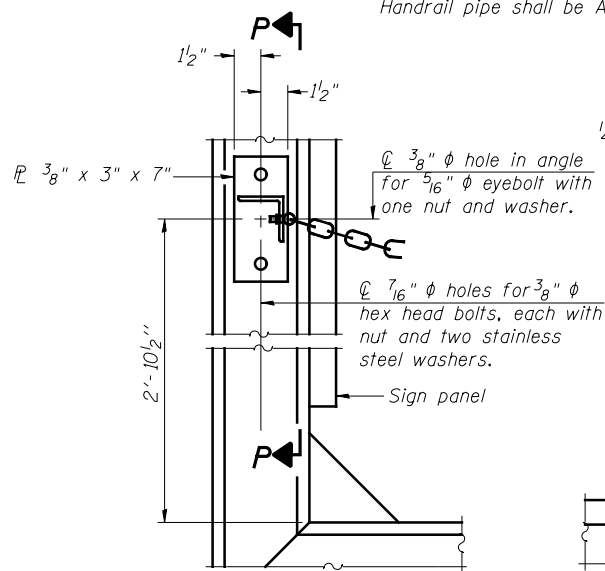
Handrail pipe shall be ASTM B241 or B429, Alloy 6063-T6 or Alloy 6061-T6.

- 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 7/16" Ø hole in fitting for 3/8" Ø bolt. Field drill 7/16" Ø hole in horizontal rail member. Provide locknut and two stainless steel washers for bolt. (Use 5/16" eyebolts in 7/16" Ø holes on top rail at ends only.)



DETAIL F

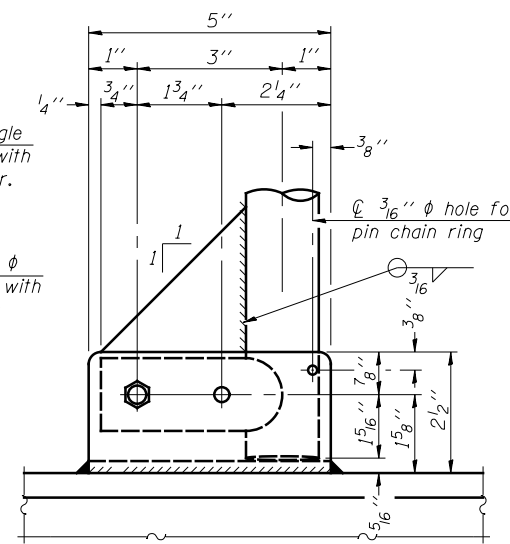
DETAIL G



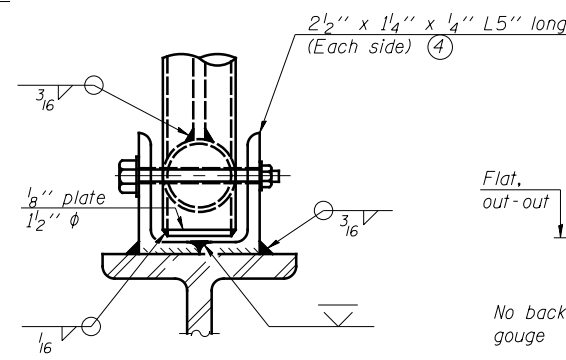
ALTERNATE SAFETY CHAIN ATTACHMENT

(With Sign Present)

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



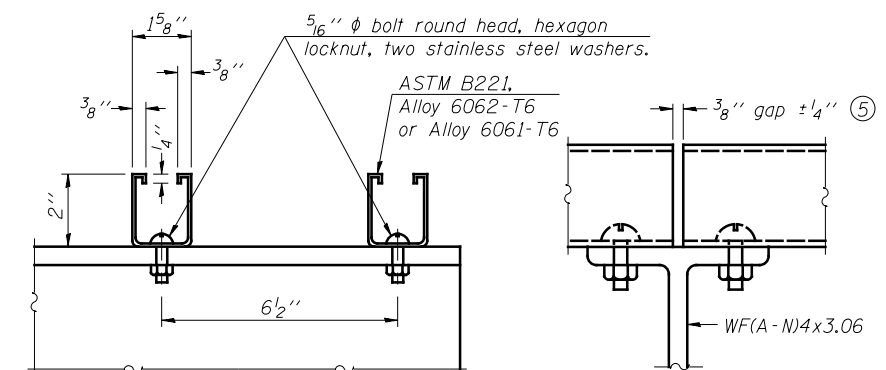
SIDE ELEVATION



FRONT ELEVATION

See "Elevation" at right for dimensions.

ELEVATION AT HANDRAIL JOINT ④

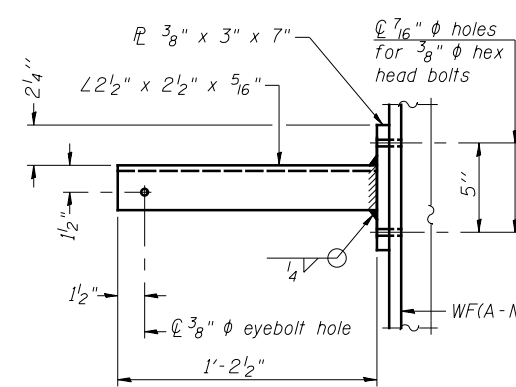


SECTION F-F

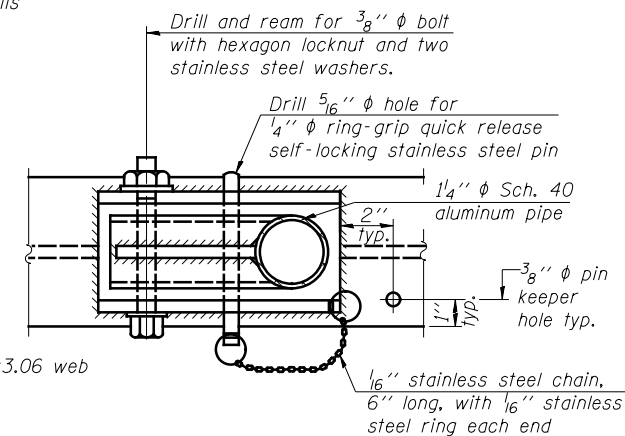
SECTION G-G

LIGHTING FIXTURE MOUNTS (IF REQUIRED)

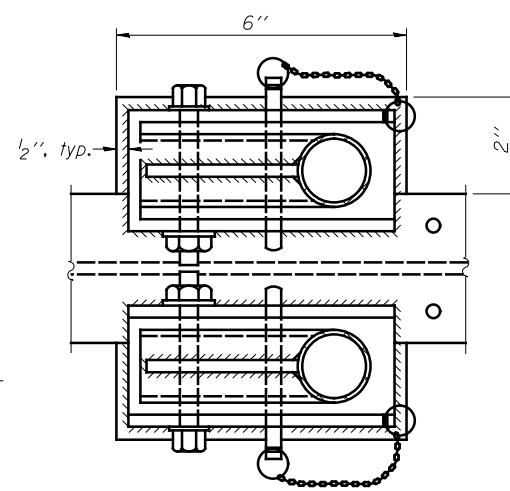
- ⑤ Field cut ends of light support channels shall be free of burrs or hazardous projections and coated with zinc-rich primer or equivalent.



SECTION P-P

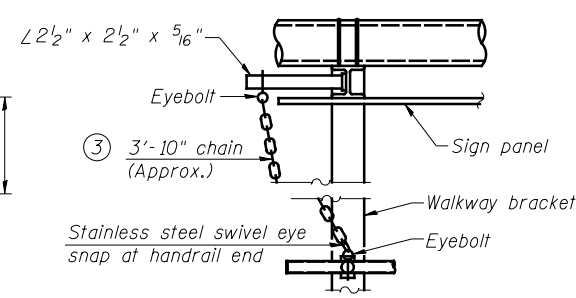


PLAN DETAIL E HANDRAIL HINGE



PLAN AT HANDRAIL JOINT

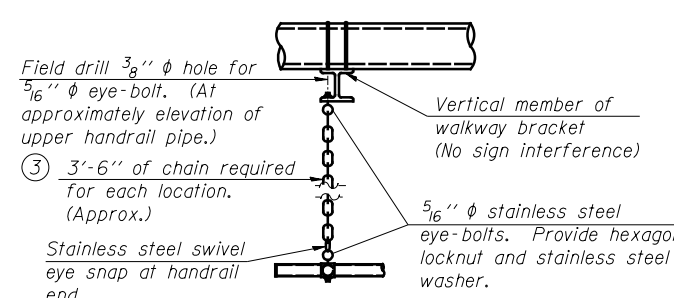
Details not shown same as "PLAN"



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.



SAFETY CHAIN

One required for each end of each walkway.

OS-A-11

6-1-12

FILE NAME =	USER NAME =	DESIGNED - ESW	REVISED -
		CHECKED - JWS	REVISED -
	PLOT SCALE =	DRAWN - PDB	REVISED -
	PLOT DATE =	CHECKED - BRM	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
ALUMINUM HANDRAIL DETAILS

SHEET NO. 34 OF 53 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-4R)	EFFINGHAM	1760	421
CONTRACT NO. 74295			ILLINOIS FED. AID PROJECT	

BAR LIST - EACH FOUNDATION

Bar	Number	Size	Length	Shape
v4(E)	16	#9	F less 5"	—
#4 bar spiral (E) - see Side Elevation				

NOTES:

The foundation dimensions shown are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Qu) of at least 1.25 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.

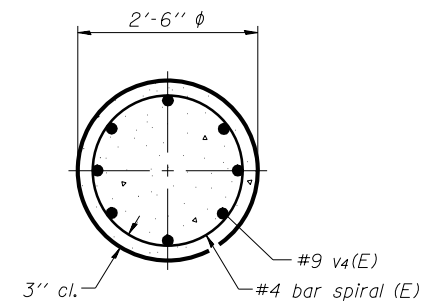
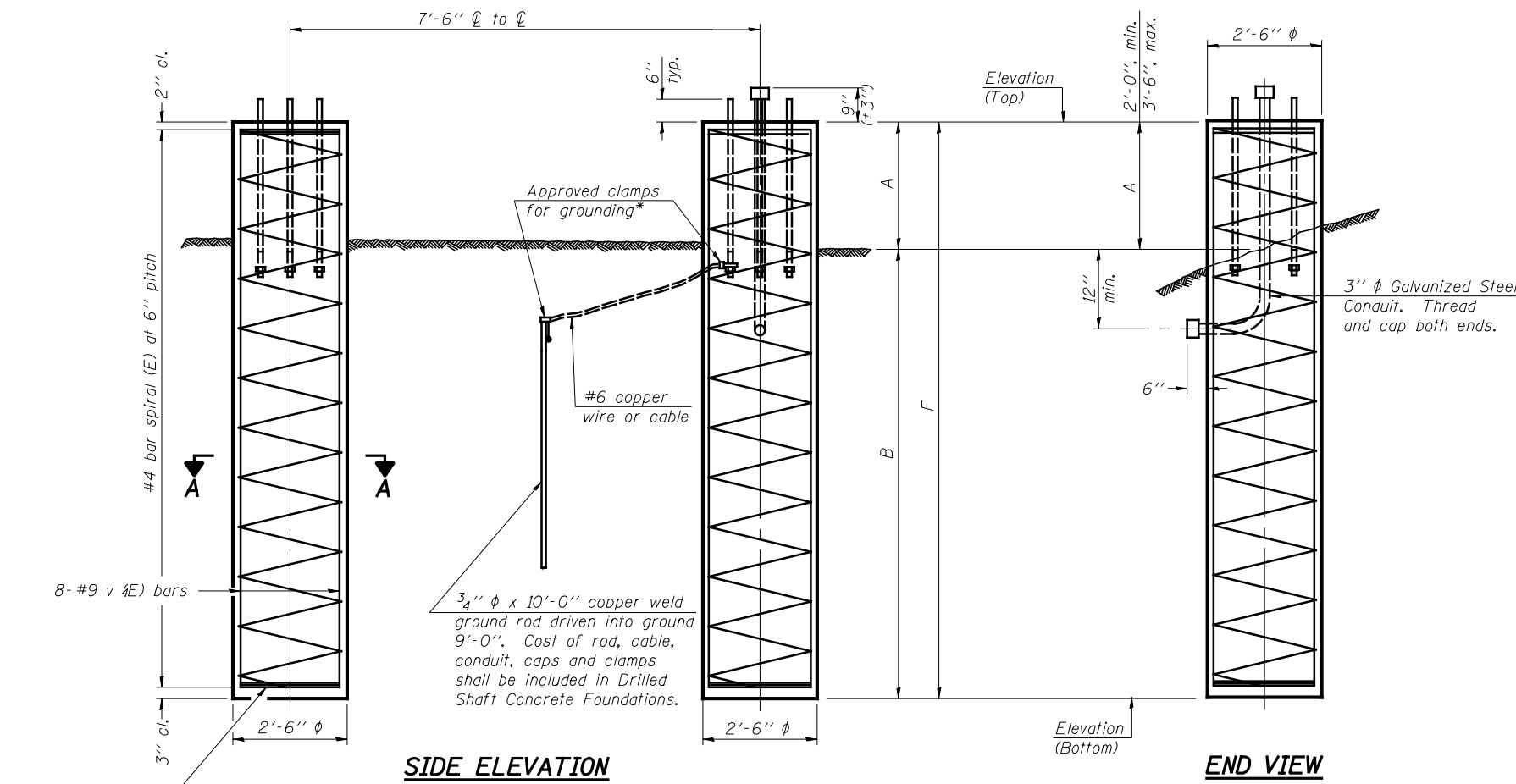
If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.

No sonotubes or decomposable forms shall be used below the lower conduit entrance. Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.

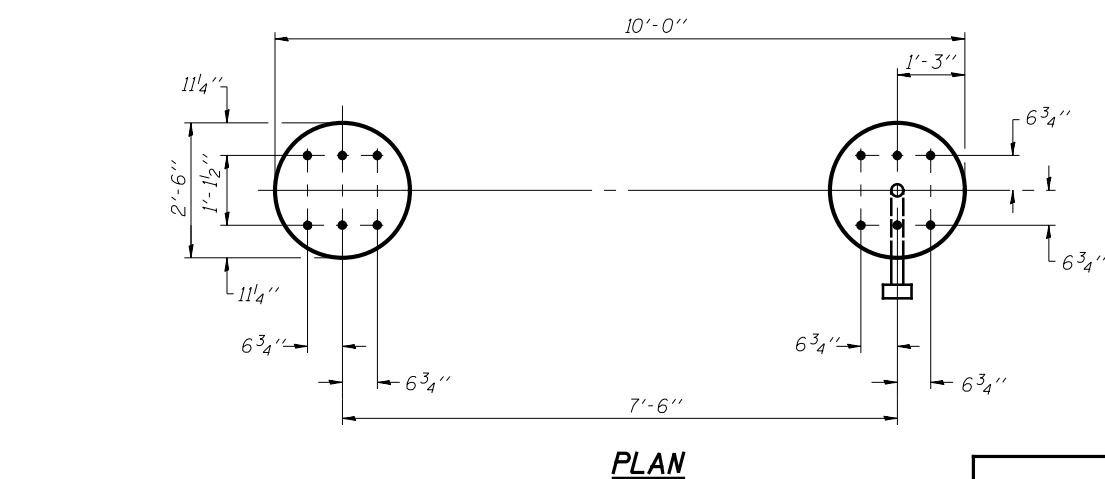
Concrete shall be placed monolithically, without construction joints.

Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.

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 Drilled Shaft Concrete Foundation.



SECTION A-A



PLAN

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.

**DETAILS FOR 8" Ø SUPPORT FRAME
TYPE I-A TRUSS**

Structure Number	Station	Left Foundation					Right Foundation					Class DS Concrete (Cu. Yds.)
		Elevation Top	Elevation Bottom	A	B	F	Elevation Top	Elevation Bottom	A	B	F	
7S025I057R162.7	2326+30	-	-	-	-	-	603.03	585.53	3'-0"	14'-6"	17'-6"	6.4
7S025I070L099.1	2412+00	607.43	590.93	3'-0"	13'-6"	16'-6"	606.93	590.43	3'-0"	13'-6"	16'-6"	12.0

OS4-F2

6-1-12

FILE NAME =	USER NAME =	DESIGNED - ESW	REVISED -
		CHECKED - JWS	REVISED -
		DRAWN - PDB	REVISED -
		CHECKED - BRM	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
DRILLED SHAFT DETAILS

SHEET NO. 35 OF 53 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-4R)	EFFINGHAM	1760	422
CONTRACT NO. 74295			ILLINOIS FED. AID PROJECT	

BAR LIST - EACH FOUNDATION

Bar	Number	Size	Length	Shape
v4(E)	24	#9	F less 5"	—
#4 bar spiral (E) - see Side Elevation				

NOTES:

The foundation dimensions shown are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Qu) of at least 1.25 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.

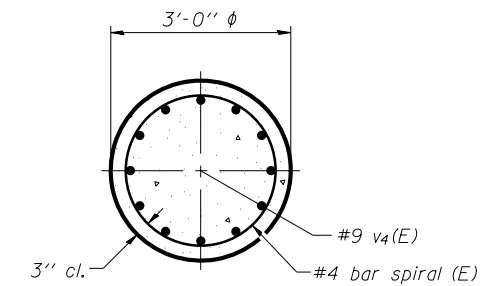
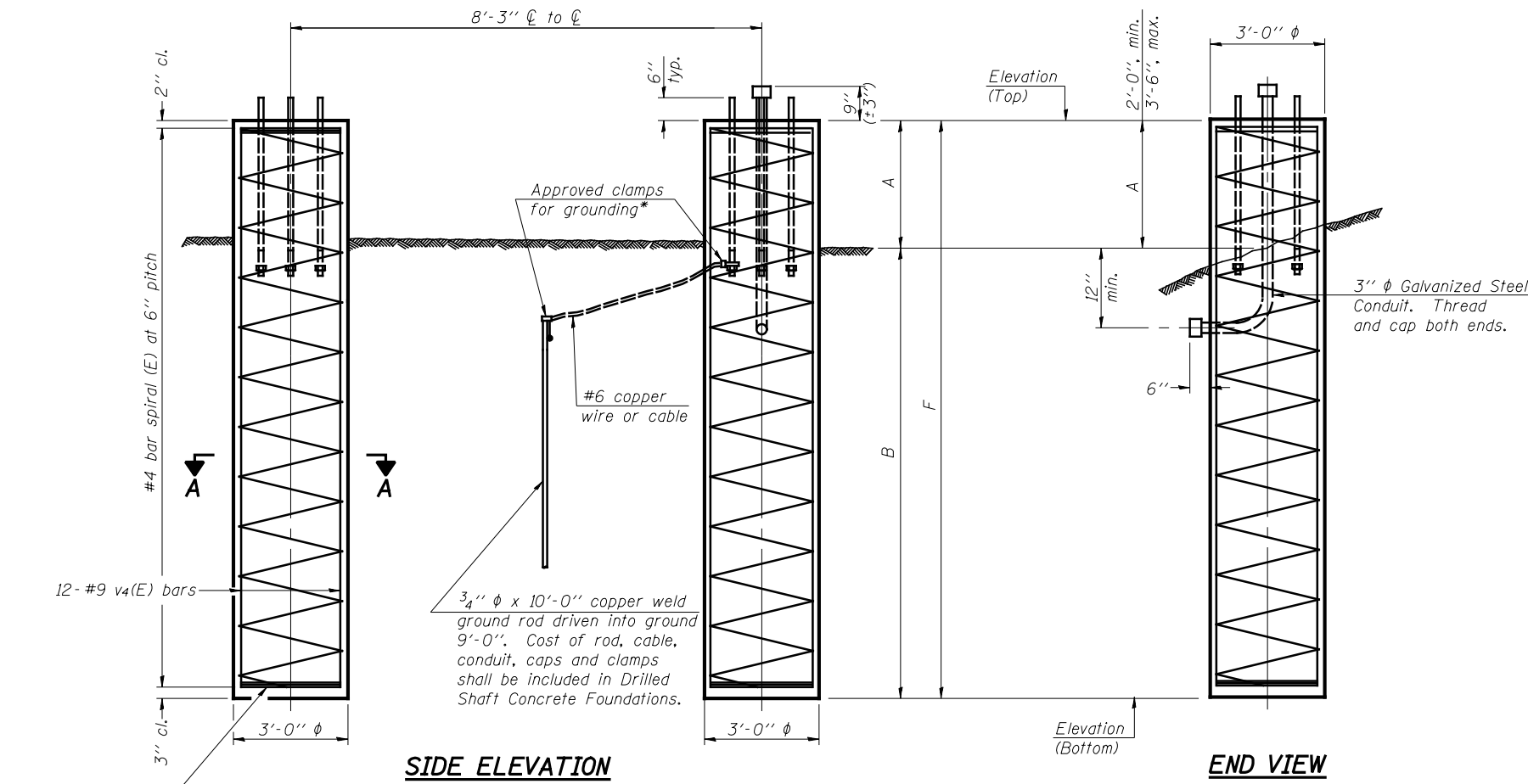
If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.

No sonotubes or decomposable forms shall be used below the lower conduit entrance. Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.

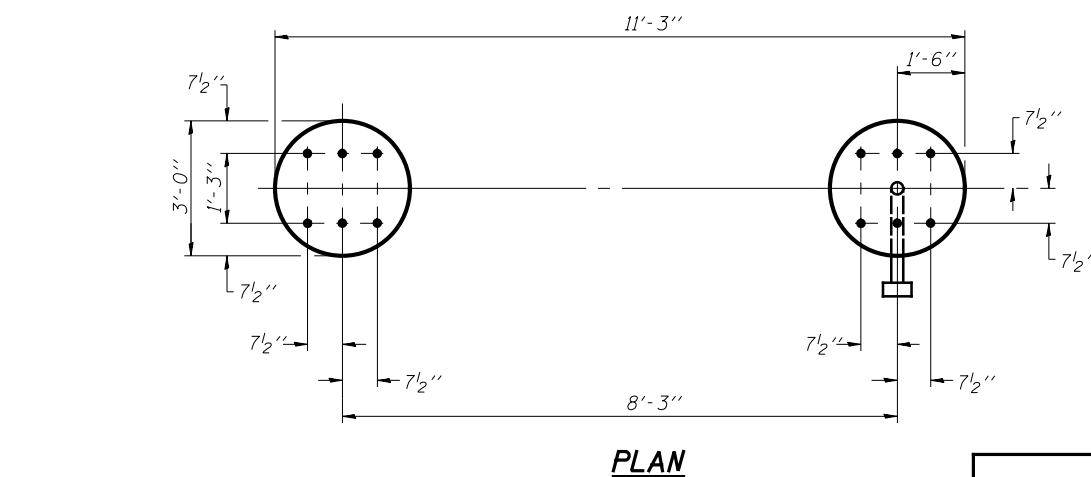
Concrete shall be placed monolithically, without construction joints.

Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.

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 Drilled Shaft Concrete Foundation.



SECTION A-A



PLAN

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.

**DETAILS FOR 10" φ SUPPORT FRAME
TYPE I-A or II-A TRUSS**

Structure Number	Station	Left Foundation					Right Foundation					Class DS Concrete (Cu. Yds.)
		Elevation Top	Elevation Bottom	A	B	F	Elevation Top	Elevation Bottom	A	B	F	
7S025I057R162.0	2290+50						631.92	612.42	3'-0"	16'-6"	19'-6"	10.2
7S025I057R163.4	2351+00	604.03	582.28	3'-0"	18'-9"	21'-9"	605.00	584.00	3'-0"	18'-0"	21'-0"	22.4
7S025I070L098.6	2387+00	608.11	588.61	3'-0"	16'-6"	19'-6"	609.48	589.98	3'-0"	16'-6"	19'-6"	20.4

OS4-F3

6-1-12

FILE NAME =	USER NAME =	DESIGNED - ESW	REVISED -
		CHECKED - JWS	REVISED -
		DRAWN - PDB	REVISED -
		CHECKED - BRM	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
DRILLED SHAFT DETAILS

SHEET NO. 36 OF 53 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-4R)	EFFINGHAM	1760	423
CONTRACT NO. 74295			ILLINOIS FED. AID PROJECT	

NOTES:

The foundation dimensions shown are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Qu) of at least 1.25 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.

If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.

No sonotubes or decomposable forms shall be used below the lower conduit entrance. Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.

Concrete shall be placed monolithically, without construction joints. Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.

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 Drilled Shaft Concrete Foundation.

BAR LIST - EACH FOUNDATION

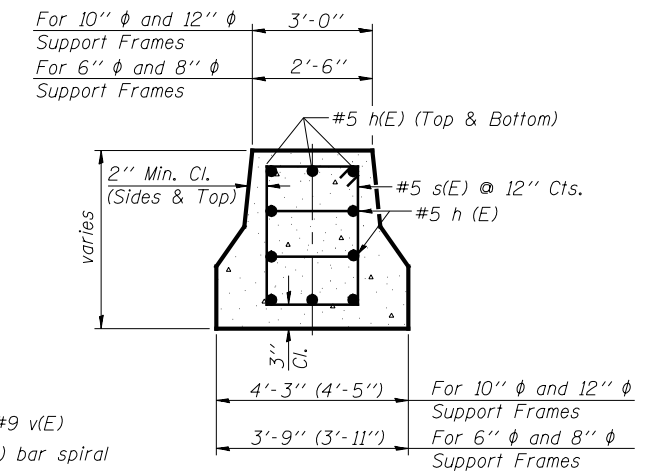
Bar	Number	Size	Length	Shape
h(E)	10	#5	M less 4"	—
s(E)	Varies	#5	Varies	□
v(E)	16	#9	F less 0'-5"	—
v(E)	24	#9	F less 0'-5"	—

6" φ and 8" φ Support Frame
10" φ and 12" φ Support Frame

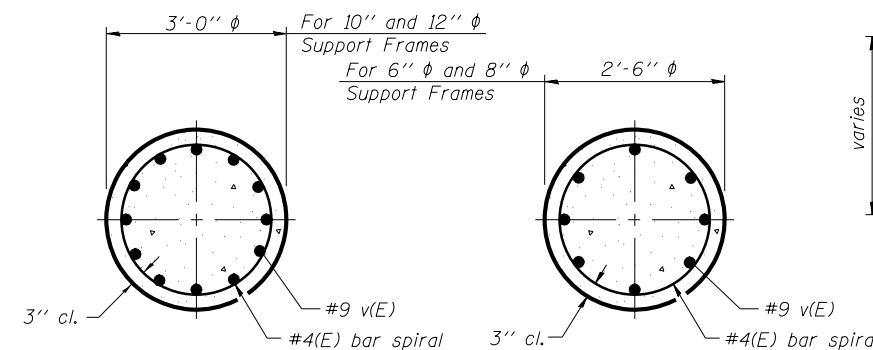
#4(E) bar spiral - see Side Elevation

Pipe Support Frames	cc	M	a	a/2
6" φ	7'-0"	9'-6"	0'-11"	5 1/2"
8" φ	7'-6"	10'-0"	1'-1 1/2"	6 3/4"
10" φ	8'-3"	11'-3"	1'-3"	7 1/2"
12" φ	9'-0"	12'-0"	1'-6"	9"

All dimensions in parenthesis are for 42" high barrier.



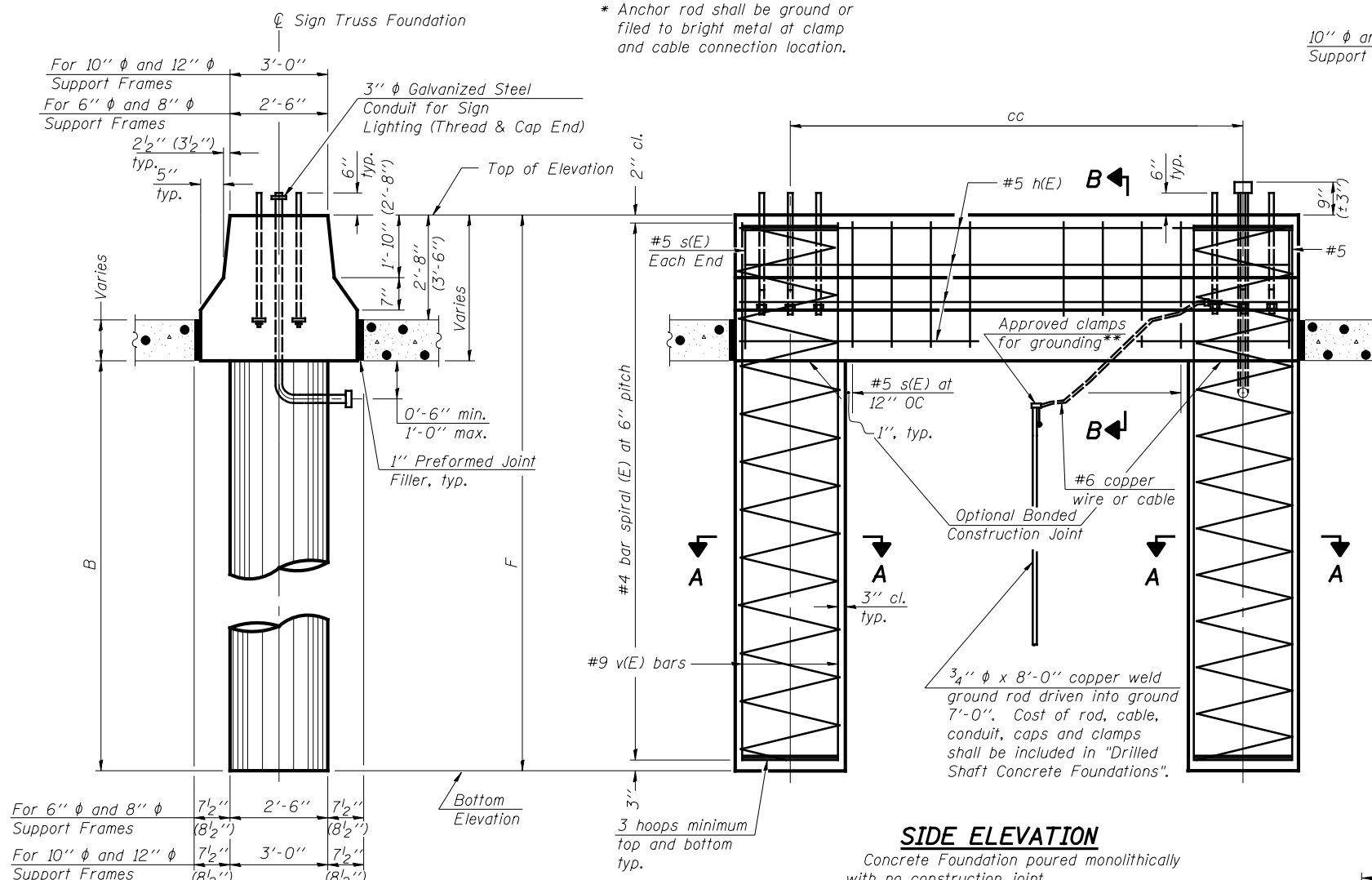
SECTION B-B



SECTION A-A

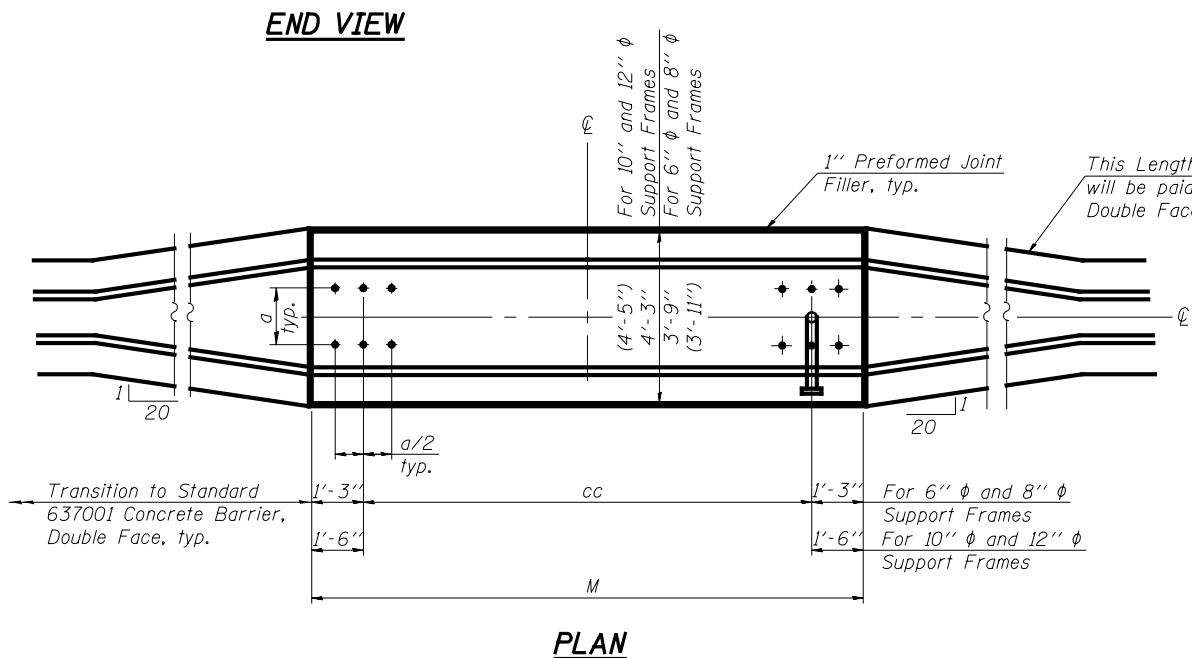
Structure Number	Station	Left Foundation				Right Foundation				Class DS Concrete (Cu. Yds.)
		Elevation Top	Elevation Bottom	B	F	Elevation Top	Elevation Bottom	B	F	
7S025I057R162.7	2326+30	604.03	584.95	14'-6"	19'-1"	-	-	-	-	9.9

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



SIDE ELEVATION

Concrete Foundation poured monolithically with no construction joint.



PLAN

OS4-MED

6-1-12

FILE NAME =	USER NAME =	DESIGNED - ESW	REVISIONS -
		CHECKED - JWS	REVISIONS -
		DRAWN - PDB	REVISIONS -
		CHECKED - BRM	REVISIONS -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
MEDIAN SUPPORT FOUNDATION DETAILS

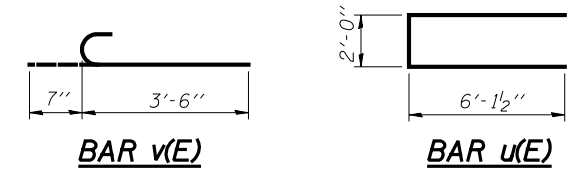
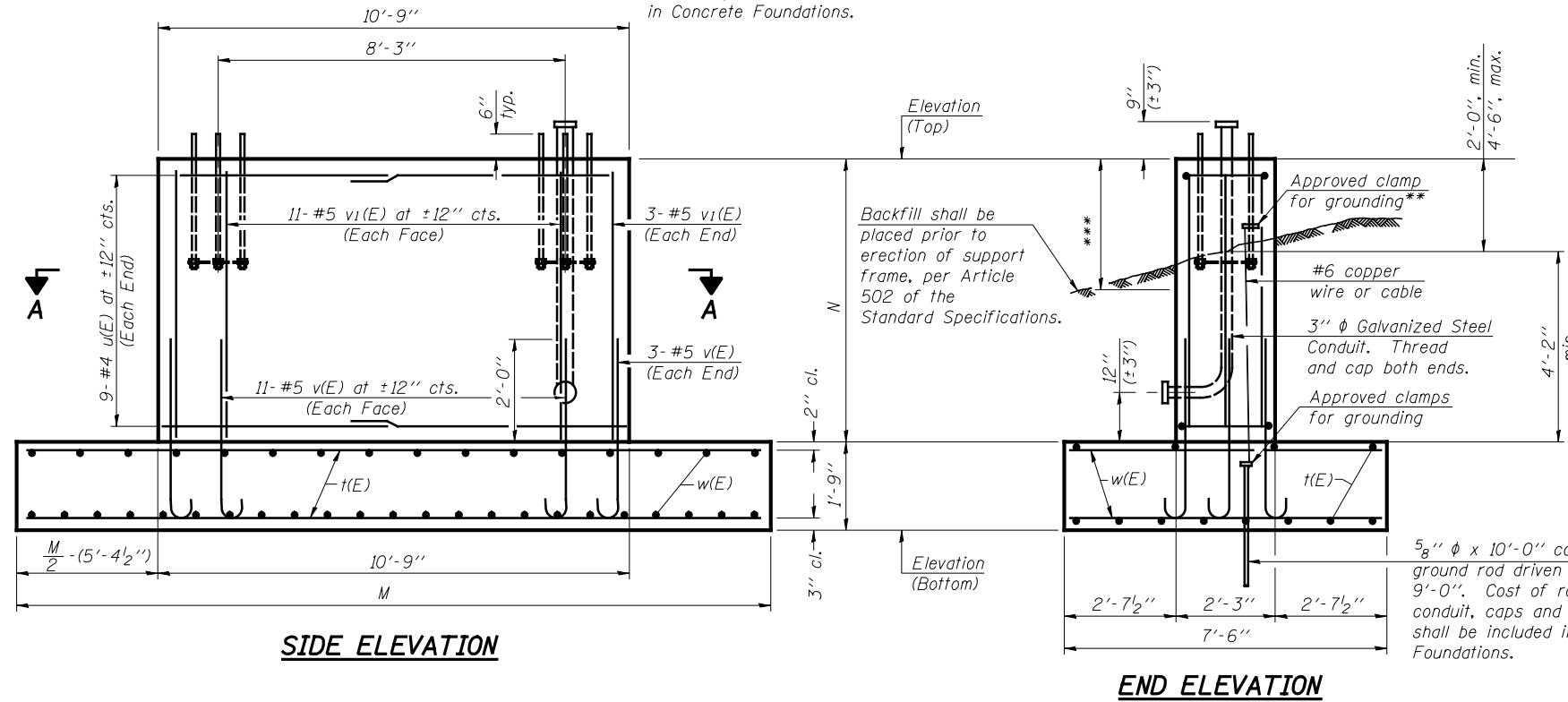
SHEET NO. 37 OF 53 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	((25-4)R	EFFINGHAM	1760	424
CONTRACT NO. 74295			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.

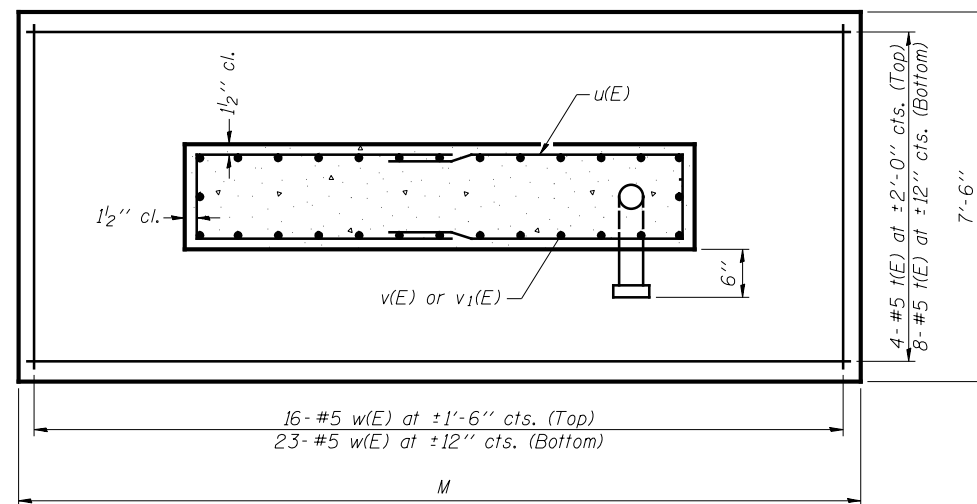
*** A normal surface finish followed by a Bridge Seat Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in Concrete Foundations.



BAR LIST - EACH FOUNDATION

Bar	Number	Size	Length	Shape
t(E)	12	#5	*	—
u(E)	18	#4	14'-3"	—
v(E)	28	#5	4'-1"	U
v ₁ (E)	28	#5	*	—
w(E)	39	#5	7'-3"	—

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



SECTION A-A

Structure Number	Station	Left Foundation				Right Foundation				Class SI Concrete (Cu. Yds.)
		Elevation Top	Elevation Bottom	N	M	Elevation Top	Elevation Bottom	N	M	
7S025I057R162.0	2290+50	633.96	622.05	10'-2"	21'-6"					19.6

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.

DETAILS FOR 10" φ SUPPORT FRAME

OS-F3 6-1-12

FILE NAME =	USER NAME =	DESIGNED - ESW	REVISED -
		CHECKED - JWS	REVISED -
		DRAWN - PDB	REVISED -
		CHECKED - BRM	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**OVERHEAD SIGN STRUCTURES
SPREAD FOOTING DETAILS**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-4R)	EFFINGHAM	1760	425
CONTRACT NO. 74295				
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

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

DESIGN STRESSES:

Field Units
 $f'_c = 3,500$ p.s.i.
 $f_y = 60,000$ 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 or A500 Grade B or C. 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 ASTM F1554 Gr. 105.

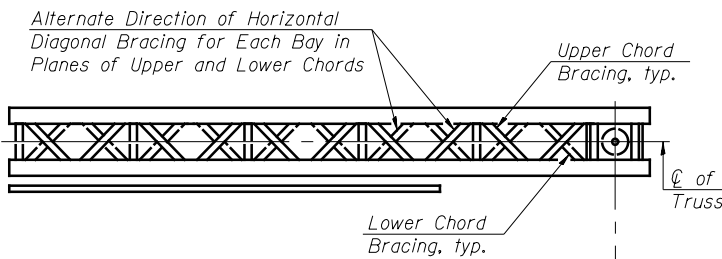
CONCRETE SURFACES: All concrete surfaces above an elevation 6" below the lowest final ground line at each foundation shall be cleaned and coated with Bridge Seat Sealer in accordance with the Standard Specifications.

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

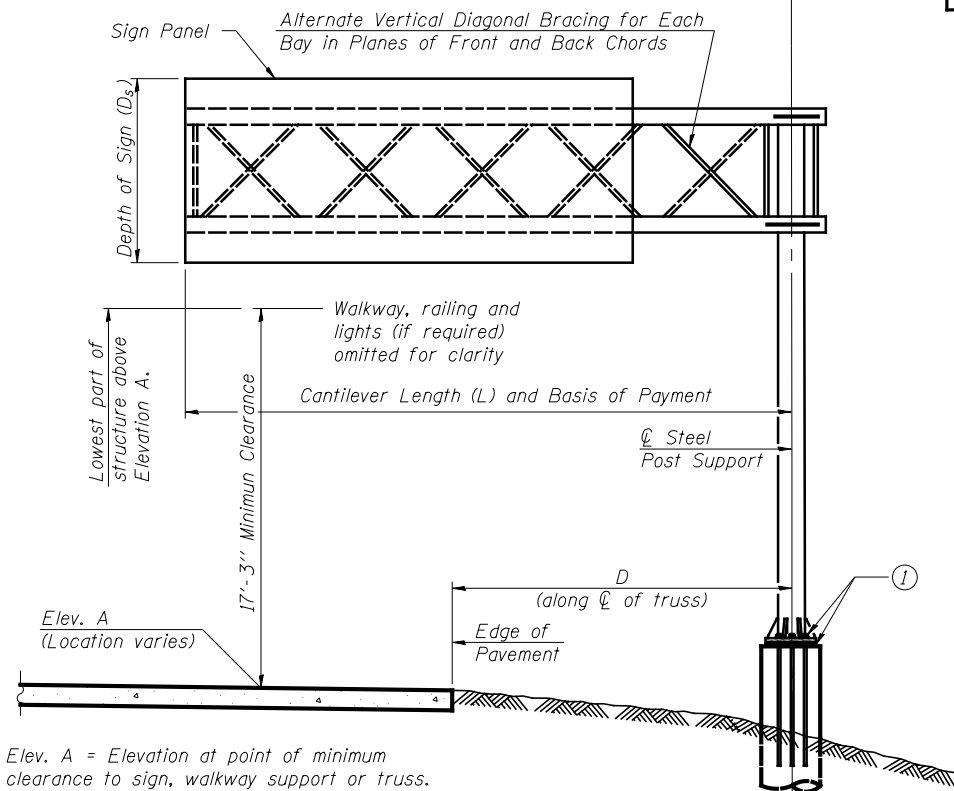
FOUNDATIONS: The contract unit price for Drilled Shaft Concrete Foundations shall include reinforcement bars complete in place.

Structure Number	Station	Design Truss Type	Cantilever Length (L)	Elev. A	Dim. D	D _s	Total Sign Area
7C025I057R161.8	2280+10	II-C-A	30'-0"	615.50	18'-0"	17'-0"	229.50 SF
7C025I057L162.5	2316+90	II-C-A	30'-0"	604.94	18'-0"	15'-0"	202.50 SF
7C025I057L162.8	2331+00	II-C-A	30'-0"	599.76	18'-0"	17'-0"	229.50 SF
7C025I057L163.0	24+75	II-C-A	30'-0"	594.51	18'-0"	17'-0"	229.50 SF

Truss Type	Maximum Sign Area	Maximum Length
I-C-A	170 Sq. Ft.	25 Ft.
II-C-A	340 Sq. Ft.	30 Ft.
III-C-A	400 Sq. Ft.	40 Ft.



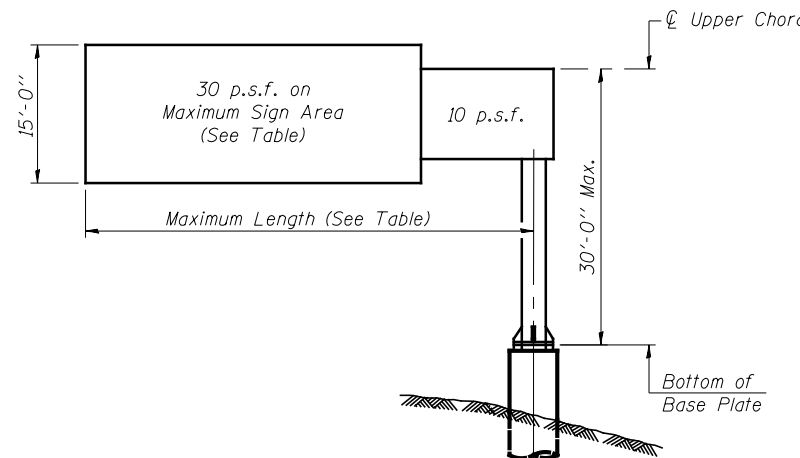
TYPICAL PLAN
(Walkway not shown)



TYPICAL ELEVATION
Looking in Direction of Traffic

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

Sign support structures may be subject to damaging vibrations and oscillations when sign panels are not in place during erection or maintenance of the structure. To avoid these vibrations and oscillations, consideration should be given to attaching temporary blank sign panels to the structure.



DESIGN WIND LOADING DIAGRAM

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

Note:

Trusses 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 trusses.

① After adjustments to level truss and insure adequate vertical clearance, all top and leveling nuts shall be tightened against the base plate with a minimum torque of 200 lb.-ft. Stainless steel mesh shall then be placed around the perimeter of the base plate. Secure to base plate with stainless steel banding.

* 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.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE CANTILEVER TYPE I-C-A	Foot	
OVERHEAD SIGN STRUCTURE CANTILEVER TYPE II-C-A	Foot	120
OVERHEAD SIGN STRUCTURE CANTILEVER TYPE III-C-A	Foot	
OVERHEAD SIGN STRUCTURE WALKWAY, TYPE A	Foot	78
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yds.	35.2

OSC-A-1

6-1-12

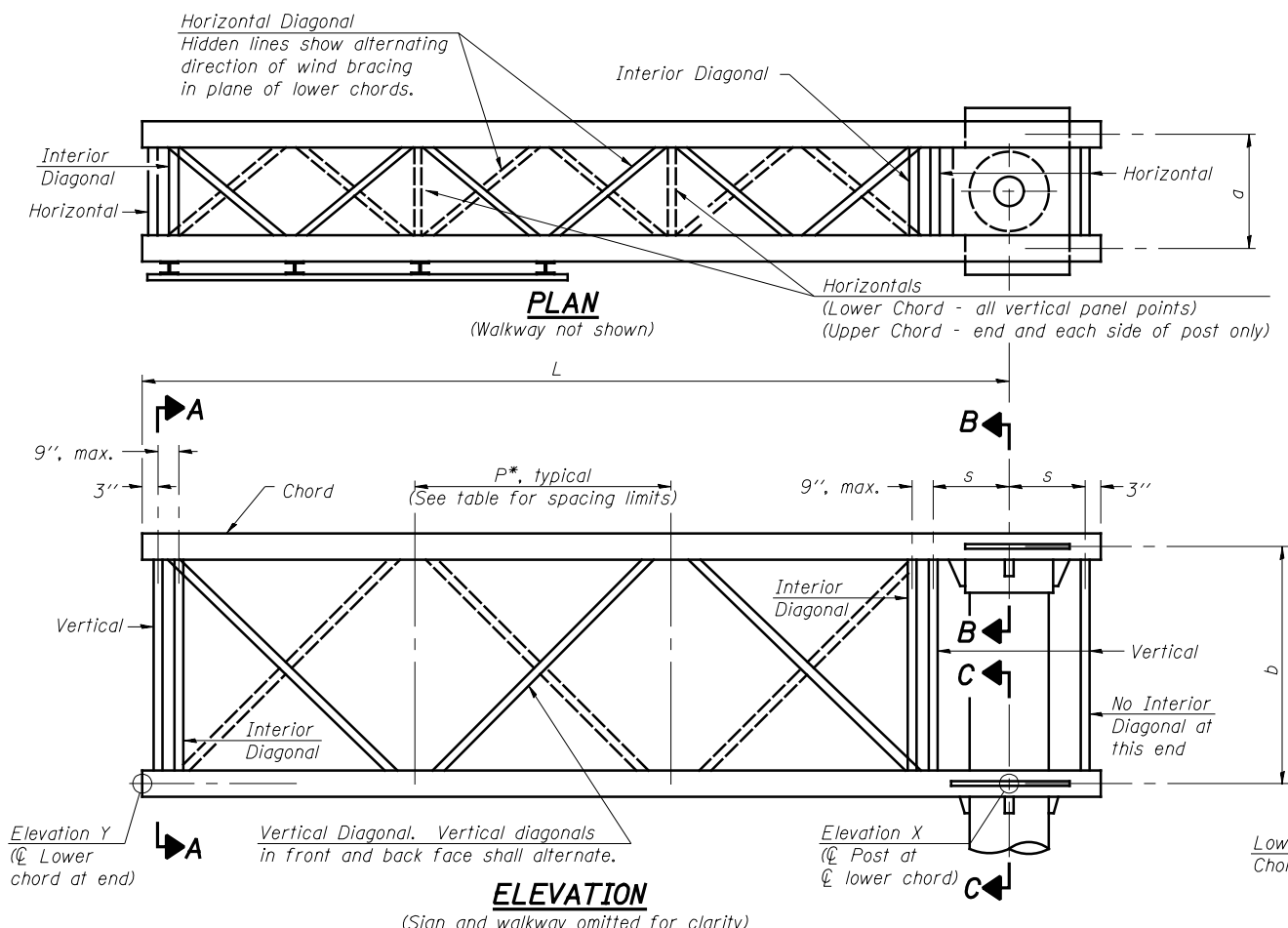
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		CHECKED - JWS	REVISED -
		DRAWN - PDB	REVISED -
		CHECKED - BRM	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES - GENERAL PLAN & ELEVATION
ALUMINUM TRUSS & STEEL POST

SHEET NO. 39 OF 53 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-4R)	EFFINGHAM	1760	426
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74295	



TYPICAL TRUSS UNIT

Note: For Section B-B and Section C-C, see Base Sheet OSC-A-3.

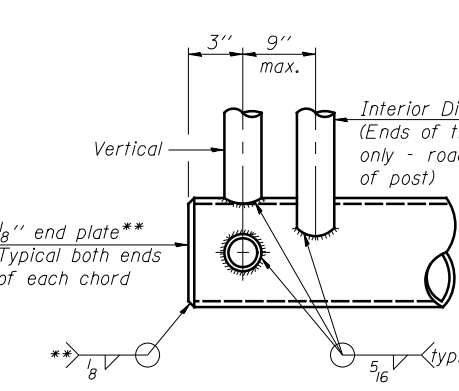
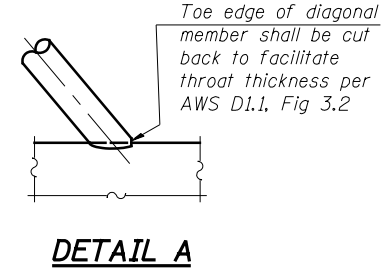
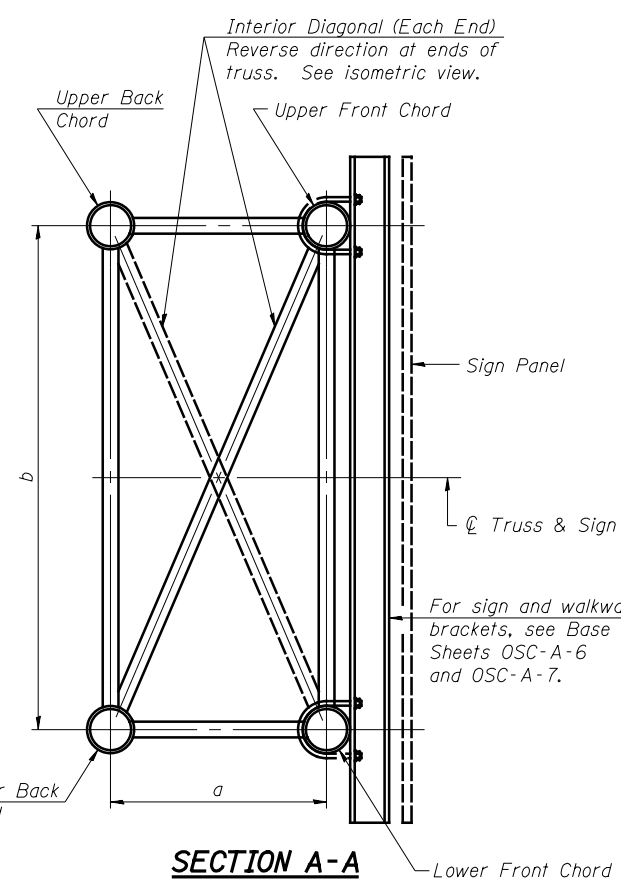
There are twice as many horizontal diagonals as there are vertical diagonals.

TRUSS UNIT TABLE

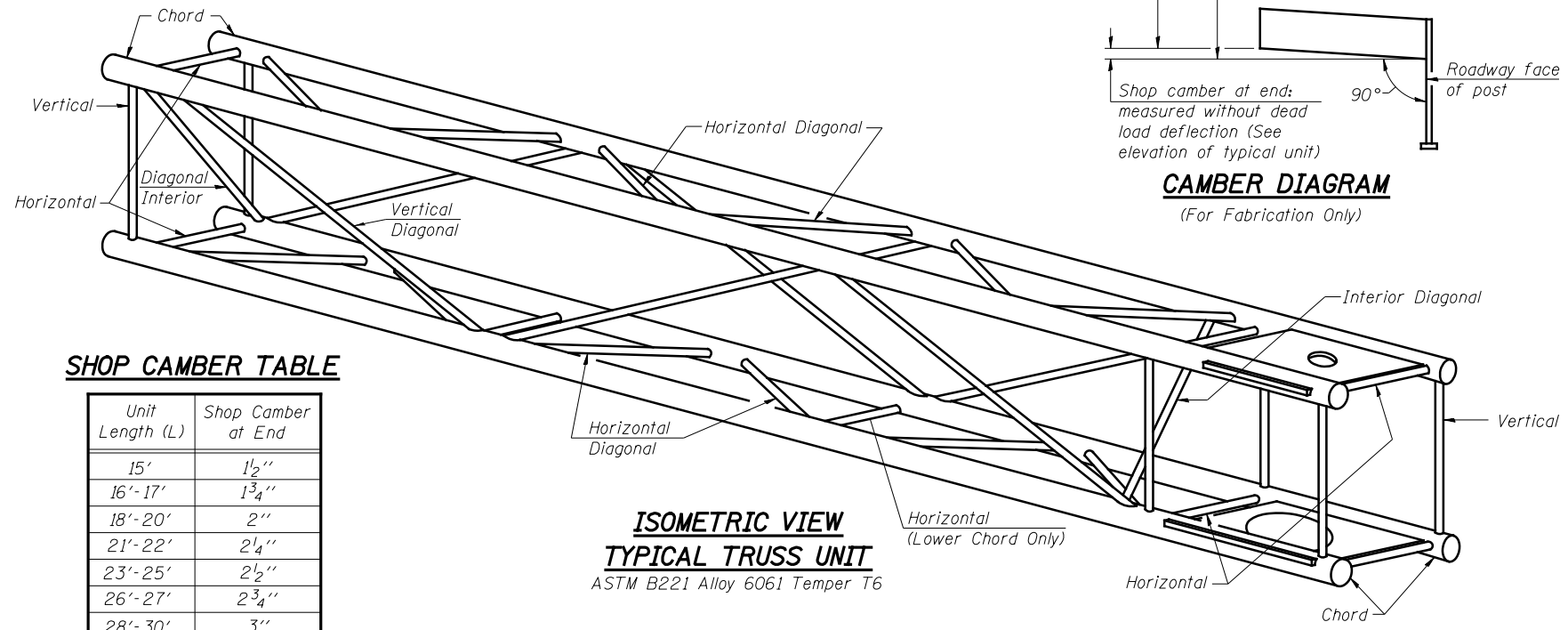
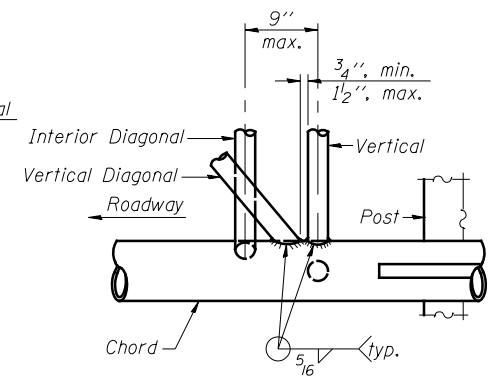
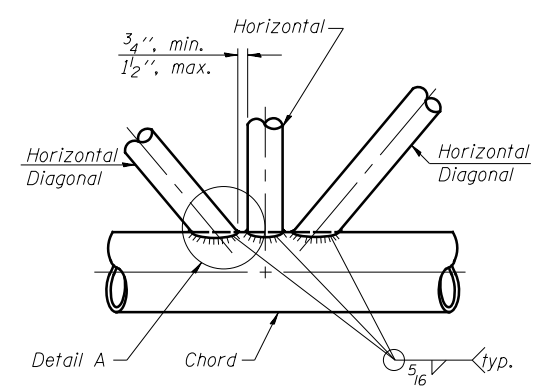
Truss Type	Dimension "a"	Dimension "b"	Dimension "s"	Limits for Panel Spacing (P)*	Up. & Low. Chord		Verticals; Horizontals; Vertical, Horizontal, and Interior Diagonals	
					O.D.	Wall	O.D.	Wall
I-C-A	24"	54"	16"	36" min. to 48" max.	5"	5/16"	2 1/2"	5/16"
II-C-A	36"	66"	21"	42" min. to 54" max.	6 1/2"	5/16"	3 1/4"	5/16"
III-C-A (35' Max.)	36"	84"	21"	48" min. to 66" max.	7"	3/8"	3 1/2"	3/8"
III-C-A (>35' to 40')	36"	84"	21"	48" min. to 66" max.	8"	3/8"	3 1/2"	3/8"

*P = $\frac{L-s-3"}{\# \text{ Panels}}$

Structure Number	Station	Truss Type	Design Length (L)	Number of Panels Per Unit	Panel Length (P)*
7C025I057L161.8	2280+10	II-C-A	28'-0"	7	4'-0"
7C025I057L162.5	2316+90	II-C-A	28'-0"	7	4'-0"
7C025I057L162.8	2331+00	II-C-A	28'-0"	7	4'-0"
7C025I057R163.0	24+75	II-C-A	28'-0"	7	4'-0"

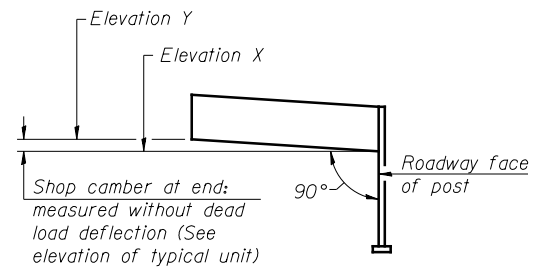


** Contractor may alternatively use standard aluminum drive-fit cap to close ends. 1/2" ϕ Drain hole in end plate / drive-fit cap.



SHOP CAMBER TABLE

Unit Length (L)	Shop Camber at End
15'	1 1/2"
16'-17'	1 3/4"
18'-20'	2"
21'-22'	2 1/4"
23'-25'	2 1/2"
26'-27'	2 3/4"
28'-30'	3"
31'-32'	3 1/4"
33'-35'	3 1/2"
36'-37'	4"
38'-40'	4 1/2"



OSC-A-2

6-1-12

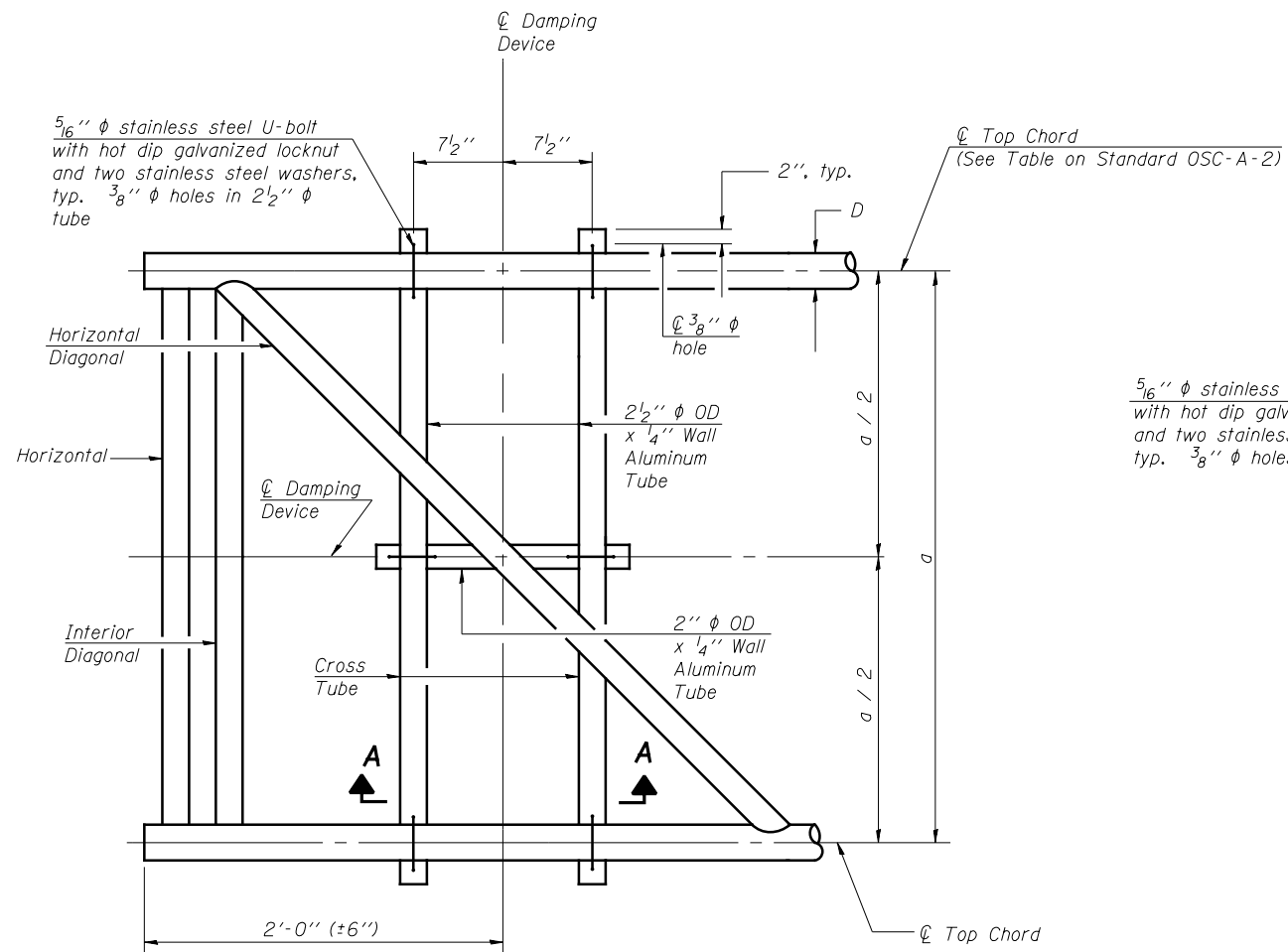
FILE NAME =	USER NAME =	DESIGNED - ESW	REVISED -
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		DRAWN - PDB	REVISED -
		CHECKED - BRM	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

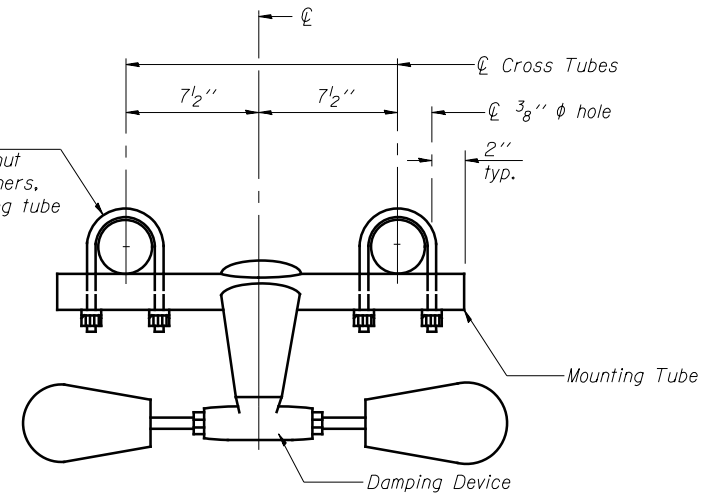
CANTILEVER SIGN STRUCTURES - TRUSS DETAILS
ALUMINUM TRUSS & STEEL POST

SHEET NO. 40 OF 53 SHEETS

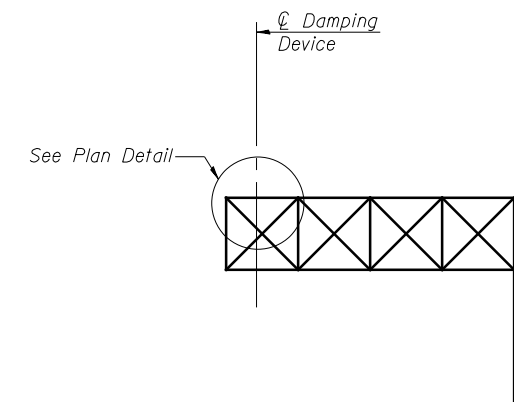
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-4R)	EFFINGHAM	1760	427
CONTRACT NO. 74295			ILLINOIS FED. AID PROJECT	



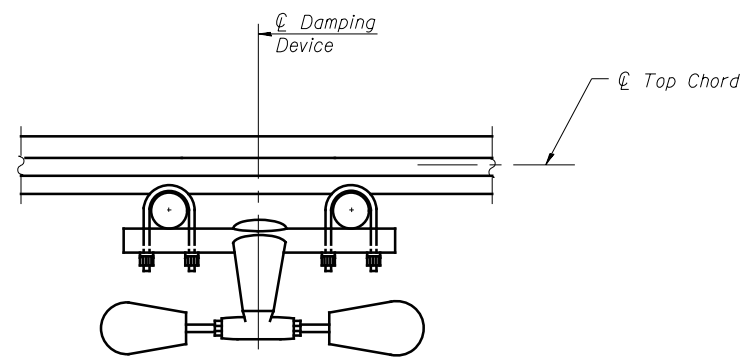
PLAN DETAIL



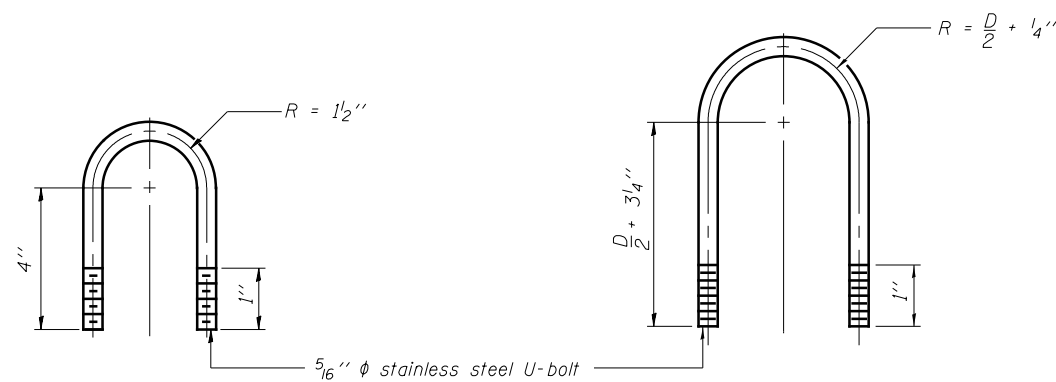
TRUSS DAMPING DEVICE CONNECTION DETAIL



ELEVATION
Aluminum Cantilever Sign Structure



SECTION A-A



DAMPING DEVICE MOUNTING TUBE U-BOLT DETAIL
(Typical)

TOP CHORD TO CROSS TUBE U-BOLT DETAIL
(Typical)

GENERAL NOTES

- Damper: One damper per truss. (31 lbs. Stockbridge-Type Aluminum-29" minimum between ends of weights)
- Materials: Aluminum tubes shall be ASTM B221 alloy 6061 temper T6

OSC-A-D

6-1-12

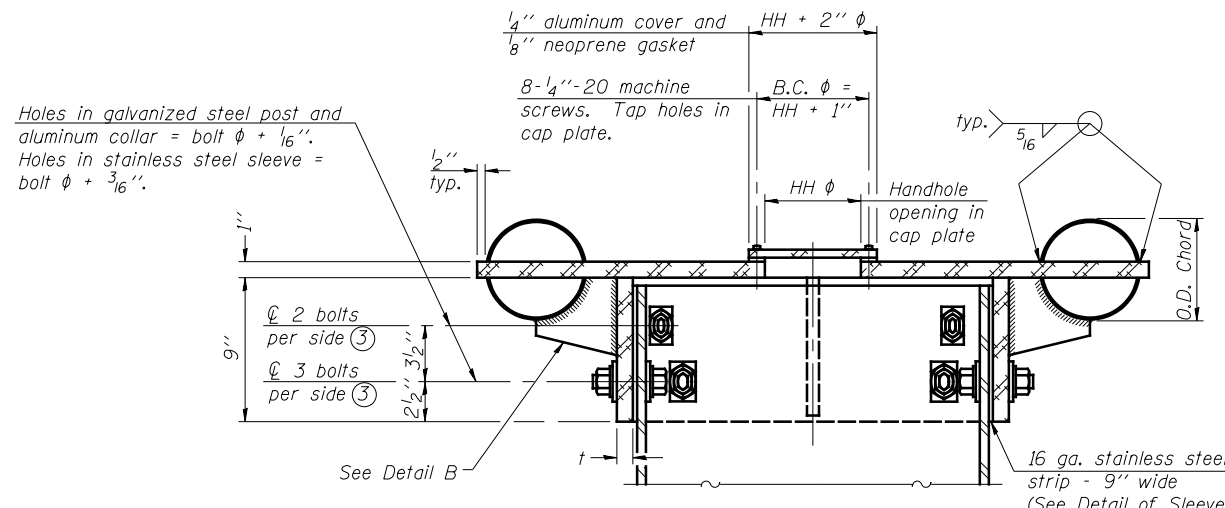
FILE NAME =	USER NAME =	DESIGNED - ESW	REVISED -
		CHECKED - JWS	REVISED -
	PLOT SCALE =	DRAWN - PDB	REVISED -
	PLOT DATE =	CHECKED - BRM	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURE
DAMPING DEVICE

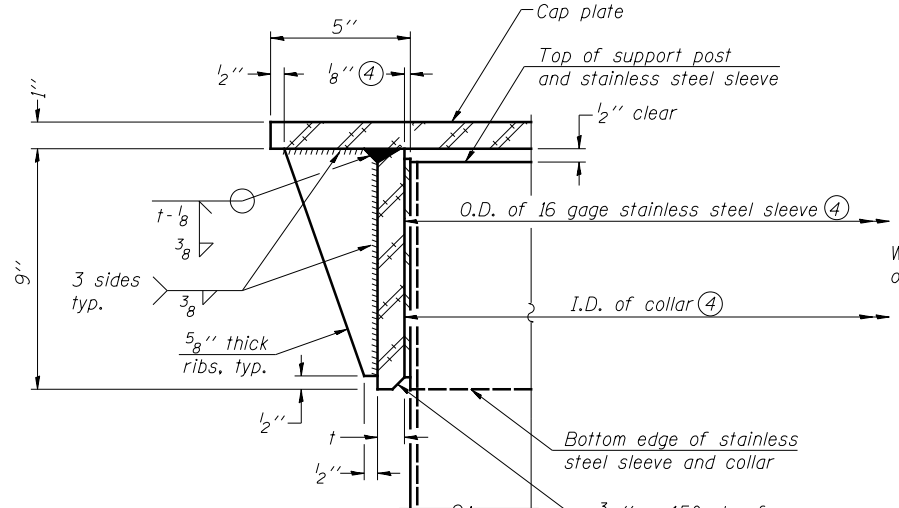
SHEET NO. 41 OF 53 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-4R)	EFFINGHAM	1760	428
			CONTRACT NO. 74295	
ILLINOIS FED. AID PROJECT				

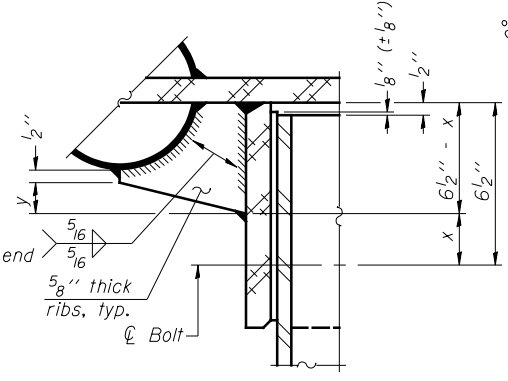


④ Collar I.D. shall be manufactured to correspond to O.D. of actual galvanized post and stainless steel sleeve plus 1/8" (± 1/16"). Maximum gap between post and collar at any location equals 1/8" before tightening bolts.

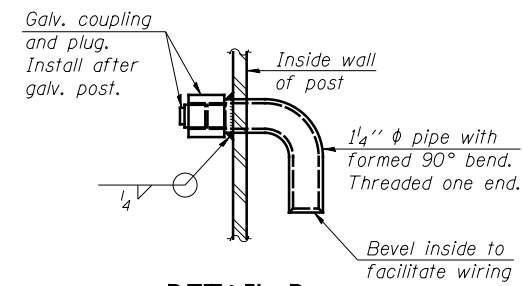
SECTION B-B
Bolts, washers (including contoured washers), and locknuts shall be stainless steel.



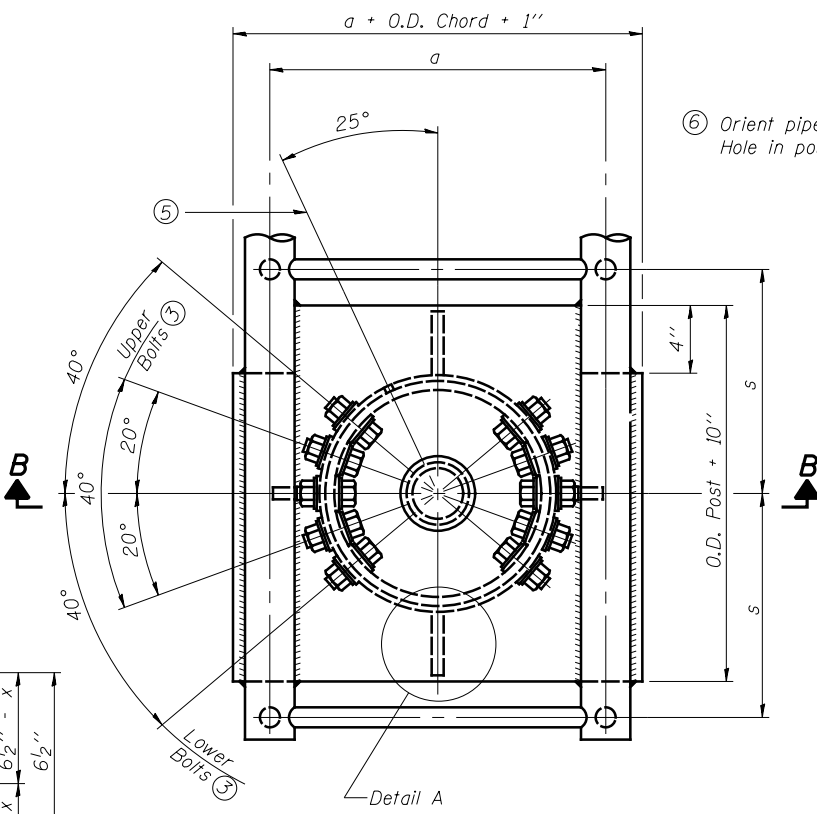
DETAIL A
(Two locations)
3/16" - 45° chamfer on inside of collar to facilitate field assembly



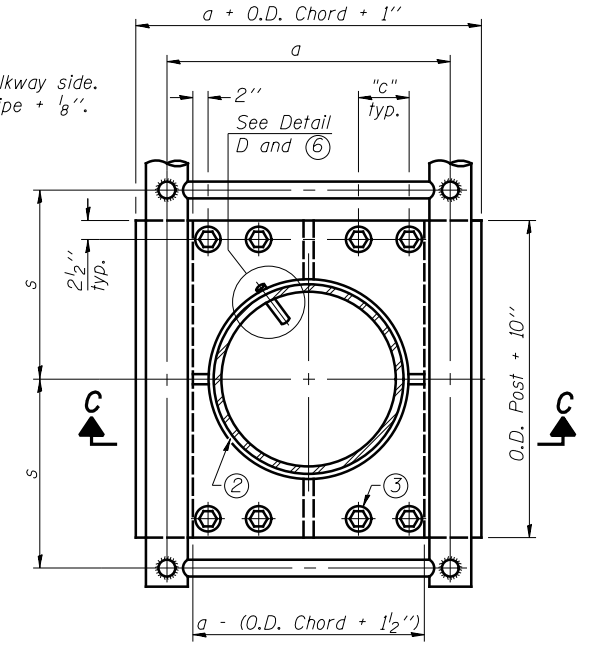
DETAIL B
Two locations
(For details not shown, see Detail C)



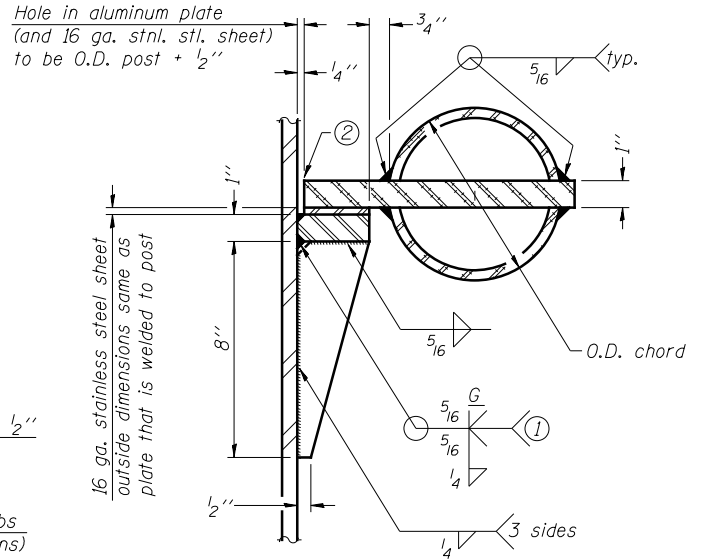
DETAIL D



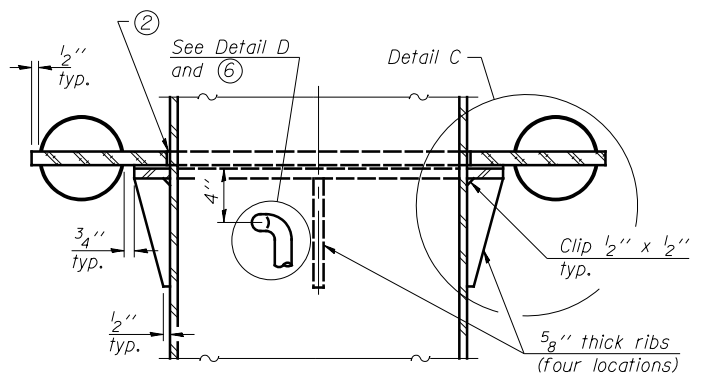
PLAN VIEW - TOP OF COLUMN
⑤ Optional full penetration weld in collar. (Two locations maximum....(180° apart)....X-ray or UT 100%)



SECTION THRU POST ABOVE LOWER CHORDS



DETAIL C



SECTION C-C

CONTOURED WASHERS

Bolt Size	Contoured Washers	
	Hole Dia.	B
7/8"	1"	2 1/2"
1"	1 1/8"	3"
1 1/4"	1 3/8"	3 1/4"

DETAIL OF STAINLESS STEEL SLEEVE

Weld to post after galvanizing. (Prepare post surface to insure tight, uniform fit and allow welding.) Welds to be 1 1/2" long at 6" cts. along top edge and at 1/4" opening.

Truss Type	Post Size	Upper & Lower Connection Bolt Diameter ③	Lower Juncture Bolt Spacing Dimension "c" ③	Opening in Cap Plate "HH"	Collar Thickness (t)	Side Ribs	
						x	y
I-C-A	16" phi (83#/')	7/8"	3 1/4"	8"	5/8"	1 3/4"	2 1/4"
II-C-A	24" phi (125#/')	1"	3 1/2"	12"	7/8"	2"	1 1/4"
III-C-A (35' max.)	24" phi (125#/')	1 1/4"	3 1/2"	12"	7/8"	2"	1"
III-C-A (>35' to 40')	24" phi (171#/')	1 1/4"	3 1/2"	12"	7/8"	2"	1"

- ① Grind top if required to fully seat aluminum plate and stainless steel sheet.
- ② After tightening lower connection bolts, fill gap with non-hardening, silicone caulk suitable for exterior exposure and acceptable to the Engineer. Cost is included in Overhead Sign Structure Cantilever.
- ③ Upper and lower connection bolts in collar and bolts at lower chord connection shall be high strength with matching locknuts. Connection bolts shall have 2 stainless steel flat washers each.

OSC-A-3

6-1-12

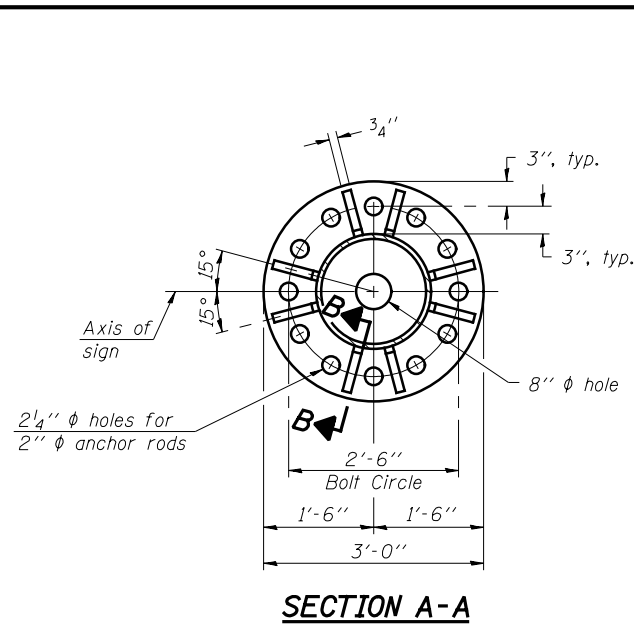
FILE NAME =	USER NAME =	DESIGNED - ESW	REVISED -
		CHECKED - JWS	REVISED -
		DRAWN - PDB	REVISED -
		CHECKED - BRM	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

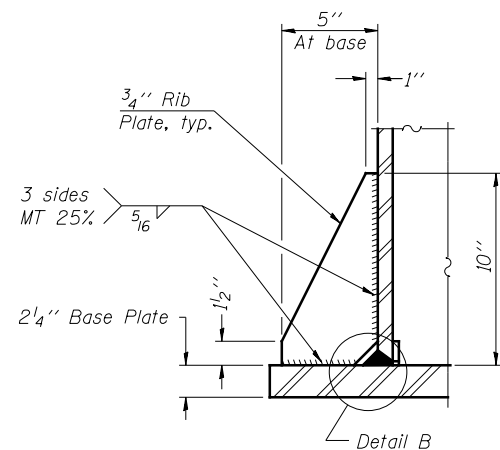
CANTILEVER SIGN STRUCTURES - JUNCTURE DETAILS
ALUMINUM TRUSS & STEEL POST

SHEET NO. 42 OF 53 SHEETS

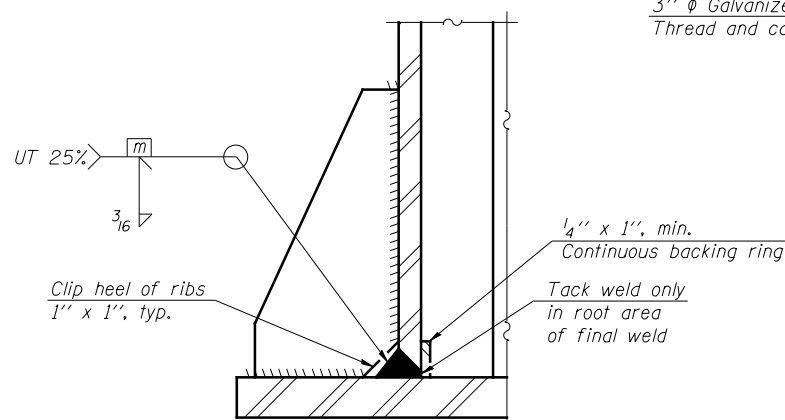
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-4R)	EFFINGHAM	1760	429
CONTRACT NO. 74295			ILLINOIS FED. AID PROJECT	



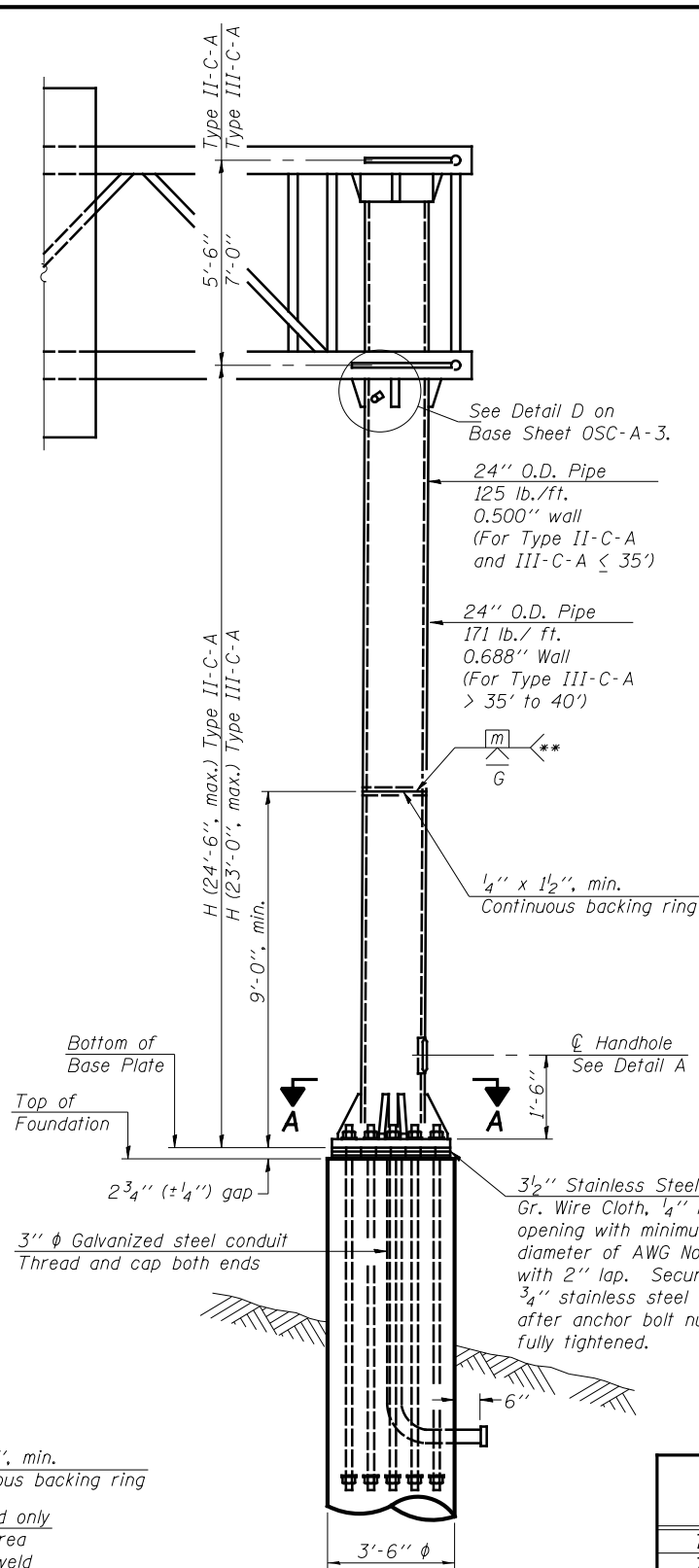
SECTION A-A



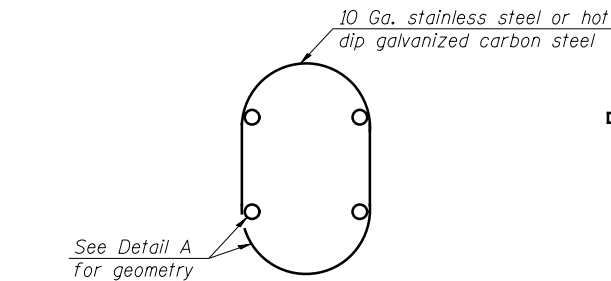
SECTION B-B



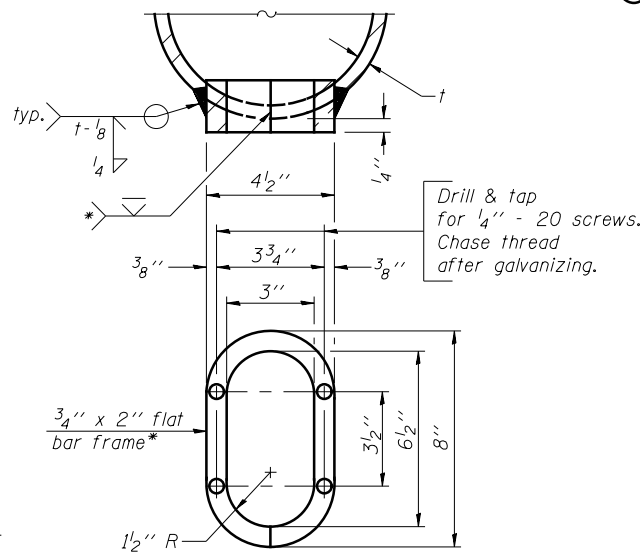
DETAIL B
(Typical rib)



FRONT ELEVATION
For Foundation Details
see Base Sheet OSC-A-9.



HANDHOLE COVER



DETAIL A

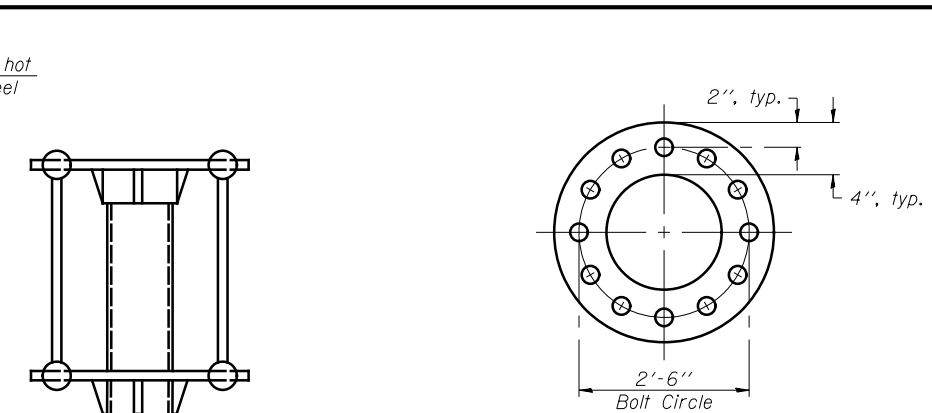
Provide 8" x 4 1/2" cover. Outside corners = 2 1/4" radius. Provide 4-5/16" diameter holes in cover for 1/4" - 20 round head hot dip galvanized or stainless steel machine screws. (See cover details.)

* Bent bars may be butt welded top and bottom or bottom only. 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.

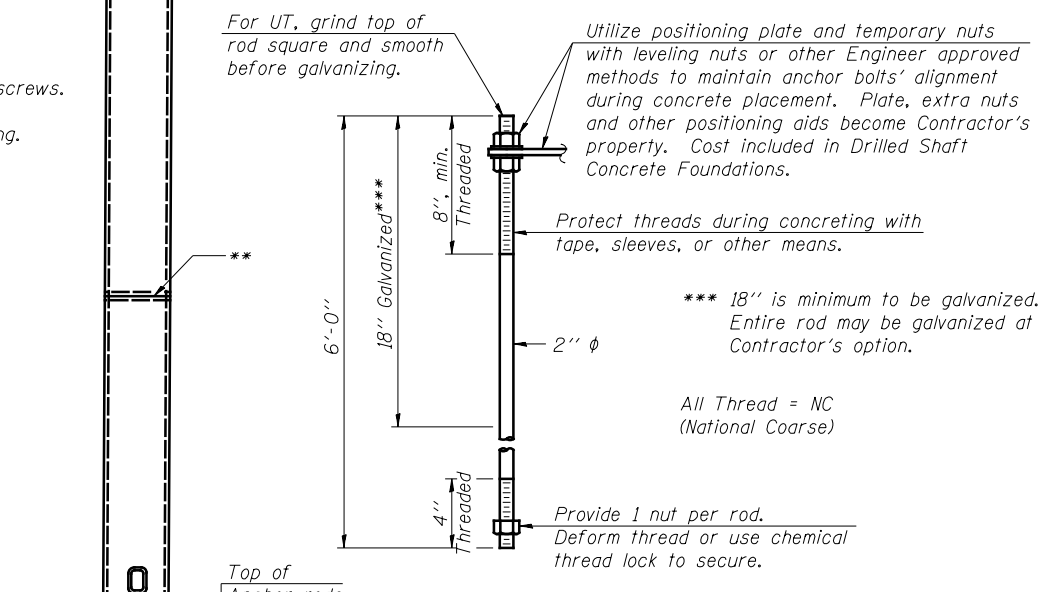
** Butt welded joint in post is only allowed for post heights (H) over 20 ft. in length. If used, weld procedure must be preapproved by Engineer and joint shall receive 100% RT or UT (tension criteria) at Contractor's expense.

Structure Number	Station	H
7C025I057L161.8	2280+10	24'-6"
7C025I057L162.5	2316+90	24'-6"
7C025I057L162.8	2331+00	24'-6"
7C025I057R163.0	24+75	24'-6"

Note: "H" based on 15'-0" or actual sign height, whichever is greater.



SUGGESTED POSITIONING PLATE



ANCHOR ROD DETAIL

Anchor rods shall conform to ASTM F1554 Grade 105. Galvanize the upper 18" (minimum***) and associated AASHTO M291, Grade A, C or DH heavy hex nuts and hardened washers per AASHTO M232. No welding shall be permitted on rods. Provide a nut at bottom, a hexagon locknut and washer above base plate and a leveling nut and washer below base plate. Nuts shall each be tightened with 200 lb.-ft. minimum torque against base plate. Before or after threading, but before galvanizing, each anchor rod shall be ultrasonically tested (UT) by a Level II or III Inspector, qualified in accord with ANSI guidelines, to insure no rejectable flaws exist in the upper 18" (tension criteria). Cost of testing included in Drilled Shaft Concrete Foundations.

OSC-A-5

6-1-12

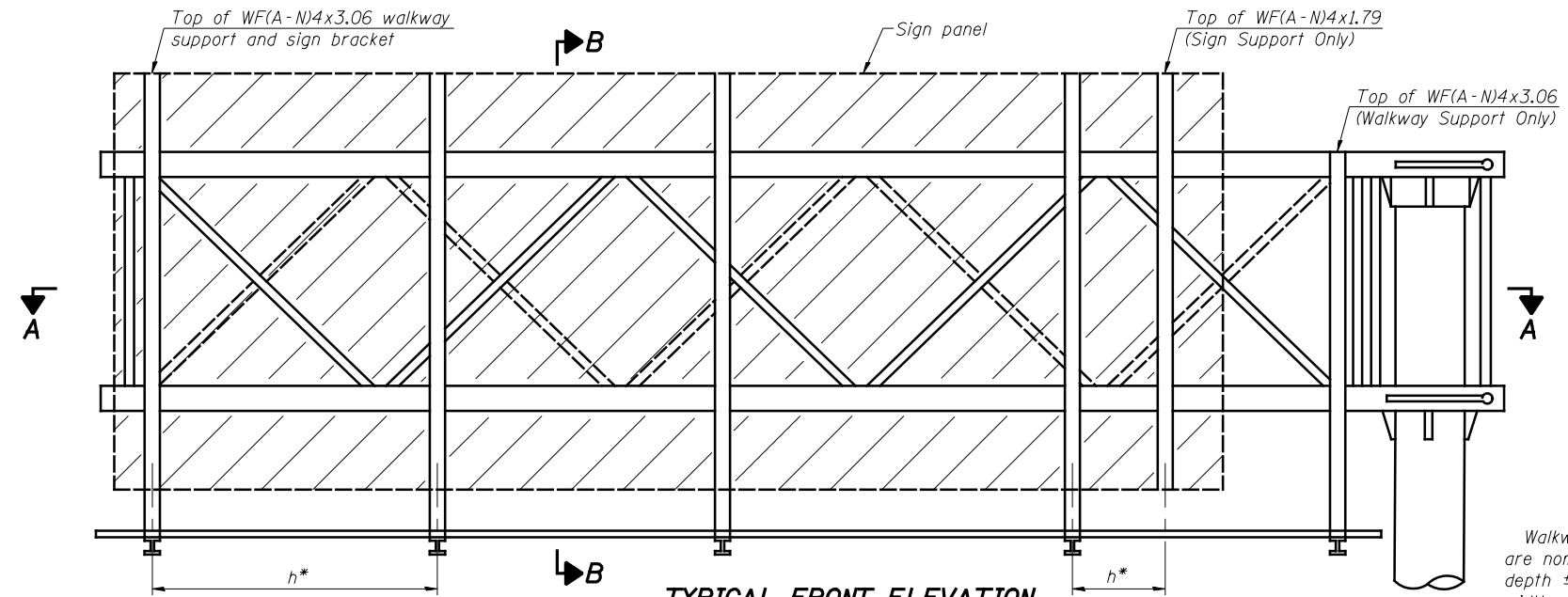
FILE NAME =	USER NAME =	DESIGNED - ESW	REVISED -
		CHECKED - JWS	REVISED -
		DRAWN - PDB	REVISED -
		CHECKED - BRN	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES - TYPE II-C-A & III-C-A
TRUSS SUPPORT POST - ALUMINUM TRUSS & STEEL POST

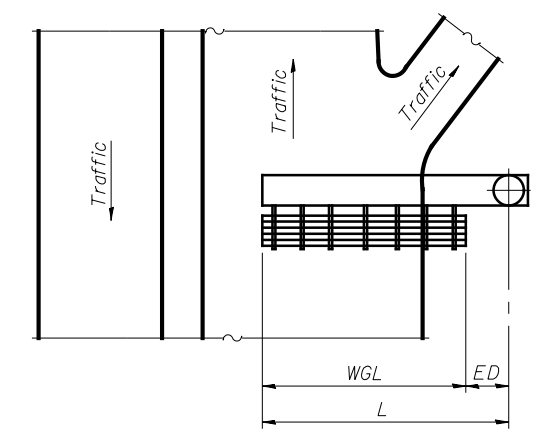
SHEET NO. 43 OF 53 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-4R)	EFFINGHAM	1760	430
CONTRACT NO. 74295				
ILLINOIS FED. AID PROJECT				

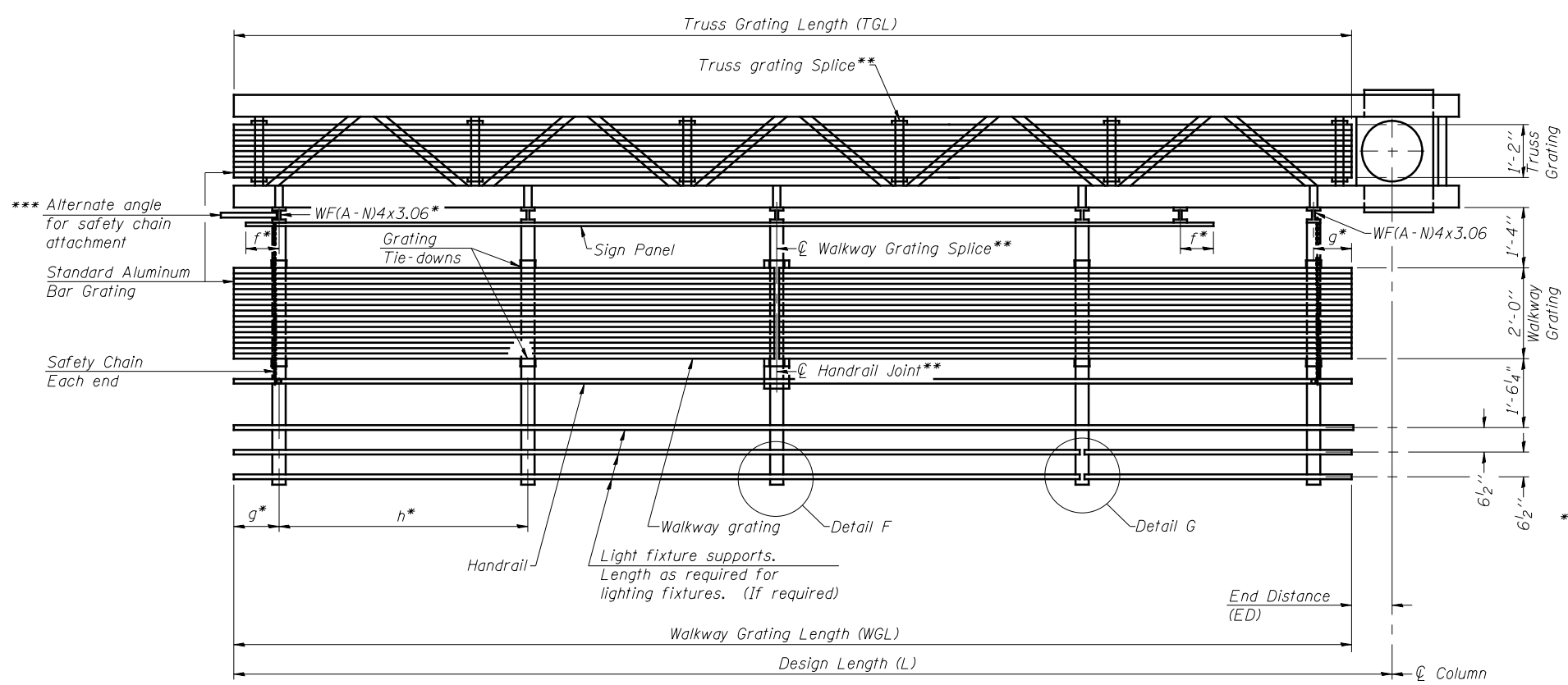


TYPICAL FRONT ELEVATION
With lights and handrail omitted for clarity.

Walkway and truss grating dimensions are nominal and may vary (width ±½", depth ±½") based on available standard widths.



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



SECTION A-A

Truss grating to facilitate inspection shall run full length of cantilevers. Cost of truss grating is included in Overhead Sign Structure Cantilever.

Handrail and walkway grating shall span a minimum of three brackets between splices.
** Use and location of handrail joints or grating splices are optional, based on lengths needed and material availability.

$$TGL = L - \left(\frac{\text{Post O.D.}}{2} + 6'' \right)$$

Structure Number	Station	WGL	ED	TGL
7C0251057R161.8	2280+10	19'-6"	10'-6"	28'-6"
7C0251057L162.5	2316+90	19'-6"	10'-6"	28'-6"
7C0251057L162.8	2331+00	19'-6"	10'-6"	28'-6"
7C0251057L163.0	24+75	19'-6"	10'-6"	28'-6"

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 to center of nearest bracket)
h = 6'-0" maximum (center to center sign and/or walkway support brackets, WF(A-N)4x1.79 or WF(A-N)4x3.06)
*** If walkway bracket at safety chain location is behind sign, add angle to bracket. See alternate safety chain attachment on base sheet OSC-A-8.

For details of sign placement, sign/walkway brackets, truss and walkway gratings, grating splices and Section B-B, see Base Sheet OSC-A-7.
For details of handrail, handrail joint, safety chain and Details F and G, see Base Sheet OSC-A-8.

BRACKET TABLE

WF(A-N)4x1.79 or WF(A-N)4x3.06 ASTM B308, Alloy 6061-T6		
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

OSC-A-6

6-1-12

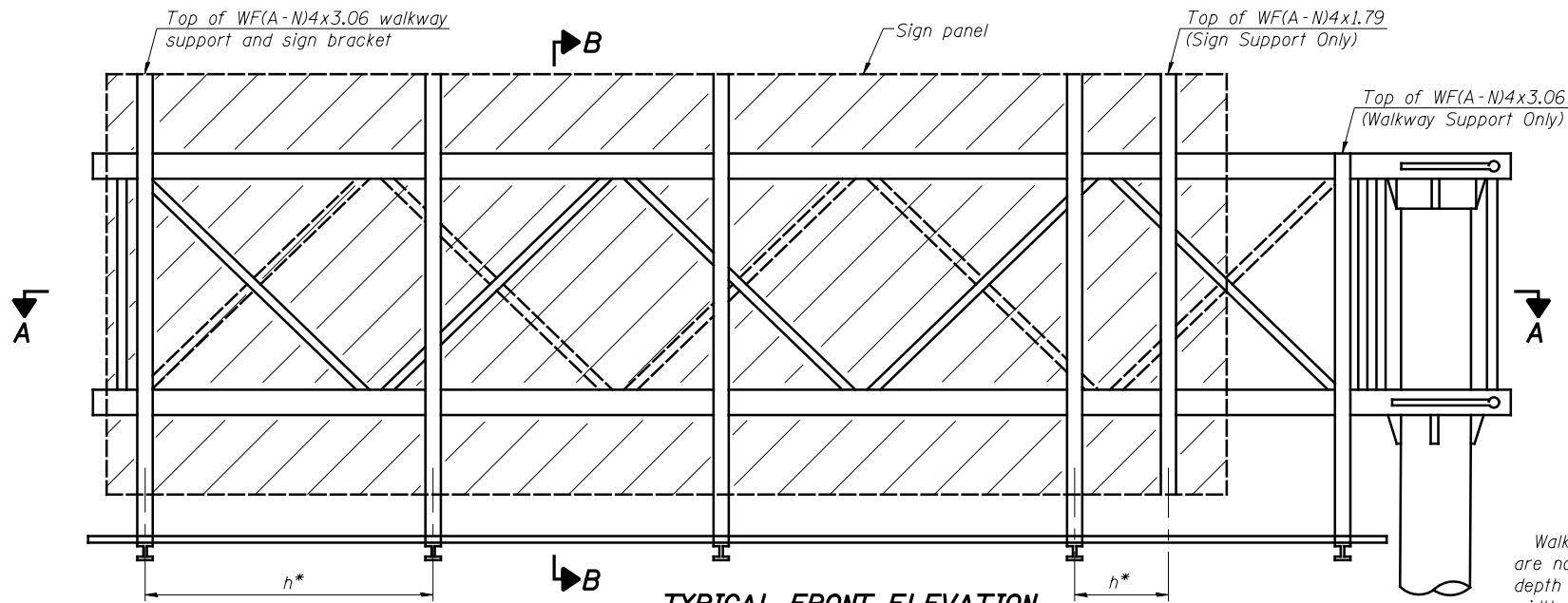
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		DRAWN - PDB	REVISED -
		CHECKED - BRM	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

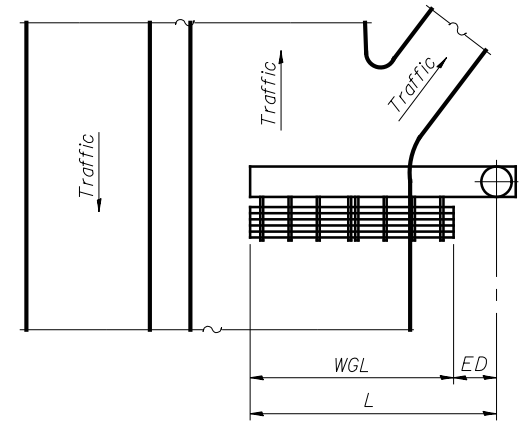
CANTILEVER SIGN STRUCTURES - ALUMINUM WALKWAY
DETAILS - ALUMINUM TRUSS & STEEL POST

SHEET NO. 44 OF 53 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-4R)	EFFINGHAM	1760	431
CONTRACT NO. 74295				
ILLINOIS FED. AID PROJECT				

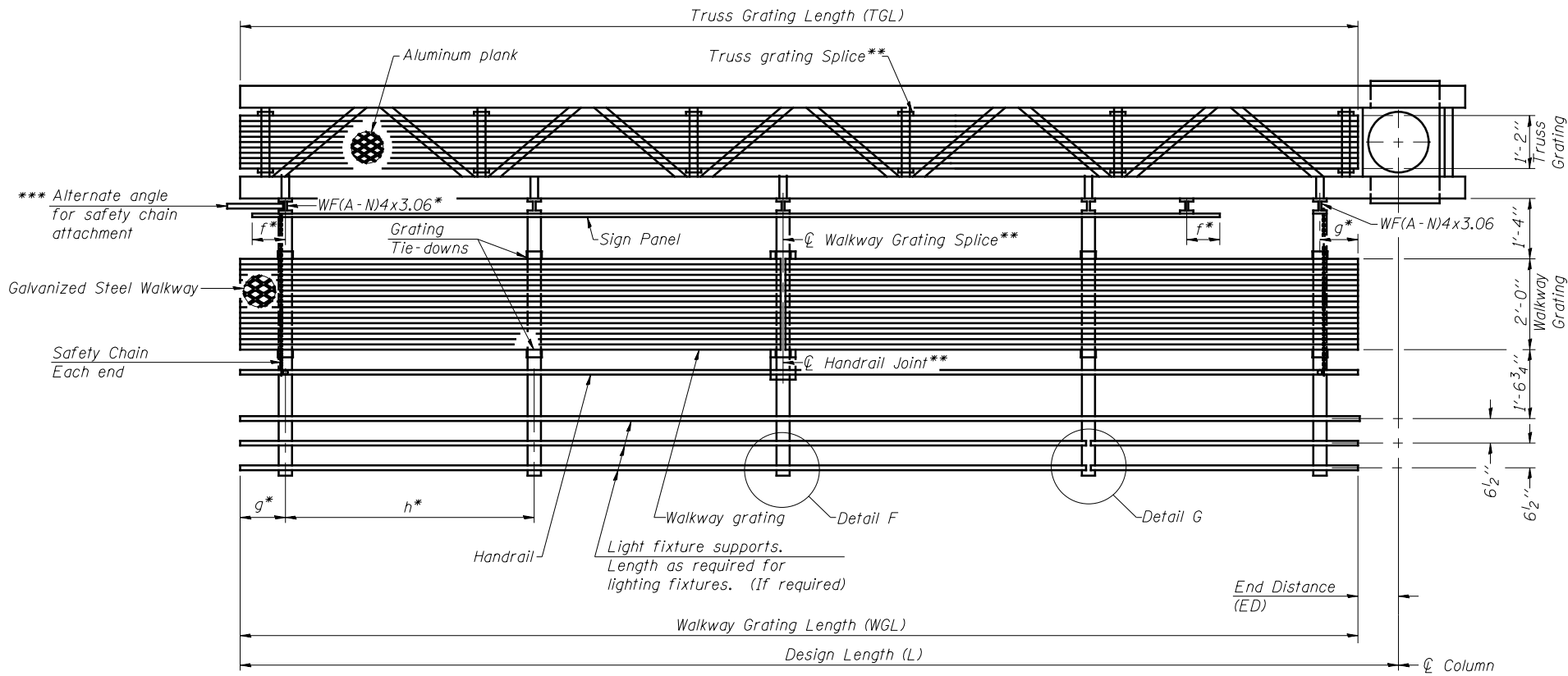


TYPICAL FRONT ELEVATION
With lights and handrail omitted for clarity.



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

Walkway and truss grating dimensions are nominal and may vary (width ±1/2", depth ±1/2") based on available standard widths.



SECTION A-A

Truss grating to facilitate inspection shall run full length of cantilevers. Cost of truss grating is included in Overhead Sign Structure Cantilever.

Handrail and walkway grating shall span a minimum of three brackets between splices.
** Use and location of handrail joints or grating splices are optional, based on lengths needed and material availability.

$$TGL = L - \left(\frac{\text{Post O.D.}}{2} + 6'' \right)$$

Structure Number	Station	WGL	ED	TGL
7C025I057L161.8	2280+10	19'-6"	10'-6"	28'-6"
7C025I057L162.5	2316+90	19'-6"	10'-6"	28'-6"
7C025I057L162.8	2331+00	19'-6"	10'-6"	28'-6"
7C025I057R163.0	24+75	19'-6"	10'-6"	28'-6"

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 to center of nearest bracket)
 h = 6'-0" maximum (center to center sign and/or walkway support brackets, WF(A-N)4x1.79 or WF(A-N)4x3.06)
 *** If walkway bracket at safety chain location is behind sign, add angle to bracket. See alternate safety chain attachment on base sheet OSC-A-8.
 For details of sign placement, sign/walkway brackets, truss and walkway gratings, grating splices and Section B-B, see Base Sheet OSC-A-7S.
 For details of handrail, handrail joint, safety chain and Details F and G, see Base Sheet OSC-A-8.

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

OSC-A-6S

6-1-12

FILE NAME =	USER NAME =	DESIGNED - ESW	REVISED -
		CHECKED - JWS	REVISED -
		DRAWN - PDB	REVISED -
		CHECKED - BRM	REVISED -

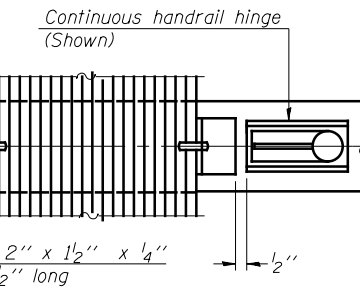
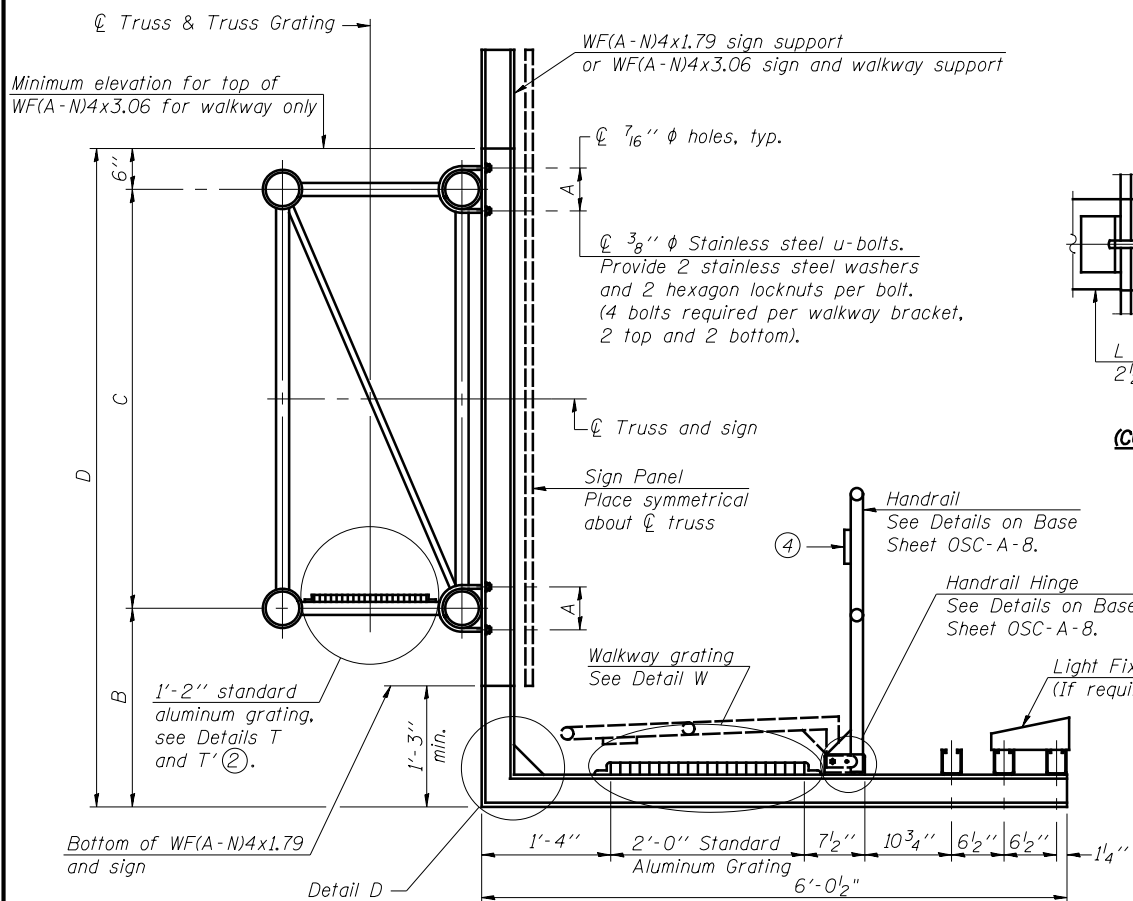
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES - ALTERNATE STEEL
WALKWAY DETAILS - ALUMINUM TRUSS & STEEL POST

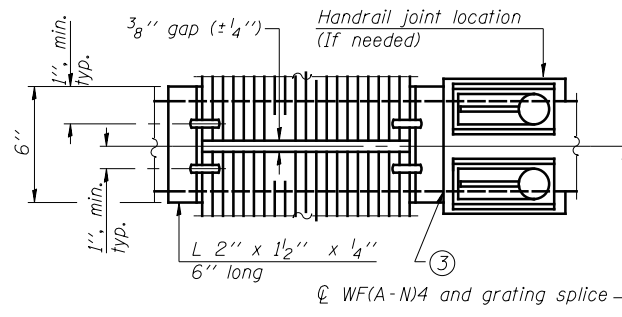
SHEET NO. 45 OF 53 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-4R)	EFFINGHAM	1760	432
CONTRACT NO. 74295				

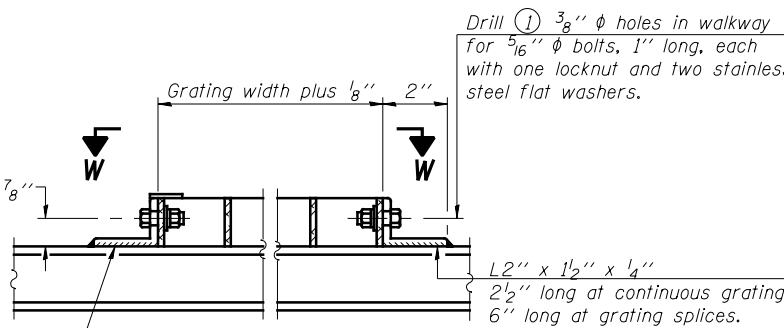
ILLINOIS FED. AID PROJECT



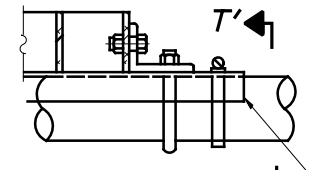
SECTION W-W
(Walkway grating)



SECTION W-W
(AT WALKWAY GRATING SPLICE)

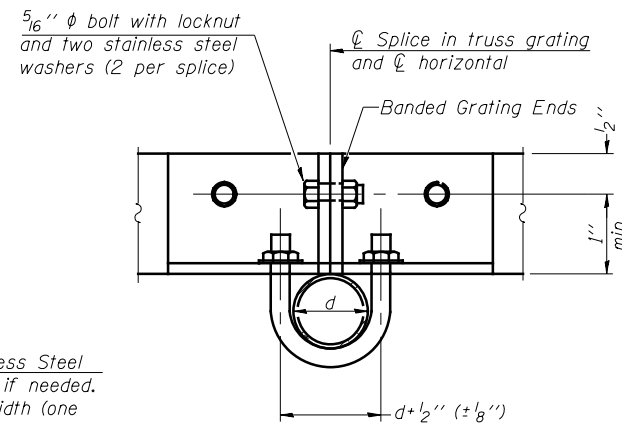


DETAIL W
(Walkway grating)

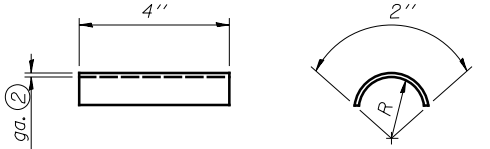


DETAIL T'
(Truss grating splice)

Details not shown same as Detail T. Alternate materials may be used subject to the Engineer's review and approval.



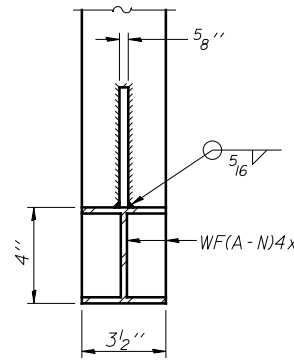
SECTION T'-T'



SHIM DETAIL

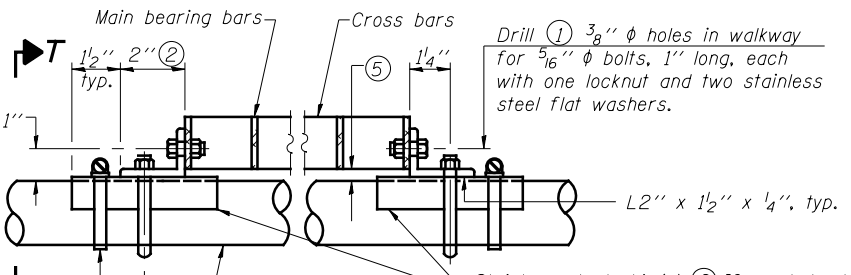
SPECIFICATIONS FOR STANDARD ALUMINUM GRATING
Main Bearing Bars (MBB) shall be 3/16" x 1 1/2" on 1 3/16" centers and conform to ASTM B211 Alloy 6061-T6.
Cross bars (CB) shall be 3/16" x 1 1/2" on 4" centers and conform to ASTM B221 Alloy 6063-T5 or 6061-T6.

OR
Aluminum Grating with modified "t" sections for main bearing bars shall meet the following requirements:
Main bars shall conform to ASTM B221 Alloy 6061-T6 and have a minimum section modulus equal to 0.0705 in.³ per bar, a depth of 1 1/2", spaced on 1 3/16" centers.
Cross bars shall conform to ASTM B221 Alloy 6063-T5 or T-42 and spaced on 4" centers.



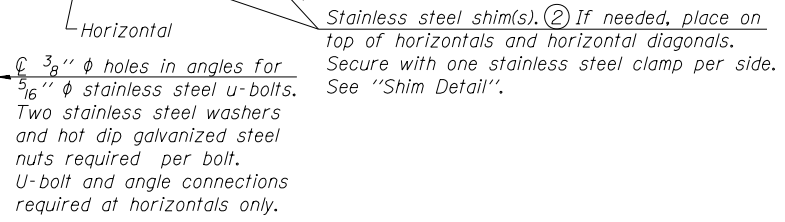
SECTION B-B

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.

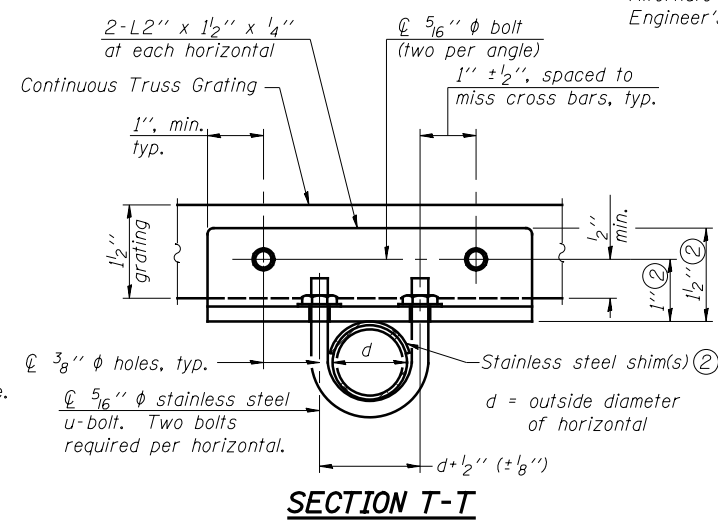


SECTION D-D

Screw type stainless steel tube clamp at shim location



DETAIL T
(Continuous Truss grating)



SECTION T-T

Structure Number	Station	A	⑥ B	C	⑥ D
7C025I057L161.8	2280+10	7"	7'-0"	5'-6"	13'-0"
7C025I057L162.5	2316+90	7"	6'-0"	5'-6"	12'-0"
7C025I057L162.8	2331+00	7"	7'-0"	5'-6"	13'-0"
7C025I057R163.0	24+75	7"	7'-0"	5'-6"	13'-0"

- Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment.
- Stainless steel shims shall be placed as shown in Detail T if needed to compensate for alignment variations between horizontal and diagonal pipes beyond adjustment provided by angles. Thicker shims may be used subject to shims performing properly.
- If Handrail Joint present, weld angle to WF(A-N)4 and 1/4" extension bars. (See Base Sheet OSC-A-8.)
- 1/8" x 1/2" x 2" welded to handrail posts to protect locations that contact grating.
- Tube to grating gap may vary from 0 to 1/2", max. to align walkway, allow for camber, etc.
- Based on actual sign height, D_s, given on OSC-A-1.

OSC-A-7

6-1-12

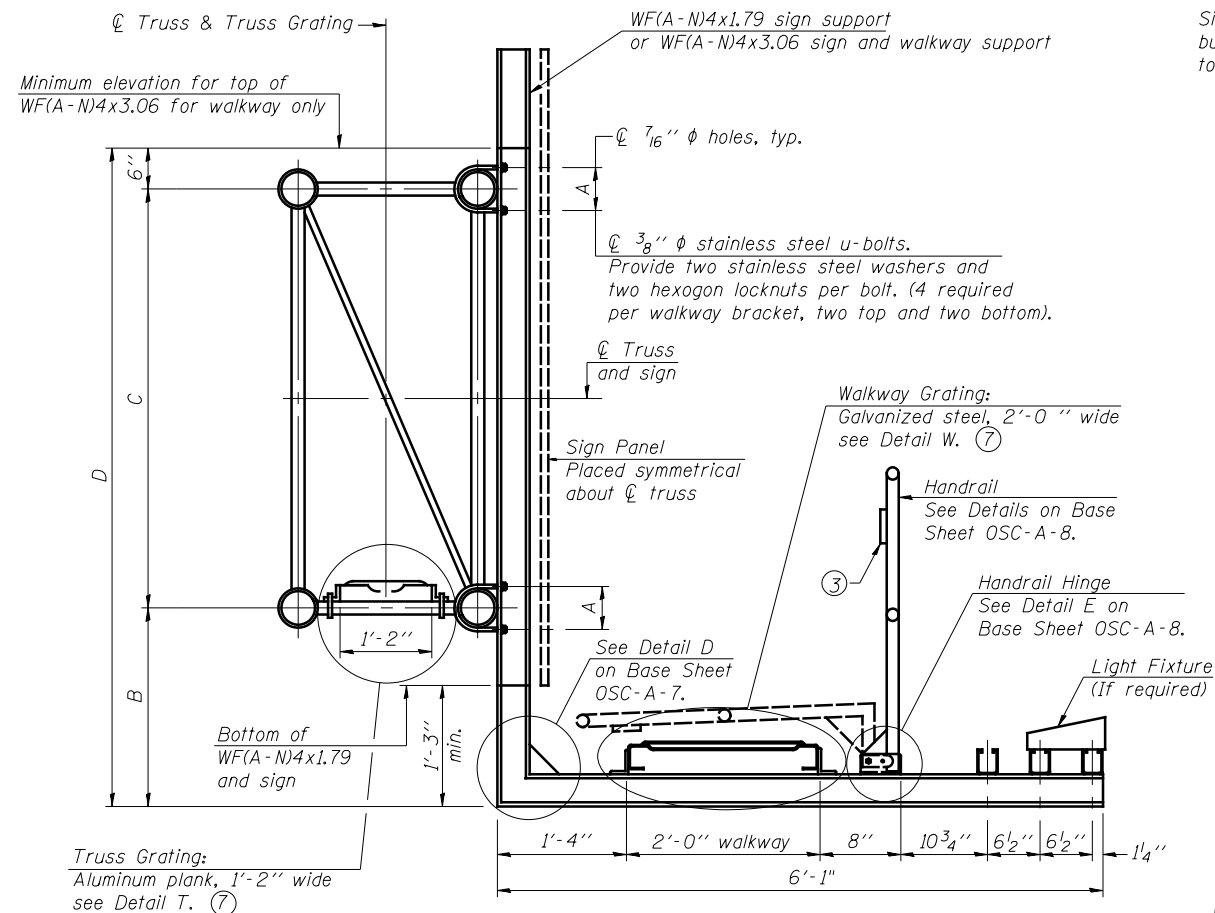
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		CHECKED - JWS	REVISED -
		DRAWN - PDB	REVISED -
		CHECKED - BRM	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

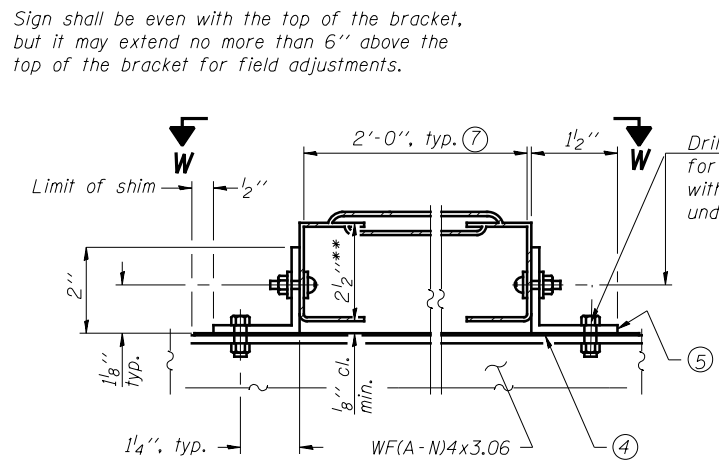
CANTILEVER SIGN STRUCTURES - WALKWAY DETAILS
ALUMINUM TRUSS & STEEL POST

F.A.I. RTE. 57/70	SECTION (25-4R)	COUNTY EFFINGHAM	TOTAL SHEETS 1760	SHEET NO. 433
CONTRACT NO. 74295			ILLINOIS FED. AID PROJECT	

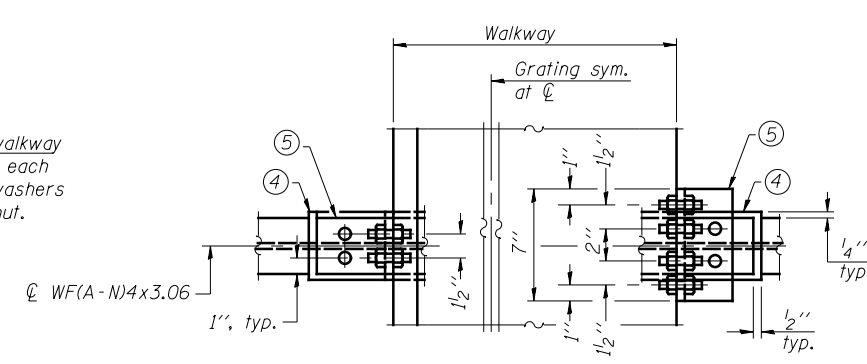
SHEET NO. 46 OF 53 SHEETS



SECTION B-B

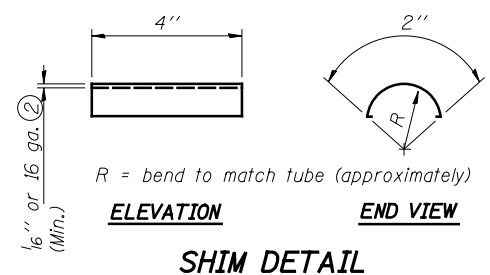


DETAIL W
GALVANIZED STEEL WALKWAY GRATING

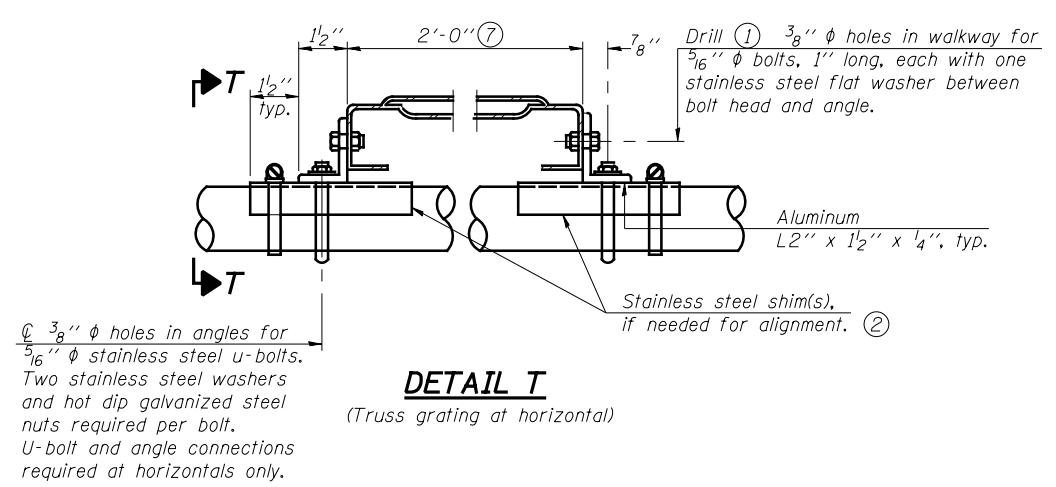


WALKWAY GRATING CONTINUOUS AT WALKWAY GRATING SPLICE

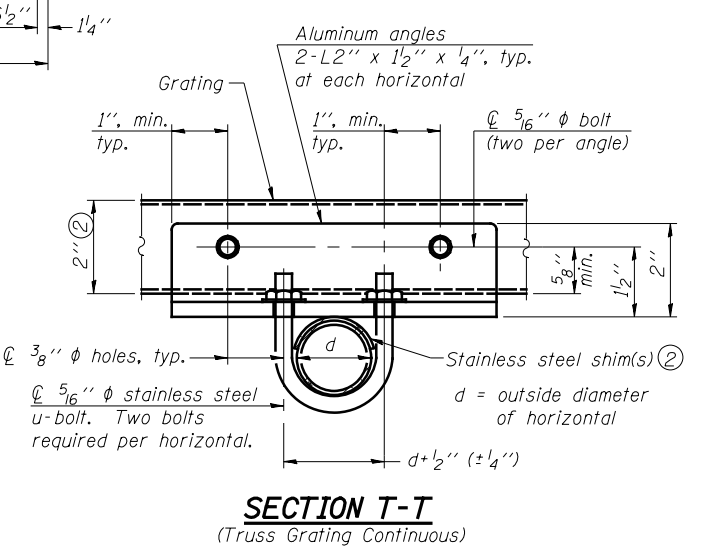
SECTION W-W



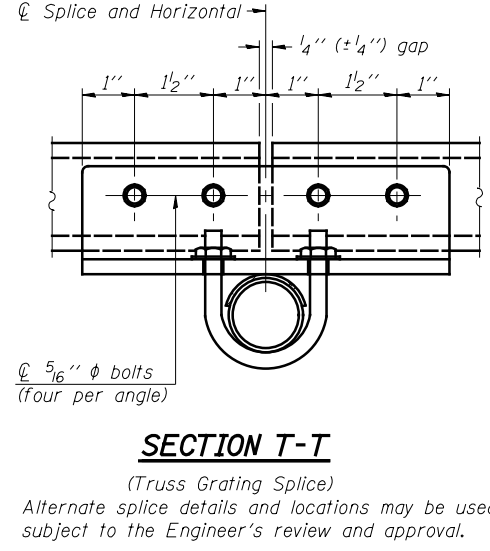
- ① Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment.
- ② Stainless steel shims shall be placed under angles at horizontals and horizontal diagonals if needed to compensate for alignment variations and differences in horizontal 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.
- ③ 1/8" x 1/2" x 2" welded to handrail posts to protect locations that contact grating.
- ④ 1/16" (or 16 ga.) x 2 1/2" x 4" stainless steel shim adhered to top of WF(A-N)4x3.06 beneath each galvanized angle, typ. Adhesives for shims shall be suitable for materials joined and full exposure conditions.
- ⑤ Galvanized steel L2" x 2" x 1/4", 3 1/2" long with continuous grating 7" long at grating splice.
- ⑥ Details shown are considered equal alternatives to Aluminum Walkway Details and may be substituted by Contractor at no charge in contract cost.
- ⑦ 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 ± 1/2", depth 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.
- ⑧ Based on actual sign height, Ds, given on OSC-A-1.



DETAIL T
(Truss grating at horizontal)



SECTION T-T
(Truss Grating Continuous)



SECTION T-T
(Truss Grating Splice)

ALUMINUM TRUSS GRATING

Structure Number	Station	A	⑧ B	C	⑧ D
7C025I057R161.8	2280+10	7"	7'-0"	5'-6"	13'-0"
7C025I057L162.5	2316+90	7"	6'-0"	5'-6"	12'-0"
7C025I057L162.8	2331+00	7"	7'-0"	5'-6"	13'-0"
7C025I057L163.0	24+75	7"	7'-0"	5'-6"	13'-0"

OSC-A-7S

6-1-12

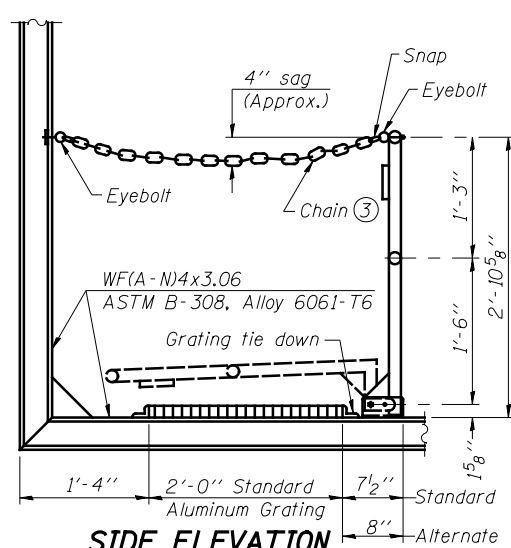
FILE NAME =	USER NAME =	DESIGNED - ESW	REVISED - 4-27-11
		CHECKED - JWS	REVISED -
		DRAWN - PDB	REVISED -
		CHECKED - BRM	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

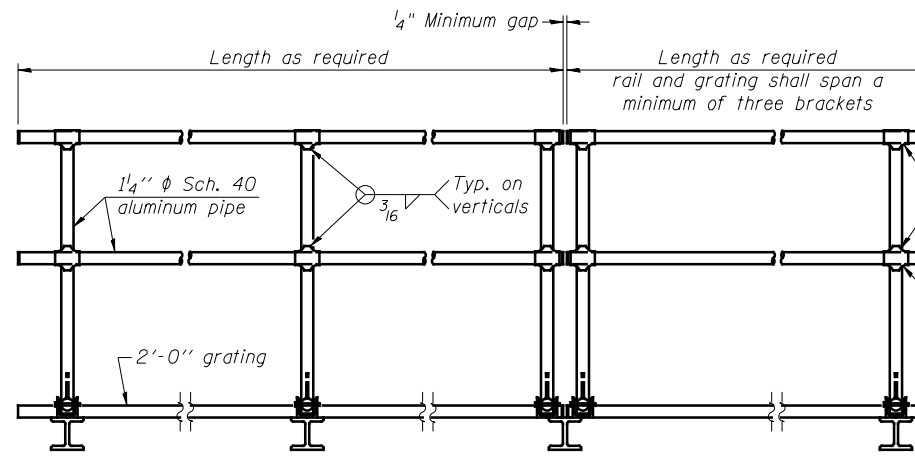
CANTILEVER SIGN STRUCTURES
ALTERNATE WALKWAY DETAILS

SHEET NO. 47 OF 53 SHEETS

F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-4R)	EFFINGHAM	1760	434
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74295	



SIDE ELEVATION
(Showing Safety Chain W/O Sign)

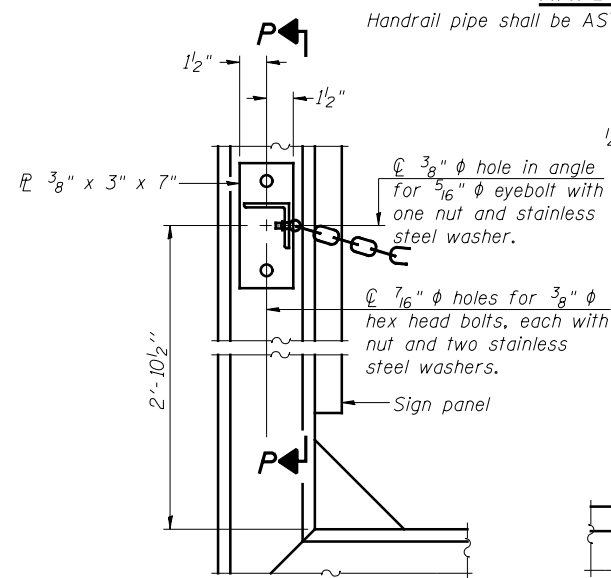


FRONT ELEVATION

HANDRAIL DETAILS

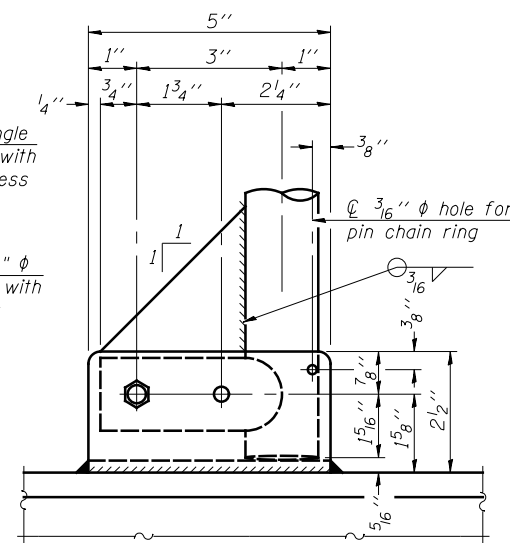
Handrail pipe shall be ASTM B241 or B429, Alloy 6063-T6 or Alloy 6061-T6.

- 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 7/16" hole in fitting for 3/8" bolt. Field drill 7/16" hole in horizontal rail member. Provide locknut and two stainless steel washers for bolt. (Use 5/16" eyebolts in 7/16" holes on top rail at ends only.)

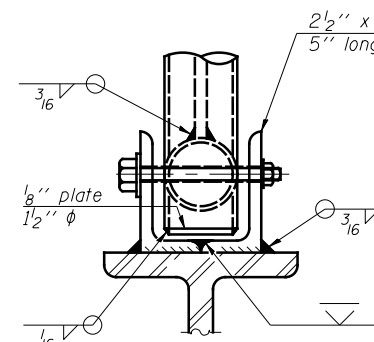


ALTERNATE SAFETY CHAIN ATTACHMENT
(With Sign Present)

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



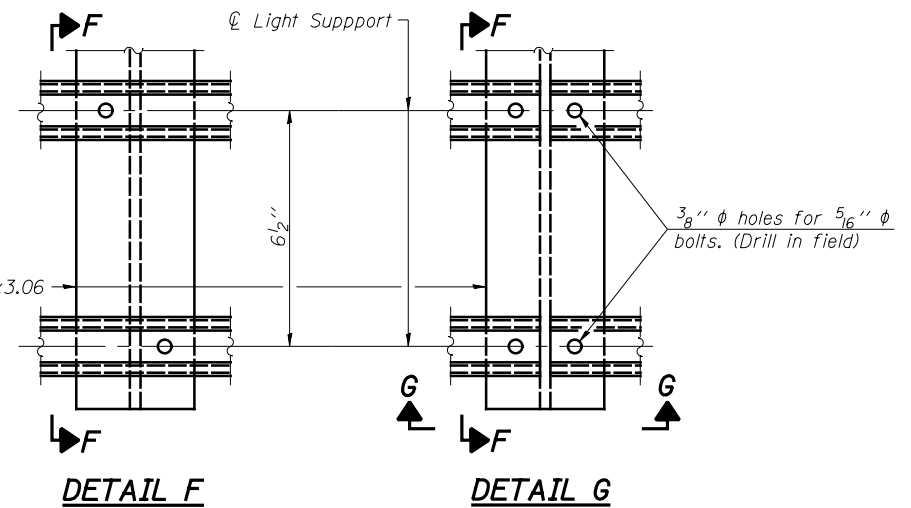
SIDE ELEVATION



FRONT ELEVATION

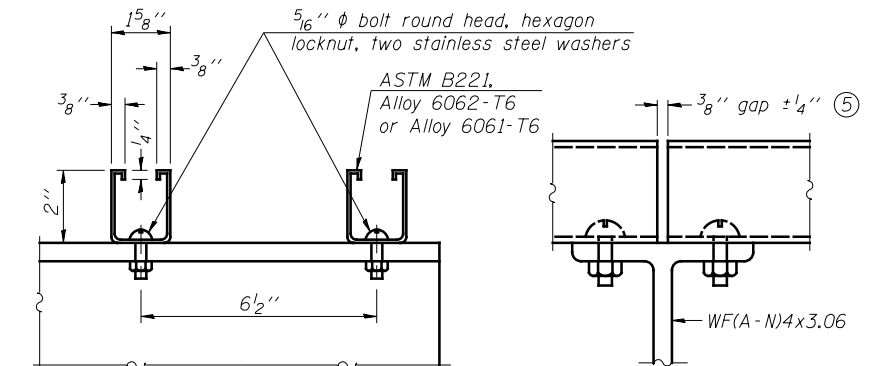
Details not shown same as "ELEVATION" at right.

ELEVATION AT HANDRAIL JOINT ④
Details not shown same as "FRONT ELEVATION"



DETAIL F

DETAIL G

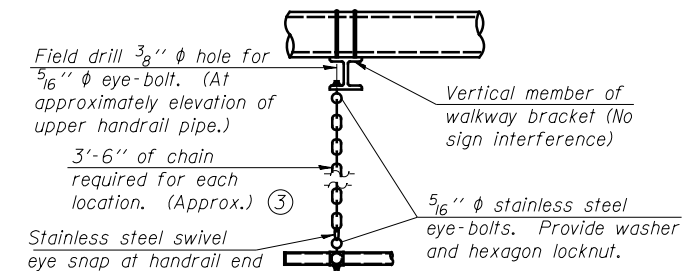


SECTION F-F

SECTION G-G

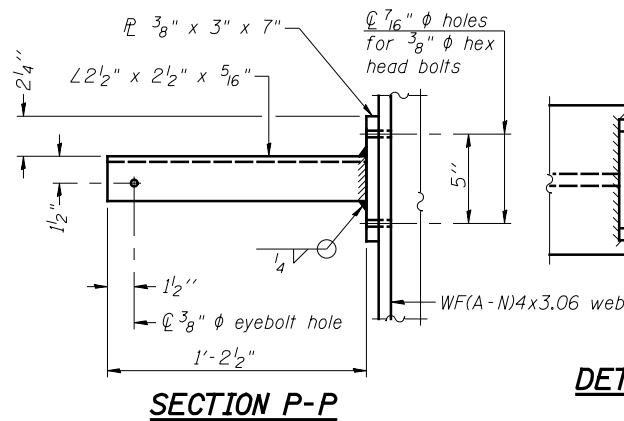
LIGHTING FIXTURE MOUNTS (IF REQUIRED)

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

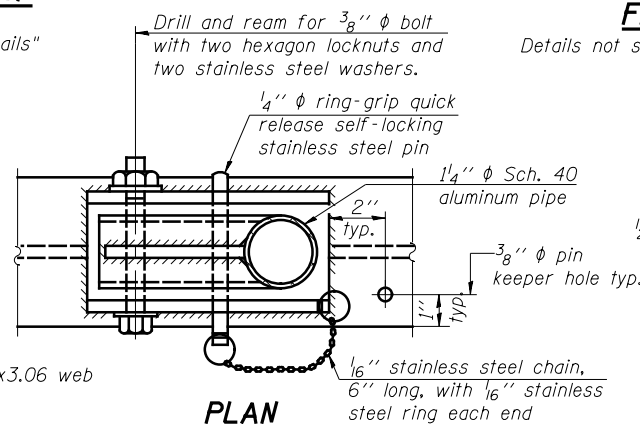


SAFETY CHAIN

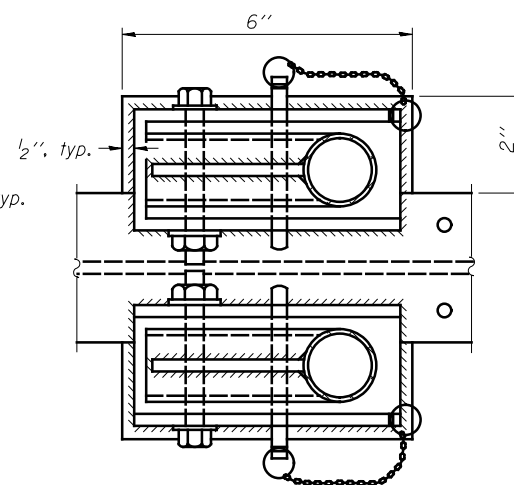
One required for each end of each walkway.



SECTION P-P

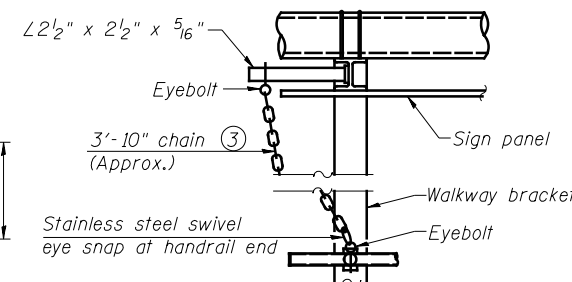


PLAN
DETAIL E HANDRAIL HINGE



PLAN AT HANDRAIL JOINT

Details not shown same as "PLAN"



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.

OSC-A-8

6-1-12

FILE NAME =	USER NAME =	DESIGNED - ESW	REVISED -
		CHECKED - JWS	REVISED -
		DRAWN - PDB	REVISED -
		CHECKED - BRM	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

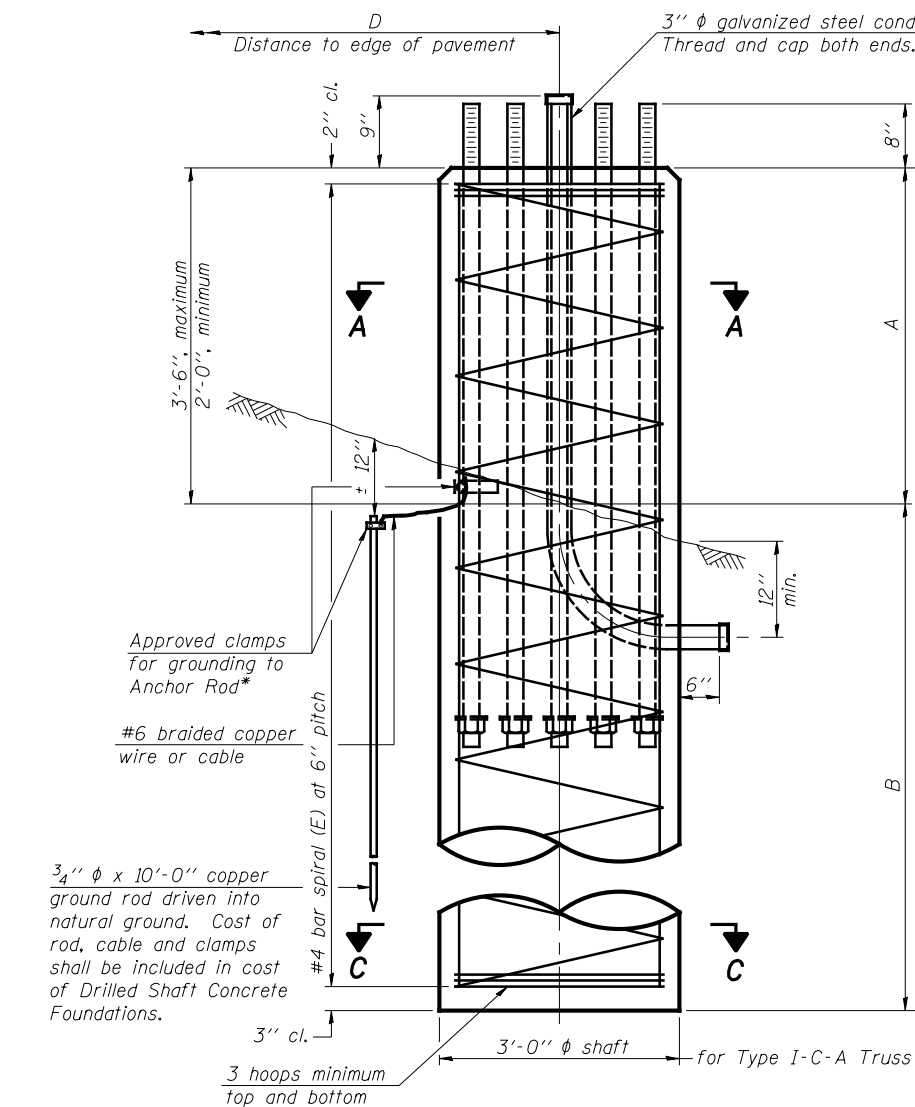
CANTILEVER SIGN STRUCTURES - HANDRAIL DETAILS
ALUMINUM TRUSS & STEEL POST

SHEET NO. 48 OF 53 SHEETS

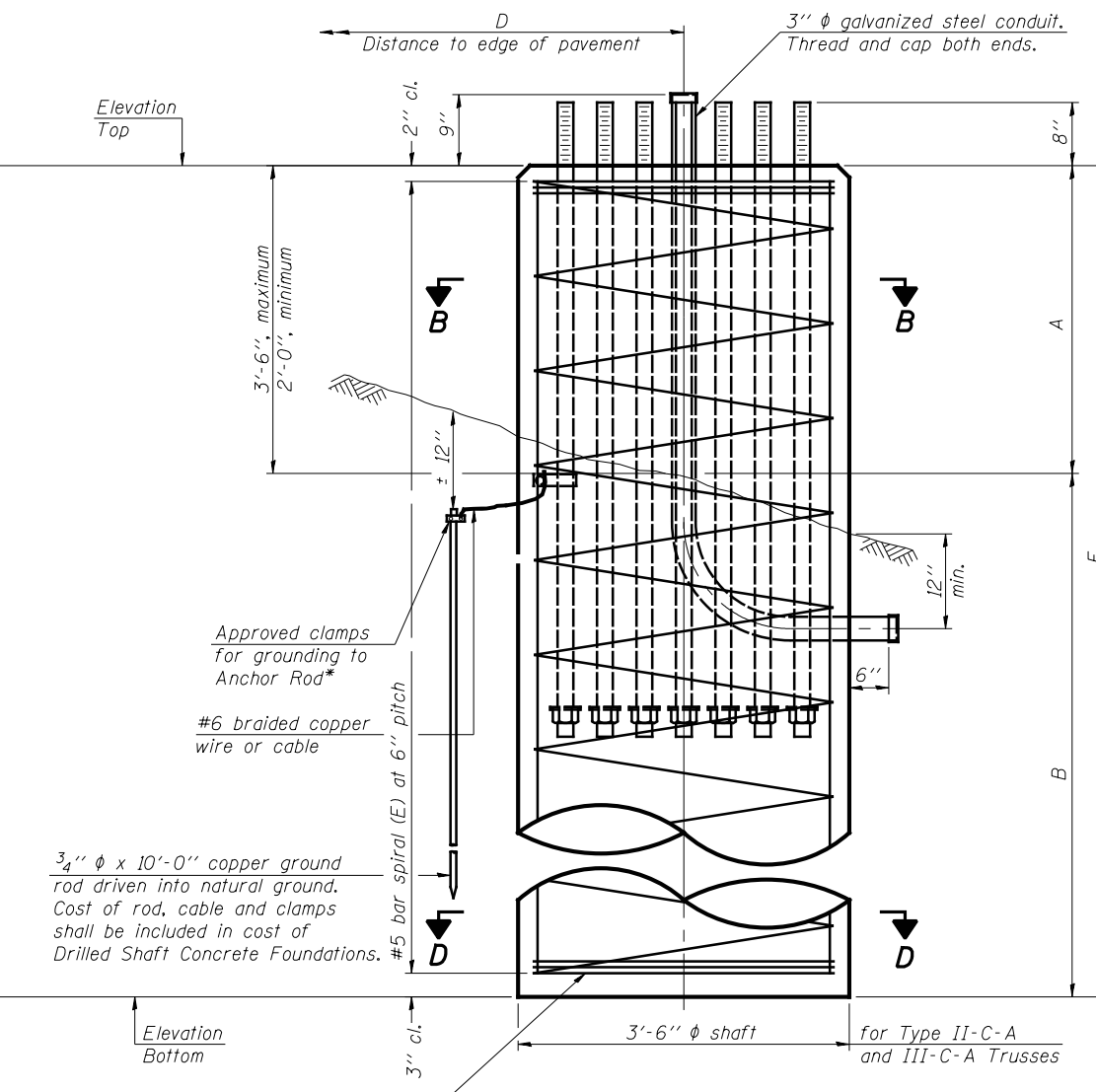
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-4R)	EFFINGHAM	1760	435
CONTRACT NO. 74295				

ILLINOIS FED. AID PROJECT

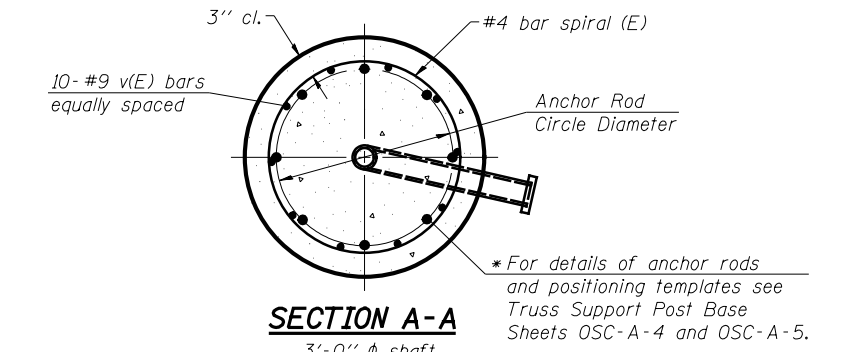
* Grind anchor rod to bright finish at ground clamp location before installing clamp.



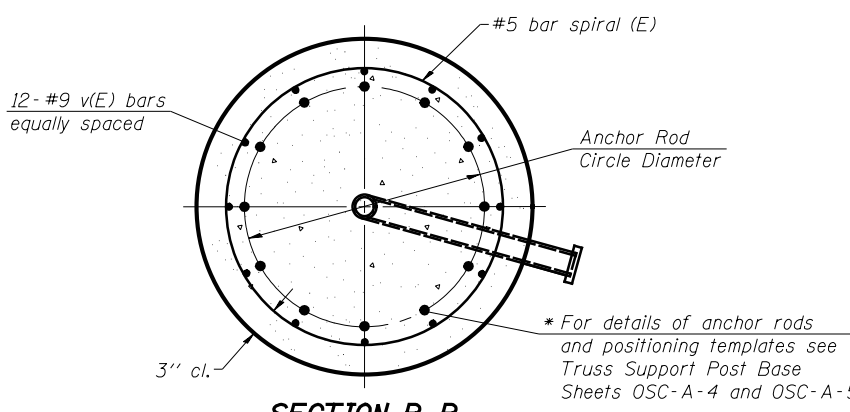
ELEVATION



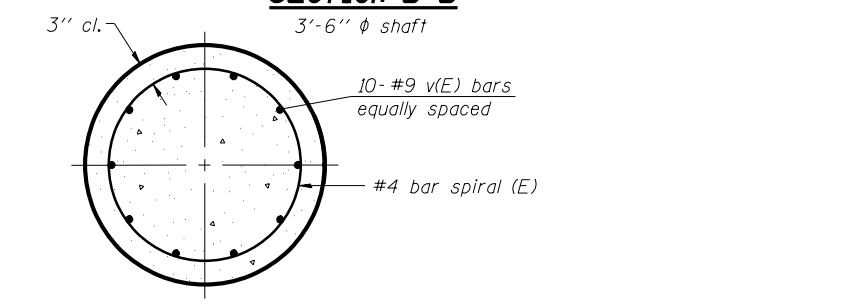
ELEVATION



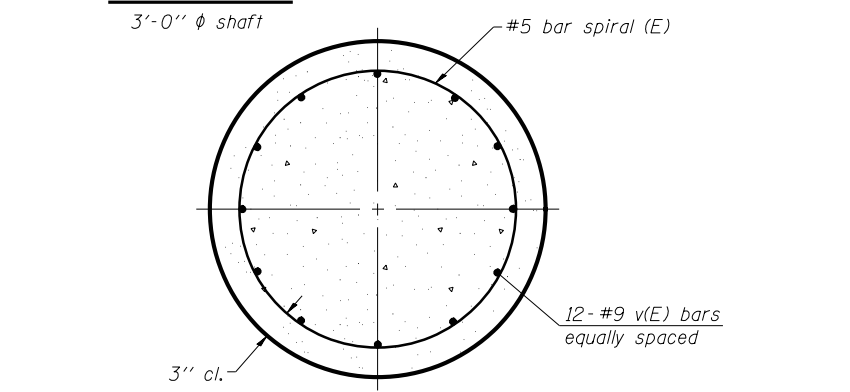
SECTION A-A



SECTION B-B



SECTION C-C



SECTION D-D

NOTES:
 The foundation dimensions shown in the Foundation Design Table are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Qu) of at least 1.25 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 in the Foundation Data Table will be the result of site specific designs.
 If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.
 No sonotubes or decomposable forms shall be used below the lower conduit entrance. Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.
 Concrete shall be placed monolithically, without construction joints.
 Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.
 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 "Drilled Shaft Concrete Foundation".

FOUNDATION DESIGN TABLE								
Truss Type	Post Base Sheet	Maximum Cantilever Length (ft)	Maximum Total Sign Area (sq ft)	Shaft Diameter (in)	"B" Depth (ft)	Anchor Rods		Anchor Rod Circle Diameter (in)
						No.	Diameter (in)	
I-C-A	OSC-A-4	25	170	3.0	16.0	8	2	22
II-C-A	OSC-A-5	30	170	3.5	17.0	12	2	30
II-C-A	OSC-A-5	30	340	3.5	21.5	12	2	30
III-C-A	OSC-A-5	35	170	3.5	19.0	12	2	30
III-C-A	OSC-A-5	35	250	3.5	22.5	12	2	30
III-C-A	OSC-A-5	35	400	3.5	26.5	12	2	30
III-C-A	OSC-A-5	40	400	3.5	32.0	12	2	30

FOUNDATION DATA TABLE										
Structure Number	Station	Truss Type	Shaft Diameter	Elevation Top	Elevation Bottom	Qu	A	B	F	Class DS Concrete Cubic Yards
7C0251057L161.8	2280+10	II-C-A	3'-6"	616.50	592.00		3'-0"	21'-6"	24'-6"	8.8
7C0251057L162.5	2316+90	II-C-A	3'-6"	605.97	581.47		3'-0"	21'-6"	24'-6"	8.8
7C0251057L162.8	2331+00	II-C-A	3'-6"	601.04	576.54		3'-0"	21'-6"	24'-6"	8.8
7C0251057R163.0	24+75	II-C-A	3'-6"	595.50	571.00		3'-0"	21'-6"	24'-6"	8.8

OSC-A-9

6-1-12

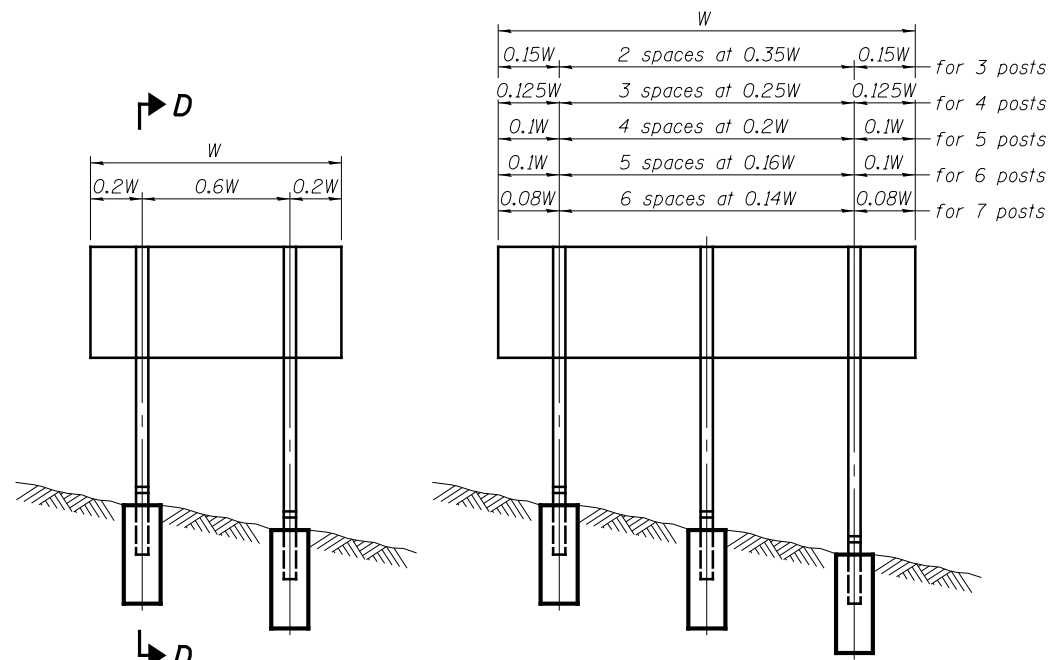
FILE NAME =	USER NAME =	DESIGNED - ESW	REVISOR -
		CHECKED - JWS	REVISIONS -
		DRAWN - PDB	REVISIONS -
		CHECKED - BRM	REVISIONS -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES - DRILLED SHAFT
ALUMINUM TRUSS & STEEL POST

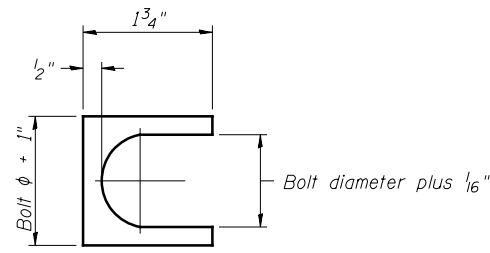
SHEET NO. 49 OF 53 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-4R)	EFFINGHAM	1760	436
CONTRACT NO. 74295			ILLINOIS FED. AID PROJECT	



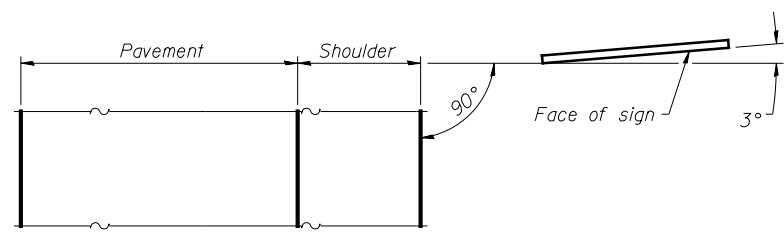
0.15W	2 spaces at 0.35W	0.15W	for 3 posts
0.125W	3 spaces at 0.25W	0.125W	for 4 posts
0.1W	4 spaces at 0.2W	0.1W	for 5 posts
0.1W	5 spaces at 0.16W	0.1W	for 6 posts
0.08W	6 spaces at 0.14W	0.08W	for 7 posts

ELEVATION

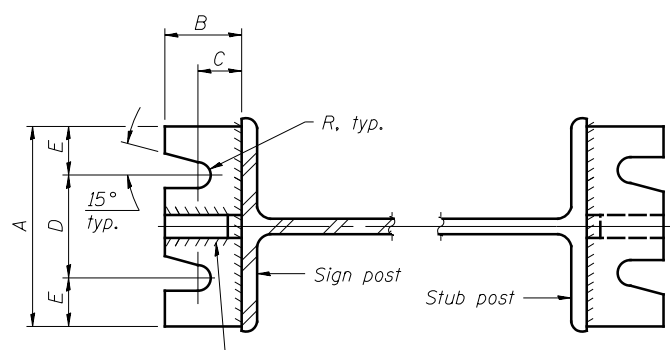


SHIM DETAIL

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

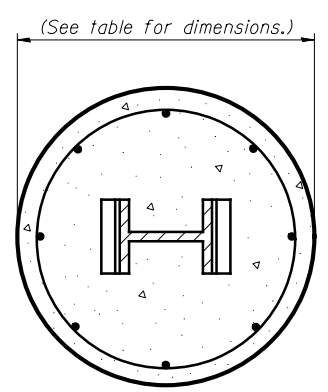


LOCATION SKETCH

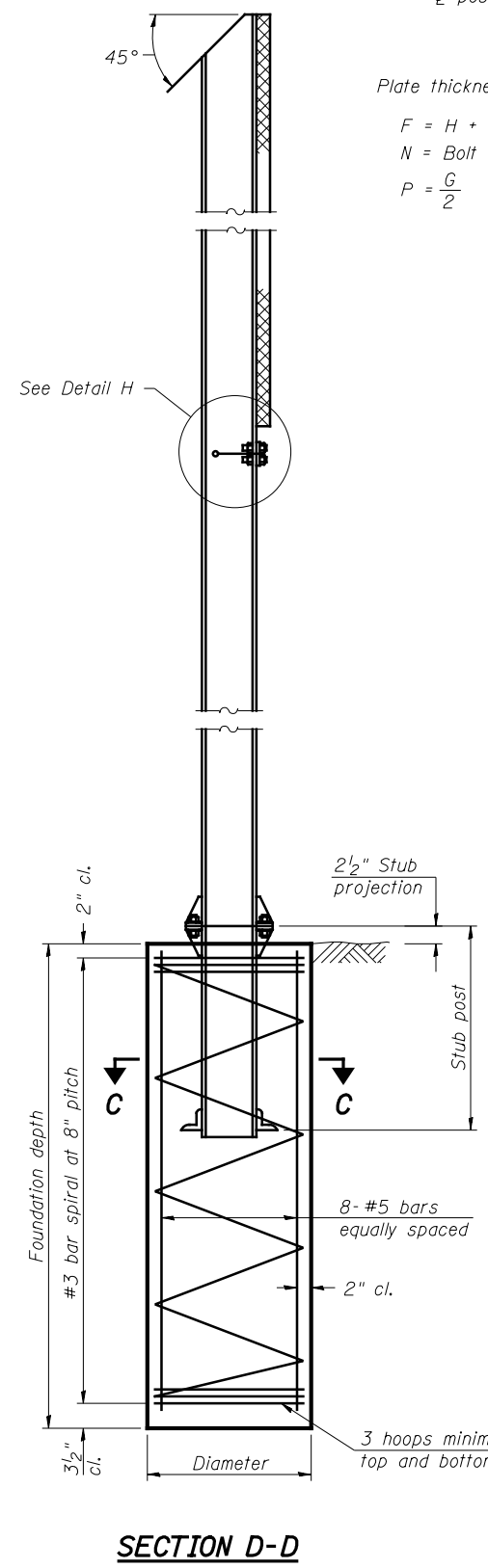


SECTION A-A

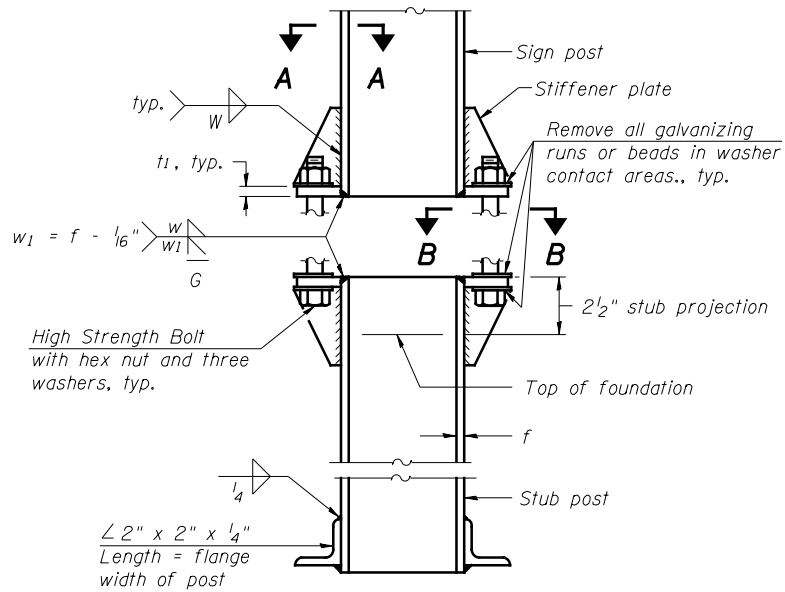
SECTION B-B



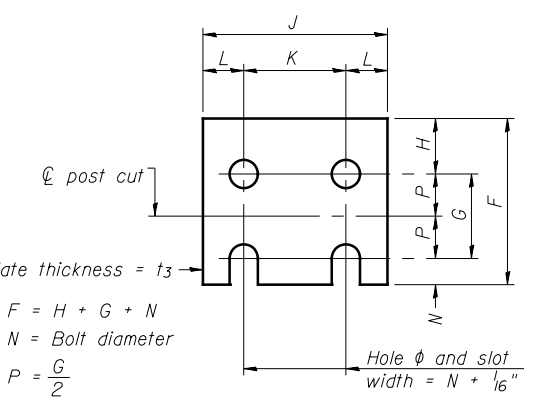
SECTION C-C



SECTION D-D

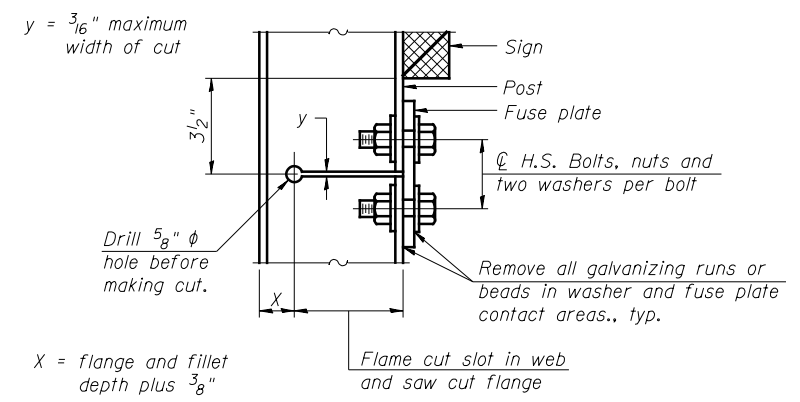


**ELEVATION
SIGN POST & STUB POST**

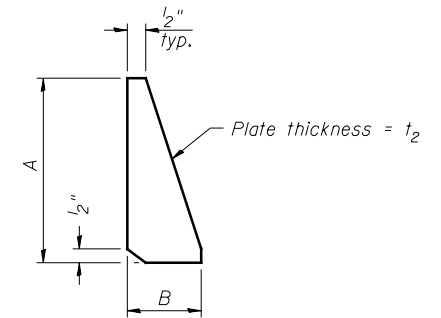


FUSE PLATE DETAIL
(Install with notches down.)

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"
1 1/4"	3 1/2"	1 7/8"



DETAIL H



STIFFENER PLATE 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.

BAW-A-1

6-1-12

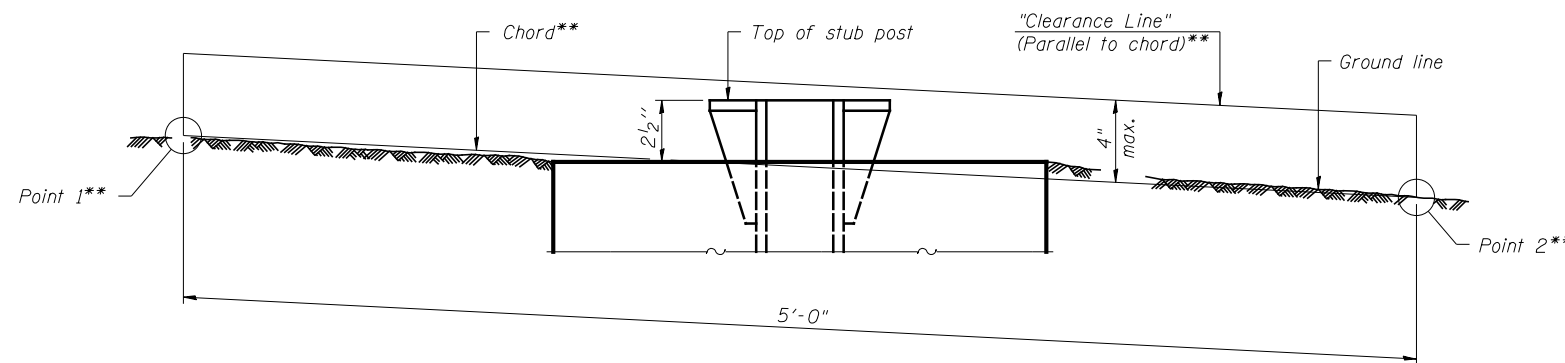
(Sheet 1 of 2)

FILE NAME =	USER NAME =	DESIGNED - ESW	REVISIONS	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BREAK-AWAY WIDE FLANGE STEEL SIGN POST DETAILS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		CHECKED - JWS	REVISIONS			57/70	(25-4R)	EFFINGHAM	1760	437	
		DRAWN - PDB	REVISIONS			CONTRACT NO. 74295					
		CHECKED - BRM	REVISIONS			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	t ₁	t ₂	R	W	J	K	L	t ₃	
	Diameter	* Minimum Depth	Concrete (1) cu. yds.)	Vertical Bars Length	Bar Spirals Diameter	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"	1/4"	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"	1/4"	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 Height																				
	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"	17'-0"	18'-0"	19'-0"	20'-0"	21'-0"	22'-0"	23'-0"	24'-0"
W6x9	1/2" x 1 1/2"	1/2" x 1 1/2"	1/2" x 1 1/2"	1/2" x 1 1/2"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
W6x15	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"	3/4" x 2"	3/4" x 2"	—	—	—	—	—	—	—	—	—	—	—	—
W8x18	1/2" x 1 3/4"	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"	3/4" x 2"	3/4" x 2"	—	—	—	—	—	—	—	—	—	—	—
W10x22	1/2" x 2"	1/2" x 2"	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"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	—	—	—	—	—	—	—	
W10x26	1/2" x 2"	1/2" x 2"	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"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	—	—	—	—	—	—	
W12x26	1/2" x 2"	1/2" x 2"	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"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	—	—	—	—	—	
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"	5/8" x 2"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	—	—	—	
W14x38	1/2" x 2"	1/2" x 2"	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"	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" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"
W16x45	—	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2 1/4"	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" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	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.

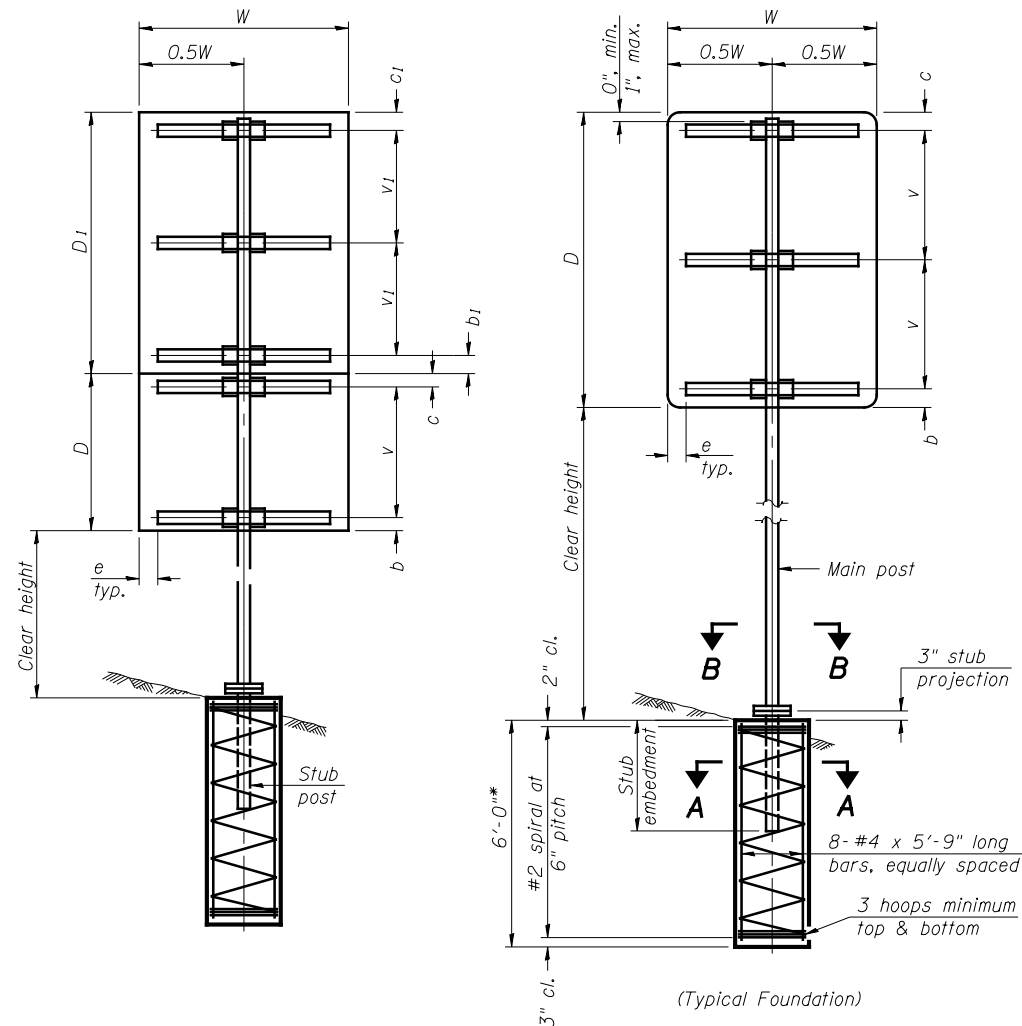
BAW-A-2

6-1-12

(Sheet 2 of 2)

FILE NAME =	USER NAME =	DESIGNED - ESW	REVISIONS -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BREAK-AWAY WIDE FLANGE STEEL SIGN POST TABLES	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		CHECKED - JWS	REVISIONS -			57/70	(25-4R)	EFFINGHAM	1760	438	
		DRAWN - PDB	REVISIONS -			CONTRACT NO. 74295					
		CHECKED - BRM	REVISIONS -			SHEET NO. 51 OF 53 SHEETS					

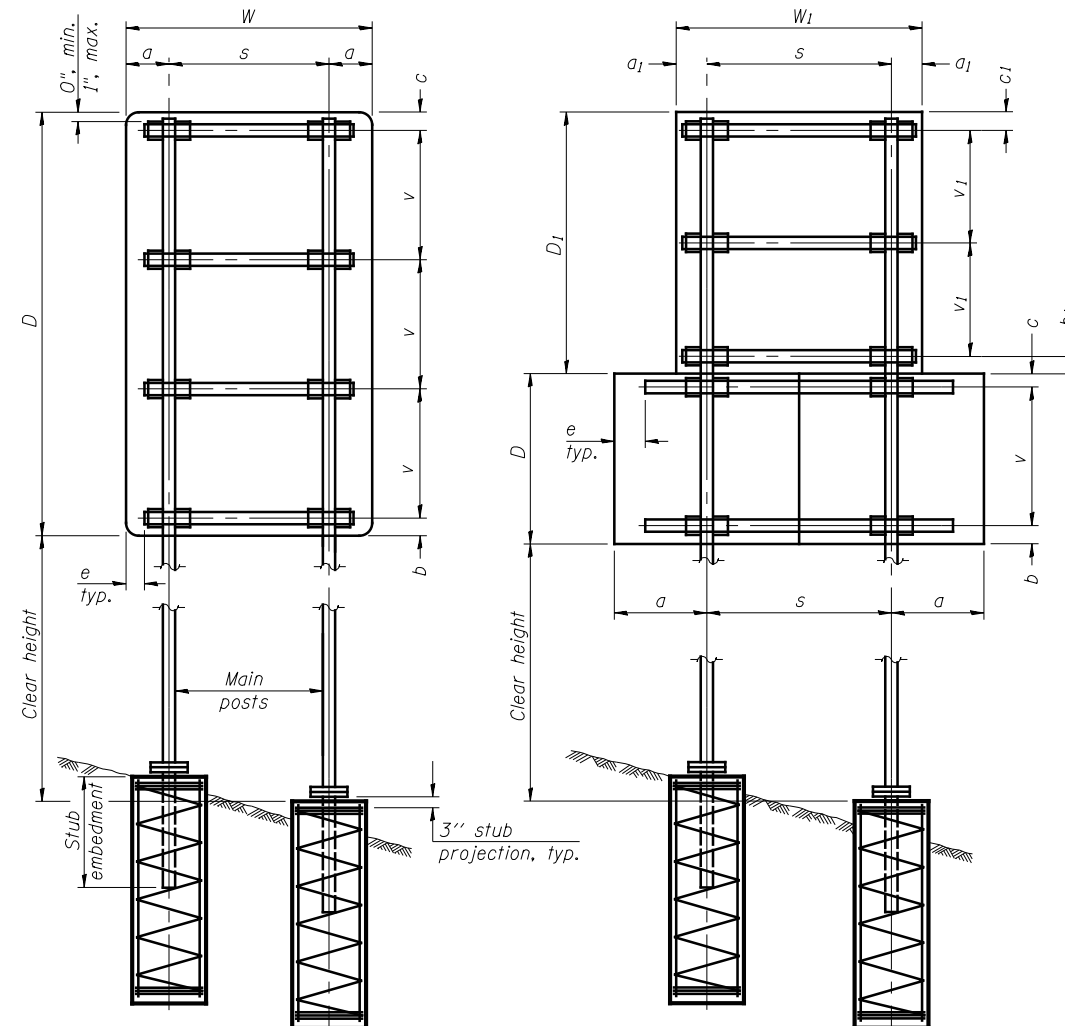
ILLINOIS FED. AID PROJECT



SINGLE POST ASSEMBLY EXAMPLES

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

a or a₁ = 6" min. to 2'-0" max. (Approximately 0.2W or 0.2W₁)
 b or b₁ = 3" min. to 4" max
 c or c₁ = 3" min. to 4" max
 e = 0" min. to 6" max
 s = 3'-0" min. to 6'-0" max. (Approximately 0.6W or 0.6W₁)
 v or v₁ = 2'-0" min. to 2'-11" max.



DUAL POST ASSEMBLY EXAMPLES

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.

One foundation requires 0.7 cubic yards of concrete and 46 pounds of reinforcement bars and spiral hoops.

LOADING: 80 mph wind with 30% gust factor, normal to sign.

DESIGN STRESSES:
 Structural steel - 20,000 psi
 Reinforcing steel - 20,000 psi
 Concrete - 1,400 psi
 Footing soil pressure - 2,000 psf

After fabrication, the post, fuse plate, base 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.

For Sections A-A and B-B, see Base Sheet BAT-A-2.

FOUNDATIONS:
 All necessary excavation or drilling (except in rock); backfilling with excavated material; disposal of unsuitable or surplus material; formwork; and furnishing and placing the Class SI Concrete and reinforcement bars, shall be included in the pay item used for foundations.

The measurement of the tubular steel shall be computed on the basis of the weight per foot of the support, multiplied by the combined length of the main posts and stub posts.

MAIN POST STEEL TUBING	WEIGHT PER FOOT (POUND)	STUB POST TABLE		MAIN POST TABLE				
		Stub Embedment	Stub Post Length	Bolt Size	A	t	R	Bolt Circle
3" x 2" x 1/4"	7.11	2'-0"	2'-3"	1/2" x 2 3/4"	8 1/4"	5/8"	9/32"	6 1/2"
4" x 2" x 1/4"	8.81	2'-0"	2'-3"	1/2" x 2 3/4"	8 1/4"	5/8"	9/32"	6 1/2"
4" x 3" x 1/4"	10.51	2'-3"	2'-6"	5/8" x 3 1/4"	10"	3/4"	11/32"	8"
5" x 3" x 1/4"	12.21	2'-3"	2'-6"	5/8" x 3 1/4"	10"	3/4"	11/32"	8"
6" x 3" x 1/4"	13.91	2'-3"	2'-6"	5/8" x 3 1/4"	11 1/2"	3/4"	11/32"	9 1/2"
6" x 4" x 1/4"	15.62	2'-3"	2'-6"	3/4" x 3 1/2"	11 1/2"	3/4"	13/32"	9 1/2"
6" x 4" x 5/16"	19.08	2'-3"	2'-6"	3/4" x 3 1/2"	11 1/2"	3/4"	13/32"	9 1/2"
7" x 5" x 1/4"	19.02	2'-6"	2'-9"	3/4" x 3 1/2"	1'-2"	3/4"	13/32"	1'-0"
8" x 4" x 1/4"	19.02	2'-6"	2'-9"	3/4" x 3 1/2"	1'-2"	3/4"	13/32"	1'-0"
8" x 6" x 1/4"	22.42	2'-6"	2'-9"	7/8" x 3 1/2"	1'-2"	3/4"	15/32"	1'-0"

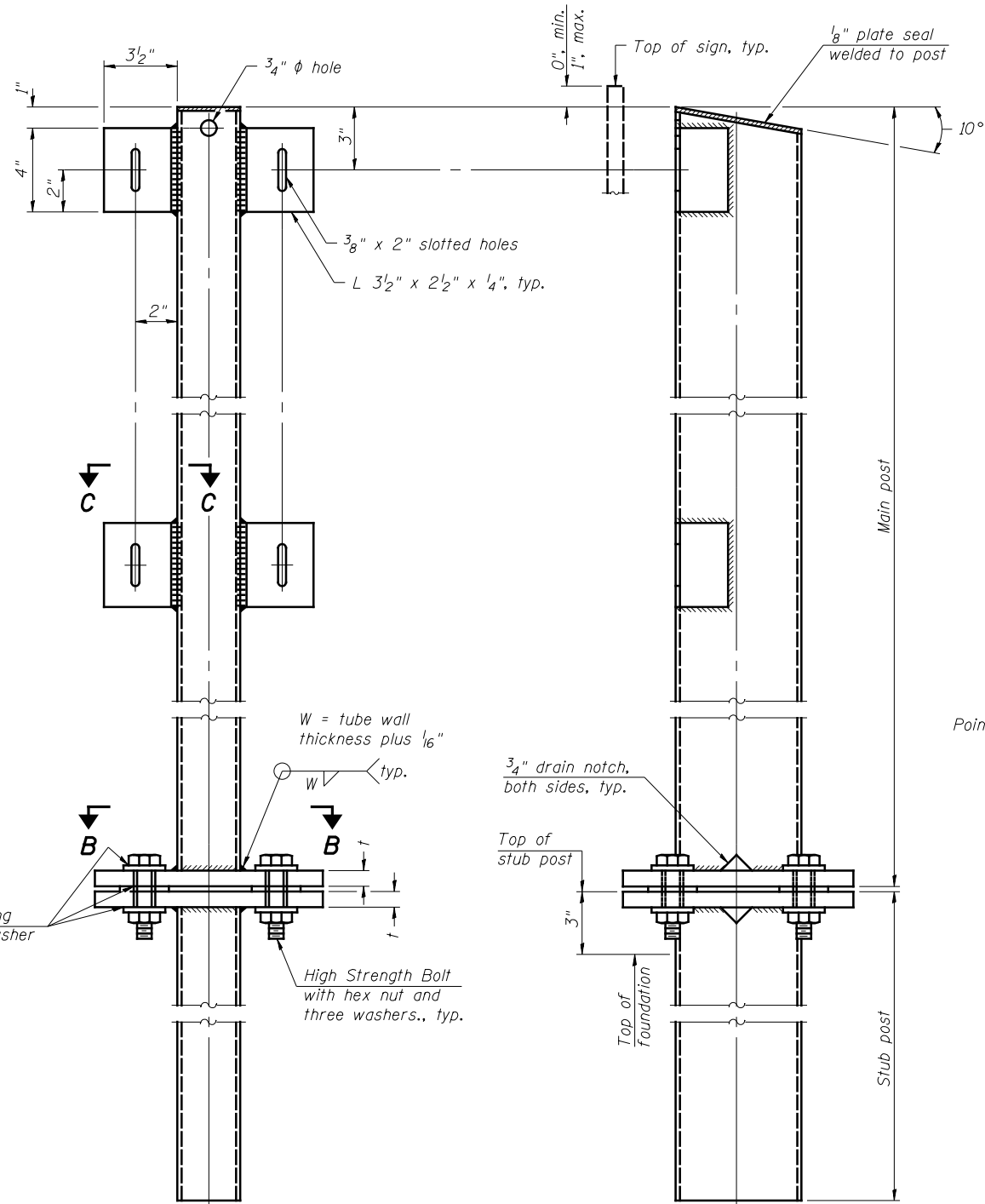
BAT-A-1

6-1-12

(Sheet 1 of 2)

FILE NAME =	USER NAME =	DESIGNED - ESW	REVISOR -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BREAK-AWAY TUBULAR STEEL SIGN POSTS AND FOUNDATIONS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		CHECKED - JWS	REVISOR -				(25-4R)	EFFINGHAM	1760	439	
		DRAWN - PDB	REVISOR -			CONTRACT NO. 74295					
		CHECKED - BRM	REVISOR -			ILLINOIS FED. AID PROJECT					

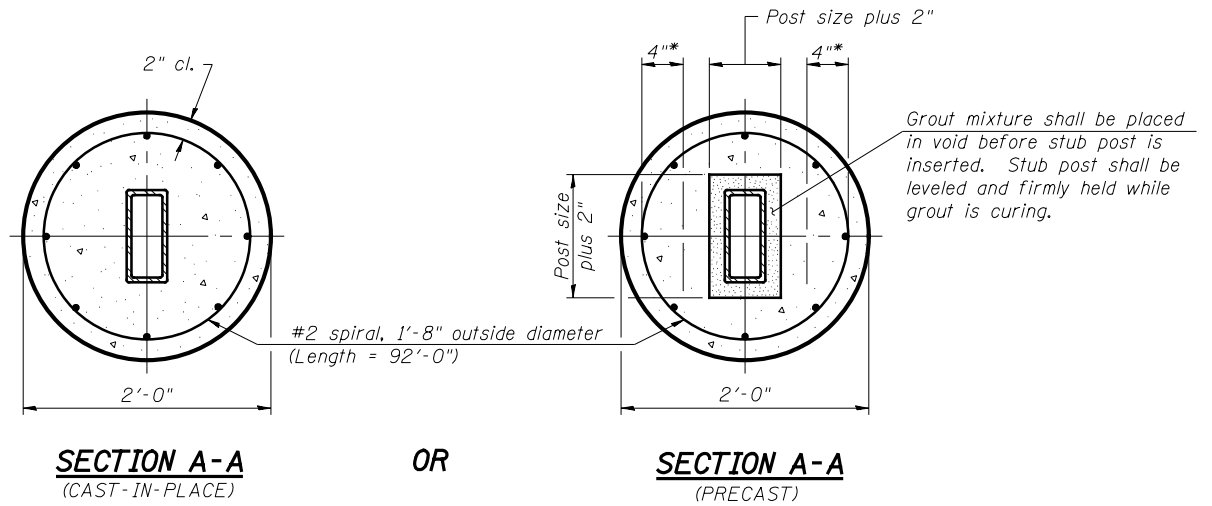
SHEET NO. 52 OF 53 SHEETS



FRONT ELEVATION

SIDE ELEVATION

MAIN POST & STUB POST

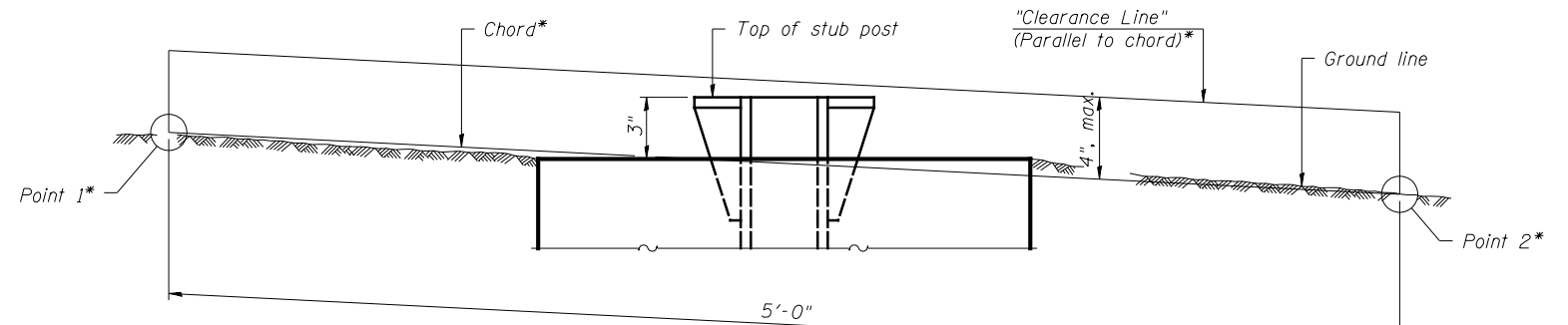


SECTION A-A
(CAST-IN-PLACE)

OR

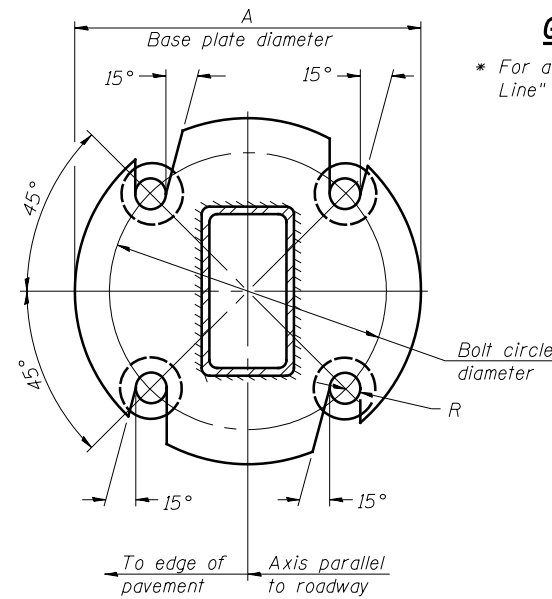
SECTION A-A
(PRECAST)

* Hot dip galvanized lifting loops or inserts may be placed in precast foundation inside the spiral reinforcement but not within 6" of the long axis of the post. Inserts must be adequate for safely lifting a total of 3,000 pounds and must not interfere with installation of the stub post or proper functioning of the slip base.

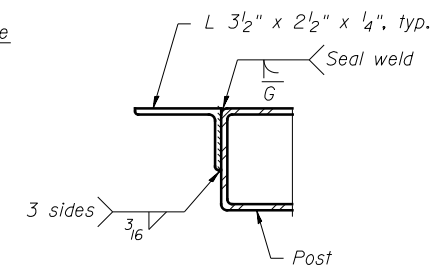


ELEVATION
GROUND LINE & STUB POST

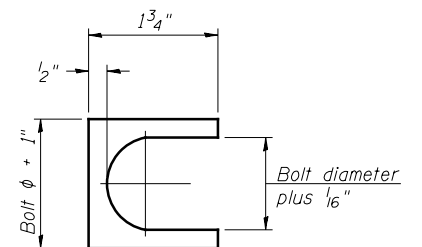
* For all "Point 1" and "Point 2" locations, "Clearance Line" must be at or above top of stub post.



SECTION B-B



SECTION C-C
Weld continuously around corners.



SHIM DETAIL

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

BAT-A-2

6-1-12

(Sheet 2 of 2)

FILE NAME =	USER NAME =	DESIGNED - ESW	REVISIONS -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BREAK-AWAY TUBULAR STEEL SIGN POSTS AND DETAILS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED - JWS	REVISIONS -			(25-4R)	EFFINGHAM	1760	440	
		DRAWN - PDB	REVISIONS -			CONTRACT NO. 74295				
		CHECKED - BRM	REVISIONS -			ILLINOIS FED. AID PROJECT				
				SHEET NO. 53 OF 53 SHEETS						

TRAFFIC SIGNAL GENERAL NOTES

THIS TRAFFIC SIGNAL PORTION OF THE ENTIRE PROJECT IS LOCATED AT THE INTERSECTION OF FAI 57/70 SOUTHBOUND RAMPS AND US 45 ALL IN THE CITY OF EFFINGHAM, EFFINGHAM COUNTY THE WORK INCLUDED IN THIS SECTION CONSISTS OF INSTALLING TRAFFIC SIGNALS AND ALL OTHER WORK NECESSARY TO COMPLETE THIS SECTION.

THE EXISTING UTILITY LINES ARE SHOWN ON THE PLANS TO INDICATE THEIR PRESENCE AND APPROXIMATE LOCATION. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING CONSTRUCTION. CALL J.U.L.I.E. AT 1-800-892-0123.

THE TRAFFIC SIGNAL ENGINEER (JOSH PORTER) AT THE ILLINOIS DEPARTMENT OF TRANSPORTATION SHALL BE NOTIFIED AT 217-342-8291 AT LEAST 72 HOURS PRIOR TO TURNING ON ANY FLASHER OR CONTROLLER UNIT.

THE SIZE OF THE CABLE SUPPLIED SHALL BE EQUAL TO OR GREATER THAN THE SIZE OF THE CABLE REQUIRED TO CARRY THE LOAD BETWEEN THE CONTROLLER AND THE SERVICE INSTALLATION.

THE CONTRACTOR SHALL ARRANGE FOR A FACTORY OR SUPPLIER REPRESENTATIVE TO BE PRESENT AT THE INTERSECTION WHEN THE SIGNALS ARE TURNED ON. THE REPRESENTATIVE SHALL MAKE CERTAIN THAT ALL EQUIPMENT OPERATES TO THE SATISFACTION OF THE ENGINEER.

A 2 FOOT MINIMUM, 6 FOOT DESIRABLE, HORIZONTAL CLEARANCE SHALL BE MAINTAINED FROM THE BACK OF CURB TO THE EDGE OF HANDHOLES, JUNCTION BOXES AND SIGNAL POST FOUNDATIONS. A 5 FOOT MINIMUM HORIZONTAL CLEARANCE SHALL BE MAINTAINED FROM THE BACK OF THE CURB TO ALL MAST ARM FOUNDATIONS. CONTROLLER FOUNDATIONS SHALL BE LOCATED AS FAR FROM THE BACK OF THE CURB AS POSSIBLE TO PROTECT THE CONTROLLER CABINET.

ALL HARDWARE SHALL BE TIGHTENED AND WELL SECURED. CABLES SHALL BE NEATLY WOUND IN HANDHOLES. CABLES SHALL BE NEATLY TRAINED IN THE CONTROLLER CABINET.

ALL THREADS OF BOLTS USED IN ASSEMBLY OF TRAFFIC SIGNAL COMPONENTS SHALL BE COATED WITH A NON-LEAD BASED ANTI-SEIZE COMPOUND, SIMILAR TO LEAD PLATE, PRIOR TO ASSEMBLY.

NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR PLACING CONDUIT AT GREATER THAN 2 FOOT MINIMUM DEPTH TO AVOID OBSTACLES SUCH AS UNDERGROUND UTILITIES.

THE CONTRACTOR IS RESPONSIBLE FOR UNCOVERING OR HAND DIGGING AROUND UTILITIES AS NECESSARY. THE COST OF THIS WORK IS TO BE INCLUDED WITH THE TRENCH AND BACKFILL FOR ELECTRICAL WORK PAY ITEM.

THE NUMBER OF CONDUCTORS FOR ELECTRIC CABLES AS SHOWN ON THE PLANS SHALL BE THE MINIMUM NUMBER OF CONDUCTORS FURNISHED FOR EACH LOCATION. THE CONTRACTOR MAY SUBSTITUTE AN ELECTRIC CABLE WITH MORE CONDUCTORS THAN SPECIFIED BUT NO ADDITIONAL COMPENSATION WILL BE MADE FOR THE EXTRA CONDUCTORS.

ALL NEW TRAFFIC SIGNAL WIRING SHALL EXTEND FROM CONTROLLER TO SIGNAL. SPLICES IN HANDHOLES WILL NOT BE ALLOWED.

ALL MAST ARM MOUNTED SIGNAL HEADS ON AN INDIVIDUAL MAST ARM SHALL BE MOUNTED SO THAT THE RED INDICATIONS ARE LEVEL WITH EACH OTHER.

TRAFFIC SIGNAL HEADS SHALL BE PROPERLY COVERED PRIOR TO INTERSECTION TURN-ON OR AS DIRECTED BY THE ENGINEER. THIS COST SHALL BE INCLUDED WITH THE COST OF THE ASSOCIATED SIGNAL HEAD PAY ITEMS.

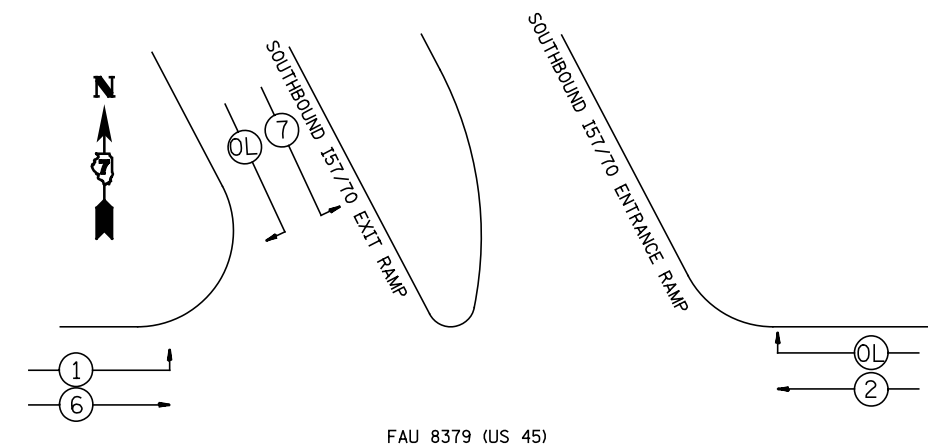
ALL TRAFFIC SIGNAL MAST ARM ASSEMBLIES (STANDARD, COMBINATION, OR DUAL) MUST BE DESIGNED FOR THE LOADINGS SHOWN ON THE HIGHWAY STANDARDS OR THESE SIGNAL PLANS, WHICHEVER IS GREATER.

AMEREN EFFINGHAM OC
JON TIPTON
OFFICE: (217) 347-3141
CELL: (217) 663-5614
EMAIL: JTipton@ameren.com

NUMBER OF TURNS REQUIRED
IN DETECTOR LOOPS

6 X 6		LOOP SIZE
		2 TURNS
		3 TURNS
0	545	4 TURNS
546	818	5 TURNS
819	1145	6 TURNS
1146	1527	7 TURNS
1528	1964	8 TURNS
1965	2455	9 TURNS
2456	3000	10 TURNS

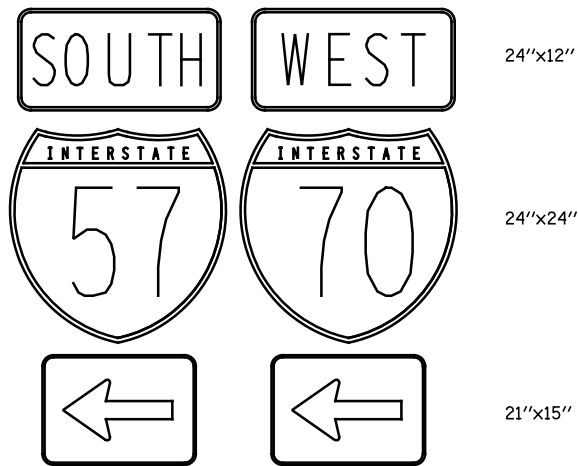
THE NUMBERS IN THE TABLE REPRESENT THE LENGTH OF ELECTRIC CABLE FROM THE LOOP TO THE CABINET



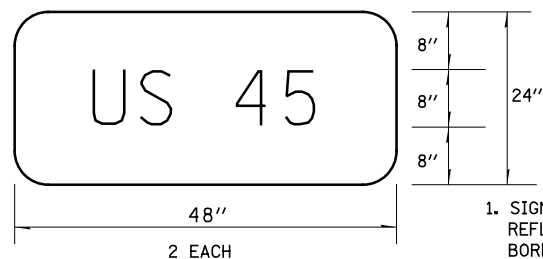
PHASE DESIGNATION DIAGRAM

LEGEND

← (2) — VEHICULAR PHASE NO. X



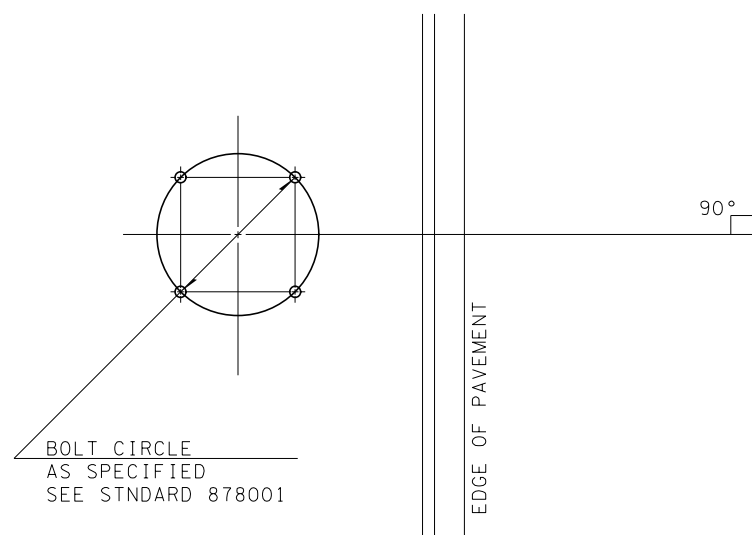
TO BE INSTALLED ON SOUTHBOUND MAST ARM (STA 65+24 35' Lt.)



1. SIGN SHALL HAVE A WHITE REFLECTORIZED LEGEND AND BORDER ON A GREEN REFLECTORIZED BACKGROUND.
2. LETTER SIZE: 8D.

TO BE INSTALLED ON WESTBOUND MAST ARM (STA 65+96 35' Lt.)

SIGN PANEL DETAILS



DETAIL OF MAST ARM FOUNDATION
BOLT PATTERN

BILL OF MATERIALS - US 45 & SB RAMPS-I57/70

ITEM	UNIT	QUANTITY
SIGN PANEL-TYPE 1	SQ FT	24.4
SERVICE INSTALLATION, TYPE A	EACH	1.0
UNDERGROUND CONDUIT, PVC, 3/4" DIA.	FOOT	53.0
UNDERGROUND CONDUIT, PVC, 1 1/4" DIA.	FOOT	61.0
UNDERGROUND CONDUIT, PVC, 1 1/2" DIA.	FOOT	755.0
UNDERGROUND CONDUIT, PVC, 2 1/2" DIA.	FOOT	108.0
UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	410.0
HANDHOLE	EACH	5.0
DOUBLE HANDHOLE	EACH	1.0
GULFBOX JUNCTION	EACH	5.0
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 8	FOOT	527.0
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, PHOTO-CELL CONTROL, 400 WATT	EACH	2.0
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1.0
UNINTERRUPTIBLE POWER SUPPLY, EXTENDED	EACH	1.0
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 5C	FOOT	2017.0
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 7C	FOOT	1467.0
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PR	FOOT	3905.0
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	35.0
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	591.0
TRAFFIC SIGNAL POST, ALUMINUM 16 FT.	EACH	3.0
STEEL MAST ARM ASSEMBLY AND POLE, 28 FT	EACH	1.0
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 34 FT	EACH	1.0
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 48 FT	EACH	1.0
CONCRETE FOUNDATION, TYPE A	FOOT	9.0
CONCRETE FOUNDATION, TYPE C	FOOT	3.5
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	10.0
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	24.0
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION BRACKET MOUNTED	EACH	2.0
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	4.0
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	2.0
SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1.0
SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 5-SECTION BRACKET MOUNTED	EACH	1.0
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	12.0
INDUCTIVE LOOP DETECTOR	EACH	14.0
DETECTOR LOOP, TYPE 1	FOOT	1137.0
LIGHT DETECTOR	EACH	3.0
LIGHT DETECTOR AMPLIFIER	EACH	1.0
ELECTRIC CABLE IN CONDUIT, NO. 20 3/C, TWISTED, SHIELDED	FOOT	823.0

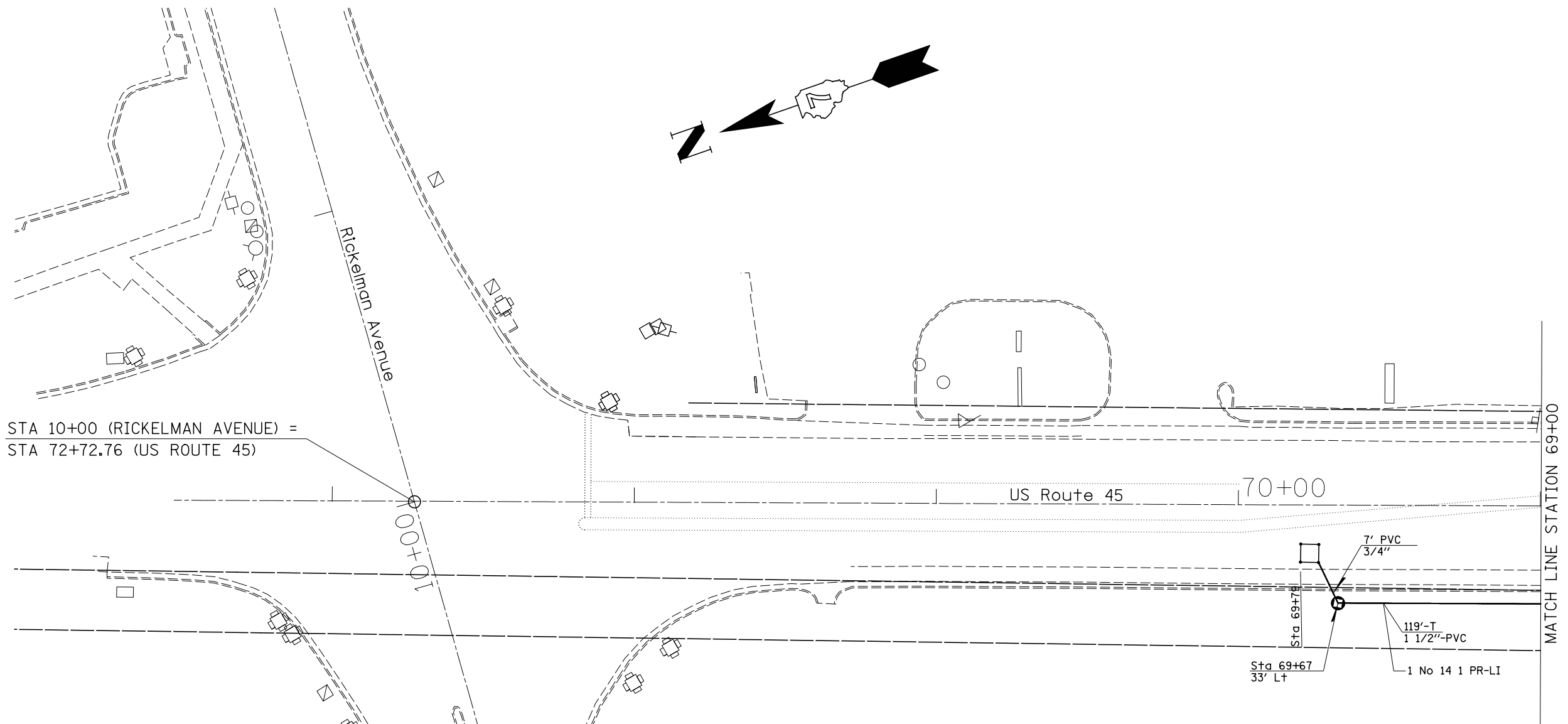
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	PLOT DATE = #DATE#	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 45 & SB I57/70 RAMPS
TRAFFIC SIGNALS-BILL OF MATERIALS & DETAILS

SCALE: SHEET NO. 2 OF 7 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70		EFFINGHAM	1760	442
*(25-4)R&(25-4)HB-1)BY&(25-4)BR			CONTRACT NO. 74295	
ILLINOIS FED. AID PROJECT				



LEGEND	
	Proposed
SIGNAL POST	•
MAST ARM	—●—
SIGNAL HEAD W/ BACKPLATE	+▲
CONTROLLER	◻
HANDHOLE	◻
GULFBOX JUNCTION	○
DOUBLE HANDHOLE	◻
DETECTOR LOOP	◻
WOOD POLE	•

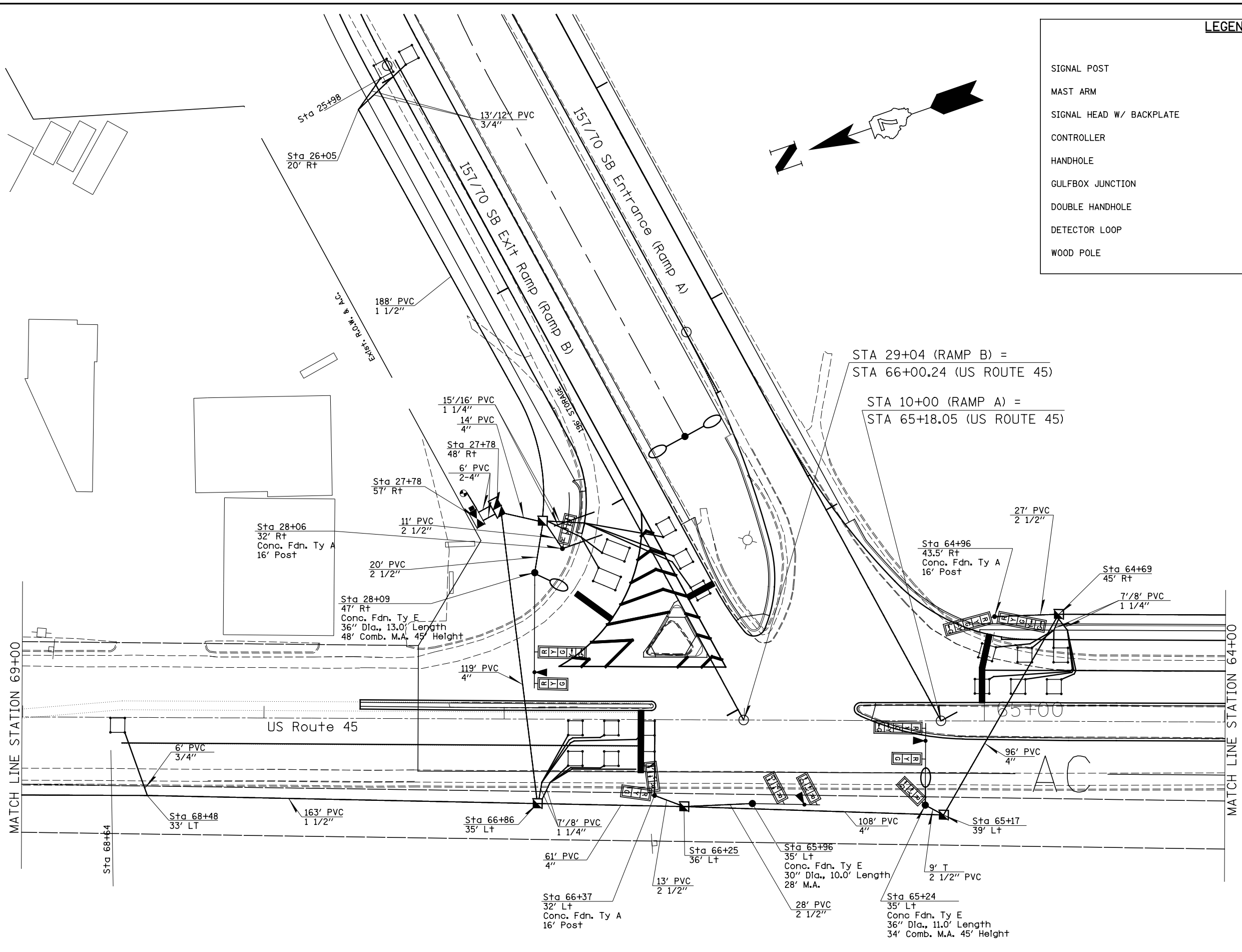
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		CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 45 & SB I57/70 RAMPS
TRAFFIC SIGNALS-SIGNAL & CABLE LAYOUT

SCALE: SHEET NO. 3 OF 7 SHEETS STA. 73+00 TO STA. 69+00

F.A.I. RTE. 70	SECTION •	COUNTY EFFINGHAM	TOTAL SHEETS 1760	SHEET NO. 443
•(25-4)R&(25-4)HB-1)BY&(25-4)BR		CONTRACT NO. 74295		ILLINOIS FED. AID PROJECT



LEGEND

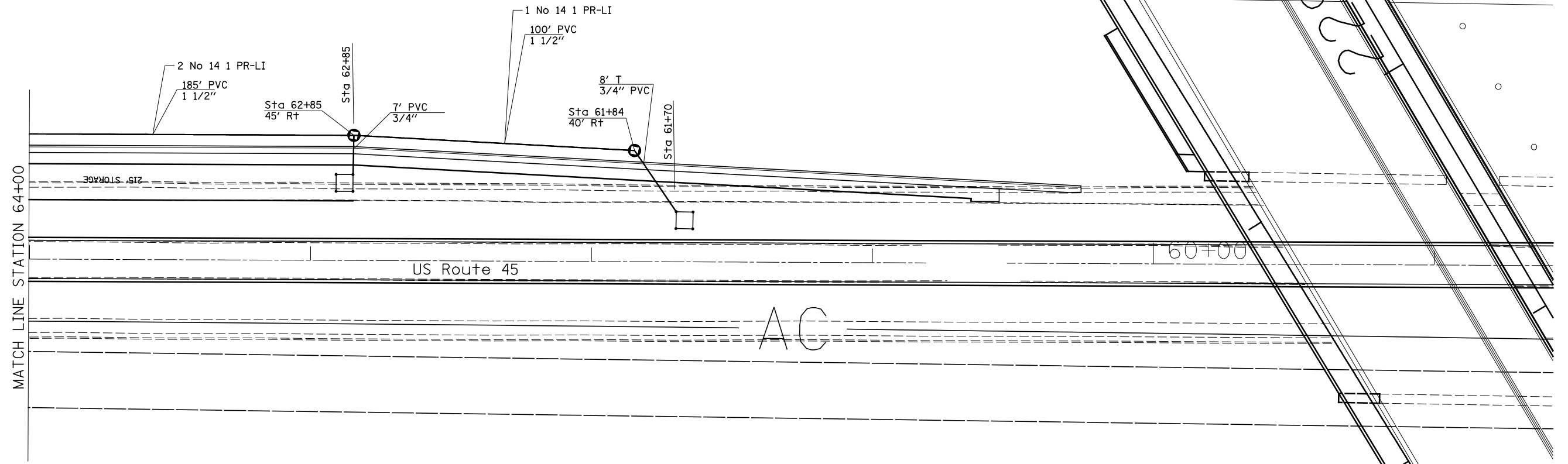
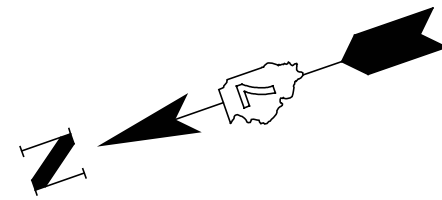
SIGNAL POST	Proposed
MAST ARM	
SIGNAL HEAD W/ BACKPLATE	
CONTROLLER	
HANDHOLE	
GULFBOX JUNCTION	
DOUBLE HANDHOLE	
DETECTOR LOOP	
WOOD POLE	

STA 29+04 (RAMP B) =
STA 66+00.24 (US ROUTE 45)

STA 10+00 (RAMP A) =
STA 65+18.05 (US ROUTE 45)

FILE NAME =	USER NAME = *USER*	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	US 45 & SB 157/70 RAMPS TRAFFIC SIGNALS-SIGNAL LAYOUT			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FILEL		DRAWN -	REVISED -		SCALE:	SHEET NO. 4 OF 7 SHEETS	STA. 69+00 TO STA. 64+00	70	•	EFFINGHAM	1760	444
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	PLOT DATE = *DATE*	DATE -	REVISED -					CONTRACT NO. 74295				

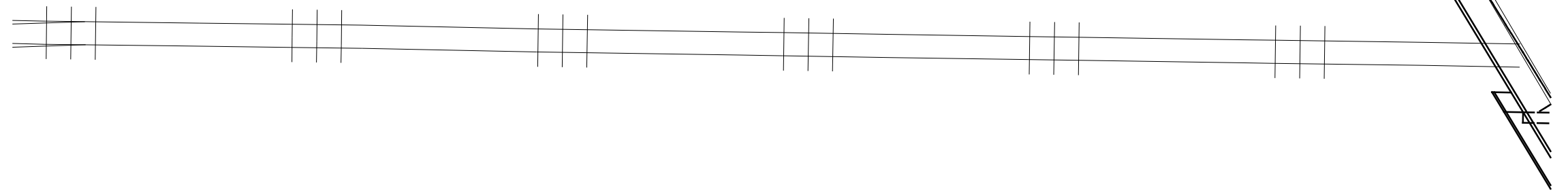
ILLINOIS FED. AID PROJECT



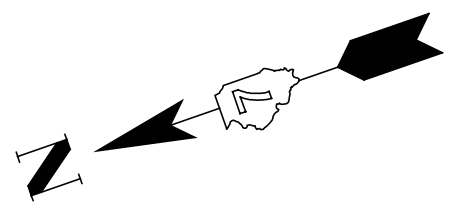
LEGEND

Proposed

SIGNAL POST	•
MAST ARM	●—
SIGNAL HEAD W/ BACKPLATE	+▲
CONTROLLER	⊠
HANDHOLE	◻
GULFBOX JUNCTION	○
DOUBLE HANDHOLE	◻
DETECTOR LOOP	□
WOOD POLE	⊙

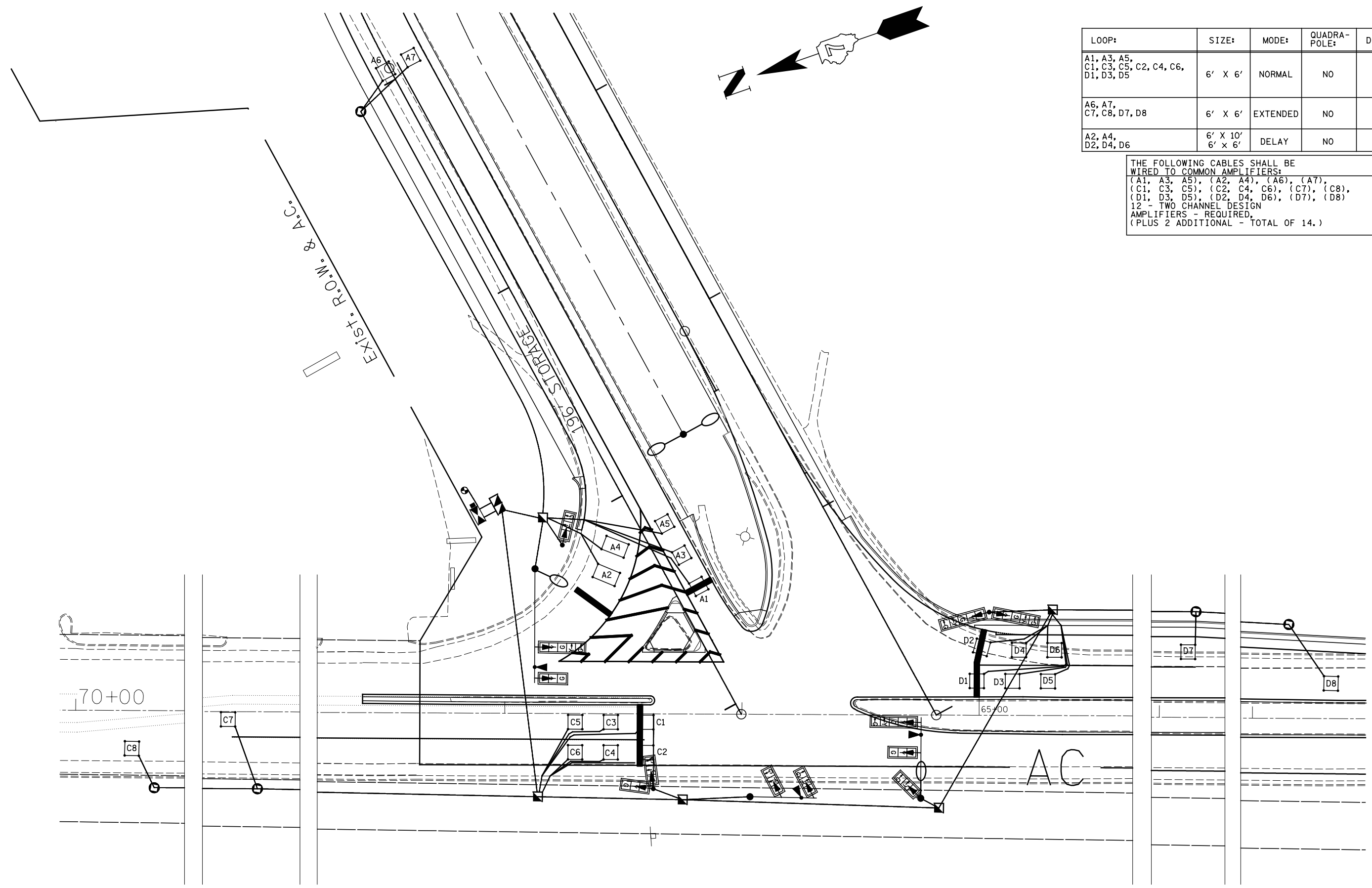


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	PLOT SCALE = *SCALE*	CHECKED - DATE -	REVISED - REVISED -			70	•	EFFINGHAM	1760	445
	PLOT DATE = *DATE*					•(25-4)R&(25-4)HB-1)BY&(25-4)BR		CONTRACT NO. 74295		ILLINOIS FED. AID PROJECT
		SCALE:	SHEET NO. 5 OF 7 SHEETS	STA. 64+00	TO STA. 60+00					



LOOP#	SIZE	MODE	QUADRA-POLE	DELAY
A1, A3, A5, C1, C3, C5, C2, C4, C6, D1, D3, D5	6' X 6'	NORMAL	NO	0
A6, A7, C7, C8, D7, D8	6' X 6'	EXTENDED	NO	0
A2, A4, D2, D4, D6	6' X 10' 6' X 6'	DELAY	NO	15

THE FOLLOWING CABLES SHALL BE WIRED TO COMMON AMPLIFIERS:
 (A1, A3, A5), (A2, A4), (A6), (A7),
 (C1, C3, C5), (C2, C4, C6), (C7), (C8),
 (D1, D3, D5), (D2, D4, D6), (D7), (D8)
 12 - TWO CHANNEL DESIGN
 AMPLIFIERS - REQUIRED,
 (PLUS 2 ADDITIONAL - TOTAL OF 14.)





SOIL BORING LOG

ROUTE FAI 57/70 DESCRIPTION US 45 and I-57/70 Interchange Ramp Traffic Signals LOGGED BY E. Sandschafer

SECTION * LOCATION N 1/2, SEC. 16, TWP. 8 N, RNG. 6 E, 3 PM

COUNTY Effingham DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

Table with columns for STRUCT. NO., BORING NO., Station, Offset, Ground Surface Elev., and soil descriptions with corresponding D, B, U, M values.

File Name S:\NEW GEOTECHNICAL\GINTDATA\PROJECTS\EFFINGHAM CO (025)\I-57_70 THREE LANES\025-170_157 TRAF SIGNAL FDSNS 2010.GPJ Data Template 06TEMP1.GDT Date Printed 4/11/13

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrator, E-Estimated) Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

ROUTE FAI 57/70 DESCRIPTION US 45 and I-57/70 Interchange Ramp Traffic Signals LOGGED BY E. Sandschafer

SECTION * LOCATION N 1/2, SEC. 16, TWP. 8 N, RNG. 6 E, 3 PM

COUNTY Effingham DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

Table with columns for STRUCT. NO., BORING NO., Station, Offset, Ground Surface Elev., and soil descriptions with corresponding D, B, U, M values.

File Name S:\NEW GEOTECHNICAL\GINTDATA\PROJECTS\EFFINGHAM CO (025)\I-57_70 THREE LANES\025-170_157 TRAF SIGNAL FDSNS 2010.GPJ Data Template 06TEMP1.GDT Date Printed 4/11/13

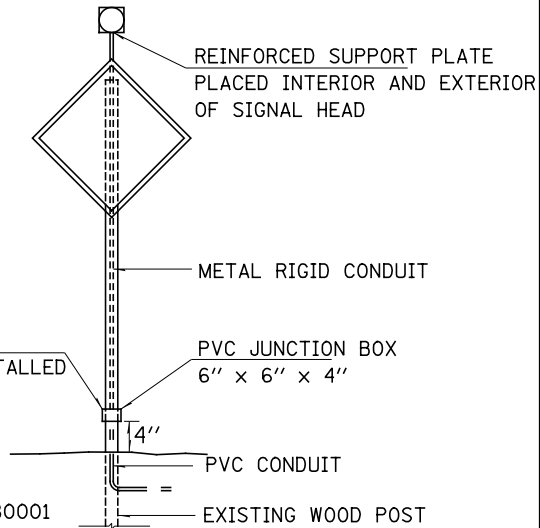
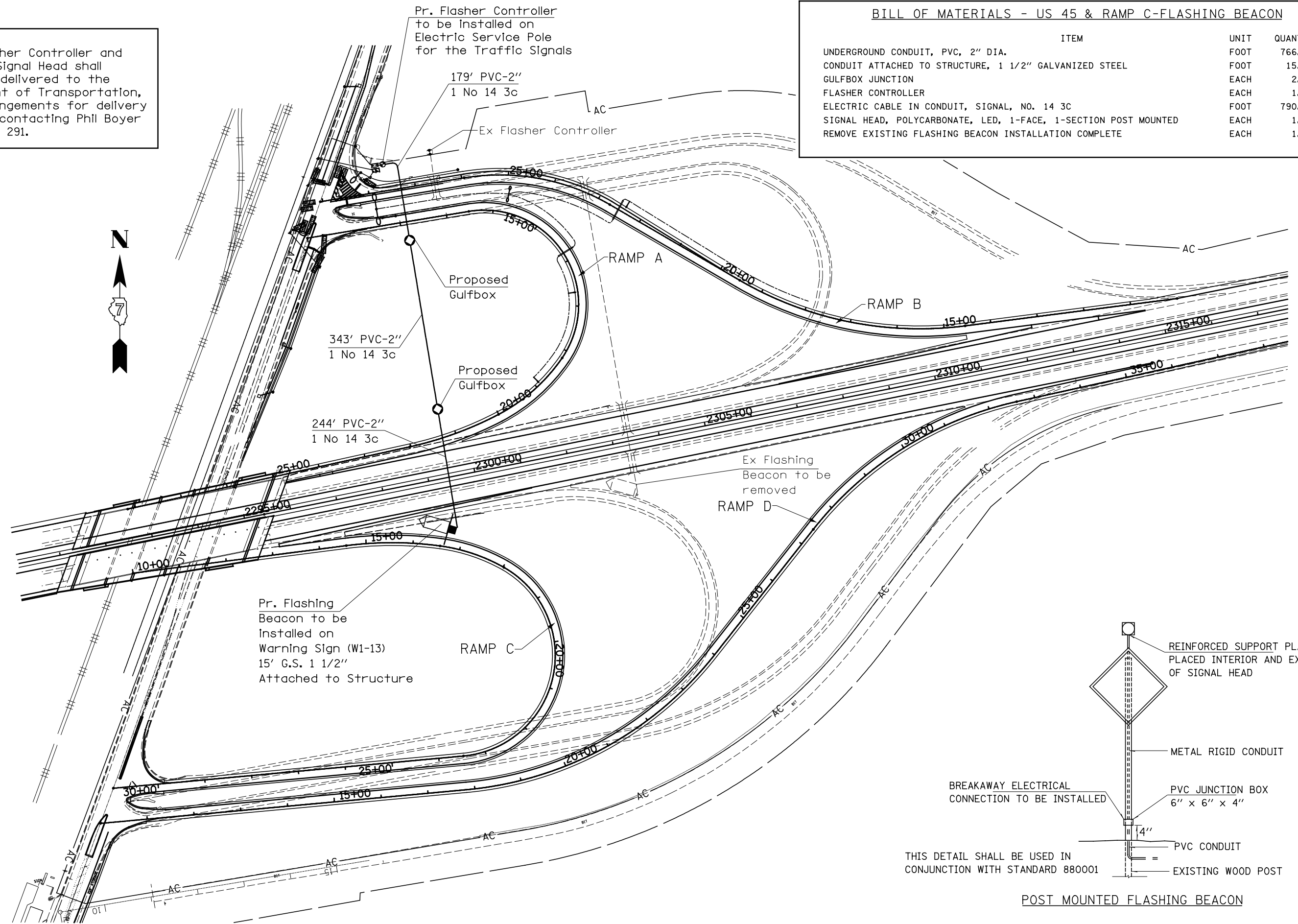
The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrator, E-Estimated) Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

Bottom table with columns for FILE NAME, USER NAME, DESIGNED, REVISED, STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION, TRAFFIC SIGNAL BORINGS, SCALE, SHEET 7A OF 7 SHEETS, STA. TO STA., F.A.I. RTE., SECTION, COUNTY, TOTAL SHEETS, SHEET NO., CONTRACT NO. 74295

NOTE:
 The existing Flasher Controller and Flashing Beacon Signal Head shall be salvaged and delivered to the Illinois Department of Transportation, District 7. Arrangements for delivery can be made by contacting Phil Boyer 217-342-3951 ext 291.

BILL OF MATERIALS - US 45 & RAMP C-FLASHING BEACON

ITEM	UNIT	QUANTITY
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	766.0
CONDUIT ATTACHED TO STRUCTURE, 1 1/2" GALVANIZED STEEL	FOOT	15.0
GULFBOX JUNCTION	EACH	2.0
FLASHER CONTROLLER	EACH	1.0
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 3c	FOOT	790.0
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 1-SECTION POST MOUNTED	EACH	1.0
REMOVE EXISTING FLASHING BEACON INSTALLATION COMPLETE	EACH	1.0



THIS DETAIL SHALL BE USED IN CONJUNCTION WITH STANDARD 880001

POST MOUNTED FLASHING BEACON

FILE NAME =	USER NAME = *USER*	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FLASHING BEACON DETAILS			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FILEL		DRAWN -	REVISED -		70		EFFINGHAM	1760	447B			
MODELNAME		CHECKED -	REVISED -		CONTRACT NO. 74295			ILLINOIS FED. AID PROJECT				
		DATE -	REVISED -		SCALE:	SHEET 7B OF 7 SHEETS	STA.	TO STA.				

* (25-4)R & (25-4)VB-1BY

LIGHTING SCHEDULE

PAY ITEM	DESCRIPTION	UNIT	TOTAL QUANTITY
	ELECTRIC SERVICE INSTALLATION	EACH	3
	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2 1/2" DIA.	FOOT	1,255
	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 3" DIA.	FOOT	350
	CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC	FOOT	7,735
	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 10" X 6"	EACH	4
	JUNCTION BOX, STAINLESS STEEL, EMBEDDED IN STRUCTURE, 8" X 24" X 10"	EACH	7
	UNIT DUCT, 600V, 2-1C NO.8, 1/C NO.8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE	FOOT	10,719
	UNIT DUCT, 600V, 2-1C NO.4, 1/C NO.6 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE	FOOT	10,922
	UNIT DUCT, 600V, 2-1C NO.6, 1/C NO.8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE	FOOT	8,888
	UNIT DUCT, 600V, 2-1C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	1,020
	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 8	FOOT	1,368
	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	14,709
	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 4	FOOT	13,674
	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT	EACH	178
	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, PHOTO-CELL CONTROL, 400 WATT	EACH	2
	SIGN LIGHTING (HIGH PRESSURE SODIUM)	EACH	30
	LIGHTING CONTROLLER, POLE MOUNTED, 240VOLT, 30AMP	EACH	1
	LIGHTING CONTROLLER, BASE MOUNTED, 480VOLT, 100AMP	EACH	2
	LIGHTING CONTROLLER, BASE MOUNTED, 480VOLT, 200AMP	EACH	1
	LIGHT POLE, ALUMINUM, 45 FT. M.H., 8 FT. DAVIT ARM - TWIN	EACH	31
	LIGHT POLE, ALUMINUM, 50 FT. M.H., 15 FT. DAVIT ARM	EACH	106
	LIGHT POLE, ALUMINUM, 50FT. M.H., 15 FT. DAVIT ARM, TWIN	EACH	5
	LIGHT POLE FOUNDATION METAL, 15" BOLT CIRCLE, 8" X 8"	EACH	107
	BREAKAWAY DEVICE, COUPLING, WITH STAINLESS STEEL SCREEN	EACH	380
	REMOVAL OF LIGHTING UNIT, NO SALVAGE	EACH	19
	REMOVAL OF POLE FOUNDATION	EACH	10
	REMOVAL OF LIGHTING CONTROLLER	EACH	4
	REMOVAL OF ELECTRIC SERVICE INSTALLATION	EACH	2
	REMOVAL OF LIGHTING CONTROLLER FOUNDATION	EACH	4
	CONDUIT ATTACHED TO STRUCTURE, 2" DIA. STAINLESS STEEL	FOOT	40
	LIGHT POLE FOUNDATION, SPECIAL	EACH	23
	TEMPORARY LIGHTING SYSTEM	L SUM	1
	MODIFY EXISTING LIGHTING CONTROLLER	EACH	1
	LIGHT POLE FOUNDATION, INTEGRAL WITH BARRIER WALL	EACH	8

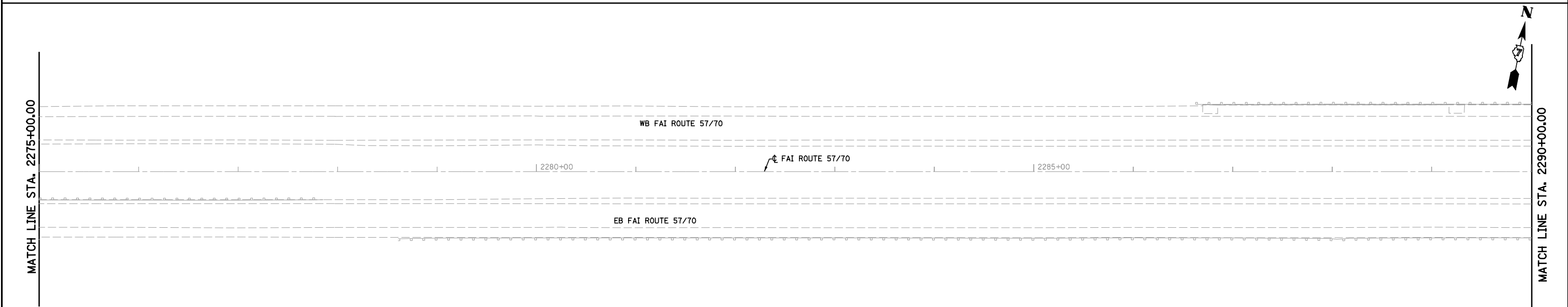
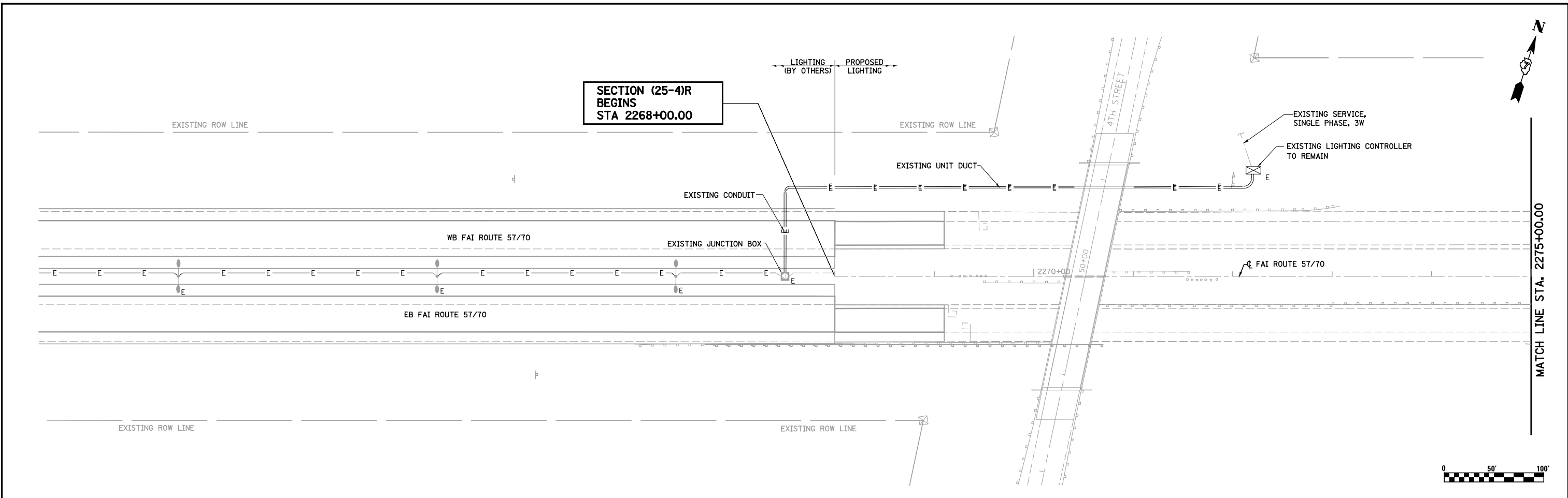
GENERAL NOTES

- ALL PROPOSED LIGHTING UNITS SHALL BE LABELED ACCORDING TO THE STANDARD SPECIFICATIONS, WITH POLE NUMBERS ATTACHED WITH STAINLESS STEEL BANDING. LIGHTING UNIT NUMBERING SHALL BE AS DIRECTED BY THE ENGINEER.
- EXISTING LIGHT POLES AND FOUNDATIONS TO BE REMOVED, AND ALL ASSOCIATED HARDWARE AND APPURTENANCES, SHALL NOT BE SALVAGED BUT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF OFF SITE AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ELECTRICAL WORK WITH OTHER TRADES.
- CONTRACTOR SHALL INSTALL LIGHT POLES AT THE LOCATIONS INDICATED ON THE PLANS, MAINTAINING ADEQUATE CLEARANCE FROM OVERHEAD UTILITY LINES. CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY CLEARANCES PER THE NATIONAL ELECTRICAL SAFETY CODE AND/OR THE REQUIREMENTS OF THE UTILITY COMPANIES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ALL CONFLICTS BETWEEN PROPOSED LIGHT POLE LOCATIONS AND UTILITY LINES. THE LOCATION OF BURIED AND ABOVE GROUND UTILITIES SHOWN ARE APPROXIMATE AND ARE SHOWN FOR INFORMATION ONLY. REROUTING, DISCONNECTION, RELOCATION, PROTECTION ETC., OF ANY UTILITIES MUST BE COORDINATED BETWEEN THE CONTRACTOR, UTILITY COMPANY, AND OWNER. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR UNCOVERING OR HAND DIGGING AROUND UTILITIES AS NECESSARY. THE COST OF THIS WORK IS TO BE INCLUDED WITH THE APPLICABLE UNDERGROUND CONDUIT OR UNIT DUCT PAY ITEM.
- PROPOSED LIGHT POLES ALONG THE RAMPS AND MAINLINE TO BE INSTALLED AT A 20 FEET SETBACK FROM THE EDGE OF TRAVELED PAVEMENT OR 5 FEET BEHIND THE GUARDRAIL UNLESS NOTED OTHERWISE ON THE PLANS. NO POLES SHALL BE INSTALLED IN THE FLOWLINE OF DITCH. POLE SETBACK TO BE ADJUSTED IF NECESSARY AS DIRECTED BY THE ENGINEER.
- NO LIGHTING CIRCUIT OR PORTION THEREOF SHALL BE REMOVED FROM NIGHTTIME OPERATION WITHOUT APPROVAL OF THE ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE LIGHTING SYSTEM UNTIL IDOT HAS TAKEN ACCEPTANCE OF THE SYSTEM. ALL EXISTING CIRCUITS AND CABLES TO THE LIGHT POLES SHALL BE MAINTAINED AS NEEDED AND THIS WORK SHALL BE INCIDENTAL TO THE CONTRACT.
- ALL RELOCATIONS AND ADJUSTMENTS TO EXISTING LIGHTING UNITS TO SERVE AS TEMPORARY LIGHTING DUE TO STAGING OR CONSTRUCTION SHALL BE MADE AT NO ADDITIONAL COST. ADDITIONAL AERIAL CABLE SPANS SHALL BE FURNISHED AND INSTALLED AS DIRECTED BY THE ENGINEER, AND THE COST OF THIS WORK SHALL BE INCIDENTAL TO THE CONTRACT.
- BREAKAWAY DEVICES SHALL NOT BE INSTALLED FOR POLES LOCATED BEHIND THE GUARDRAIL OR MOUNTED ON BRIDGE PARAPET WALLS OR MEDIAN BARRIER WALL.
- UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT SHALL BE SCHEDULE 80.
- WASHERS SHALL BE LARGE ENOUGH TO FILL SLOTTED HOLES IN THE POLE BASEPLATE. STAINLESS STEEL SCREEN SHALL COMPLETELY AND PERMANENTLY COVER HOLES ON THE UNDERSIDE OF POLE BASEPLATE.

LIGHTING INDEX

- 448 GENERAL NOTES, SCHEDULES AND INDEX OF SHEETS
- 449-458 EXISTING LIGHTING REMOVAL AND TEMPORARY LIGHTING
- 459-472 PROPOSED LIGHTING
- 473-476 WIRING DIAGRAMS
- 477-481 LIGHTING DETAILS AND LUMINAIRE PERFORMANCE TABLE
- 481A LIGHT POLE FOUNDATION DETAIL
- 482 LIGHTING DETAILS AND LUMINAIRE PERFORMANCE TABLE

FILE NAME * S:\projects\100\100121\121\121.dwg	USER NAME * john	DESIGNED - JWS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES, SCHEDULES, AND INDEX OF SHEETS NORTH TRI LEVEL	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEET NO.
	PLOT SCALE = 1/8"=1'-0"	DRAWN - PDB	REVISED -			ST/70	(25-4)R	EFFINGHAM	1760
PLOT DATE = 8/8/2013	CHECKED - BRM	REVISED -	REVISED -	SCALE: 1"=50'	SHEET NO. 1 OF 35 SHEETS	STA. 2260+00.00 TO STA. 2329+00.00	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		
	DATE - 11-01-12	REVISED -	REVISED -				CONTRACT NO. 74295		



THIS SHEET FOR INFORMATION ONLY

LEGEND

- | | | | |
|--|--|--|--|
| | EXISTING HIGH MAST TOWER TO BE REMOVED | | EXISTING UNIT DUCT OR CABLE IN CONDUIT |
| | EXISTING HIGH MAST TOWER USED FOR TEMPORARY LIGHTING AND THEN REMOVED | | EXISTING LIGHTING UNIT |
| | TEMPORARY WOOD POLE, 55 FEET, CLASS 4 | | EXISTING JUNCTION BOX |
| | EXISTING LIGHTING CONTROLLER | | AERIAL CABLE, 2-1/C NO 4 UNLESS OTHERWISE NOTED WITH MESSENGER WIRE |
| | TEMPORARY WOOD POLE, 55 FEET, CLASS 4 WITH 250W HPS LUMINAIRE, 45 FEET MOUNTING HEIGHT, ARROW INDICATES LUMINAIRE AIMING DIRECTION | | TEMPORARY UNIT DUCT, 2-1/C NO. 6, 1/C NO. 8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE |

- NOTES:
1. THE LOCATIONS OF EXISTING UNIT DUCT AS SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION IN THE FIELD PRIOR TO CONSTRUCTION.
 2. EXISTING HIGH MAST TOWER TO BE REMOVED. THIS WORK SHALL BE PAID FOR AS "REMOVAL OF LIGHTING UNIT, NO SALVAGE" PAY ITEM. FOUNDATION REMOVAL SHALL BE PAID FOR AS "REMOVAL OF POLE FOUNDATION" PAY ITEM.

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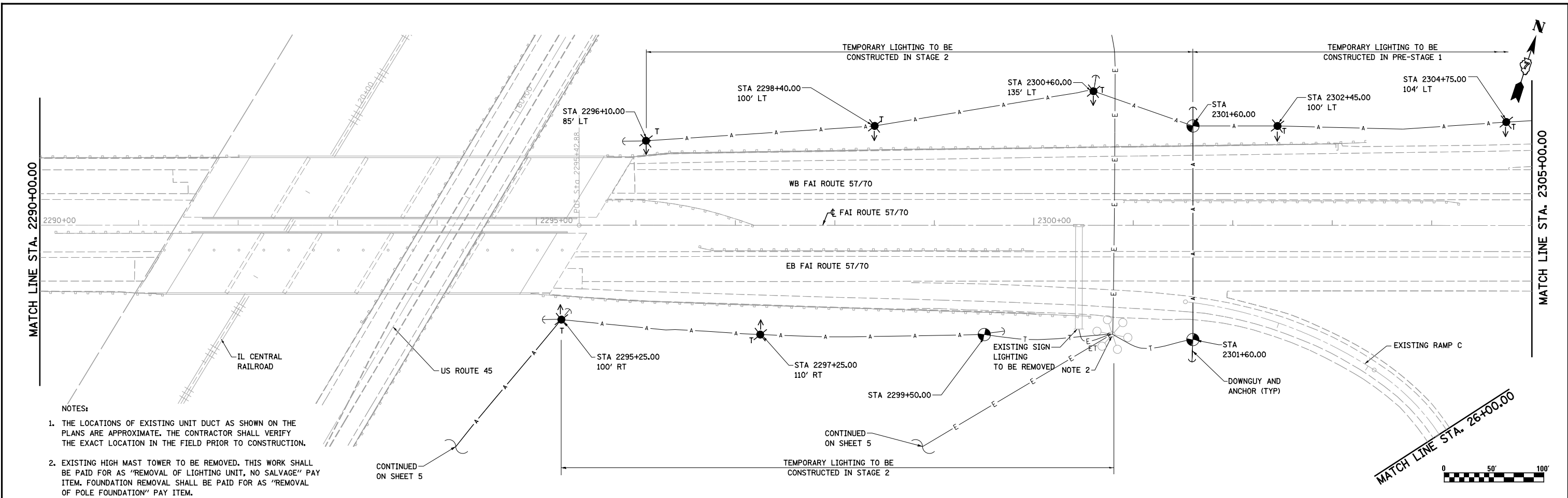
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	DATE - 11-02-12	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

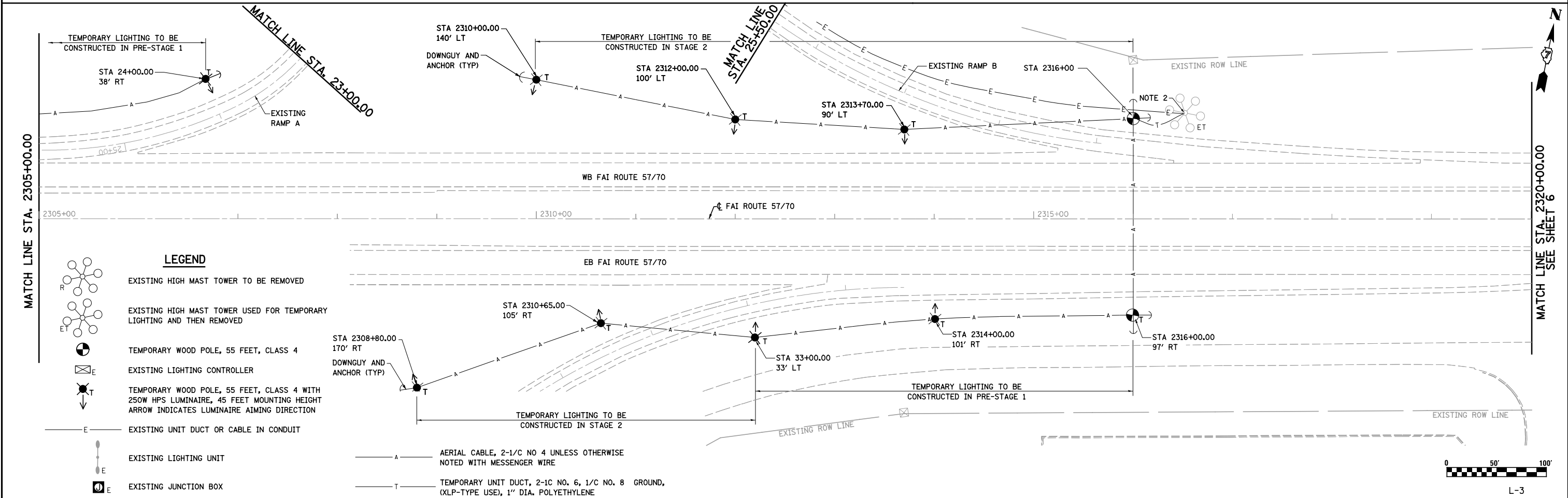
**EXISTING LIGHTING REMOVAL AND TEMPORARY LIGHTING
NORTH TRI LEVEL**

SCALE: 1"=50' SHEET NO. 2 OF 35 SHEETS STA. 226000.00 TO STA. 229000.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-4)R	EFFINGHAM	1760	449
CONTRACT NO. 74295				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



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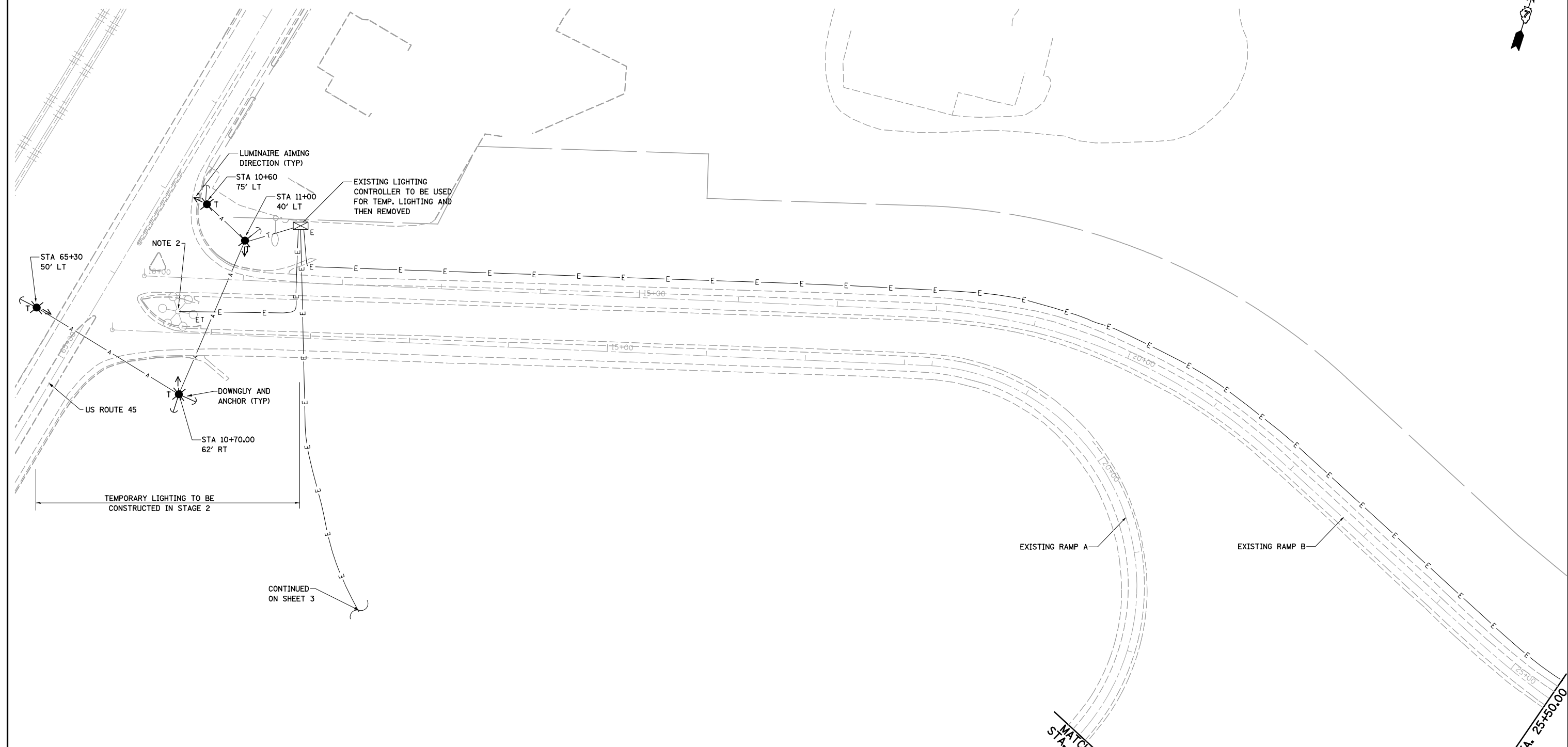


LEGEND

- EXISTING HIGH MAST TOWER TO BE REMOVED
- EXISTING HIGH MAST TOWER USED FOR TEMPORARY LIGHTING AND THEN REMOVED
- TEMPORARY WOOD POLE, 55 FEET, CLASS 4
- EXISTING LIGHTING CONTROLLER
- TEMPORARY WOOD POLE, 55 FEET, CLASS 4 WITH 250W HPS LUMINAIRE, 45 FEET MOUNTING HEIGHT ARROW INDICATES LUMINAIRE AIMING DIRECTION
- EXISTING UNIT DUCT OR CABLE IN CONDUIT
- EXISTING LIGHTING UNIT
- EXISTING JUNCTION BOX
- AERIAL CABLE, 2-1/C NO. 4 UNLESS OTHERWISE NOTED WITH MESSENGER WIRE
- TEMPORARY UNIT DUCT, 2-1/C NO. 6, 1/C NO. 8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE

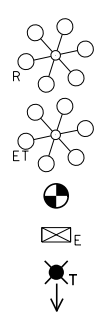


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PLOT DATE = #DATE#	DATE - 11-02-12	REVISIED -	REVISIED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							
L-3												



TEMPORARY LIGHTING TO BE CONSTRUCTED IN STAGE 2

CONTINUED ON SHEET 3



LEGEND

- EXISTING HIGH MAST TOWER TO BE REMOVED
- EXISTING HIGH MAST TOWER USED FOR TEMPORARY LIGHTING AND THEN REMOVED
- TEMPORARY WOOD POLE, 55 FEET, CLASS 4
- EXISTING LIGHTING CONTROLLER
- TEMPORARY WOOD POLE, 55 FEET, CLASS 4 WITH 250W HPS LUMINAIRE, 45 FEET MOUNTING HEIGHT ARROW INDICATES LUMINAIRE AIMING DIRECTION

- EXISTING UNIT DUCT OR CABLE IN CONDUIT
- EXISTING LIGHTING UNIT
- EXISTING JUNCTION BOX
- AERIAL CABLE, 2-1/C NO. 4 UNLESS OTHERWISE NOTED WITH MESSENGER WIRE
- TEMPORARY UNIT DUCT, 2-1C NO. 6, 1/C NO. 8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE

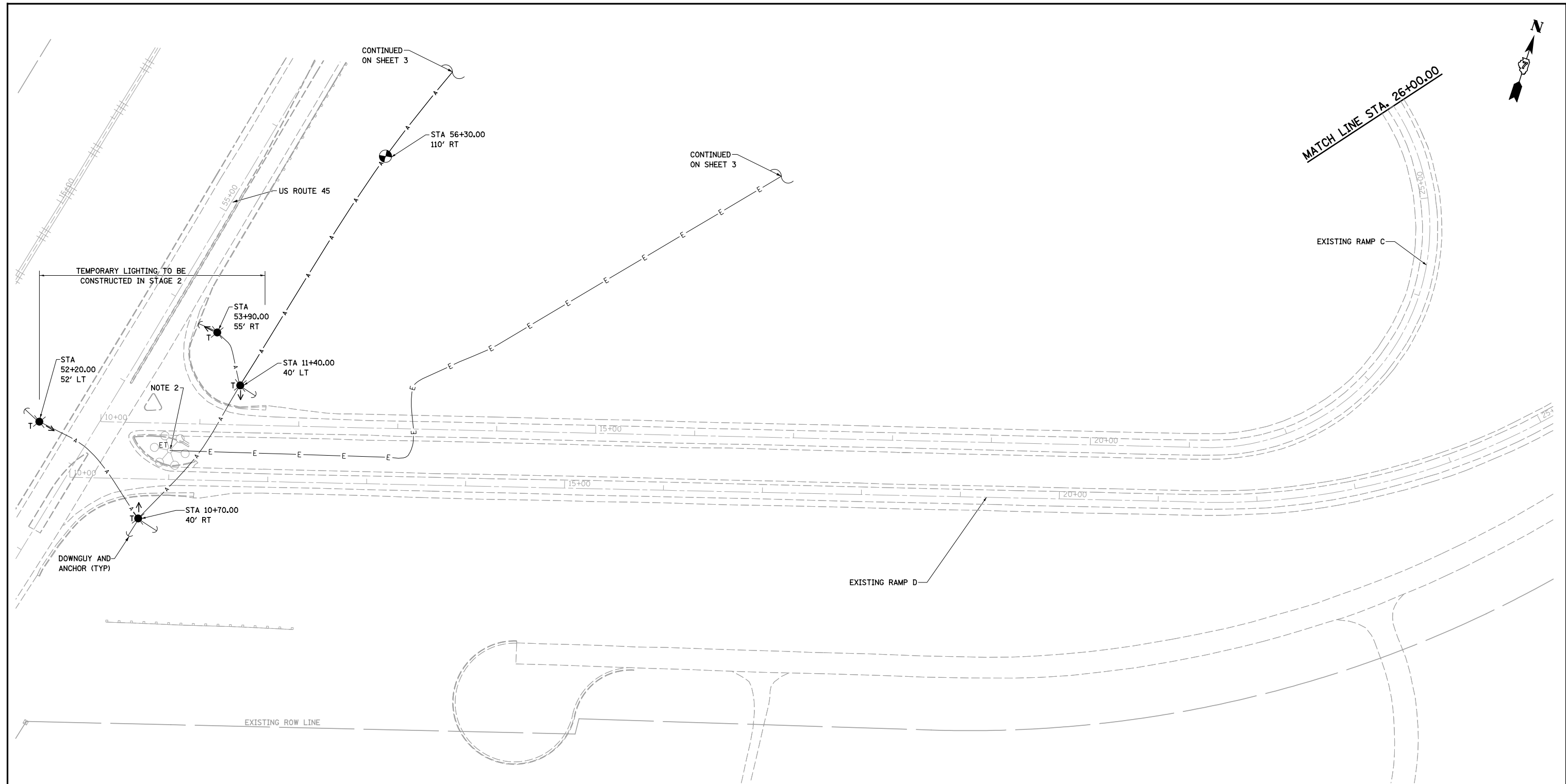
NOTES:

1. THE LOCATIONS OF EXISTING UNIT DUCT AS SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION IN THE FIELD PRIOR TO CONSTRUCTION.
2. EXISTING HIGH MAST TOWER TO BE REMOVED. THIS WORK SHALL BE PAID FOR AS "REMOVAL OF LIGHTING UNIT, NO SALVAGE" PAY ITEM. FOUNDATION REMOVAL SHALL BE PAID FOR AS "REMOVAL OF POLE FOUNDATION" PAY ITEM.













L-4

FILE NAME =	USER NAME = #USER#	DESIGNED - JWS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING LIGHTING REMOVAL AND TEMPORARY LIGHTING NORTH TRI LEVEL	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
S:\Projects\403-00072-57-70\dgn\W Tril\Lighting_Existing.ntldgn		DRAWN - PDB	REVISED -			57/70	(25-4)R	EFFINGHAM	1760	451	
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PLOT DATE = #DATE#		DATE - 10-11-12	REVISED -			FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT				
					SCALE: 1"=50'	SHEET NO. 4 OF 35 SHEETS	STA. 10+00.00 TO STA. 25+50.00				



LEGEND

-  EXISTING HIGH MAST TOWER TO BE REMOVED
-  EXISTING HIGH MAST TOWER USED FOR TEMPORARY LIGHTING AND THEN REMOVED
-  TEMPORARY WOOD POLE, 55 FEET, CLASS 4
-  EXISTING LIGHTING CONTROLLER
-  TEMPORARY WOOD POLE, 55 FEET, CLASS 4 WITH 250W HPS LUMINAIRE, 45 FEET MOUNTING HEIGHT ARROW INDICATES LUMINAIRE AIMING DIRECTION
-  EXISTING UNIT DUCT OR CABLE IN CONDUIT
-  EXISTING LIGHTING UNIT
-  EXISTING JUNCTION BOX
-  AERIAL CABLE, 2-1/2 INCH NO. 4 UNLESS OTHERWISE NOTED WITH MESSENGER WIRE
-  TEMPORARY UNIT DUCT, 2-1/2 INCH NO. 6, 1/2 INCH NO. 8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE

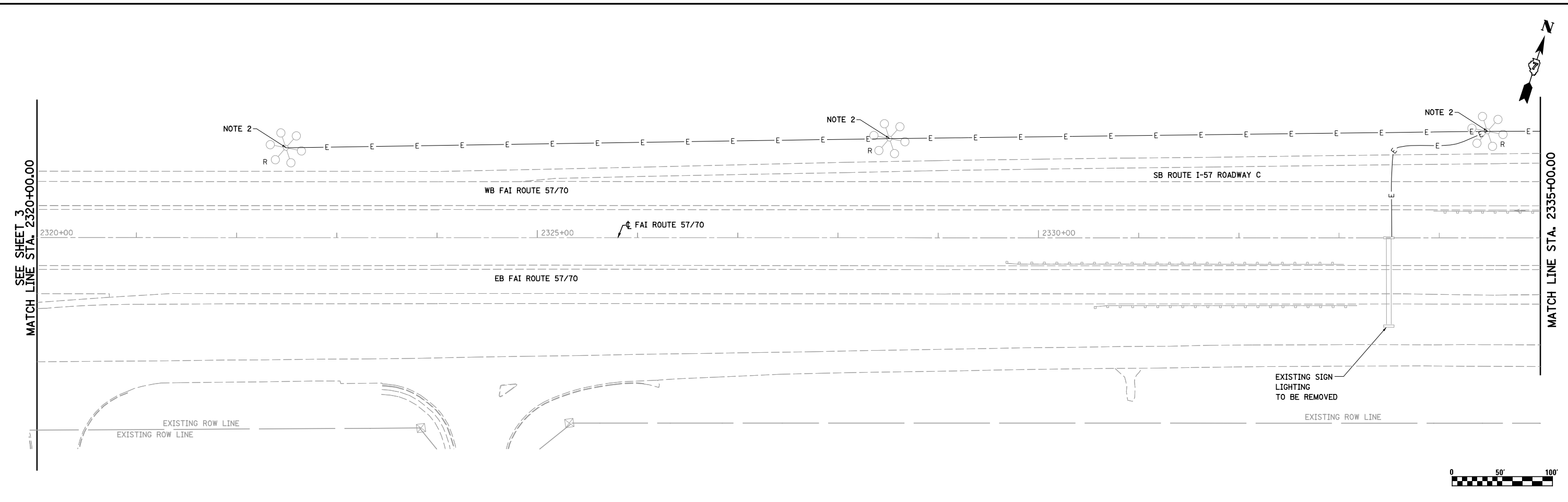
NOTES:

1. THE LOCATIONS OF EXISTING UNIT DUCT AS SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION IN THE FIELD PRIOR TO CONSTRUCTION.
2. EXISTING HIGH MAST TOWER TO BE REMOVED. THIS WORK SHALL BE PAID FOR AS "REMOVAL OF LIGHTING UNIT, NO SALVAGE" PAY ITEM. FOUNDATION REMOVAL SHALL BE PAID FOR AS "REMOVAL OF POLE FOUNDATION" PAY ITEM.



L-5

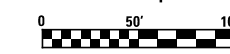
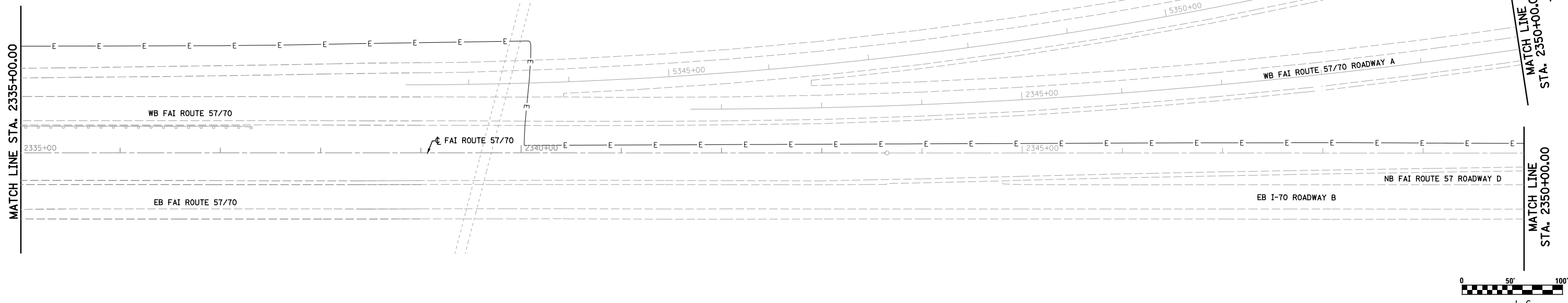
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		DRAWN - PDB	REVISED -			57/70	(25-4R)	EFFINGHAM	1760	452
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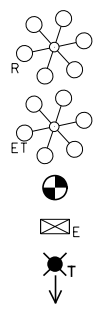
LEGEND

	EXISTING HIGH MAST TOWER TO BE REMOVED		EXISTING UNIT DUCT OR CABLE IN CONDUIT
	EXISTING HIGH MAST TOWER USED FOR TEMPORARY LIGHTING AND THEN REMOVED		EXISTING LIGHTING UNIT
	TEMPORARY WOOD POLE, 55 FEET, CLASS 4		EXISTING JUNCTION BOX
	EXISTING LIGHTING CONTROLLER		AERIAL CABLE, 2-1/C NO 4 UNLESS OTHERWISE NOTED WITH MESSENGER WIRE
	TEMPORARY WOOD POLE, 55 FEET, CLASS 4 WITH 250W HPS LUMINAIRE, 45 FEET MOUNTING HEIGHT ARROW INDICATES LUMINAIRE AIMING DIRECTION		TEMPORARY UNIT DUCT, 2-1/C NO. 6, 1/C NO. 8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE

- NOTES:**
- THE LOCATIONS OF EXISTING UNIT DUCT AS SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION IN THE FIELD PRIOR TO CONSTRUCTION.
 - EXISTING HIGH MAST TOWER TO BE REMOVED. THIS WORK SHALL BE PAID FOR AS "REMOVAL OF LIGHTING UNIT, NO SALVAGE" PAY ITEM. FOUNDATION REMOVAL SHALL BE PAID FOR AS "REMOVAL OF POLE FOUNDATION" PAY ITEM.



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PLOT SCALE = *SCALE*		CHECKED - BRM	REVISED -		SCALE: 1"=50'	SHEET NO. 6 OF 35 SHEETS	STA. 2320+00.00 TO STA. 2350+00.00	CONTRACT NO. 74295				
PLOT DATE = *DATE*		DATE - 11-02-12	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							
L-6												



LEGEND

EXISTING HIGH MAST TOWER TO BE REMOVED

EXISTING HIGH MAST TOWER USED FOR TEMPORARY LIGHTING AND THEN REMOVED

TEMPORARY WOOD POLE, 55 FEET, CLASS 4

EXISTING LIGHTING CONTROLLER

TEMPORARY WOOD POLE, 55 FEET, CLASS 4 WITH 250W HPS LUMINAIRE, 45 FEET MOUNTING HEIGHT
ARROW INDICATES LUMINAIRE AIMING DIRECTION

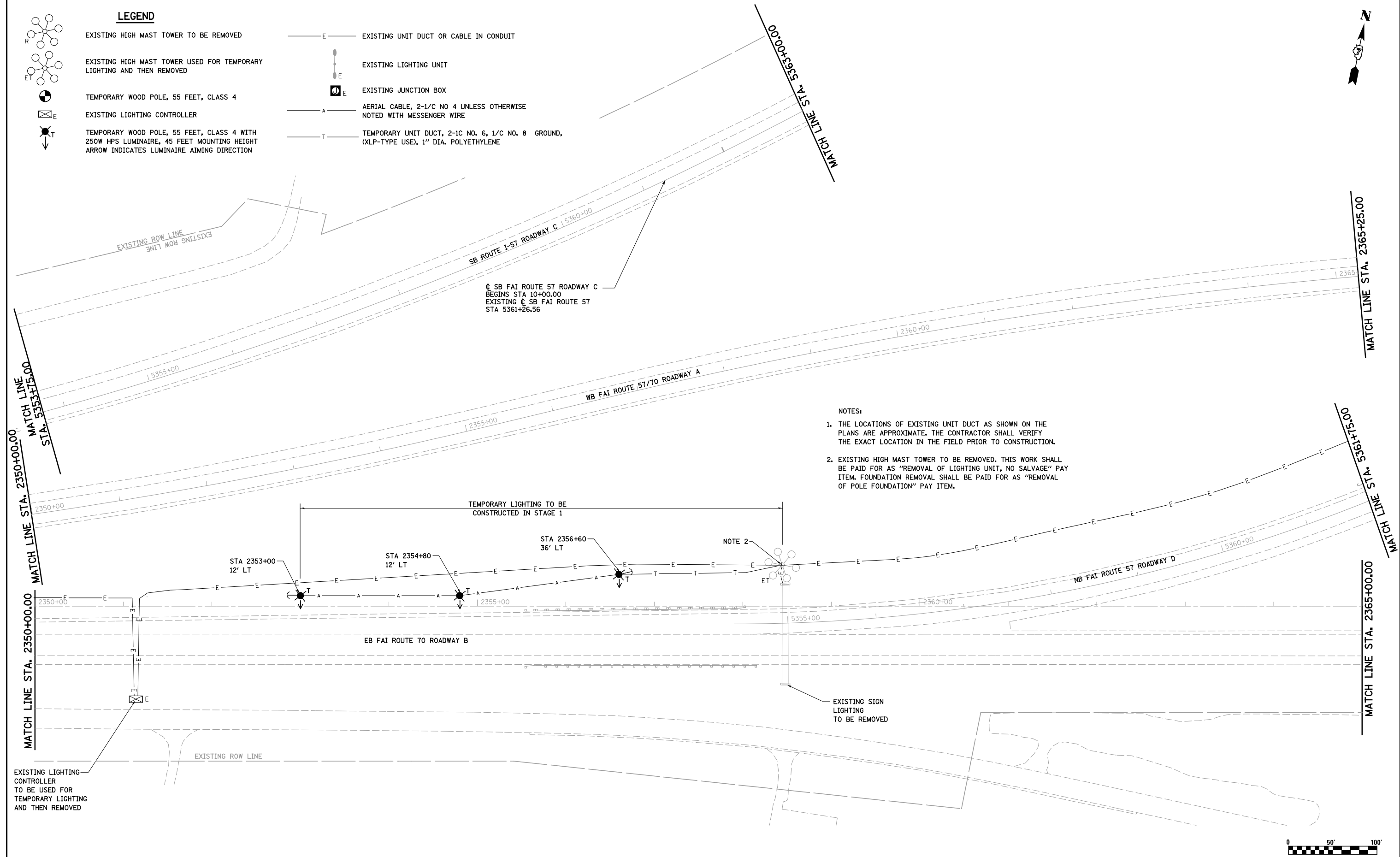
EXISTING UNIT DUCT OR CABLE IN CONDUIT

EXISTING LIGHTING UNIT

EXISTING JUNCTION BOX

AERIAL CABLE, 2-1/C NO 4 UNLESS OTHERWISE NOTED WITH MESSENGER WIRE

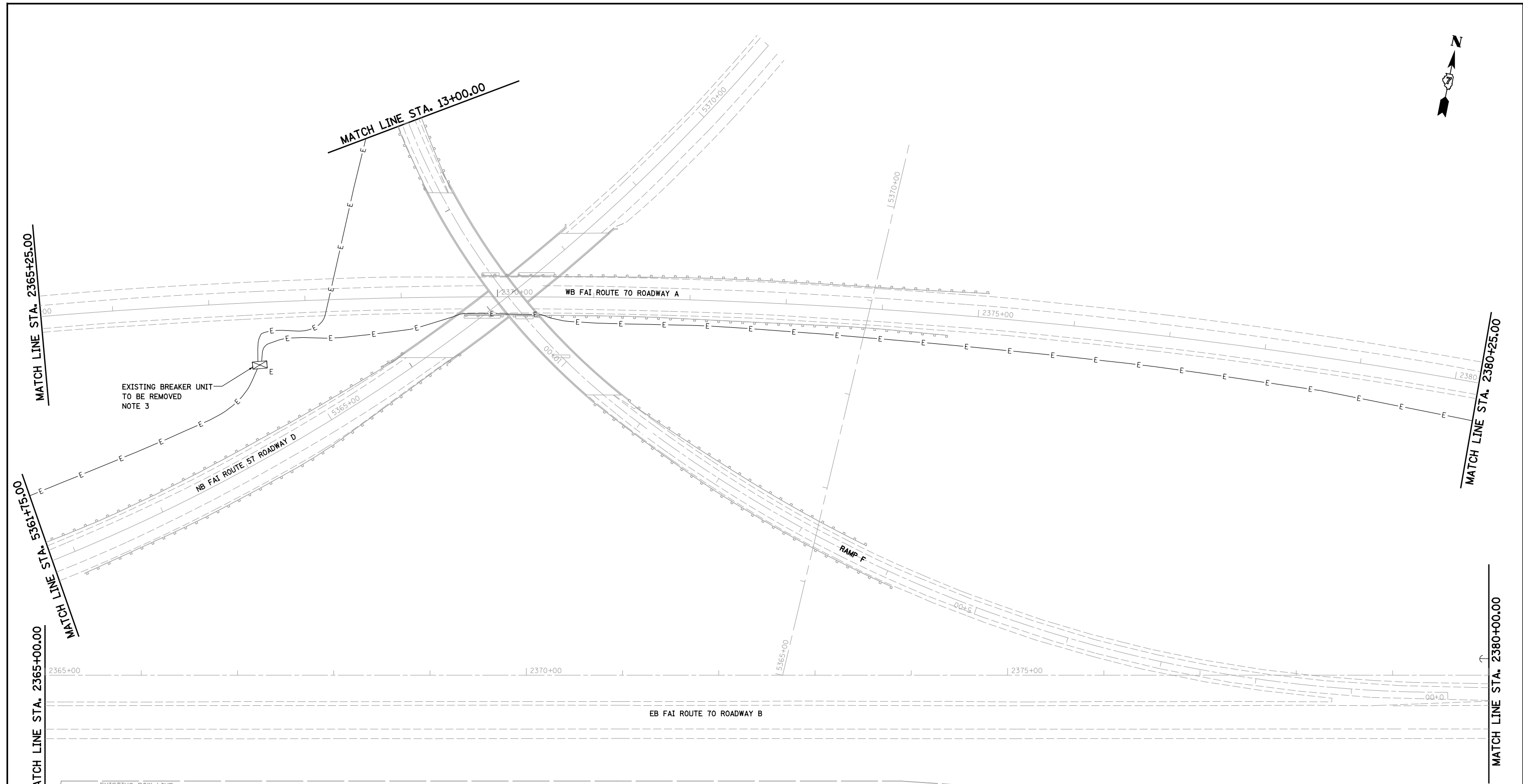
TEMPORARY UNIT DUCT, 2-1C NO. 6, 1/C NO. 8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE



- NOTES:**
1. THE LOCATIONS OF EXISTING UNIT DUCT AS SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION IN THE FIELD PRIOR TO CONSTRUCTION.
 2. EXISTING HIGH MAST TOWER TO BE REMOVED. THIS WORK SHALL BE PAID FOR AS "REMOVAL OF LIGHTING UNIT, NO SALVAGE" PAY ITEM. FOUNDATION REMOVAL SHALL BE PAID FOR AS "REMOVAL OF POLE FOUNDATION" PAY ITEM.

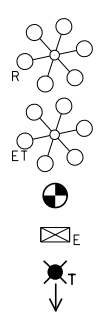


FILE NAME = s:\project\0007257-70.dgn	USER NAME = \$USER*	DESIGNED - JWS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING LIGHTING REMOVAL AND TEMPORARY LIGHTING NORTH TRI LEVEL			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = \$SCALE*	DRAWN - PDB	REVISED -		SCALE: 1"=50'	SHEET NO. 7 OF 35 SHEETS	STA. 2350+00.00 TO STA. 2365+00.00	57/70	(25-4R)	EFFINGHAM	1760	454
	PLOT DATE = \$DATE*	CHECKED - BRM	REVISED -					CONTRACT NO. 74295				
		DATE - 11-02-12	REVISED -					ILLINOIS FED. AID PROJECT				



EXISTING ROW LINE

EXISTING ROW LINE



LEGEND

R EXISTING HIGH MAST TOWER TO BE REMOVED

ET EXISTING HIGH MAST TOWER USED FOR TEMPORARY LIGHTING AND THEN REMOVED

⊗ TEMPORARY WOOD POLE, 55 FEET, CLASS 4

⊠ E EXISTING LIGHTING CONTROLLER

⊙ T TEMPORARY WOOD POLE, 55 FEET, CLASS 4 WITH 250W HPS LUMINAIRE, 45 FEET MOUNTING HEIGHT ARROW INDICATES LUMINAIRE AIMING DIRECTION

— E — EXISTING UNIT DUCT OR CABLE IN CONDUIT

⊙ E EXISTING LIGHTING UNIT

⊠ E EXISTING JUNCTION BOX

— A — AERIAL CABLE, 2-1/2 NO. 4 UNLESS OTHERWISE NOTED WITH MESSENGER WIRE

— T — TEMPORARY UNIT DUCT, 2-1/2 NO. 6, 1/2 NO. 8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE

NOTES:

1. THE LOCATIONS OF EXISTING UNIT DUCT AS SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION IN THE FIELD PRIOR TO CONSTRUCTION.
2. EXISTING HIGH MAST TOWER TO BE REMOVED. THIS WORK SHALL BE PAID FOR AS "REMOVAL OF LIGHTING UNIT, NO SALVAGE" PAY ITEM. FOUNDATION REMOVAL SHALL BE PAID FOR AS "REMOVAL OF POLE FOUNDATION" PAY ITEM.
3. REMOVAL WILL BE PAID FOR AS "REMOVAL OF EXISTING CONTROLLER" PAY ITEM



L-8

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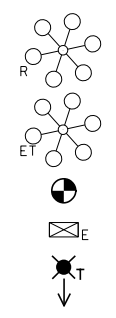
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	DATE - 11-02-12	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

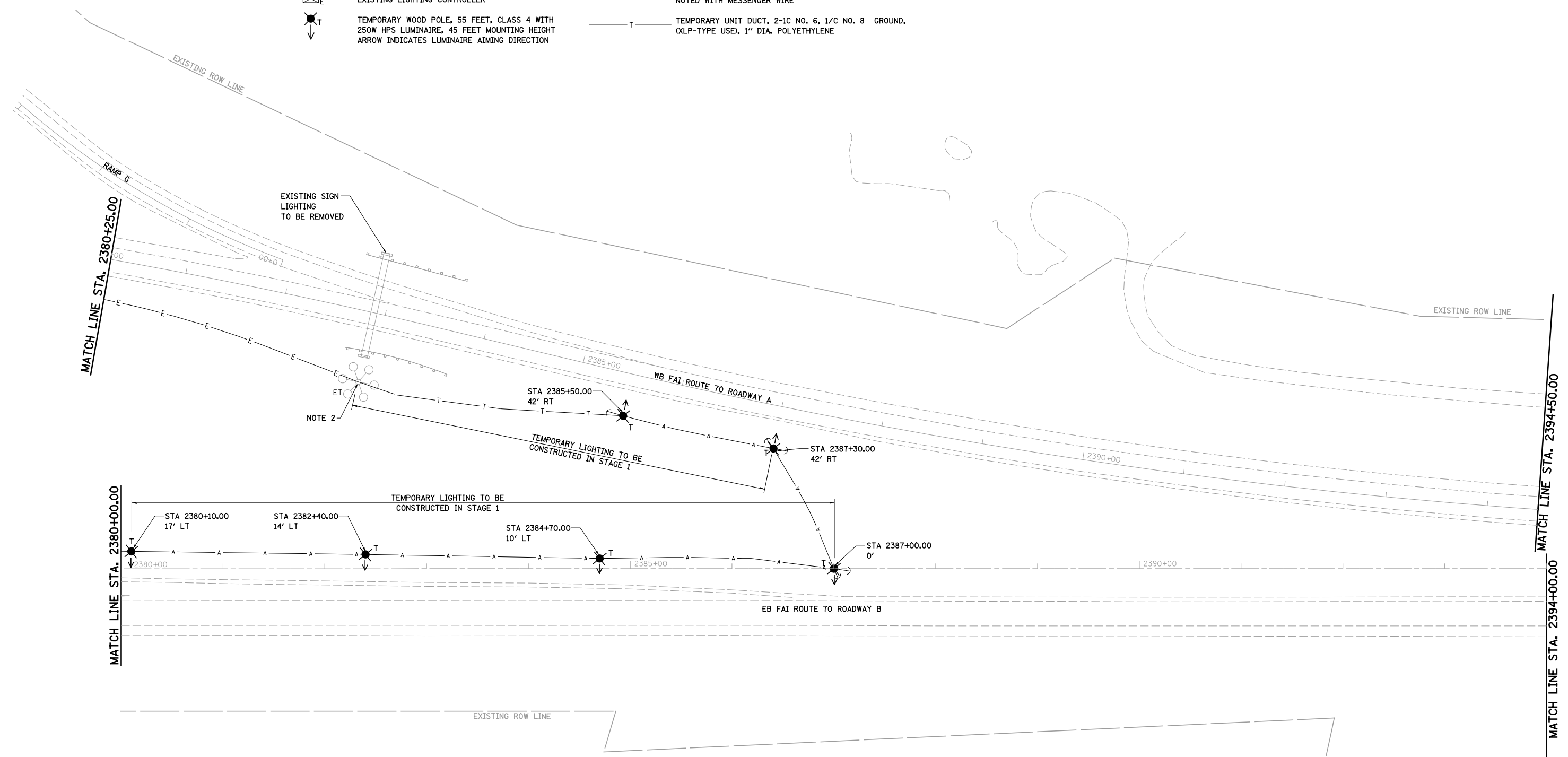
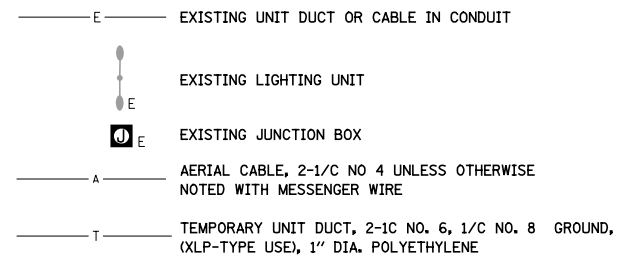
**EXISTING LIGHTING REMOVAL AND TEMPORARY LIGHTING
NORTH TRI LEVEL**

SCALE: 1"=50' SHEET NO. 8 OF 35 SHEETS STA. 2365+00.00 TO STA. 2380+00.00

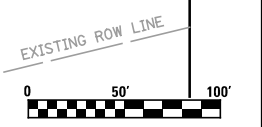
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-4)R	EFFINGHAM	1760	455
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 74295	



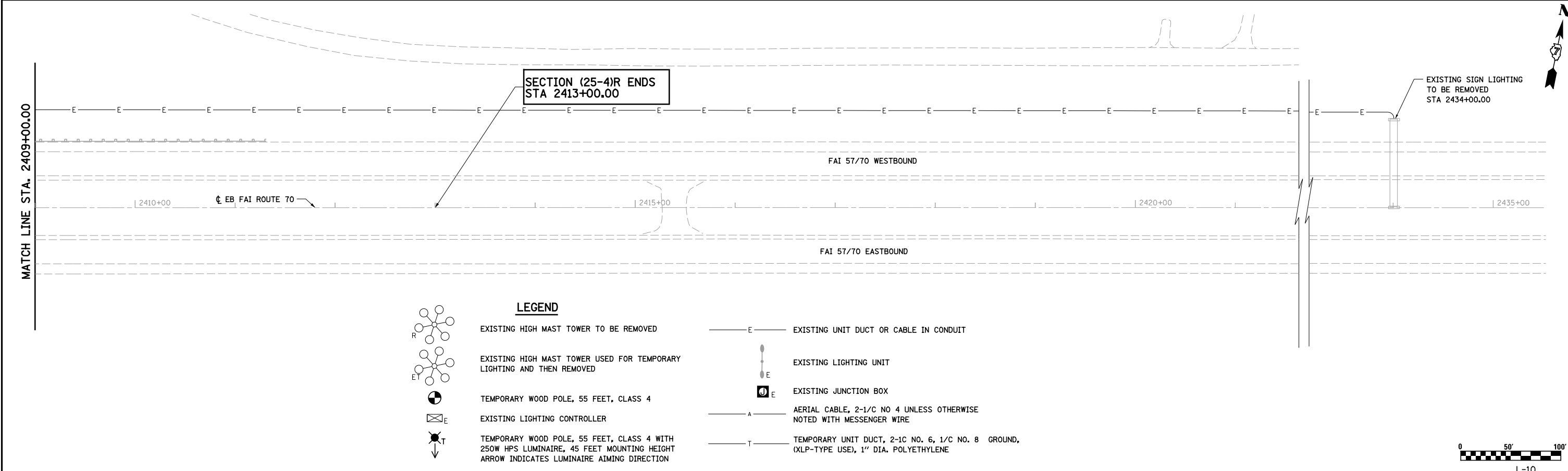
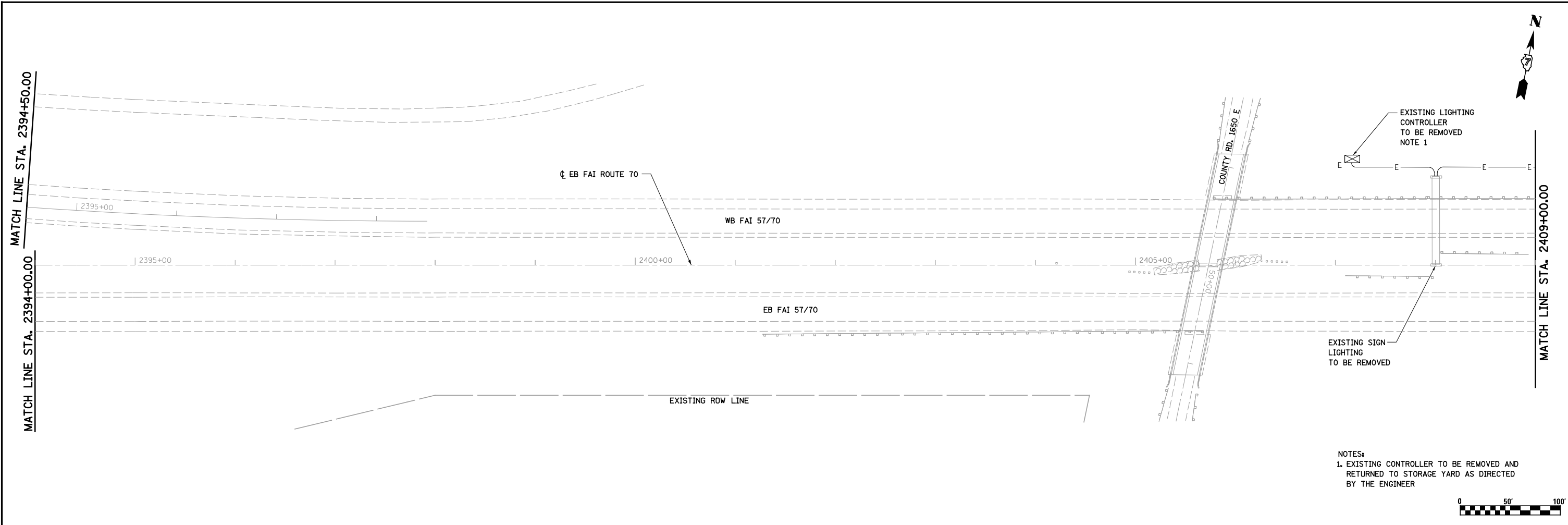
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








- NOTES:**
1. THE LOCATIONS OF EXISTING UNIT DUCT AS SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION IN THE FIELD PRIOR TO CONSTRUCTION.
 2. EXISTING HIGH MAST TOWER TO BE REMOVED. THIS WORK SHALL BE PAID FOR AS "REMOVAL OF LIGHTING UNIT, NO SALVAGE" PAY ITEM. FOUNDATION REMOVAL SHALL BE PAID FOR AS "REMOVAL OF POLE FOUNDATION" PAY ITEM.



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PLOT SCALE = \$SCALE*	CHECKED - BRM	REVISED -	REVISED -		SCALE: 1"=50'	SHEET NO. 9 OF 35 SHEETS	STA. 2380+00.00 TO STA. 2394+00.00	CONTRACT NO. 74295				
PLOT DATE = \$DATE*	DATE - 11-02-12	REVISED -	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							
L-9												



- LEGEND**
-  EXISTING HIGH MAST TOWER TO BE REMOVED
 -  EXISTING HIGH MAST TOWER USED FOR TEMPORARY LIGHTING AND THEN REMOVED
 -  TEMPORARY WOOD POLE, 55 FEET, CLASS 4
 -  EXISTING LIGHTING CONTROLLER
 -  TEMPORARY WOOD POLE, 55 FEET, CLASS 4 WITH 250W HPS LUMINAIRE, 45 FEET MOUNTING HEIGHT ARROW INDICATES LUMINAIRE AIMING DIRECTION
 -  EXISTING UNIT DUCT OR CABLE IN CONDUIT
 -  EXISTING LIGHTING UNIT
 -  EXISTING JUNCTION BOX
 -  AERIAL CABLE, 2-1/C NO 4 UNLESS OTHERWISE NOTED WITH MESSENGER WIRE
 -  TEMPORARY UNIT DUCT, 2-1C NO. 6, 1/C NO. 8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE

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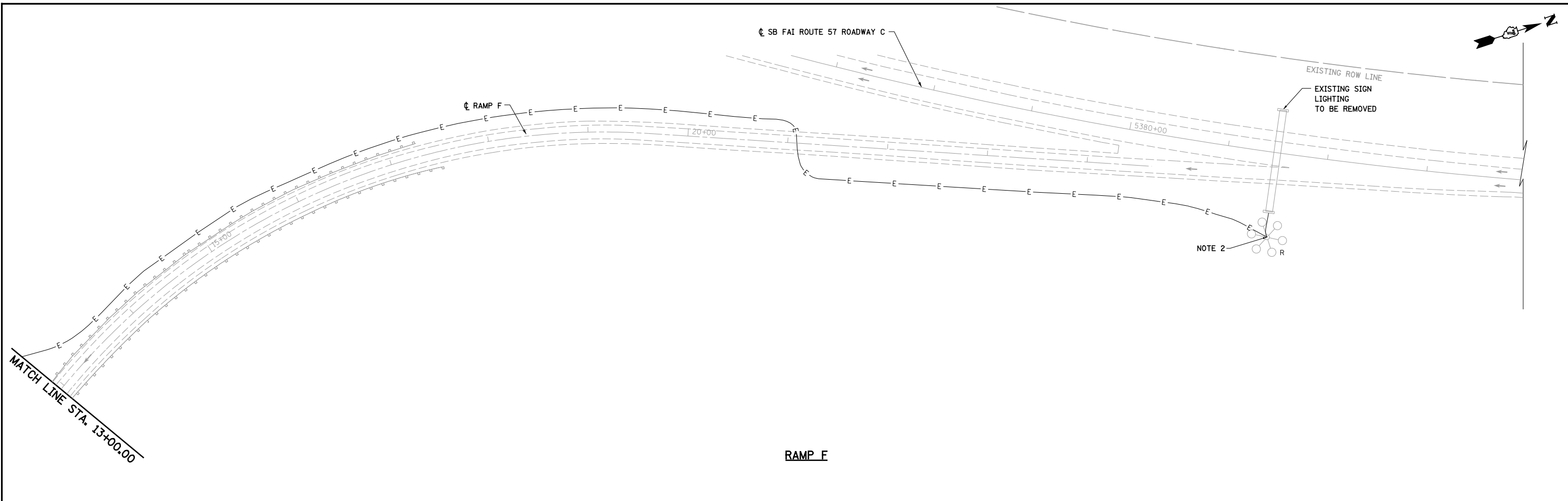
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PLOT DATE = \$DATE*	CHECKED - BRM	REVISED -
	DATE - 11-02-12	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

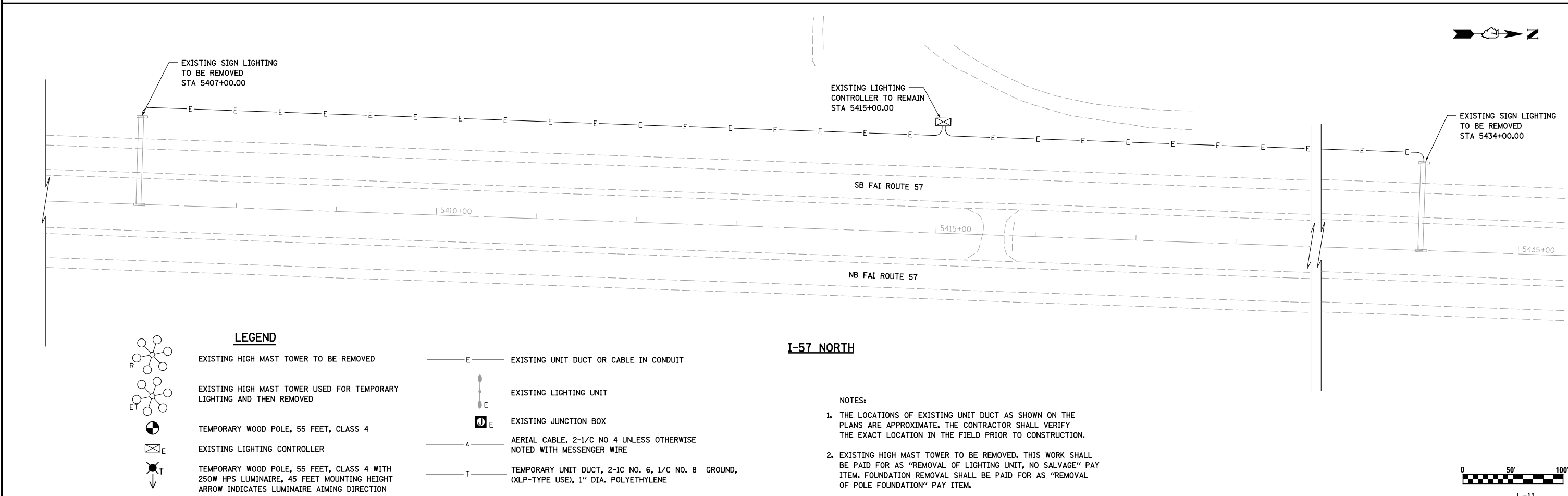
**EXISTING LIGHTING REMOVAL AND TEMPORARY LIGHTING
NORTH TRI LEVEL**

SCALE: 1"=50' SHEET NO. 10 OF 35 SHEETS STA. 2394+00.00 TO STA. 2424+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-4)R	EFFINGHAM	1760	457
CONTRACT NO. 74295				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



RAMP F



I-57 NORTH

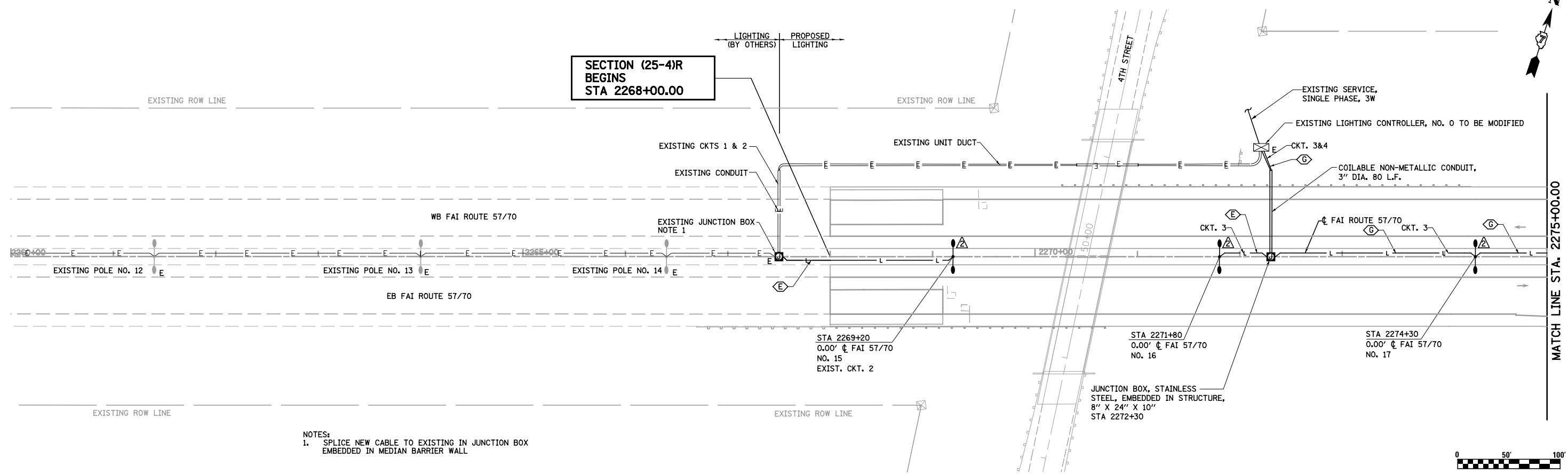
LEGEND

	EXISTING HIGH MAST TOWER TO BE REMOVED		EXISTING UNIT DUCT OR CABLE IN CONDUIT
	EXISTING HIGH MAST TOWER USED FOR TEMPORARY LIGHTING AND THEN REMOVED		EXISTING LIGHTING UNIT
	TEMPORARY WOOD POLE, 55 FEET, CLASS 4		EXISTING JUNCTION BOX
	EXISTING LIGHTING CONTROLLER		AERIAL CABLE, 2-1/8" NO. 4 UNLESS OTHERWISE NOTED WITH MESSENGER WIRE
	TEMPORARY WOOD POLE, 55 FEET, CLASS 4 WITH 250W HPS LUMINAIRE, 45 FEET MOUNTING HEIGHT ARROW INDICATES LUMINAIRE AIMING DIRECTION		TEMPORARY UNIT DUCT, 2-1/8" NO. 6, 1/8" NO. 8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE

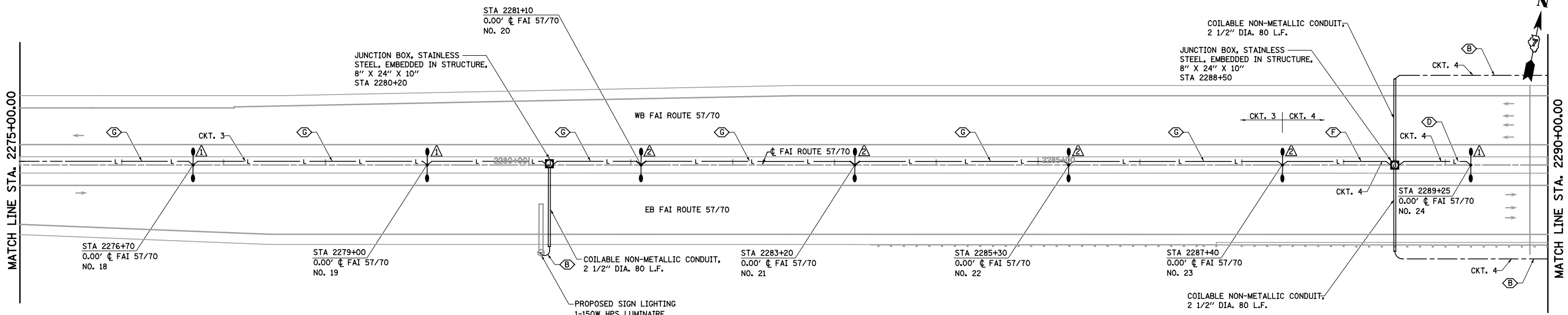
- NOTES:
1. THE LOCATIONS OF EXISTING UNIT DUCT AS SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION IN THE FIELD PRIOR TO CONSTRUCTION.
 2. EXISTING HIGH MAST TOWER TO BE REMOVED. THIS WORK SHALL BE PAID FOR AS "REMOVAL OF LIGHTING UNIT, NO SALVAGE" PAY ITEM. FOUNDATION REMOVAL SHALL BE PAID FOR AS "REMOVAL OF POLE FOUNDATION" PAY ITEM.



FILE NAME = s:\project\00072.57-70.dgn\15 TriLvl\plan_s11.dgn	USER NAME = *USER*	DESIGNED - JWS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING LIGHTING REMOVAL AND TEMPORARY LIGHTING NORTH TRI LEVEL			F.A.I. RTE. 57/70	SECTION (25-4)R	COUNTY EFFINGHAM	TOTAL SHEETS 1760	SHEET NO. 458
PLOT SCALE = *SCALE*	CHECKED - BRM	REVISIED -	REVISIED -		SCALE: 1"=50'	SHEET NO. 11 OF 35 SHEETS	STA. 13+00.00 TO STA. 24+00.00	CONTRACT NO. 74295				
PLOT DATE = *DATE*	DATE - 11-02-12	REVISIED -	REVISIED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							
L-11												



NOTES:
1. SPLICE NEW CABLE TO EXISTING IN JUNCTION BOX EMBEDDED IN MEDIAN BARRIER WALL

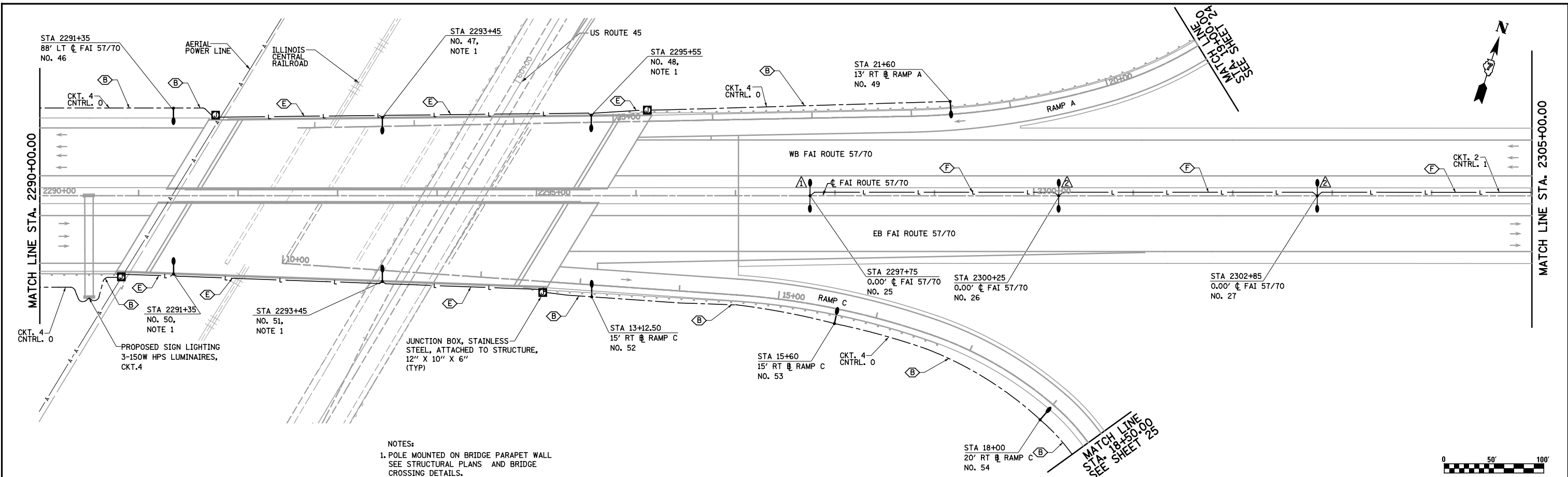


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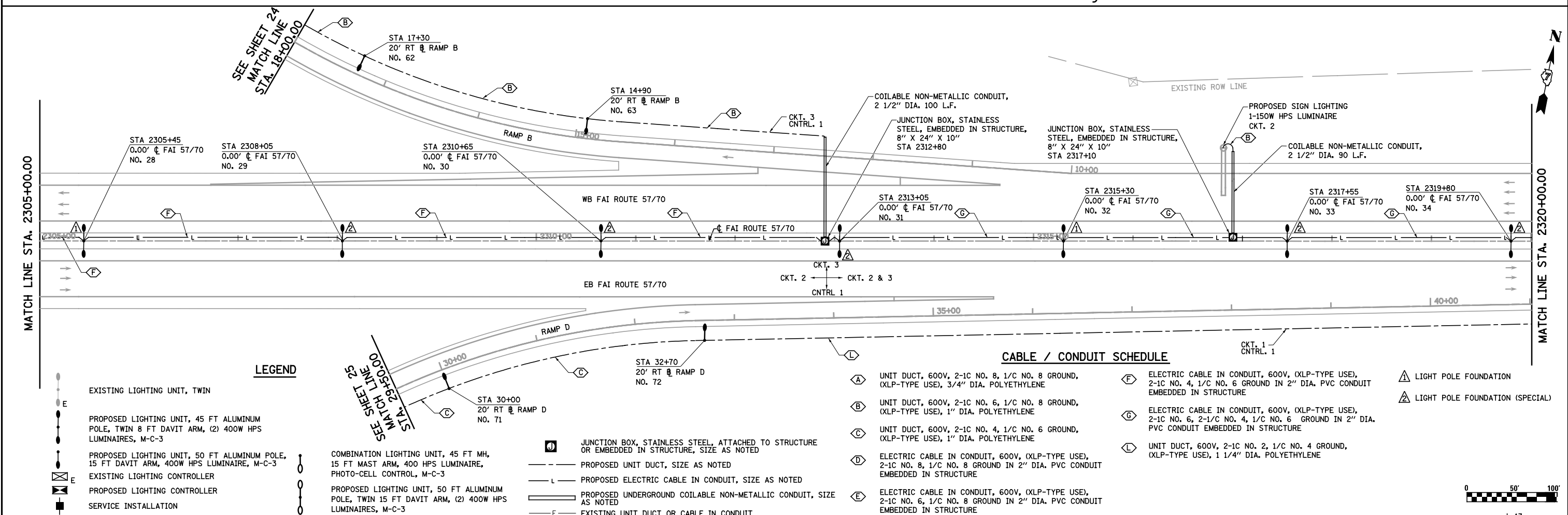
- EXISTING LIGHTING UNIT, TWIN
- PROPOSED LIGHTING UNIT, 45 FT ALUMINUM POLE, TWIN 8 FT DAVIT ARM, (2) 400W HPS LUMINAIRES, M-C-3
- PROPOSED LIGHTING UNIT, 50 FT ALUMINUM POLE, 15 FT DAVIT ARM, 400W HPS LUMINAIRE, M-C-3
- EXISTING LIGHTING CONTROLLER
- PROPOSED LIGHTING CONTROLLER
- SERVICE INSTALLATION
- COMBINATION LIGHTING UNIT, 45 FT MH, 15 FT MAST ARM, 400 HPS LUMINAIRE, PHOTO-CELL CONTROL, M-C-3
- PROPOSED LIGHTING UNIT, 50 FT ALUMINUM POLE, TWIN 15 FT DAVIT ARM, (2) 400W HPS LUMINAIRES, M-C-3
- JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE OR EMBEDDED IN STRUCTURE, SIZE AS NOTED
- PROPOSED UNIT DUCT, SIZE AS NOTED
- PROPOSED ELECTRIC CABLE IN CONDUIT, SIZE AS NOTED
- PROPOSED UNDERGROUND COILABLE NON-METALLIC CONDUIT, SIZE AS NOTED
- EXISTING UNIT DUCT OR CABLE IN CONDUIT

CABLE / CONDUIT SCHEDULE

- UNIT DUCT, 600V, 2-1C NO. 8, 1/C NO. 8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE
- UNIT DUCT, 600V, 2-1C NO. 6, 1/C NO. 8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE
- UNIT DUCT, 600V, 2-1C NO. 4, 1/C NO. 6 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE
- ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 8, 1/C NO. 8 GROUND IN 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE
- ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 6, 1/C NO. 8 GROUND IN 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE
- ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 4, 1/C NO. 6 GROUND IN 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE
- ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 6, 2-1/C NO. 4, 1/C NO. 6 GROUND IN 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE
- UNIT DUCT, 600V, 2-1C NO. 2, 1/C NO. 4 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE
- LIGHT POLE FOUNDATION
- LIGHT POLE FOUNDATION (SPECIAL)



NOTES:
 1. POLE MOUNTED ON BRIDGE PARAPET WALL
 SEE STRUCTURAL PLANS AND BRIDGE
 CROSSING DETAILS.



LEGEND

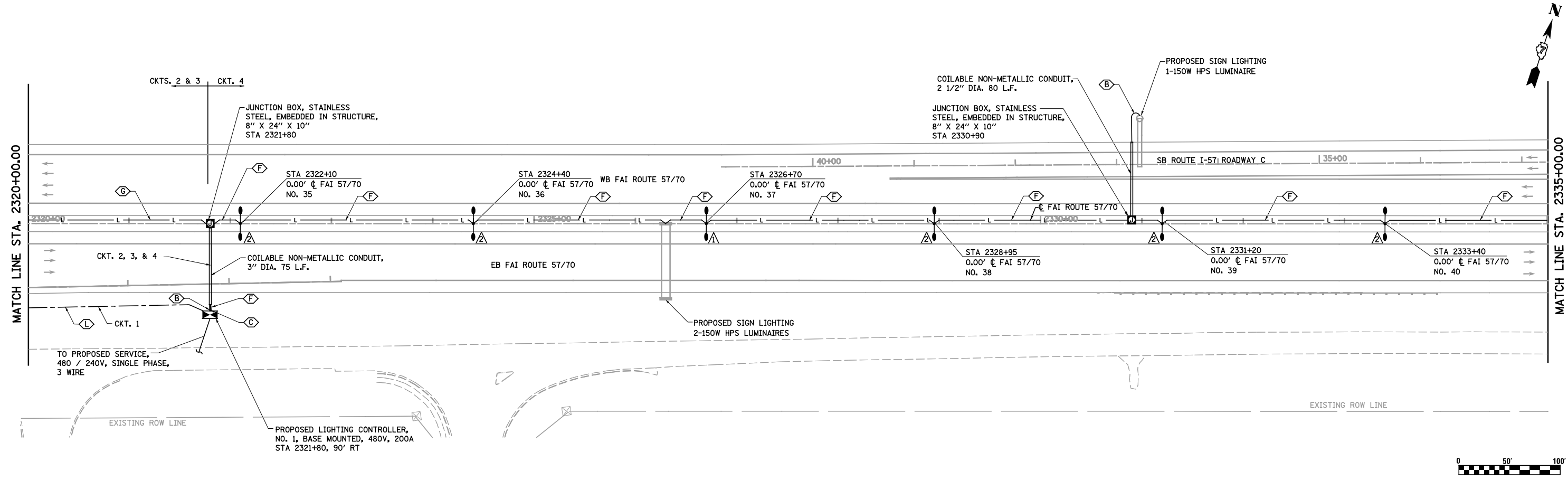
- EXISTING LIGHTING UNIT, TWIN
- E PROPOSED LIGHTING UNIT, 45 FT ALUMINUM POLE, TWIN 8 FT DAVIT ARM, (2) 400W HPS LUMINAIRES, M-C-3
- PROPOSED LIGHTING UNIT, 50 FT ALUMINUM POLE, 15 FT DAVIT ARM, 400W HPS LUMINAIRE, M-C-3
- E EXISTING LIGHTING CONTROLLER
- PROPOSED LIGHTING CONTROLLER
- SERVICE INSTALLATION

- COMBINATION LIGHTING UNIT, 45 FT MH, 15 FT MAST ARM, 400 HPS LUMINAIRE, PHOTO-CELL CONTROL, M-C-3
- PROPOSED LIGHTING UNIT, 50 FT ALUMINUM POLE, TWIN 15 FT DAVIT ARM, (2) 400W HPS LUMINAIRES, M-C-3

- JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE OR EMBEDDED IN STRUCTURE, SIZE AS NOTED
- PROPOSED UNIT DUCT, SIZE AS NOTED
- L PROPOSED ELECTRIC CABLE IN CONDUIT, SIZE AS NOTED
- PROPOSED UNDERGROUND COILABLE NON-METALLIC CONDUIT, SIZE AS NOTED
- E EXISTING UNIT DUCT OR CABLE IN CONDUIT

CABLE / CONDUIT SCHEDULE

- A UNIT DUCT, 600V, 2-1C NO. 8, 1/C NO. 8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE
- B UNIT DUCT, 600V, 2-1C NO. 6, 1/C NO. 8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE
- C UNIT DUCT, 600V, 2-1C NO. 4, 1/C NO. 6 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE
- D ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 8, 1/C NO. 8 GROUND IN 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE
- E ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 6, 1/C NO. 8 GROUND IN 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE
- F ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 4, 1/C NO. 6 GROUND IN 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE
- G ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 6, 2-1/C NO. 4, 1/C NO. 6 GROUND IN 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE
- L UNIT DUCT, 600V, 2-1C NO. 2, 1/C NO. 4 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE
- LIGHT POLE FOUNDATION
- LIGHT POLE FOUNDATION (SPECIAL)

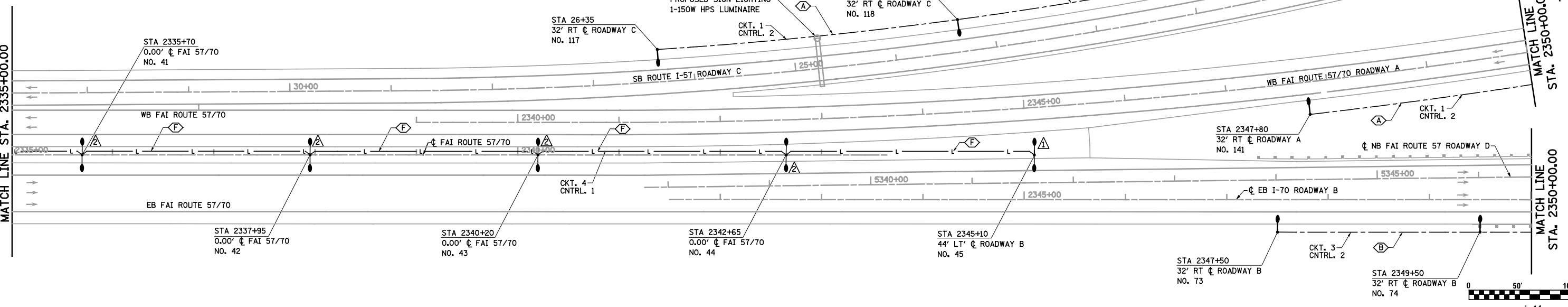


LEGEND

- EXISTING LIGHTING UNIT, TWIN
- PROPOSED LIGHTING UNIT, 45 FT ALUMINUM POLE, TWIN 8 FT DAVIT ARM, (2) 400W HPS LUMINAIRES, M-C-3
- PROPOSED LIGHTING UNIT, 50 FT ALUMINUM POLE, TWIN 15 FT DAVIT ARM, (2) 400W HPS LUMINAIRES, M-C-3
- EXISTING LIGHTING CONTROLLER
- PROPOSED LIGHTING CONTROLLER
- SERVICE INSTALLATION
- COMBINATION LIGHTING UNIT, 45 FT MH, 15 FT MAST ARM, 400 HPS LUMINAIRE, PHOTO-CELL CONTROL, M-C-3
- PROPOSED LIGHTING UNIT, 50 FT ALUMINUM POLE, TWIN 15 FT DAVIT ARM, (2) 400W HPS LUMINAIRES, M-C-3
- JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE OR EMBEDDED IN STRUCTURE, SIZE AS NOTED
- PROPOSED UNIT DUCT, SIZE AS NOTED
- PROPOSED ELECTRIC CABLE IN CONDUIT, SIZE AS NOTED
- PROPOSED UNDERGROUND COILABLE NON-METALLIC CONDUIT, SIZE AS NOTED
- EXISTING UNIT DUCT OR CABLE IN CONDUIT

CABLE / CONDUIT SCHEDULE

- A** UNIT DUCT, 600V, 2-1C NO. 8, 1/C NO. 8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE
- B** UNIT DUCT, 600V, 2-1C NO. 6, 1/C NO. 8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE
- C** UNIT DUCT, 600V, 2-1C NO. 4, 1/C NO. 6 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE
- D** ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 8, 1/C NO. 8 GROUND IN 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE
- E** ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 6, 1/C NO. 8 GROUND IN 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE
- F** ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 4, 1/C NO. 6 GROUND IN 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE
- G** ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 6, 2-1/C NO. 4, 1/C NO. 6 GROUND IN 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE
- L** UNIT DUCT, 600V, 2-1C NO. 2, 1/C NO. 4 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE
- LIGHT POLE FOUNDATION
- LIGHT POLE FOUNDATION (SPECIAL)



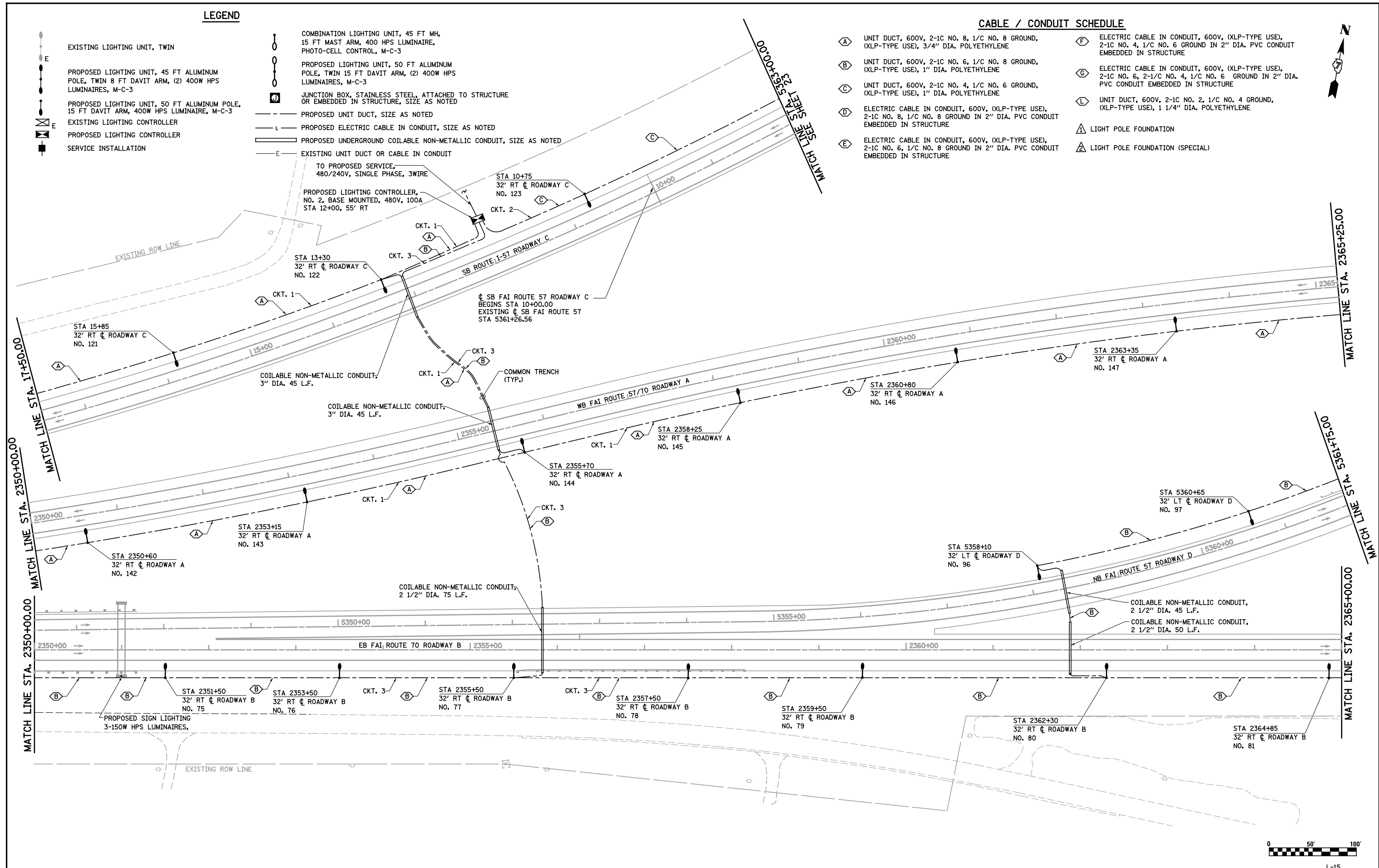
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	PLOT SCALE = *SCALE*	CHECKED - BRM	REVISED -		SCALE: 1"=50'	SHEET NO. 14 OF 35 SHEETS	STA. 2320+00.00 TO STA. 2350+00.00	CONTRACT NO. 74295				
	PLOT DATE = *DATE*	DATE - 11-02-12	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							
L-14												

LEGEND

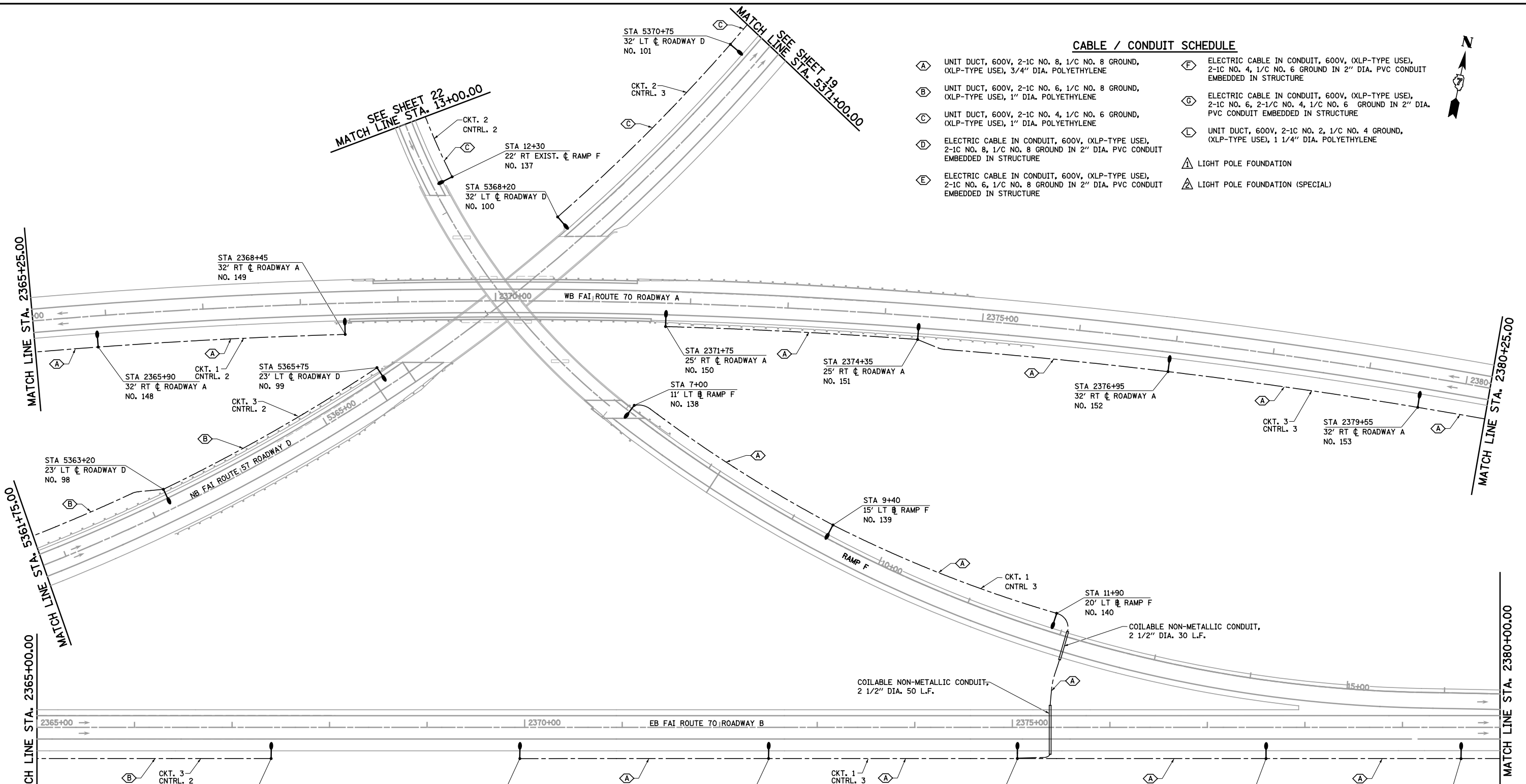
- EXISTING LIGHTING UNIT, TWIN
- PROPOSED LIGHTING UNIT, 45 FT ALUMINUM POLE, TWIN 8 FT DAVIT ARM, (2) 400W HPS LUMINAIRES, M-C-3
- PROPOSED LIGHTING UNIT, 50 FT ALUMINUM POLE, 15 FT DAVIT ARM, 400W HPS LUMINAIRE, M-C-3
- EXISTING LIGHTING CONTROLLER
- PROPOSED LIGHTING CONTROLLER
- SERVICE INSTALLATION
- COMBINATION LIGHTING UNIT, 45 FT MH, 15 FT MAST ARM, 400 HPS LUMINAIRE, PHOTO-CELL CONTROL, M-C-3
- PROPOSED LIGHTING UNIT, 50 FT ALUMINUM POLE, TWIN 15 FT DAVIT ARM, (2) 400W HPS LUMINAIRES, M-C-3
- JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE OR EMBEDDED IN STRUCTURE, SIZE AS NOTED
- PROPOSED UNIT DUCT, SIZE AS NOTED
- PROPOSED ELECTRIC CABLE IN CONDUIT, SIZE AS NOTED
- PROPOSED UNDERGROUND COILABLE NON-METALLIC CONDUIT, SIZE AS NOTED
- EXISTING UNIT DUCT OR CABLE IN CONDUIT

CABLE / CONDUIT SCHEDULE

- UNIT DUCT, 600V, 2-1C NO. 8, 1/C NO. 8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE
- UNIT DUCT, 600V, 2-1C NO. 6, 1/C NO. 8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE
- UNIT DUCT, 600V, 2-1C NO. 4, 1/C NO. 6 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE
- ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 8, 1/C NO. 8 GROUND IN 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE
- ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 6, 1/C NO. 8 GROUND IN 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE
- ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 4, 1/C NO. 6 GROUND IN 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE
- ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 6, 2-1/C NO. 4, 1/C NO. 6 GROUND IN 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE
- UNIT DUCT, 600V, 2-1C NO. 2, 1/C NO. 4 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE
- LIGHT POLE FOUNDATION
- LIGHT POLE FOUNDATION (SPECIAL)



FILE NAME =	USER NAME = *USER*	DESIGNED - JWS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED LIGHTING, NORTH TRI LEVEL			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PROJECTOR 00072.57-70.dgn		DRAWN - PDB	REVISED -		SCALE: 1"=50'	SHEET NO. 15 OF 35 SHEETS	STA. 2350+00.00 TO STA. 2365+00.00	57/70	(25-4R)	EFFINGHAM	1760	462
		CHECKED - BRM	REVISED -					CONTRACT NO. 74295				
		DATE - 11-02-12	REVISED -					FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



CABLE / CONDUIT SCHEDULE

- (A) UNIT DUCT, 600V, 2-1C NO. 8, 1/C NO. 8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE
- (B) UNIT DUCT, 600V, 2-1C NO. 6, 1/C NO. 8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE
- (C) UNIT DUCT, 600V, 2-1C NO. 4, 1/C NO. 6 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE
- (D) ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 8, 1/C NO. 8 GROUND IN 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE
- (E) ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 6, 1/C NO. 8 GROUND IN 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE
- (F) ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 4, 1/C NO. 6 GROUND IN 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE
- (G) ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 6, 2-1/C NO. 4, 1/C NO. 6 GROUND IN 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE
- (L) UNIT DUCT, 600V, 2-1C NO. 2, 1/C NO. 4 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE
- (▲) LIGHT POLE FOUNDATION
- (▲) LIGHT POLE FOUNDATION (SPECIAL)

LEGEND

- EXISTING LIGHTING UNIT, TWIN
- PROPOSED LIGHTING UNIT, 45 FT ALUMINUM POLE, TWIN 8 FT DAVIT ARM, (2) 400W HPS LUMINAIRES, M-C-3
- PROPOSED LIGHTING UNIT, 50 FT ALUMINUM POLE, 15 FT DAVIT ARM, 400W HPS LUMINAIRE, M-C-3
- EXISTING LIGHTING CONTROLLER
- PROPOSED LIGHTING CONTROLLER
- SERVICE INSTALLATION
- COMBINATION LIGHTING UNIT, 45 FT MH, 15 FT MAST ARM, 400 HPS LUMINAIRE, PHOTO-CELL CONTROL, M-C-3
- PROPOSED LIGHTING UNIT, 50 FT ALUMINUM POLE, TWIN 15 FT DAVIT ARM, (2) 400W HPS LUMINAIRES, M-C-3
- JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE OR EMBEDDED IN STRUCTURE, SIZE AS NOTED
- PROPOSED UNIT DUCT, SIZE AS NOTED
- PROPOSED ELECTRIC CABLE IN CONDUIT, SIZE AS NOTED
- PROPOSED UNDERGROUND COAILABLE NON-METALLIC CONDUIT, SIZE AS NOTED
- EXISTING UNIT DUCT OR CABLE IN CONDUIT



FILE NAME =
s:\projector\0007257-70.dgn\5 Trk\lump.sld.dgn

USER NAME = *USER*
DESIGNED - JWS
DRAWN - PDB
PLOT SCALE = *SCALE*
PLOT DATE = *DATE*

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PROPOSED LIGHTING, NORTH TRI LEVEL
SCALE: 1"=50'
SHEET NO. 16 OF 35 SHEETS
STA. 2365+00.00 TO STA. 2380+00.00

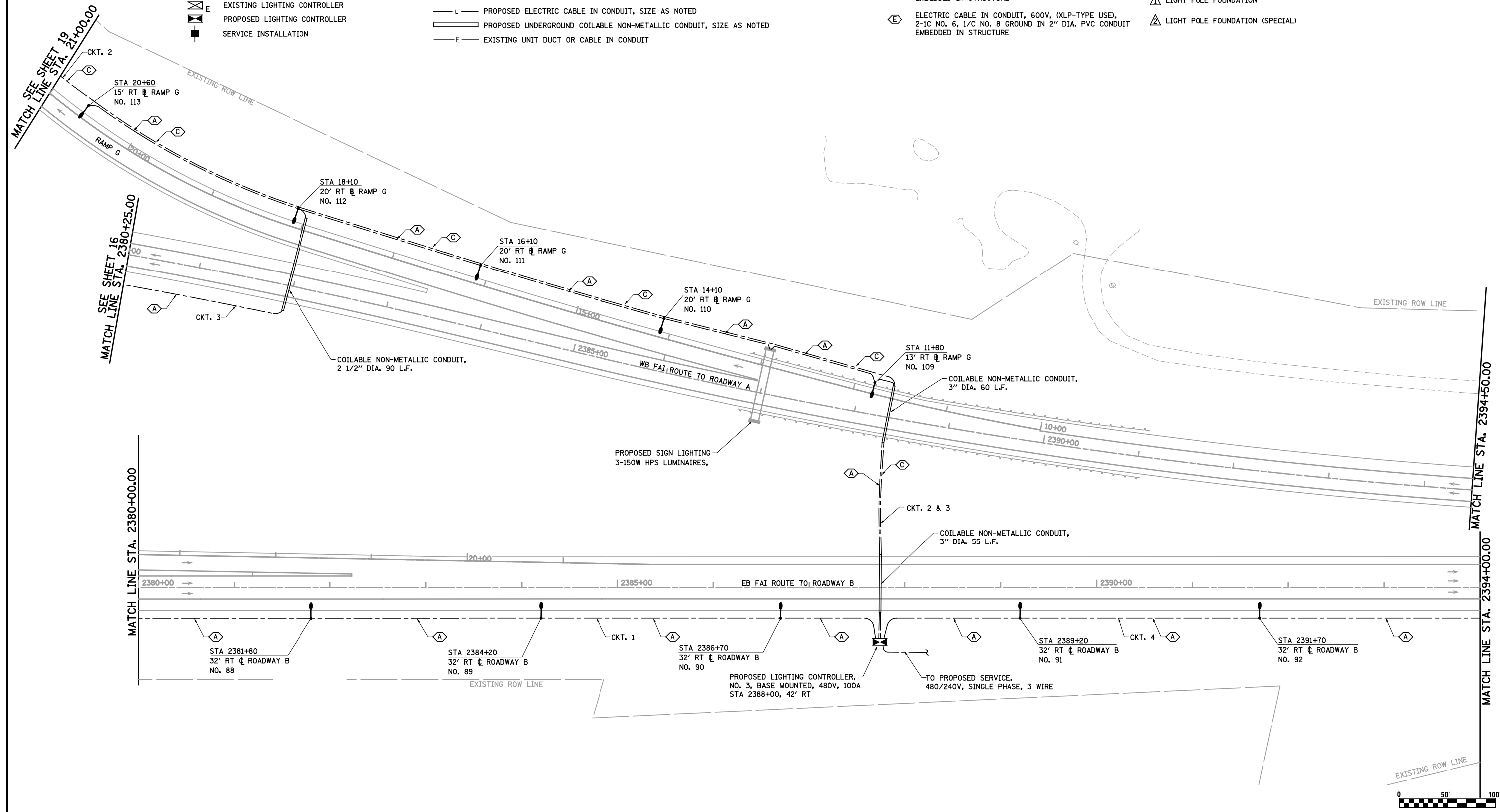
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-4R)	EFFINGHAM	1760	463
CONTRACT NO. 74295				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

LEGEND

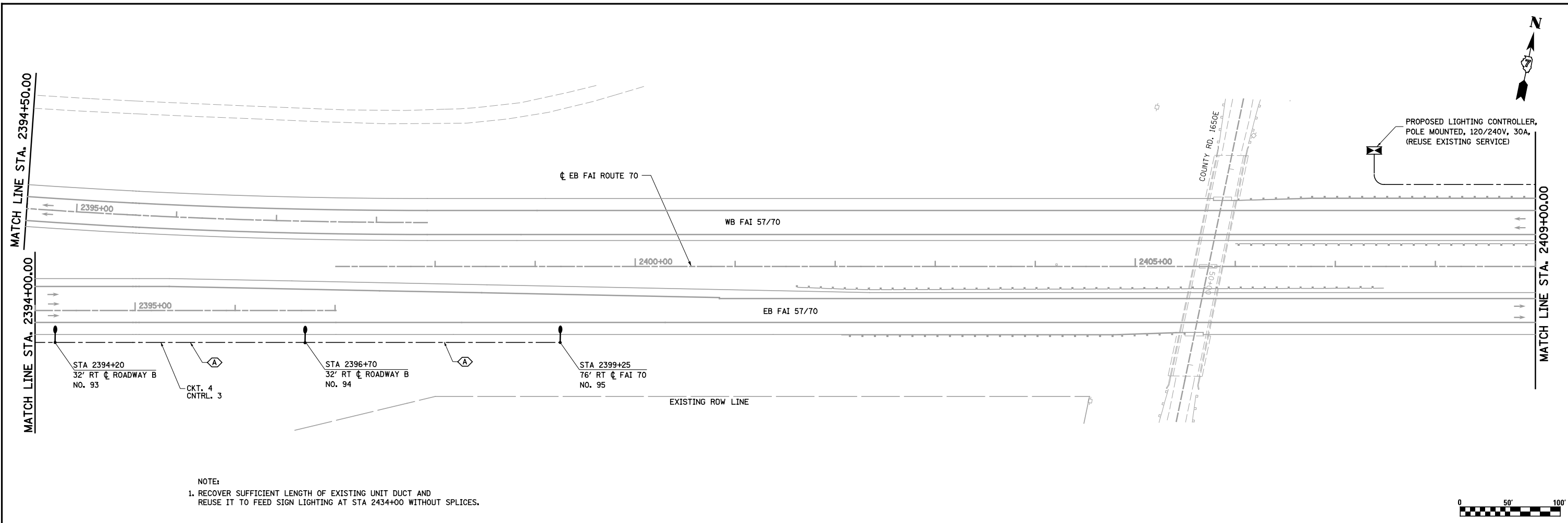
- EXISTING LIGHTING UNIT, TWIN
- PROPOSED LIGHTING UNIT, 45 FT ALUMINUM POLE, TWIN 8 FT DAVIT ARM, (2) 400W HPS LUMINAIRES, M-C-3
- PROPOSED LIGHTING UNIT, 50 FT ALUMINUM POLE, 15 FT DAVIT ARM, 400W HPS LUMINAIRE, M-C-3
- EXISTING LIGHTING CONTROLLER
- PROPOSED LIGHTING CONTROLLER
- SERVICE INSTALLATION
- COMBINATION LIGHTING UNIT, 45 FT MH, 15 FT MAST ARM, 400 HPS LUMINAIRE, PHOTO-CELL CONTROL, M-C-3
- PROPOSED LIGHTING UNIT, 50 FT ALUMINUM POLE, TWIN 15 FT DAVIT ARM, (2) 400W HPS LUMINAIRES, M-C-3
- JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE OR EMBEDDED IN STRUCTURE, SIZE AS NOTED
- PROPOSED UNIT DUCT, SIZE AS NOTED
- PROPOSED ELECTRIC CABLE IN CONDUIT, SIZE AS NOTED
- PROPOSED UNDERGROUND COILABLE NON-METALLIC CONDUIT, SIZE AS NOTED
- EXISTING UNIT DUCT OR CABLE IN CONDUIT

CABLE / CONDUIT SCHEDULE

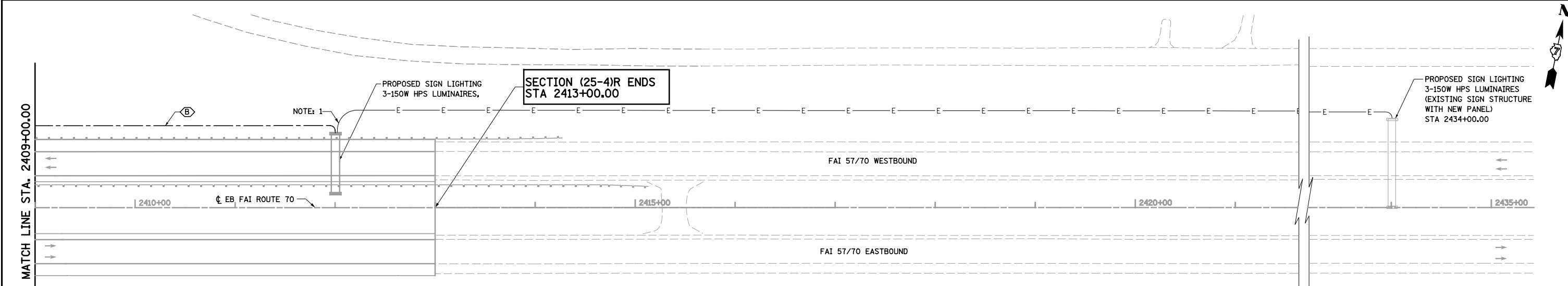
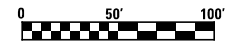
- UNIT DUCT, 600V, 2-1C NO. 8, 1/C NO. 8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE
- UNIT DUCT, 600V, 2-1C NO. 6, 1/C NO. 8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE
- UNIT DUCT, 600V, 2-1C NO. 4, 1/C NO. 6 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE
- ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 8, 1/C NO. 8 GROUND IN 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE
- ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 6, 1/C NO. 8 GROUND IN 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE
- ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 4, 1/C NO. 6 GROUND IN 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE
- ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 6, 2-1/C NO. 4, 1/C NO. 6 GROUND IN 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE
- UNIT DUCT, 600V, 2-1C NO. 2, 1/C NO. 4 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE
- LIGHT POLE FOUNDATION
- LIGHT POLE FOUNDATION (SPECIAL)



FILE NAME =	USER NAME = #USER#	DESIGNED - JWS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED LIGHTING, NORTH TRI LEVEL			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PROJECT # 007257-70.dgn		DRAWN - PDB	REVISED -		SCALE: 1"=50'	SHEET NO. 17 OF 35 SHEETS	STA. 2380+00.00 TO STA. 2394+00.00	57/70	(25-4R)	EFFINGHAM	1760	464
PLOT SCALE = #SCALE#		CHECKED - BRM	REVISED -					CONTRACT NO. 74295				
PLOT DATE = #DATE#		DATE - 11-02-12	REVISED -					FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



NOTE:
 1. RECOVER SUFFICIENT LENGTH OF EXISTING UNIT DUCT AND REUSE IT TO FEED SIGN LIGHTING AT STA 2434+00 WITHOUT SPLICES.

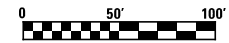


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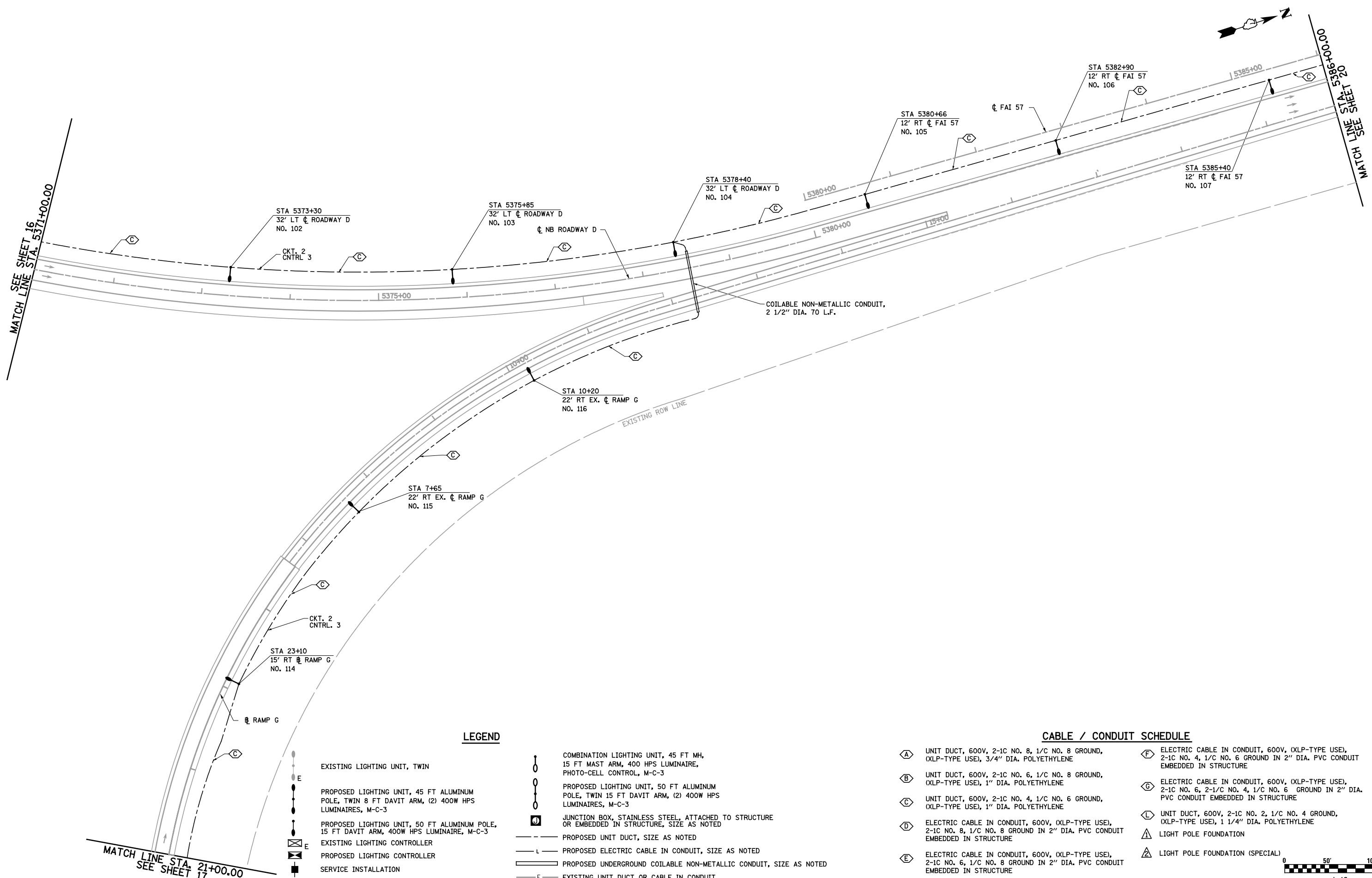
- EXISTING LIGHTING UNIT, TWIN
- PROPOSED LIGHTING UNIT, 45 FT ALUMINUM POLE, TWIN 8 FT DAVIT ARM, (2) 400W HPS LUMINAIRES, M-C-3
- PROPOSED LIGHTING UNIT, 50 FT ALUMINUM POLE, 15 FT DAVIT ARM, 400W HPS LUMINAIRE, M-C-3
- EXISTING LIGHTING CONTROLLER
- PROPOSED LIGHTING CONTROLLER
- SERVICE INSTALLATION
- COMBINATION LIGHTING UNIT, 45 FT MH, 15 FT MAST ARM, 400 HPS LUMINAIRE, PHOTO-CELL CONTROL, M-C-3
- PROPOSED LIGHTING UNIT, 50 FT ALUMINUM POLE, TWIN 15 FT DAVIT ARM, (2) 400W HPS LUMINAIRES, M-C-3
- JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE OR EMBEDDED IN STRUCTURE, SIZE AS NOTED
- PROPOSED UNIT DUCT, SIZE AS NOTED
- PROPOSED ELECTRIC CABLE IN CONDUIT, SIZE AS NOTED
- PROPOSED UNDERGROUND COILABLE NON-METALLIC CONDUIT, SIZE AS NOTED
- EXISTING UNIT DUCT OR CABLE IN CONDUIT

CABLE / CONDUIT SCHEDULE

- UNIT DUCT, 600V, 2-1C NO. 8, 1/C NO. 8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE
- UNIT DUCT, 600V, 2-1C NO. 6, 1/C NO. 8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE
- UNIT DUCT, 600V, 2-1C NO. 4, 1/C NO. 6 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE
- ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 8, 1/C NO. 8 GROUND IN 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE
- ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 6, 1/C NO. 8 GROUND IN 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE
- ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 4, 1/C NO. 6 GROUND IN 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE
- UNIT DUCT, 600V, 2-1C NO. 2, 1/C NO. 4 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE
- LIGHT POLE FOUNDATION
- LIGHT POLE FOUNDATION (SPECIAL)



FILE NAME = s:\project\2012\57-70\plan\57-70-18.dgn	USER NAME = \$USER\$	DESIGNED - JWS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED LIGHTING, FAI ROUTE 70			F.A.I. RTE. 57/70	SECTION (25-4)R	COUNTY EFFINGHAM	TOTAL SHEETS 1760	SHEET NO. 465
	PLOT SCALE = \$SCALE\$	CHECKED - BRM	REVISED -		SCALE: 1"=50'	SHEET NO. 18 OF 35 SHEETS	STA. 2394+00.00 TO STA. 2424+00.00	CONTRACT NO. 74295				
	PLOT DATE = \$DATE\$	DATE - 11-02-12	REVISED -					ILLINOIS FED. AID PROJECT				
L-18												



MATCH LINE STA. 5371+00.00
SEE SHEET 16

00+00.00 STA. 5386+00.00
SEE SHEET 20

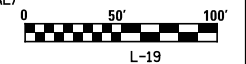
MATCH LINE STA. 21+00.00
SEE SHEET 17

LEGEND

- EXISTING LIGHTING UNIT, TWIN
- PROPOSED LIGHTING UNIT, 45 FT ALUMINUM POLE, TWIN 8 FT DAVIT ARM, (2) 400W HPS LUMINAIRES, M-C-3
- PROPOSED LIGHTING UNIT, 50 FT ALUMINUM POLE, 15 FT DAVIT ARM, 400W HPS LUMINAIRE, M-C-3
- EXISTING LIGHTING CONTROLLER
- PROPOSED LIGHTING CONTROLLER
- SERVICE INSTALLATION
- COMBINATION LIGHTING UNIT, 45 FT MH, 15 FT MAST ARM, 400 HPS LUMINAIRE, PHOTO-CELL CONTROL, M-C-3
- PROPOSED LIGHTING UNIT, 50 FT ALUMINUM POLE, TWIN 15 FT DAVIT ARM, (2) 400W HPS LUMINAIRES, M-C-3
- JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE OR EMBEDDED IN STRUCTURE, SIZE AS NOTED
- PROPOSED UNIT DUCT, SIZE AS NOTED
- PROPOSED ELECTRIC CABLE IN CONDUIT, SIZE AS NOTED
- PROPOSED UNDERGROUND COILABLE NON-METALLIC CONDUIT, SIZE AS NOTED
- EXISTING UNIT DUCT OR CABLE IN CONDUIT

CABLE / CONDUIT SCHEDULE

	UNIT DUCT, 600V, 2-1C NO. 8, 1/C NO. 8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE		ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 4, 1/C NO. 6 GROUND IN 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE
	UNIT DUCT, 600V, 2-1C NO. 6, 1/C NO. 8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE		ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 6, 2-1/C NO. 4, 1/C NO. 6 GROUND IN 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE
	UNIT DUCT, 600V, 2-1C NO. 4, 1/C NO. 6 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE		UNIT DUCT, 600V, 2-1C NO. 2, 1/C NO. 4 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE
	ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 8, 1/C NO. 8 GROUND IN 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE		LIGHT POLE FOUNDATION
	ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 6, 1/C NO. 8 GROUND IN 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE		LIGHT POLE FOUNDATION (SPECIAL)



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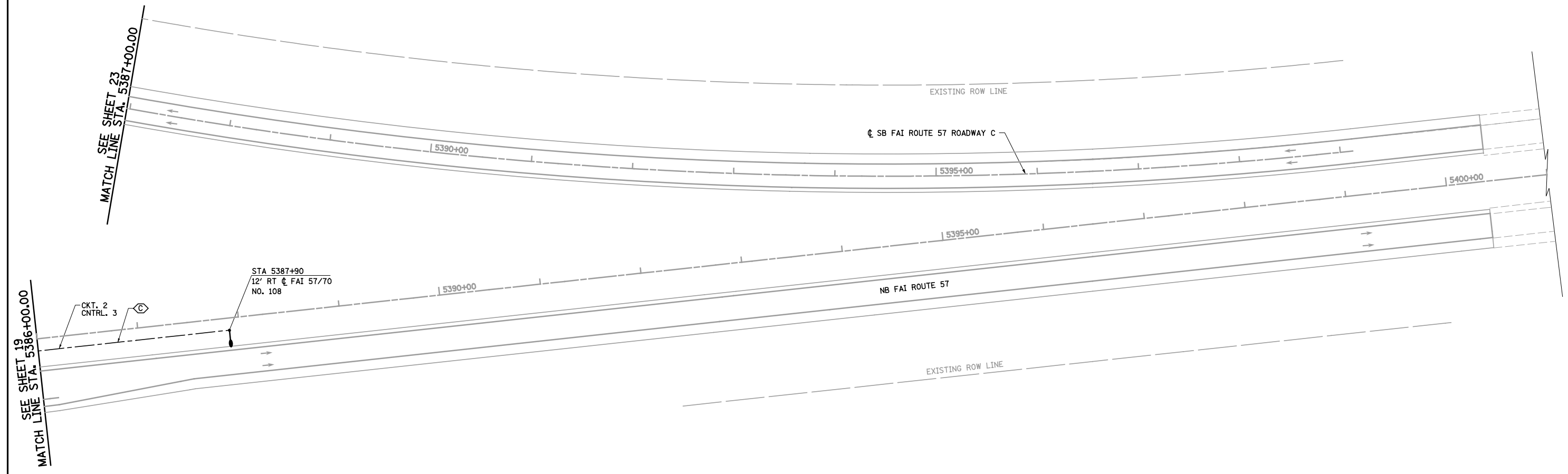
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PLOT DATE = *DATE*	CHECKED - BRM	REVISED -
	DATE - 11-02-12	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PROPOSED LIGHTING, RAMP G NORTH TRI LEVEL

SCALE: 1"=50' SHEET NO. 19 OF 35 SHEETS STA. 21+00.00 TO STA. 5386+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-4)R	EFFINGHAM	1760	466
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 74295	

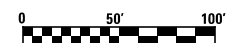


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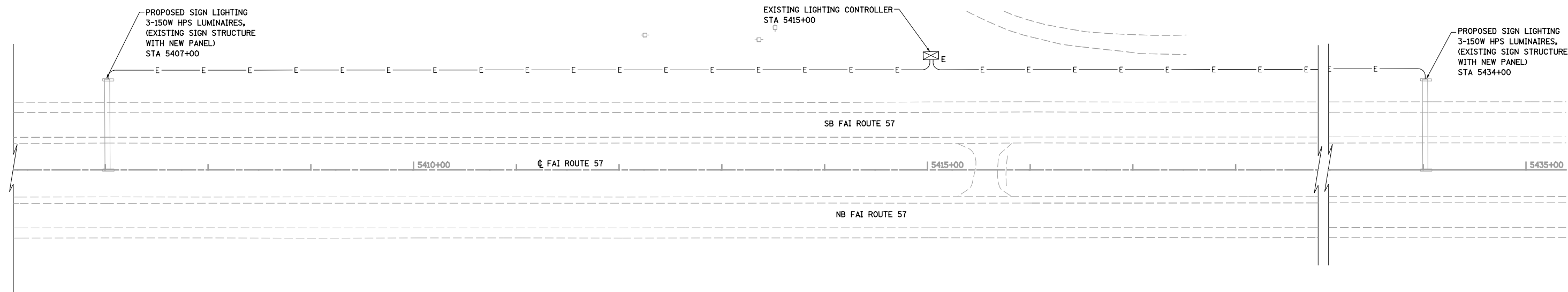
- EXISTING LIGHTING UNIT, TWIN
- PROPOSED LIGHTING UNIT, 45 FT ALUMINUM POLE, TWIN 8 FT DAVIT ARM, (2) 400W HPS LUMINAIRES, M-C-3
- PROPOSED LIGHTING UNIT, 50 FT ALUMINUM POLE, 15 FT DAVIT ARM, 400W HPS LUMINAIRE, M-C-3
- EXISTING LIGHTING CONTROLLER
- PROPOSED LIGHTING CONTROLLER
- SERVICE INSTALLATION
- COMBINATION LIGHTING UNIT, 45 FT MH, 15 FT MAST ARM, 400 HPS LUMINAIRE, PHOTO-CELL CONTROL, M-C-3
- PROPOSED LIGHTING UNIT, 50 FT ALUMINUM POLE, TWIN 15 FT DAVIT ARM, (2) 400W HPS LUMINAIRES, M-C-3
- JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE OR EMBEDDED IN STRUCTURE, SIZE AS NOTED
- PROPOSED UNIT DUCT, SIZE AS NOTED
- PROPOSED ELECTRIC CABLE IN CONDUIT, SIZE AS NOTED
- PROPOSED UNDERGROUND COILABLE NON-METALLIC CONDUIT, SIZE AS NOTED
- EXISTING UNIT DUCT OR CABLE IN CONDUIT

CABLE / CONDUIT SCHEDULE

- UNIT DUCT, 600V, 2-1C NO. 8, 1/C NO. 8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE
- UNIT DUCT, 600V, 2-1C NO. 6, 1/C NO. 8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE
- UNIT DUCT, 600V, 2-1C NO. 4, 1/C NO. 6 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE
- ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 8, 1/C NO. 8 GROUND IN 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE
- ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 6, 1/C NO. 8 GROUND IN 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE
- ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 4, 1/C NO. 6 GROUND IN 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE
- ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 6, 2-1/C NO. 4, 1/C NO. 6 GROUND IN 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE
- UNIT DUCT, 600V, 2-1C NO. 2, 1/C NO. 4 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE
- LIGHT POLE FOUNDATION
- LIGHT POLE FOUNDATION (SPECIAL)



FILE NAME = s:\project\0007257-70\dgn\5 Trk\lpmk.stl.dgn	USER NAME = #USER#	DESIGNED - JWS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED LIGHTING, ROADWAY C NORTH TRI LEVEL			F.A.I RTE. 57/70	SECTION (25-4)R	COUNTY EFFINGHAM	TOTAL SHEETS 1760	SHEET NO. 467
PLOT SCALE = #SCALE#		CHECKED - BRM	REVISED -		SCALE: 1"=50'	SHEET NO. 20 OF 35 SHEETS	STA. 5387+00.00 TO STA. 5400+40.00	CONTRACT NO. 74295				
PLOT DATE = #DATE#		DATE - 11-02-12	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							
L-20												



LEGEND

- EXISTING LIGHTING UNIT, TWIN
- PROPOSED LIGHTING UNIT, 45 FT ALUMINUM POLE, TWIN 8 FT DAVIT ARM, (2) 400W HPS LUMINAIRES, M-C-3
- PROPOSED LIGHTING UNIT, 50 FT ALUMINUM POLE, 15 FT DAVIT ARM, 400W HPS LUMINAIRE, M-C-3
- EXISTING LIGHTING CONTROLLER
- PROPOSED LIGHTING CONTROLLER
- SERVICE INSTALLATION
- COMBINATION LIGHTING UNIT, 45 FT MAST ARM, 400 HPS LUMINAIRE, PHOTO-CELL CONTROL, M-C-3
- PROPOSED LIGHTING UNIT, 50 FT ALUMINUM POLE, TWIN 15 FT DAVIT ARM, (2) 400W HPS LUMINAIRES, M-C-3
- JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE OR EMBEDDED IN STRUCTURE, SIZE AS NOTED
- PROPOSED UNIT DUCT, SIZE AS NOTED
- PROPOSED ELECTRIC CABLE IN CONDUIT, SIZE AS NOTED
- PROPOSED UNDERGROUND COILABLE NON-METALLIC CONDUIT, SIZE AS NOTED
- EXISTING UNIT DUCT OR CABLE IN CONDUIT

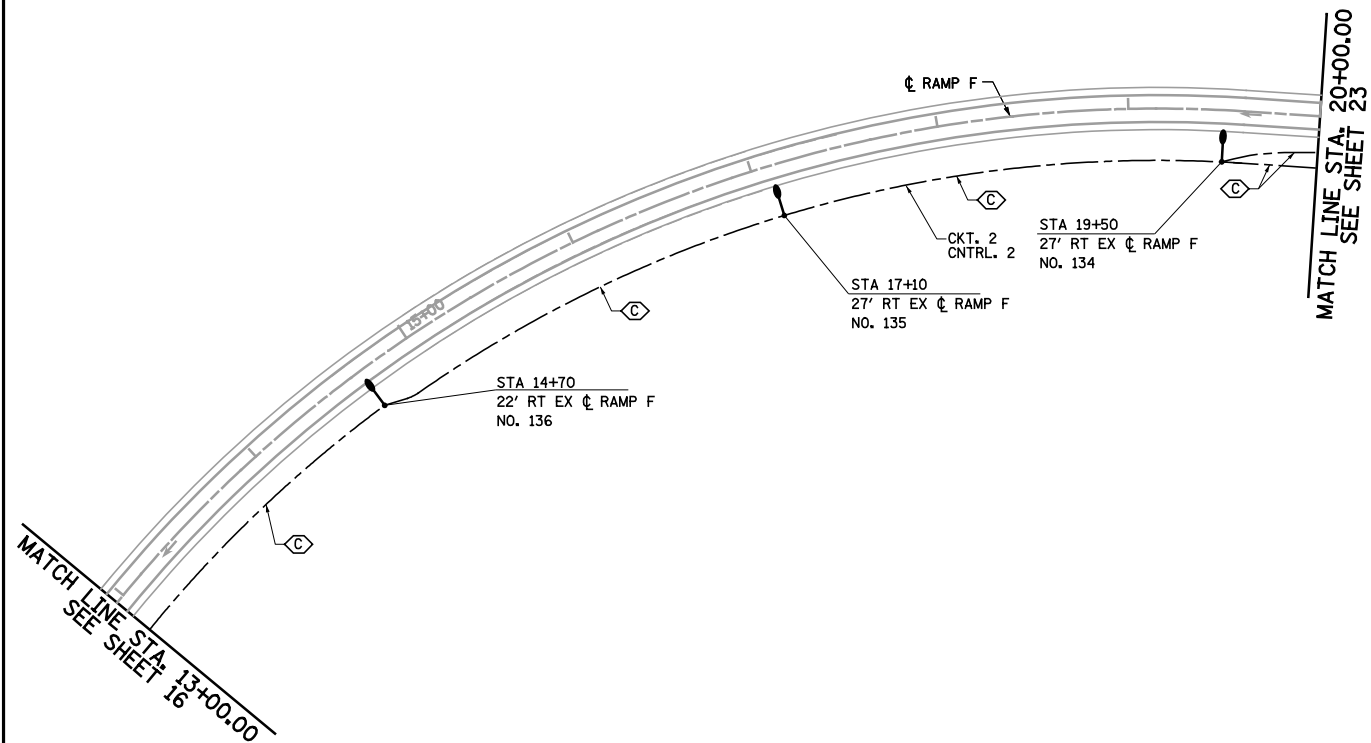
CABLE / CONDUIT SCHEDULE

- (A)** UNIT DUCT, 600V, 2-1C NO. 8, 1/C NO. 8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE
- (B)** UNIT DUCT, 600V, 2-1C NO. 6, 1/C NO. 8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE
- (C)** UNIT DUCT, 600V, 2-1C NO. 4, 1/C NO. 6 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE
- (D)** ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 8, 1/C NO. 8 GROUND IN 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE
- (E)** ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 6, 1/C NO. 8 GROUND IN 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE
- (F)** ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 4, 1/C NO. 6 GROUND IN 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE
- (G)** ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 6, 2-1/C NO. 4, 1/C NO. 6 GROUND IN 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE
- (L)** UNIT DUCT, 600V, 2-1C NO. 2, 1/C NO. 4 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE
- (△)** LIGHT POLE FOUNDATION
- (△)** LIGHT POLE FOUNDATION (SPECIAL)



L-21

FILE NAME = s:\project\0072.57-70.dgn\15 Trk\lpmk.stl.dgn	USER NAME = \$USER\$	DESIGNED - JWS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED LIGHTING, FAI ROUTE 57 NORTH TRI LEVEL			F.A.I. RTE. 57/70	SECTION (25-4)R	COUNTY EFFINGHAM	TOTAL SHEETS 1760	SHEET NO. 468
PLOT SCALE = \$SCALE\$		CHECKED - BRM	REVISED -		SCALE: 1"=50'	SHEET NO. 21 OF 35 SHEETS	STA. 5387+00.00 TO STA. 5400+40.00	CONTRACT NO. 74295				
PLOT DATE = \$DATE\$		DATE - 11-02-12	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							

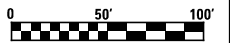


LEGEND

- EXISTING LIGHTING UNIT, TWIN
- PROPOSED LIGHTING UNIT, 45 FT ALUMINUM POLE, TWIN 8 FT DAVIT ARM, (2) 400W HPS LUMINAIRES, M-C-3
- PROPOSED LIGHTING UNIT, 50 FT ALUMINUM POLE, 15 FT DAVIT ARM, 400W HPS LUMINAIRE, M-C-3
- EXISTING LIGHTING CONTROLLER
- PROPOSED LIGHTING CONTROLLER
- SERVICE INSTALLATION
- COMBINATION LIGHTING UNIT, 45 FT MH, 15 FT MAST ARM, 400 HPS LUMINAIRE, PHOTO-CELL CONTROL, M-C-3
- PROPOSED LIGHTING UNIT, 50 FT ALUMINUM POLE, TWIN 15 FT DAVIT ARM, (2) 400W HPS LUMINAIRES, M-C-3
- JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE OR EMBEDDED IN STRUCTURE, SIZE AS NOTED
- PROPOSED UNIT DUCT, SIZE AS NOTED
- PROPOSED ELECTRIC CABLE IN CONDUIT, SIZE AS NOTED
- PROPOSED UNDERGROUND COILABLE NON-METALLIC CONDUIT, SIZE AS NOTED
- EXISTING UNIT DUCT OR CABLE IN CONDUIT

CABLE / CONDUIT SCHEDULE

- UNIT DUCT, 600V, 2-1C NO. 8, 1/C NO. 8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE
- UNIT DUCT, 600V, 2-1C NO. 6, 1/C NO. 8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE
- UNIT DUCT, 600V, 2-1C NO. 4, 1/C NO. 6 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE
- ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 8, 1/C NO. 8 GROUND IN 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE
- ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 6, 1/C NO. 8 GROUND IN 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE
- ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 4, 1/C NO. 6 GROUND IN 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE
- ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 6, 2-1/C NO. 4, 1/C NO. 6 GROUND IN 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE
- UNIT DUCT, 600V, 2-1C NO. 2, 1/C NO. 4 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE
- LIGHT POLE FOUNDATION
- LIGHT POLE FOUNDATION (SPECIAL)

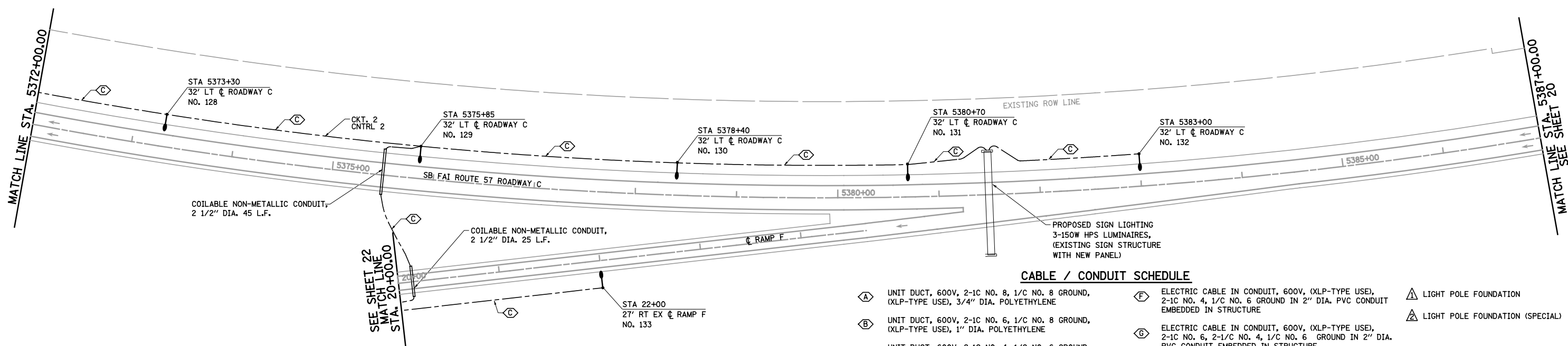
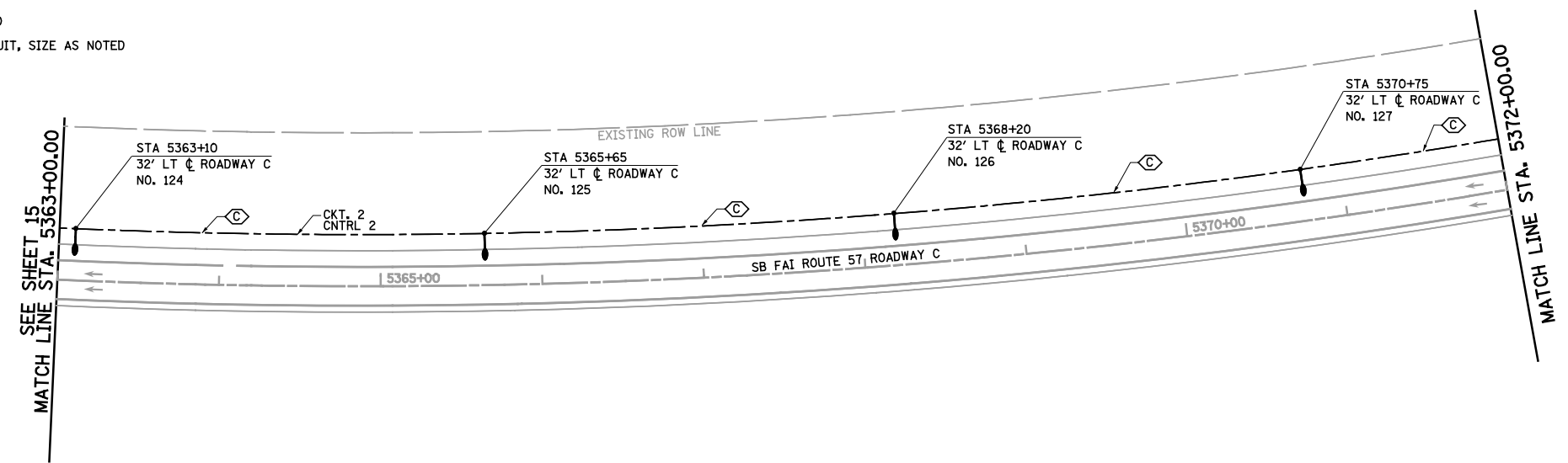


L-22

FILE NAME = s:\project\00072.57-70.dgn\15 Trk\lpmk.sld.dgn	USER NAME = #USER#	DESIGNED - JWS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED LIGHTING, RAMP F NORTH TRI LEVEL			F.A.I. RTE. 57/70	SECTION (25-4)R	COUNTY EFFINGHAM	TOTAL SHEETS 1760	SHEET NO. 469
PLOT SCALE = #SCALE#					CHECKED - BRM	SCALE: 1"=50'	SHEET NO. 22 OF 35 SHEETS	STA. 13+00.00	TO STA. 24+00.00	CONTRACT NO. 74295		
PLOT DATE = #DATE#					DATE - 11-02-12	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT						
					REVISED -							

LEGEND

- EXISTING LIGHTING UNIT, TWIN
- PROPOSED LIGHTING UNIT, 45 FT ALUMINUM POLE, TWIN 8 FT DAVIT ARM, (2) 400W HPS LUMINAIRES, M-C-3
- PROPOSED LIGHTING UNIT, 50 FT ALUMINUM POLE, 15 FT DAVIT ARM, 400W HPS LUMINAIRE, M-C-3
- EXISTING LIGHTING CONTROLLER
- PROPOSED LIGHTING CONTROLLER
- SERVICE INSTALLATION
- COMBINATION LIGHTING UNIT, 45 FT MH, 15 FT MAST ARM, 400 HPS LUMINAIRE, PHOTO-CELL CONTROL, M-C-3
- PROPOSED LIGHTING UNIT, 50 FT ALUMINUM POLE, TWIN 15 FT DAVIT ARM, (2) 400W HPS LUMINAIRES, M-C-3
- JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE OR EMBEDDED IN STRUCTURE, SIZE AS NOTED
- PROPOSED UNIT DUCT, SIZE AS NOTED
- PROPOSED ELECTRIC CABLE IN CONDUIT, SIZE AS NOTED
- PROPOSED UNDERGROUND COILABLE NON-METALLIC CONDUIT, SIZE AS NOTED
- EXISTING UNIT DUCT OR CABLE IN CONDUIT



COILABLE NON-METALLIC CONDUIT,
2 1/2" DIA. 45 L.F.

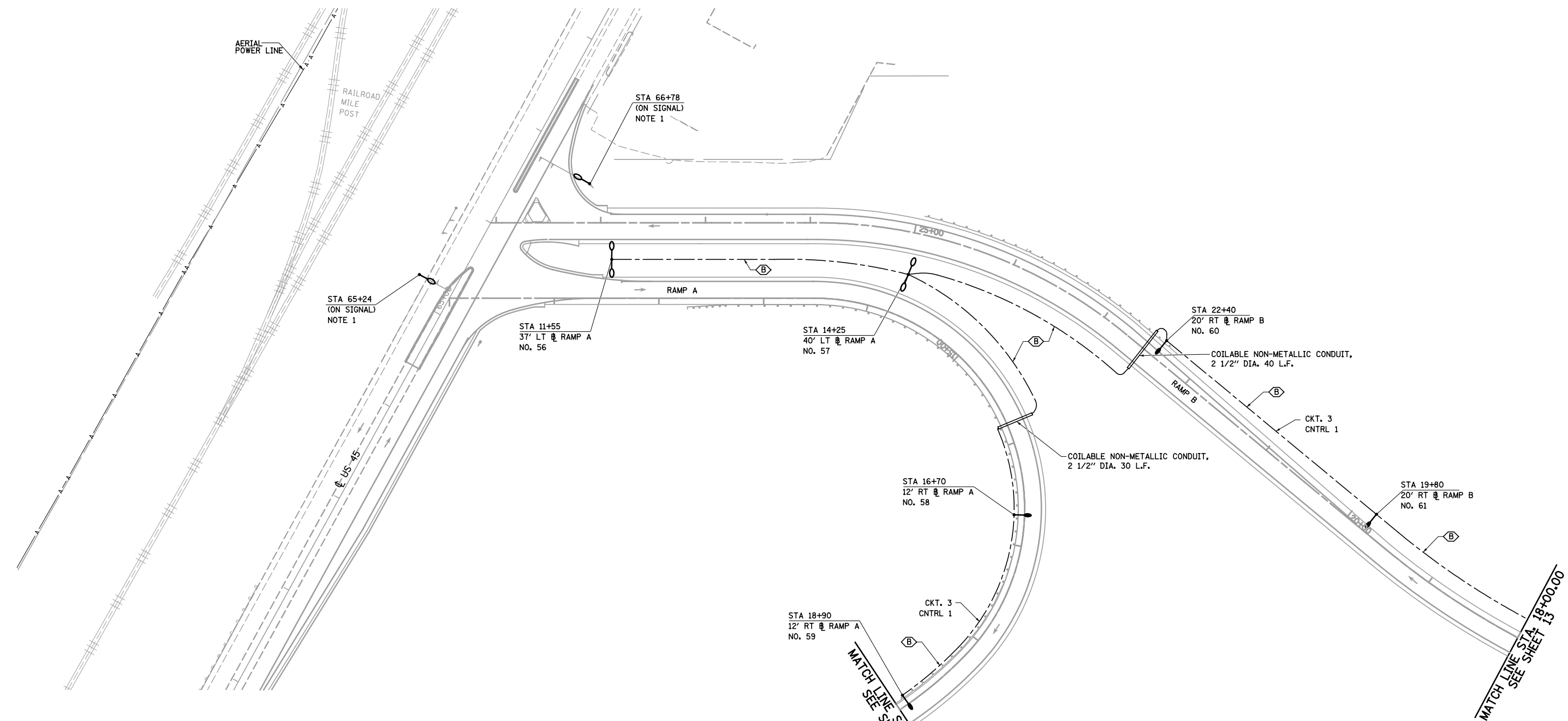
COILABLE NON-METALLIC CONDUIT,
2 1/2" DIA. 25 L.F.

PROPOSED SIGN LIGHTING
3-150W HPS LUMINAIRES,
(EXISTING SIGN STRUCTURE
WITH NEW PANEL)

CABLE / CONDUIT SCHEDULE

- (A) UNIT DUCT, 600V, 2-1C NO. 8, 1/C NO. 8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE
- (B) UNIT DUCT, 600V, 2-1C NO. 6, 1/C NO. 8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE
- (C) UNIT DUCT, 600V, 2-1C NO. 4, 1/C NO. 6 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE
- (D) ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 8, 1/C NO. 8 GROUND IN 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE
- (E) ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 6, 1/C NO. 8 GROUND IN 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE
- (F) ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 4, 1/C NO. 6 GROUND IN 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE
- (G) ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 6, 2-1/C NO. 4, 1/C NO. 6 GROUND IN 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE
- (H) UNIT DUCT, 600V, 2-1C NO. 2, 1/C NO. 4 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE
- (I) LIGHT POLE FOUNDATION
- (J) LIGHT POLE FOUNDATION (SPECIAL)

FILE NAME = s:\project\0072.57-70.dgn\15 TriLvl.pnk.sld.dgn	USER NAME = *USER*	DESIGNED - JWS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED LIGHTING, ROADWAY C NORTH TRI LEVEL			F.A.I RTE. 57/70	SECTION (25-4R)	COUNTY EFFINGHAM	TOTAL SHEETS 1760	SHEET NO. 470
PLOT SCALE = *SCALE*		CHECKED - BRM	REVISED -		SCALE: 1"=50'	SHEET NO. 23 OF 35 SHEETS	STA. 5363+00.00 TO STA. 5387+00.00	CONTRACT NO. 74295				
PLOT DATE = *DATE*		DATE - 11-02-12	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							
L-23												



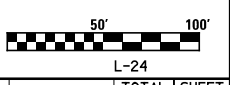
NOTES:
 1 COMBINATION LIGHTING UNITS ARE FED FROM TRAFFIC SIGNAL CONTROLLER (NOT SHOWN)

LEGEND

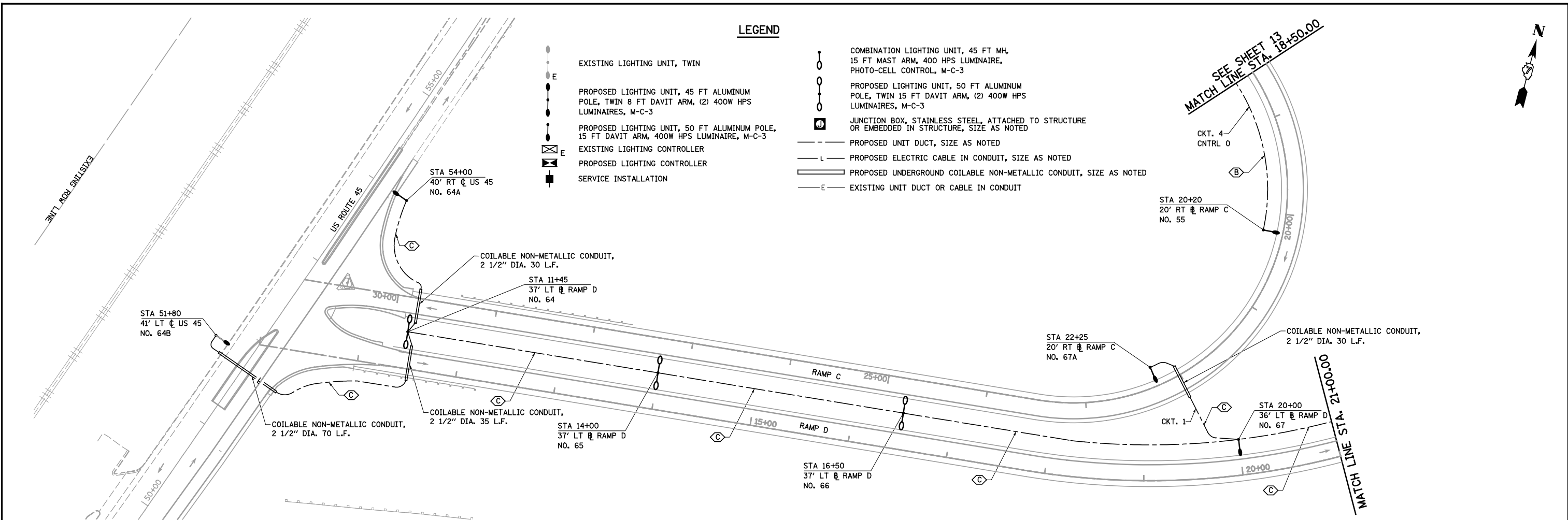
- EXISTING LIGHTING UNIT, TWIN
- PROPOSED LIGHTING UNIT, 45 FT ALUMINUM POLE, TWIN 8 FT DAVIT ARM, (2) 400W HPS LUMINAIRES, M-C-3
- PROPOSED LIGHTING UNIT, 50 FT ALUMINUM POLE, 15 FT DAVIT ARM, 400W HPS LUMINAIRE, M-C-3
- EXISTING LIGHTING CONTROLLER
- PROPOSED LIGHTING CONTROLLER
- SERVICE INSTALLATION
- COMBINATION LIGHTING UNIT, 45 FT MH, 15 FT MAST ARM, 400 HPS LUMINAIRE, PHOTO-CELL CONTROL, M-C-3
- PROPOSED LIGHTING UNIT, 50 FT ALUMINUM POLE, TWIN 15 FT DAVIT ARM, (2) 400W HPS LUMINAIRES, M-C-3
- JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE OR EMBEDDED IN STRUCTURE, SIZE AS NOTED
- PROPOSED UNIT DUCT, SIZE AS NOTED
- PROPOSED ELECTRIC CABLE IN CONDUIT, SIZE AS NOTED
- PROPOSED UNDERGROUND COILABLE NON-METALLIC CONDUIT, SIZE AS NOTED
- EXISTING UNIT DUCT OR CABLE IN CONDUIT

CABLE / CONDUIT SCHEDULE

- UNIT DUCT, 600V, 2-1C NO. 8, 1/C NO. 8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE
- UNIT DUCT, 600V, 2-1C NO. 6, 1/C NO. 8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE
- UNIT DUCT, 600V, 2-1C NO. 4, 1/C NO. 6 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE
- ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 8, 1/C NO. 8 GROUND IN 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE
- ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 6, 1/C NO. 8 GROUND IN 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE
- ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 4, 1/C NO. 6 GROUND IN 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE
- ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 6, 2-1/C NO. 4, 1/C NO. 6 GROUND IN 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE
- UNIT DUCT, 600V, 2-1C NO. 2, 1/C NO. 4 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE
- LIGHT POLE FOUNDATION
- LIGHT POLE FOUNDATION (SPECIAL)

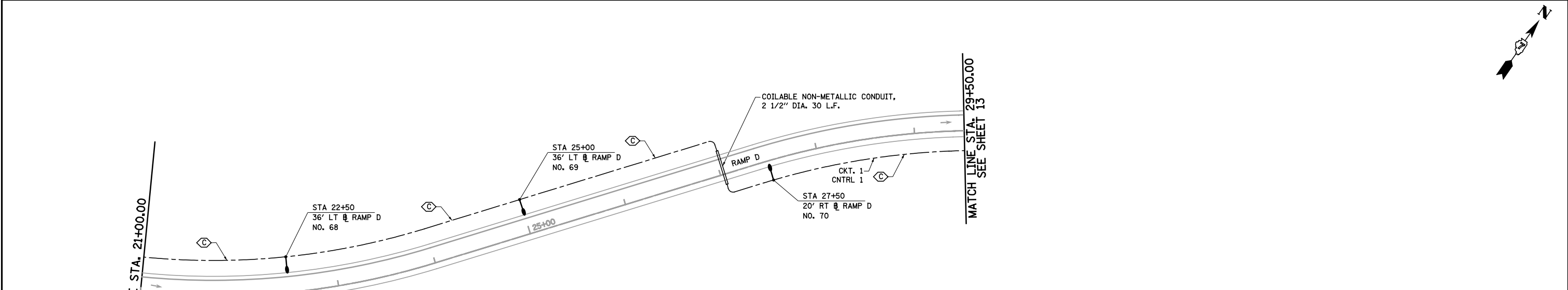


FILE NAME s:\project\00072.57-70.dgn\US Trk\lump.sld.dgn	USER NAME = \$USER*	DESIGNED - JWS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED LIGHTING, US ROUTE 45 RAMP A			F.A.I. RTE. 57/70	SECTION (25-4)R	COUNTY EFFINGHAM	TOTAL SHEETS 1760	SHEET NO. 471
	PLOT SCALE = \$SCALE*	CHECKED - BRM	REVISED -		SCALE: 1"=50'	SHEET NO. 24 OF 35 SHEETS	STA.	TO STA.	CONTRACT NO. 74295			
	PLOT DATE = \$DATE*	DATE - 11-02-12	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							
L-24												



LEGEND

- EXISTING LIGHTING UNIT, TWIN
- PROPOSED LIGHTING UNIT, 45 FT ALUMINUM POLE, TWIN 8 FT DAVIT ARM, (2) 400W HPS LUMINAIRES, M-C-3
- PROPOSED LIGHTING UNIT, 50 FT ALUMINUM POLE, TWIN 15 FT DAVIT ARM, 400W HPS LUMINAIRE, M-C-3
- EXISTING LIGHTING CONTROLLER
- PROPOSED LIGHTING CONTROLLER
- SERVICE INSTALLATION
- COMBINATION LIGHTING UNIT, 45 FT MH, 15 FT MAST ARM, 400 HPS LUMINAIRE, PHOTO-CELL CONTROL, M-C-3
- PROPOSED LIGHTING UNIT, 50 FT ALUMINUM POLE, TWIN 15 FT DAVIT ARM, (2) 400W HPS LUMINAIRES, M-C-3
- JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE OR EMBEDDED IN STRUCTURE, SIZE AS NOTED
- PROPOSED UNIT DUCT, SIZE AS NOTED
- PROPOSED ELECTRIC CABLE IN CONDUIT, SIZE AS NOTED
- PROPOSED UNDERGROUND COILABLE NON-METALLIC CONDUIT, SIZE AS NOTED
- EXISTING UNIT DUCT OR CABLE IN CONDUIT



CABLE / CONDUIT SCHEDULE

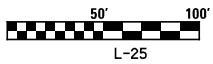
- A** UNIT DUCT, 600V, 2-1C NO. 8, 1/C NO. 8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE
- B** UNIT DUCT, 600V, 2-1C NO. 6, 1/C NO. 8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE
- C** UNIT DUCT, 600V, 2-1C NO. 4, 1/C NO. 6 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE
- D** ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 8, 1/C NO. 8 GROUND IN 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE
- E** ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 6, 1/C NO. 8 GROUND IN 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE
- F** ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 4, 1/C NO. 6 GROUND IN 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE
- G** ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 6, 2-1/C NO. 4, 1/C NO. 6 GROUND IN 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE
- L** UNIT DUCT, 600V, 2-1C NO. 2, 1/C NO. 4 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE
- △** LIGHT POLE FOUNDATION
- △** LIGHT POLE FOUNDATION (SPECIAL)

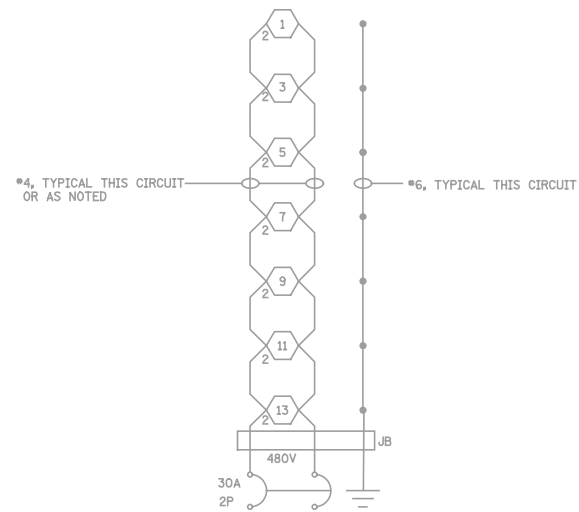
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		DATE - 11-02-12	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

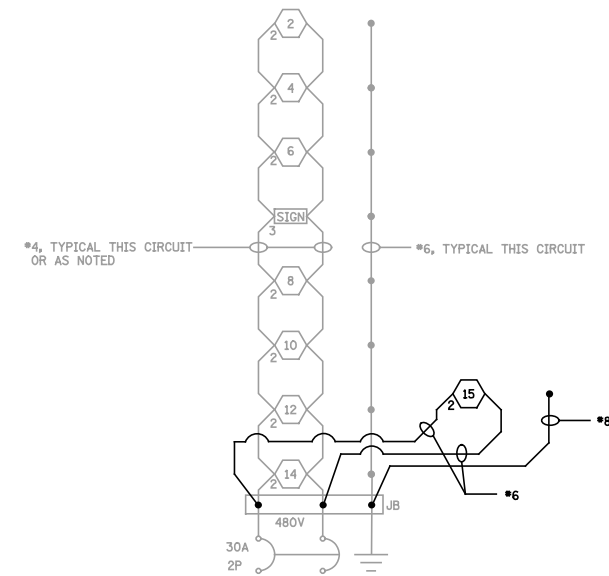
PROPOSED LIGHTING, US ROUTE 45 RAMP C
SCALE: 1"=50' SHEET NO. 25 OF 35 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-4)R	EFFINGHAM	1760	472
CONTRACT NO. 74295				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

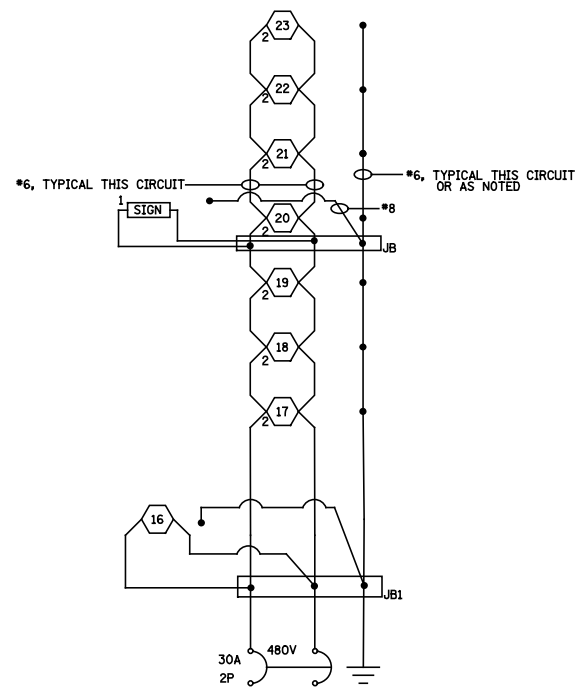




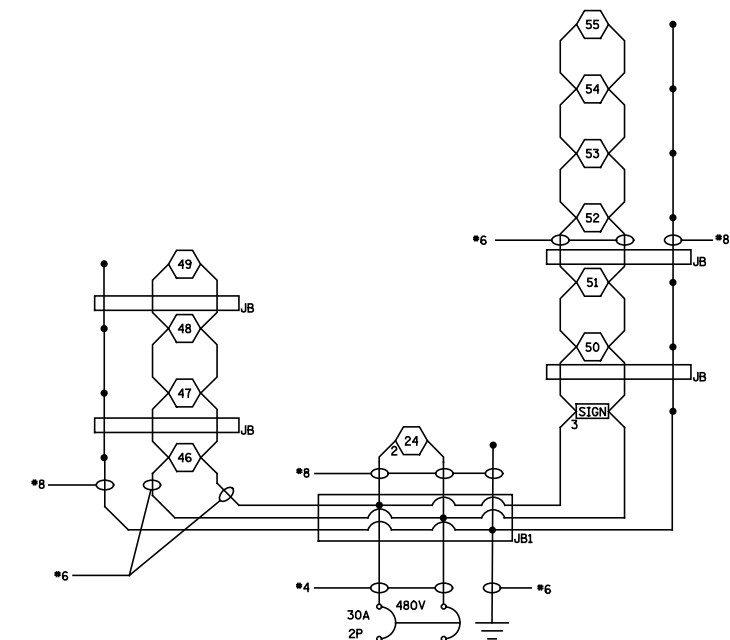
LIGHTING CKT 1 (EXISTING)
EXISTING LIGHTING CONTROLLER BASE MOUNTED



LIGHTING CKT 2 (EXISTING)
EXISTING LIGHTING CONTROLLER BASE MOUNTED



LIGHTING CKT 3 (PROPOSED)
EXISTING LIGHTING CONTROLLER BASE MOUNTED



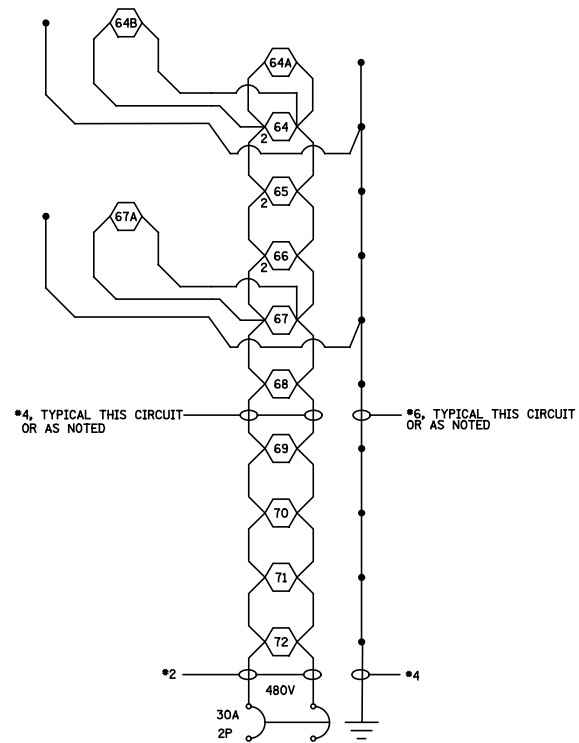
LIGHTING CKT 4 (PROPOSED)
EXISTING LIGHTING CONTROLLER BASE MOUNTED

NOTES:

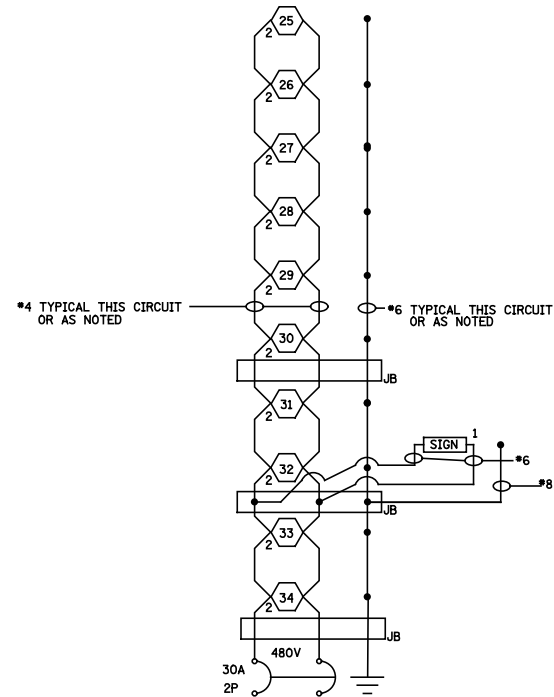
1. ALL NECESSARY REVISIONS TO THE WIRING SHOWN ON THIS SHEET SHALL BE MADE AT NO ADDITIONAL COST TO THE DEPARTMENT AND TO THE SATISFACTION OF THE ENGINEER.

- 400W PROPOSED LUMINAIRE
- (2) 400W PROPOSED LUMINAIRES ON TWIN ARMS
- SIGN LIGHTING, NUMBER OF 150W LUMINAIRES AS INDICATED
- JUNCTION BOX

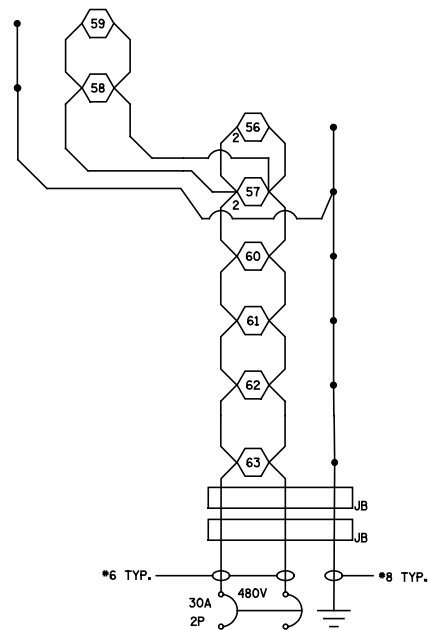
FILE NAME =	USER NAME = \$USER*	DESIGNED - VG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WIRING DIAGRAM (EXISTING 4TH STREET CONTROLLER) NO. 0	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
S:\Projects\403-00072.57-70\dgn\W Trl\lv\lighting_detail.dgn		DRAWN - PDB	REVISED -			57/70	(25-4)R	EFFINGHAM	1760	473	
PLOT SCALE = \$SCALE*		CHECKED - BRM	REVISED -			SCALE:		SHEET NO. 26 OF 35 SHEETS		STA. TO STA.	
PLOT DATE = \$DATE*		DATE - 10-30-12	REVISED -			FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		CONTRACT NO. 74295	



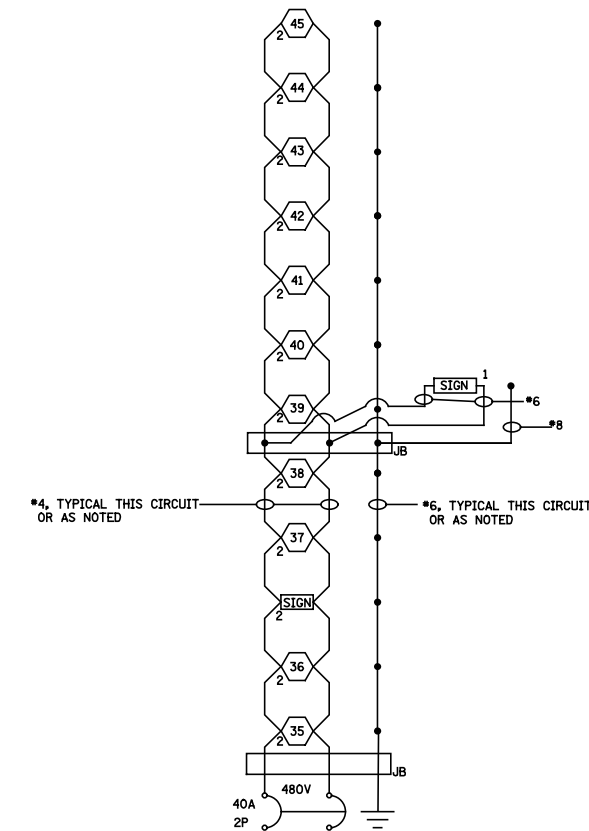
LIGHTING CKT 1 (PROPOSED)
PROPOSED LIGHTING CONTROLLER BASE MOUNTED



LIGHTING CKT 2 (PROPOSED)
PROPOSED LIGHTING CONTROLLER BASE MOUNTED



LIGHTING CKT 3 (PROPOSED)
PROPOSED LIGHTING CONTROLLER BASE MOUNTED



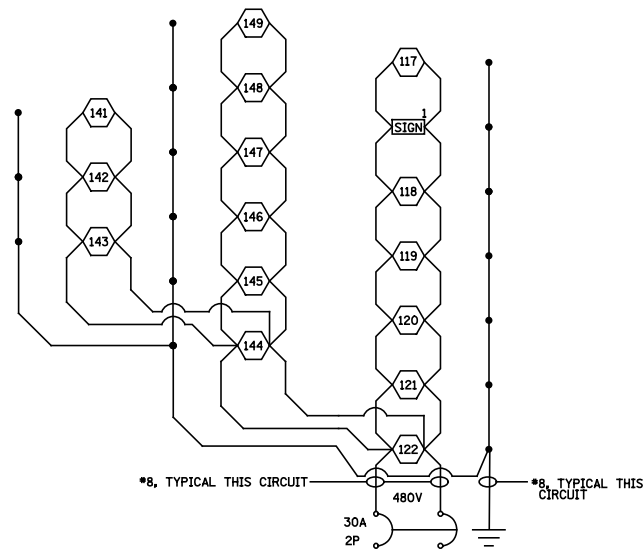
LIGHTING CKT 4 (PROPOSED)
PROPOSED LIGHTING CONTROLLER BASE MOUNTED

NOTES:

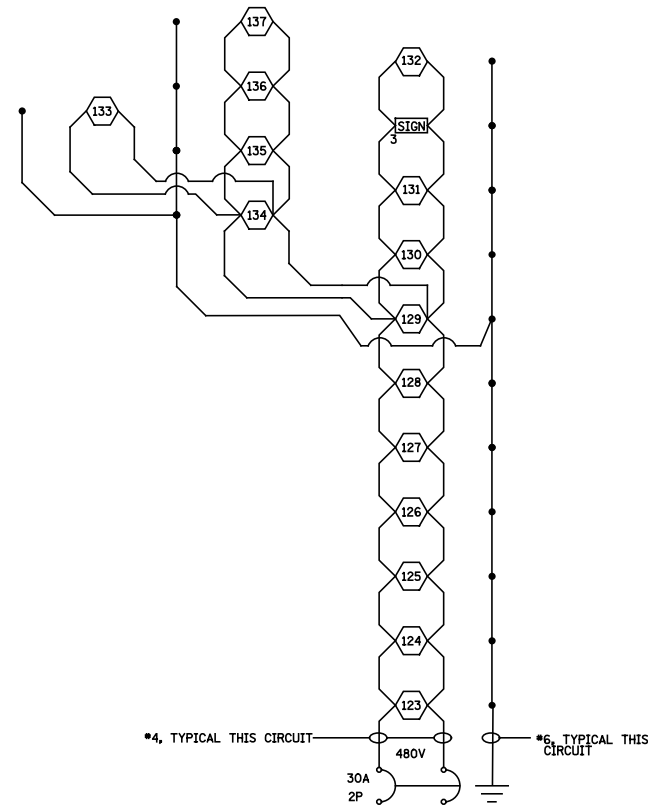
- ALL NECESSARY REVISIONS TO THE WIRING SHOWN ON THIS SHEET SHALL BE MADE AT NO ADDITIONAL COST TO THE DEPARTMENT AND TO THE SATISFACTION OF THE ENGINEER.

- 400W PROPOSED LUMINAIRE
- (2) 400W PROPOSED LUMINAIRES ON TWIN ARMS
- SIGN LIGHTING, NUMBER OF 150W LUMINAIRES AS INDICATED
- JUNCTION BOX

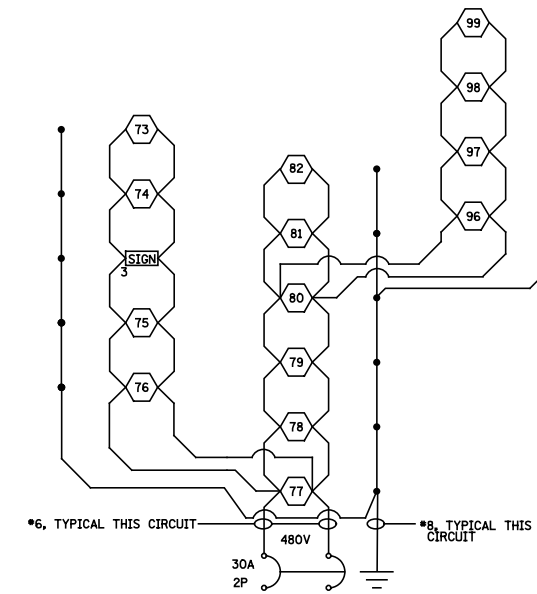
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S:\Projects\403-00072-57-70\dgn\W Trl\l\lighting_detail.dgn	DRAWN - PDB	REVISIONS -	REVISIONS -					57/70	(25-4)R	EFFINGHAM	1760	474
PLOT SCALE = \$SCALE\$	CHECKED - BRM	REVISIONS -	REVISIONS -		CONTRACT NO. 74295			FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
PLOT DATE = \$DATE\$	DATE - 10-30-12	REVISIONS -	REVISIONS -		SCALE:	SHEET NO. 27 OF 35 SHEETS	STA.	TO STA.	L-27			



LIGHTING CKT 1 (PROPOSED)
PROPOSED LIGHTING CONTROLLER BASE MOUNTED







LIGHTING CKT 2 (PROPOSED)
PROPOSED LIGHTING CONTROLLER BASE MOUNTED



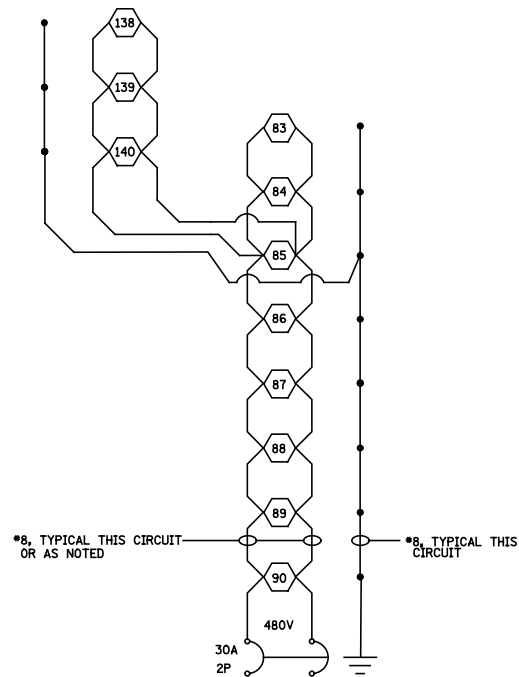
LIGHTING CKT 3 (PROPOSED)
PROPOSED LIGHTING CONTROLLER BASE MOUNTED

NOTES:

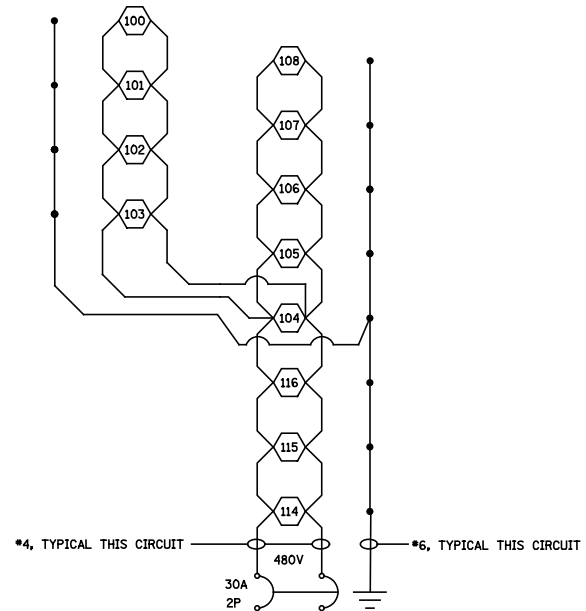
- ALL NECESSARY REVISIONS TO THE WIRING SHOWN ON THIS SHEET SHALL BE MADE AT NO ADDITIONAL COST TO THE DEPARTMENT AND TO THE SATISFACTION OF THE ENGINEER.

-  400W PROPOSED LUMINAIRE
-  (2) 400W PROPOSED LUMINAIRES ON TWIN ARMS
-  SIGN LIGHTING, NUMBER OF 150W LUMINAIRES AS INDICATED
-  JUNCTION BOX

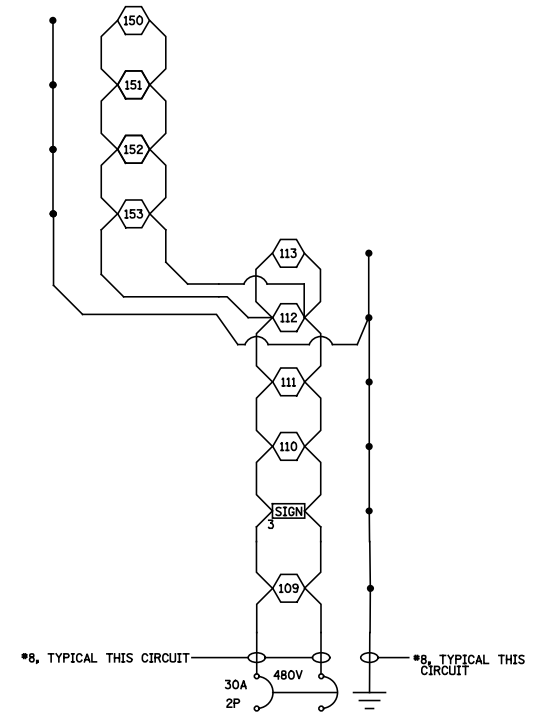
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S:\Projects\403-00072.57-70\dgn\W Trl\LV\lighting det01.dgn		DRAWN - PDB	REVISED -					57/70	(25-4)R	EFFINGHAM	1760	475
	PLOT SCALE = \$SCALE\$	CHECKED - BRM	REVISED -		SCALE:			SHEET NO. 28 OF 35 SHEETS	STA.	TO STA.	CONTRACT NO. 74295	
	PLOT DATE = \$DATE\$	DATE - 10-30-12	REVISED -					FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



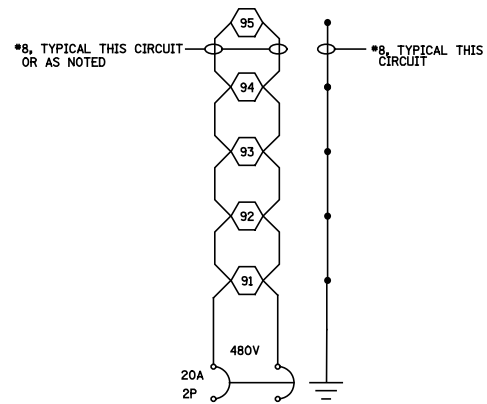
LIGHTING CKT 1 (PROPOSED)
PROPOSED LIGHTING CONTROLLER BASE MOUNTED



LIGHTING CKT 2 (PROPOSED)
PROPOSED LIGHTING CONTROLLER BASE MOUNTED



LIGHTING CKT 3 (PROPOSED)
PROPOSED LIGHTING CONTROLLER BASE MOUNTED



LIGHTING CKT 4 (PROPOSED)
PROPOSED LIGHTING CONTROLLER BASE MOUNTED

NOTES:

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

⬡ 400W PROPOSED LUMINAIRE

2 ⬡ (2) 400W PROPOSED LUMINAIRES ON TWIN ARMS

⬢ SIGN LIGHTING, NUMBER OF 150W LUMINAIRES AS INDICATED

□ JUNCTION BOX

FILE NAME =	USER NAME = \$USER\$	DESIGNED - VG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WIRING DIAGRAM (PROPOSED CONTROLLER) NO. 3			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S:\Projects\403-00072-57-70\dgn\W Trl\Lighting deto\dgn		DRAWN - PDB	REVISED -					57/70	(25-4)R	EFFINGHAM	1760	476
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PLOT DATE = \$DATE\$		DATE - 10-30-12	REVISED -		FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT					

ILLINOIS DEPARTMENT OF TRANSPORTATION
LUMINAIRE PERFORMANCE TABLE - PROPOSED LIGHTING

10/16/12

GIVEN CONDITIONS

ROADWAY DATA:	Pavement Width	48 FT
	Number Of Lanes (In Direction of Travel)	4
	Median Width	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	20 FT
LUMINAIRE DATA:	Lamp Type	HPS
	Lamp Lumens	50000
	IES Vertical Distribution	M
	IES Control Of Distribution	FC
	IES Lateral Distribution	3
	Total Light Loss Factor	0.684
LAYOUT DATA:	Spacing	195 FT
	Configuration	One Side
	Luminaire Overhang Over Edge Of Pavement Lane	-5 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 _{Ave})	0.90 fc
	Uniformity Ratio, (E _{Ave} /E _{Min})	3.0
LUMINANCE:	Average Luminance: (L _{Ave})	0.60 Cd/m ²
	Uniformity Ratios: (L _{Ave} /L _{Min})	3.5
	(L _{Max} /L _{Min})	6.0
	Maximum Veiling Luminance Ratio: (L _v /L _{Ave})	0.3

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ILLINOIS DEPARTMENT OF TRANSPORTATION
LUMINAIRE PERFORMANCE TABLE - TEMPORARY LIGHTING

10/16/12

GIVEN CONDITIONS

ROADWAY DATA:	Pavement Width	24 FT
	Number Of Lanes (In Direction of Travel)	2
	Median Width	FT
	IES Surface Classification	R3
	Q-Zero Value	.07
LIGHT POLE DATA:	Mounting Height	45 FT
	Mast Arm Length	FT
	Pole Set-Back From Edge Of Pavement	30 FT
LUMINAIRE DATA:	Lamp Type	HPS
	Lamp Lumens	28000
	IES Vertical Distribution	L
	IES Control Of Distribution	NC
	IES Lateral Distribution	4
	Total Light Loss Factor	0.684
LAYOUT DATA:	Spacing	230 FT
	Configuration	One Side
	Luminaire Overhang Over Edge Of Pavement Lane	-30 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 _{Ave})	0.60 fc
	Uniformity Ratio, (E _{Ave} /E _{Min})	3.0
LUMINANCE:	Average Luminance: (L _{Ave})	0.40 Cd/m ²
	Uniformity Ratios: (L _{Ave} /L _{Min})	3.5
	(L _{Max} /L _{Min})	6.0
	Maximum Veiling Luminance Ratio: (L _v /L _{Ave})	

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ILLINOIS DEPARTMENT OF TRANSPORTATION
SIGN LUMINAIRE PERFORMANCE TABLE

10/25/12

GIVEN CONDITIONS

SIGN PANEL DATA:	Type (T=Truss C=Cantilever)	T
	Height	12 FT
	Width	36 FT
	Maintained Reflectance Contrast	
MOUNTING DATA:	Number of luminaires Per Sign	3
	Mounting Height (- below, + above)	
	Bottom Edge of Sign Panel	0 FT
	Distance to Edge of Sign Panel	6 FT
	Fixture Spacing (If More Than 1)	12 FT
	Luminaire Setback From Sign Face	4.25 FT
LUMINAIRE DATA:	Lamp Type (HPS - Typical)	HPS
	Lamp Lumens	16000
	IES Vertical Distribution	S
	IES Control Of Distribution	NC
	IES Lateral Distribution	4
	Total Light Loss Factor	0.7
LAYOUT DATA:	Ambient Light Level	Medium

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.

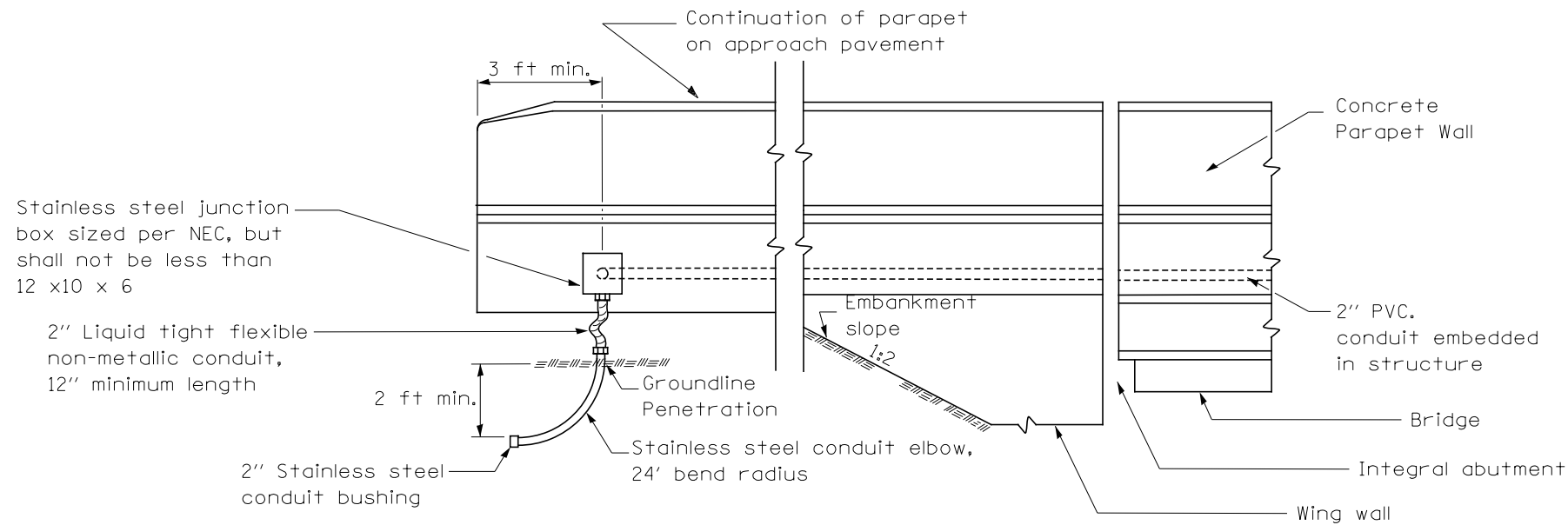
PERFORMANCE REQUIREMENTS

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

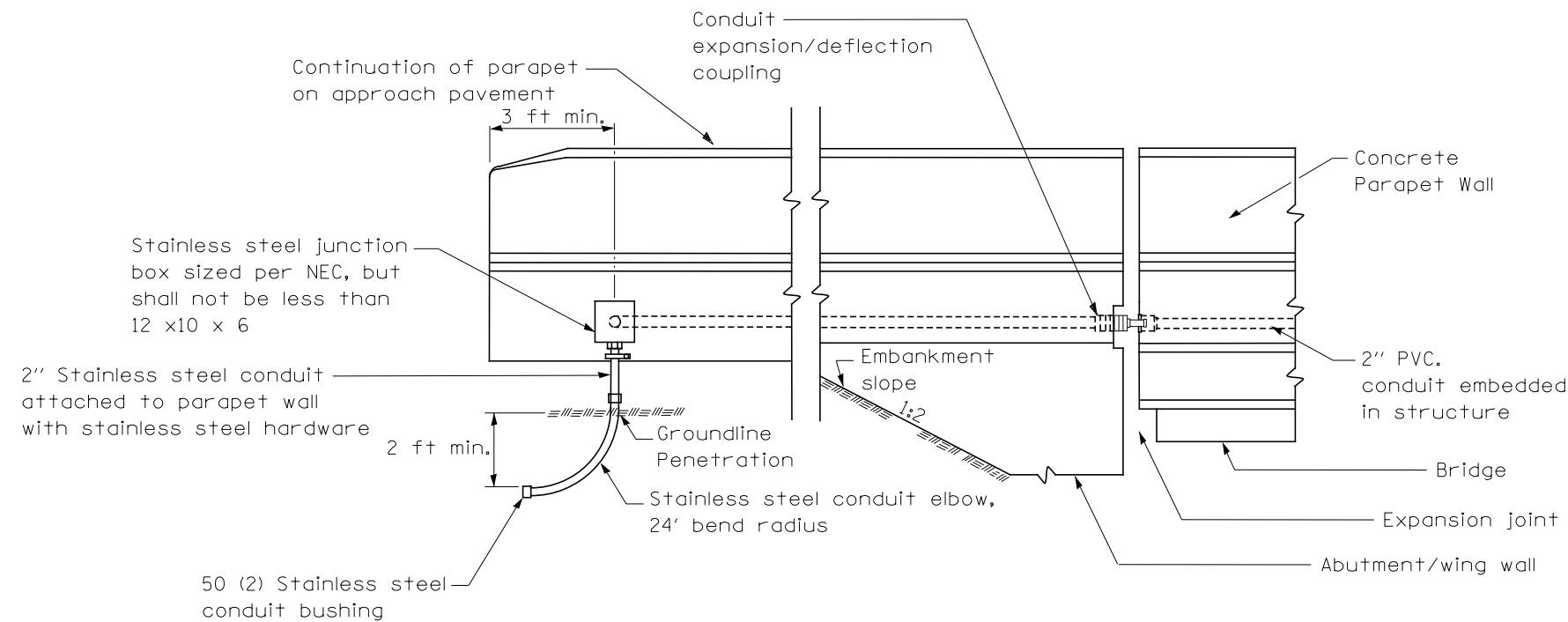
ILLUMINATION:	Maintained Average Sign Illumination	26 fc
	Uniformity Ratio, (Max / Min)	6.0
LUMINANCE:	Maintained Average Sign Luminance	40 Cd/m ²
	Uniformity Ratio, (L _{Max} /L _{Min})	6.0
	Sign Gradient Luminance Difference Ratio, (Max)	2.0

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L-30



CONDUIT DETAIL
(Integral Abutment)



CONDUIT DETAIL
(Open Abutment)

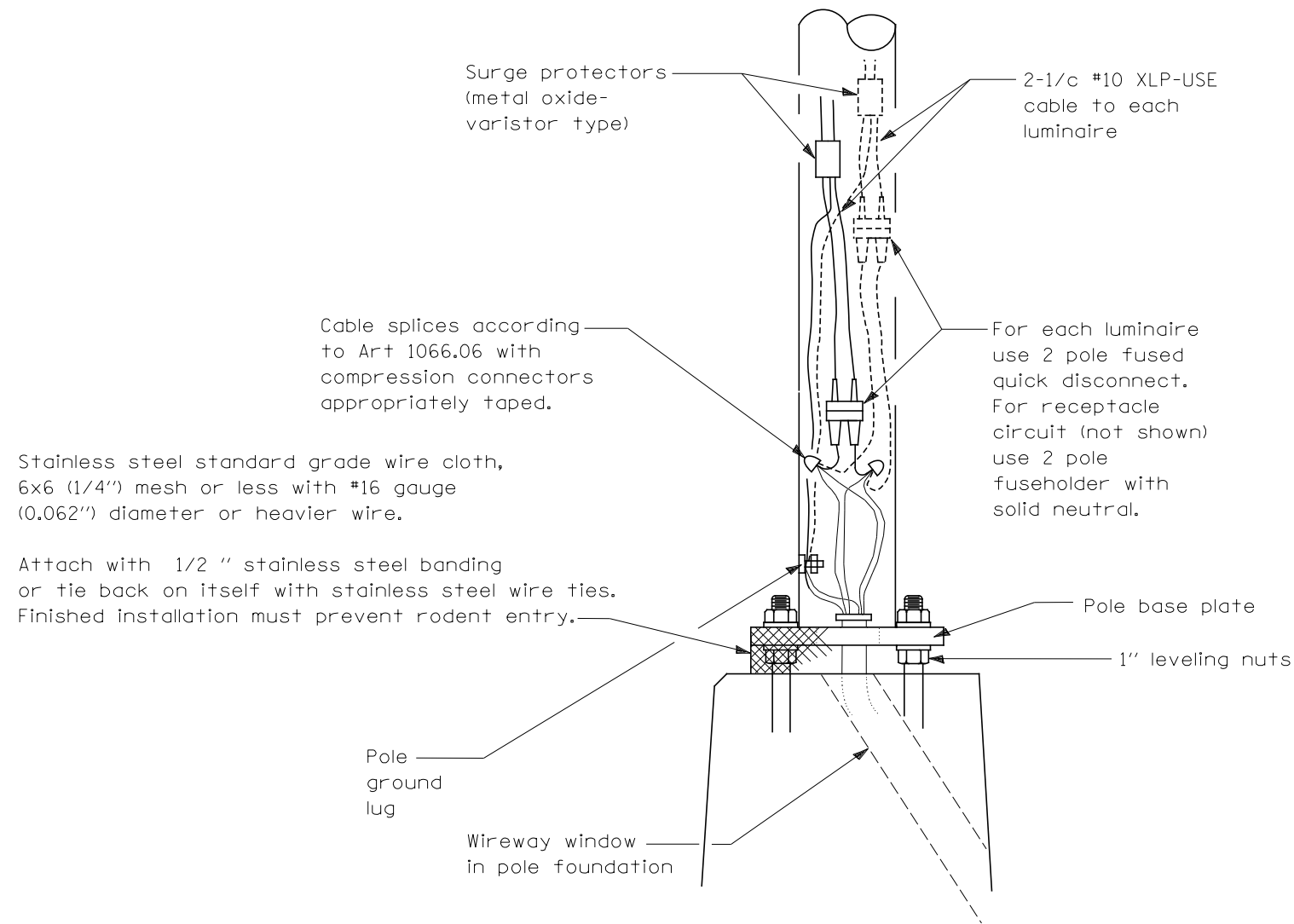
GENERAL NOTES

Stainless steel conduit, couplings, and elbows shall be according to Section 810 of the Standard Specifications, as applicable, shall be Type 304 or Type 316, and shall be manufactured according to UL Standard 6A and ANSI Standard C 80.1.

Conduit fittings shall be the threaded type, shall be Type 304 or Type 316 stainless steel, and shall be manufactured according to UL Standard 514B.

All stainless steel and liquid tight flexible non-metallic conduit, including all fittings, bushings, couplings, and elbows shall be included in the cost of the "Junction Box, Stainless Steel, Attached to Structure, 12" X 10" X 6" " pay item.

FILE NAME =	USER NAME = \$USER\$	DESIGNED - VG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CONDUIT EXITING PARAPET ON APPROACH PAVEMENT			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S:\Projects\403-00072.57-70\dgn\W Tr\Lighting detail.dgn	DRAWN - PDB	CHECKED - BRM	REVISED -					57/70	(25-4)R	EFFINGHAM	1760	478
PLOT SCALE = \$SCALE\$	DATE - 10-30-12	REVISI	REVISI		SCALE: SHEET NO. 31 OF 35 SHEETS STA. TO STA.			CONTRACT NO. 74295				
PLOT DATE = \$DATE\$	REVISI	REVISI	REVISI		FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT					



WIRING DETAIL
NO SCALE

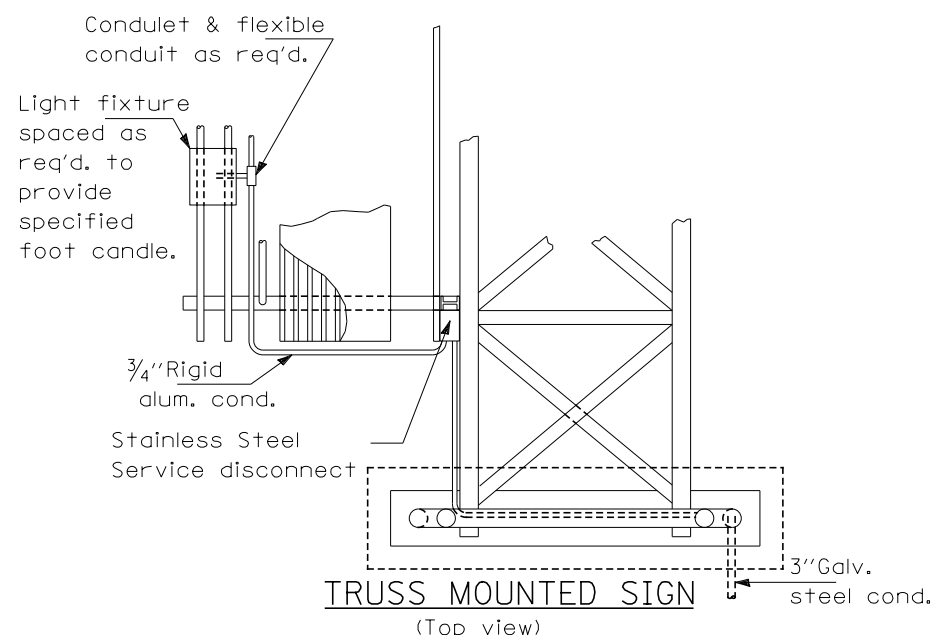
GENERAL NOTES

All taped splices shall use 2 layers of electrical tape over 3 layers of rubber tape as required by the Standard Specifications. Coat the finished taped splice with bonding compound.

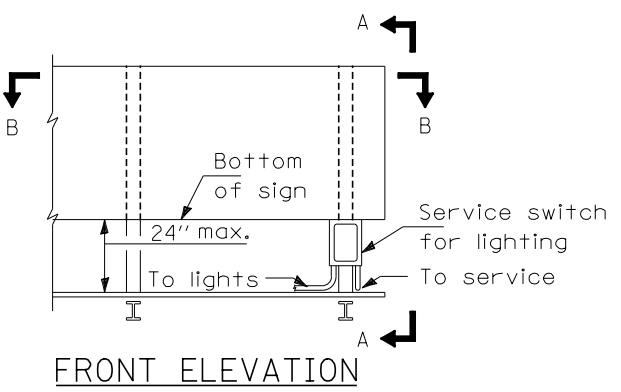
All cable splices shall be taped unless another method has been specifically approved by the Engineer.

For example purposes the pole is shown on an anchor base. If the pole is required to be set on a breakaway base, consult the Standard Specifications.

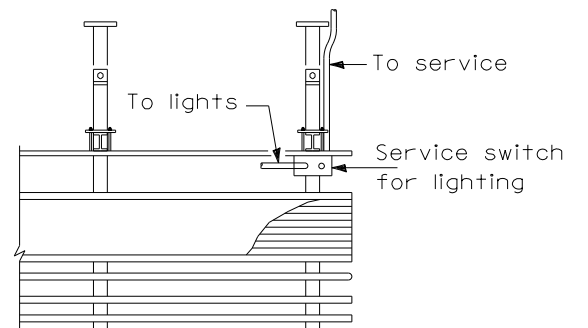
FILE NAME =	USER NAME = \$USER\$	DESIGNED - VG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	POLE HANDHOLE WIRING, FAI ROUTE 57/70			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S:\Projects\403-00072-57-70\dgn\W Tr\LV\lighting_detail.dgn	DRAWN - PDB	REVISED -	57/70					(25-4R)	EFFINGHAM	1760	479	
PLOT SCALE = \$SCALE\$	CHECKED - BRM	REVISED -	CONTRACT NO. 74295									
PLOT DATE = \$DATE\$	DATE - 10-30-12	REVISED -	SCALE:		SHEET NO. 32 OF 35 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



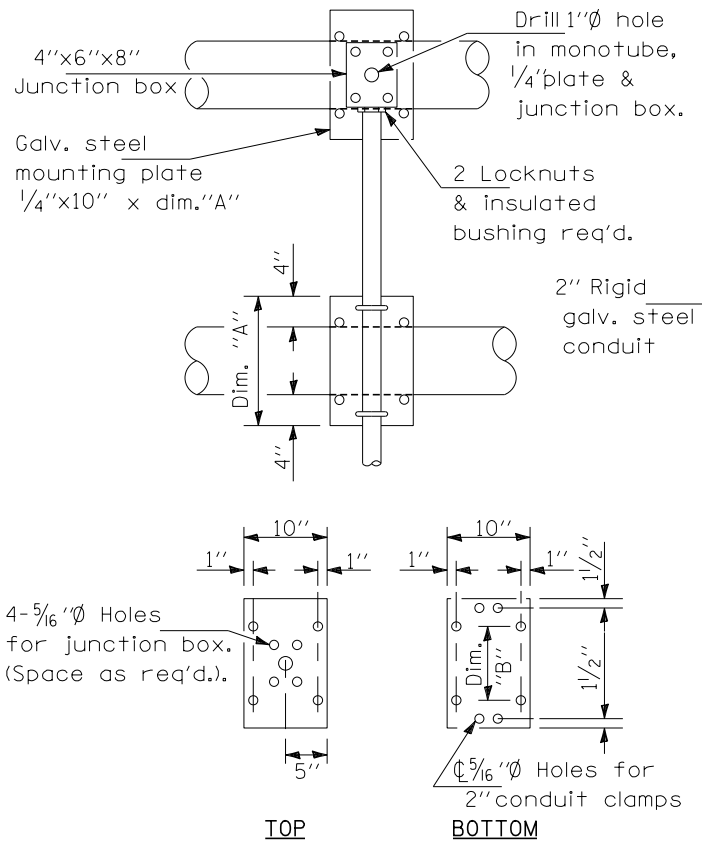
TRUSS MOUNTED SIGN
(Top view)



FRONT ELEVATION



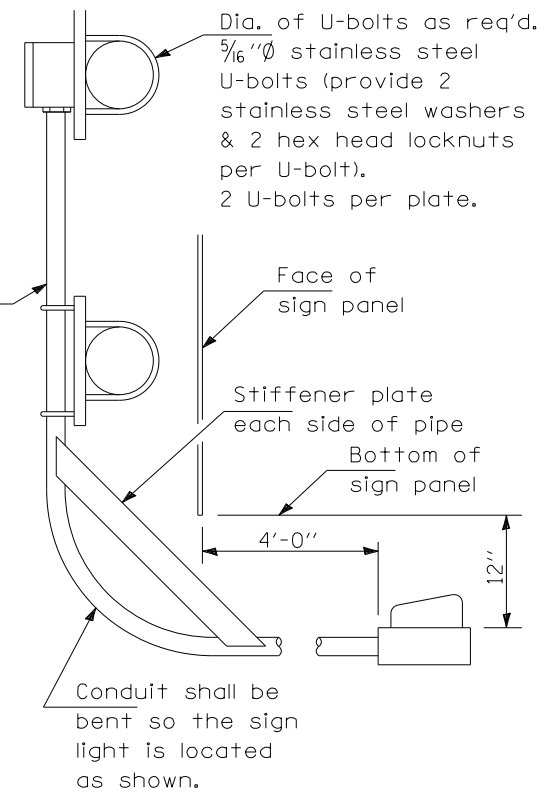
SECTION B-B



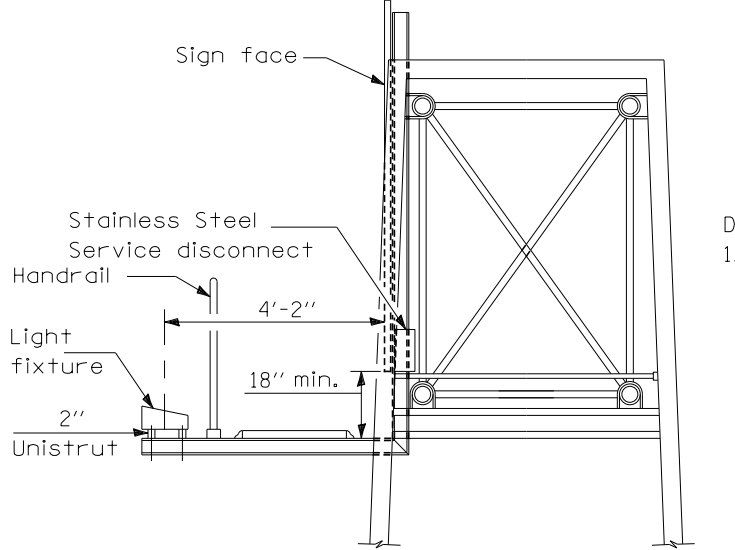
TOP BOTTOM

Dimension "A" = monotube dia. + 8"
Dimension "B" = monotube dia. + 3/8"

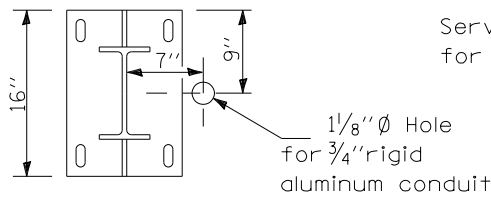
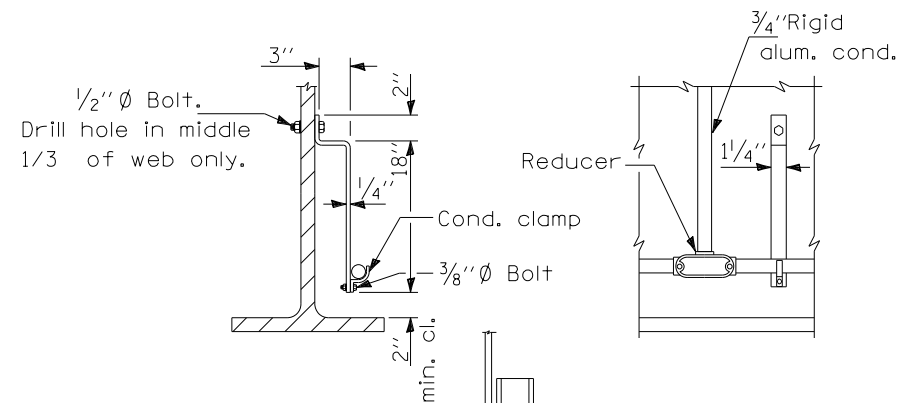
MOUNTING PLATES



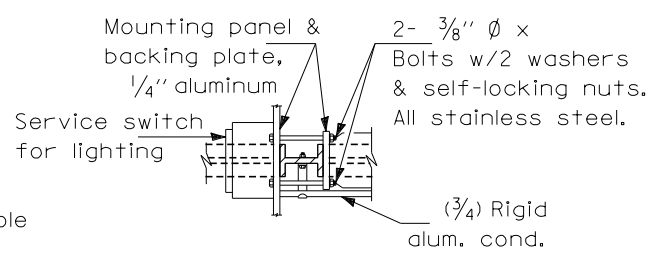
TWIN MONOTUBE



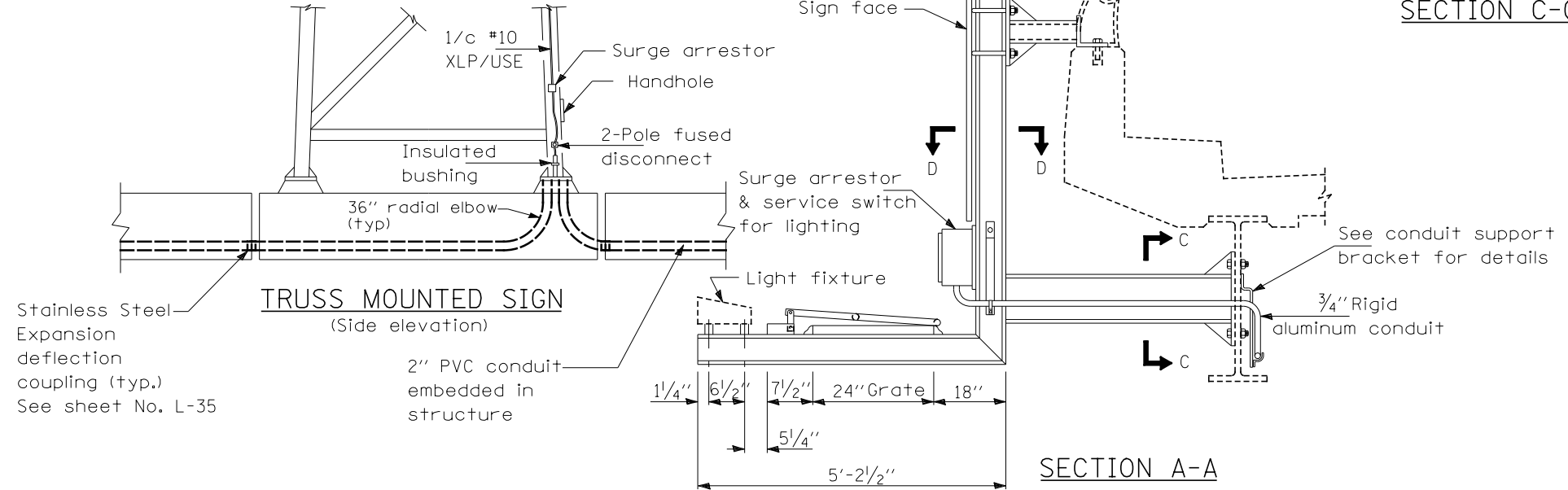
TRUSS MOUNTED SIGN
(Side elevation)



SECTION C-C



SECTION D-D

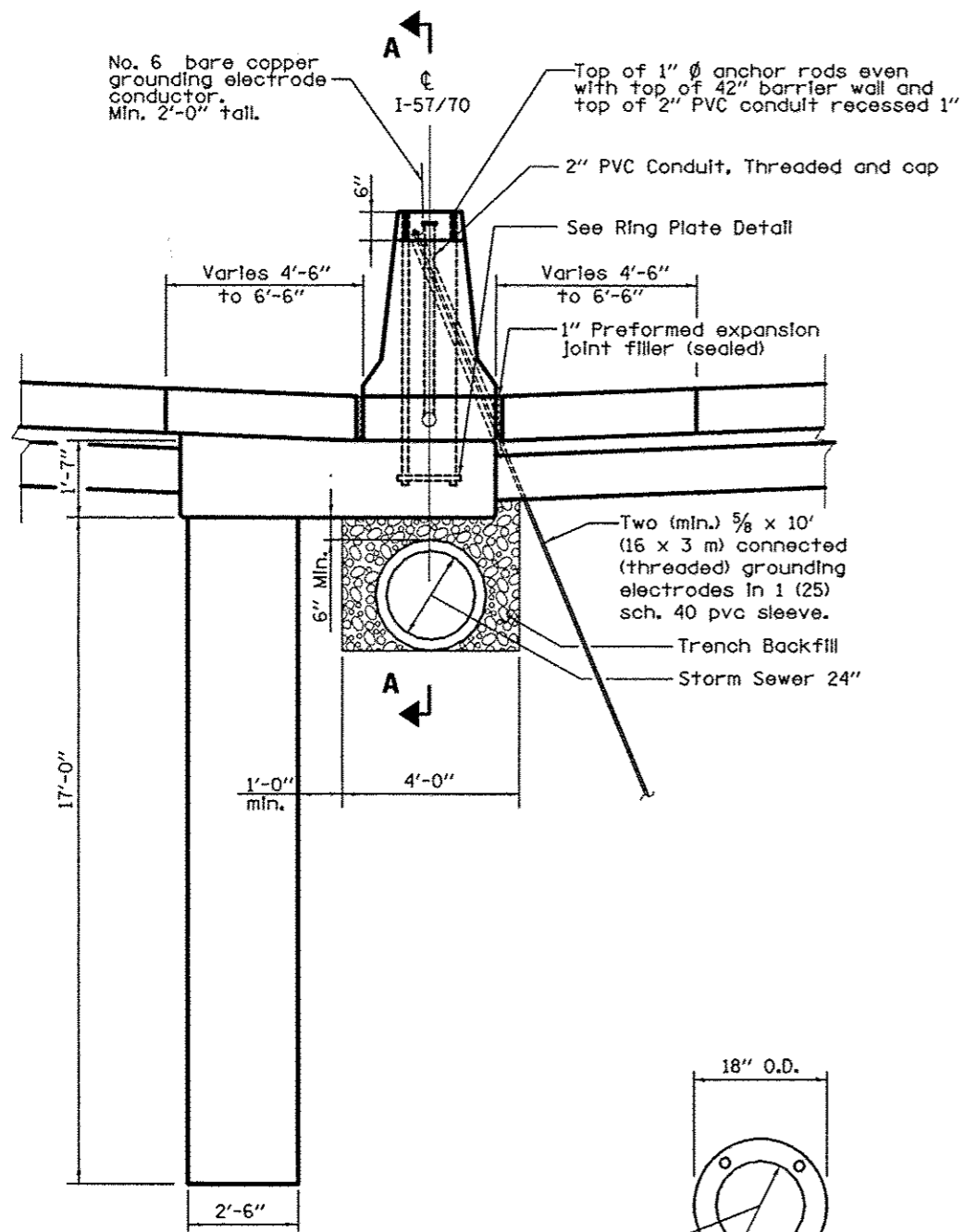


SECTION A-A

GENERAL NOTES

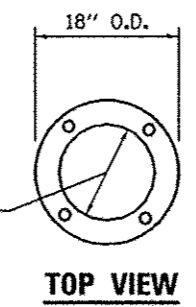
All sign lighting fixtures shall have a minimum of 3 mounting points.
All mounting hardware shall be stainless steel.

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SIGN LIGHTING DETAILS			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Sn\Projects\403-00072.57-70\dgn\W Trl\Lighting detail.dgn		DRAWN -	REVISED -					57/70	(25-4R)	EFFINGHAM	1760	480
PLOT SCALE = \$SCALE\$		CHECKED -	REVISED -		SCALE: SHEET NO. 33 OF 35 SHEETS STA. TO STA.			CONTRACT NO. 74295				
PLOT DATE = \$DATE\$		DATE -	REVISED -					FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

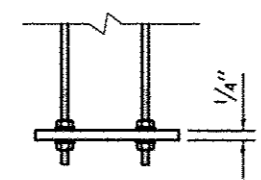


ELEVATION FOUNDATION

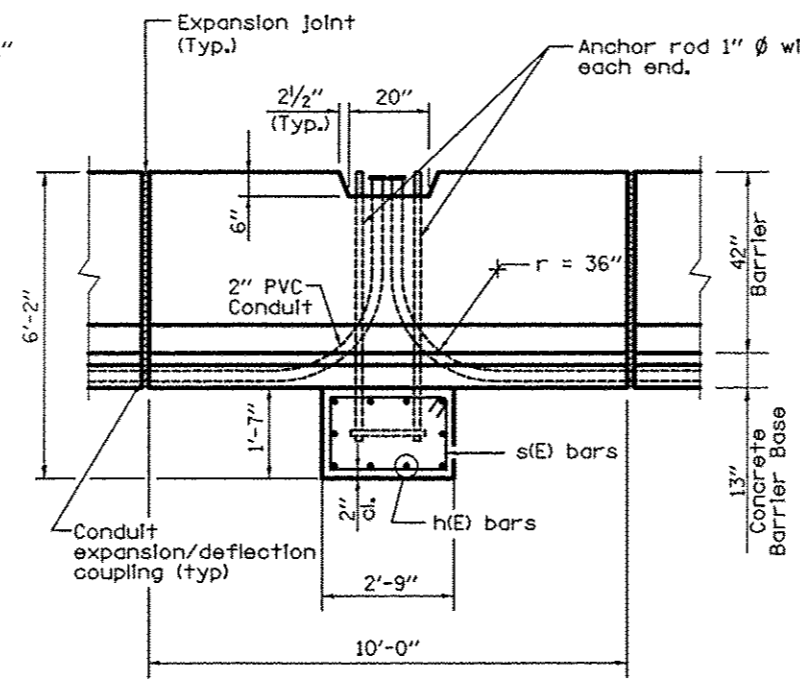
Notes:
See Highway Standard 836011 for other details not shown.
Reinforcement bars designated (E) shall be epoxy coated.



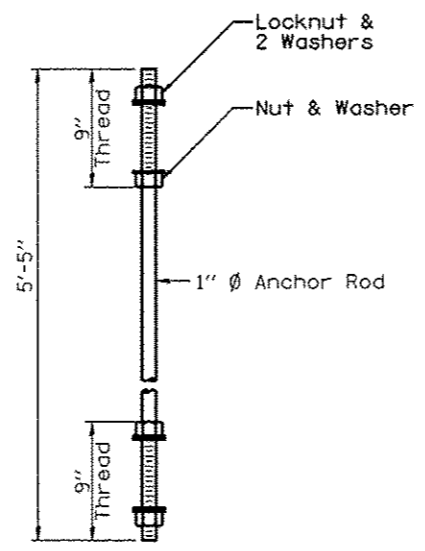
TOP VIEW



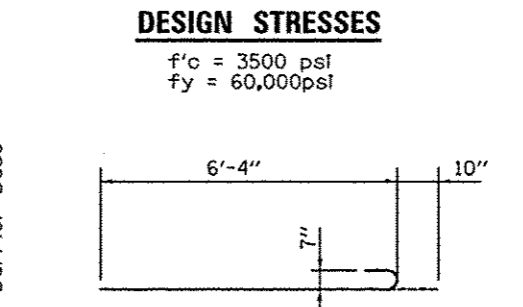
RING PLATE DETAIL



SECTION A-A

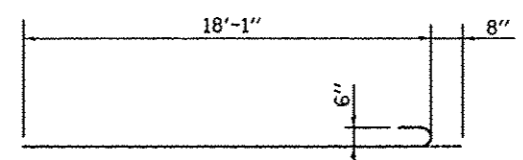


ANCHOR ROD DETAIL

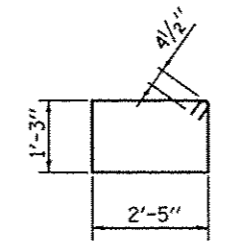


DESIGN STRESSES

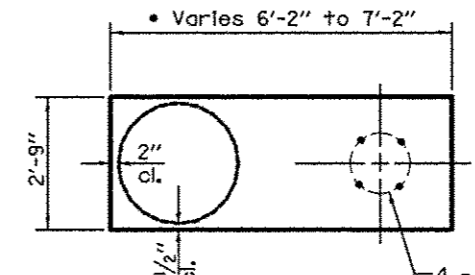
BAR h(E)



BAR n(E)

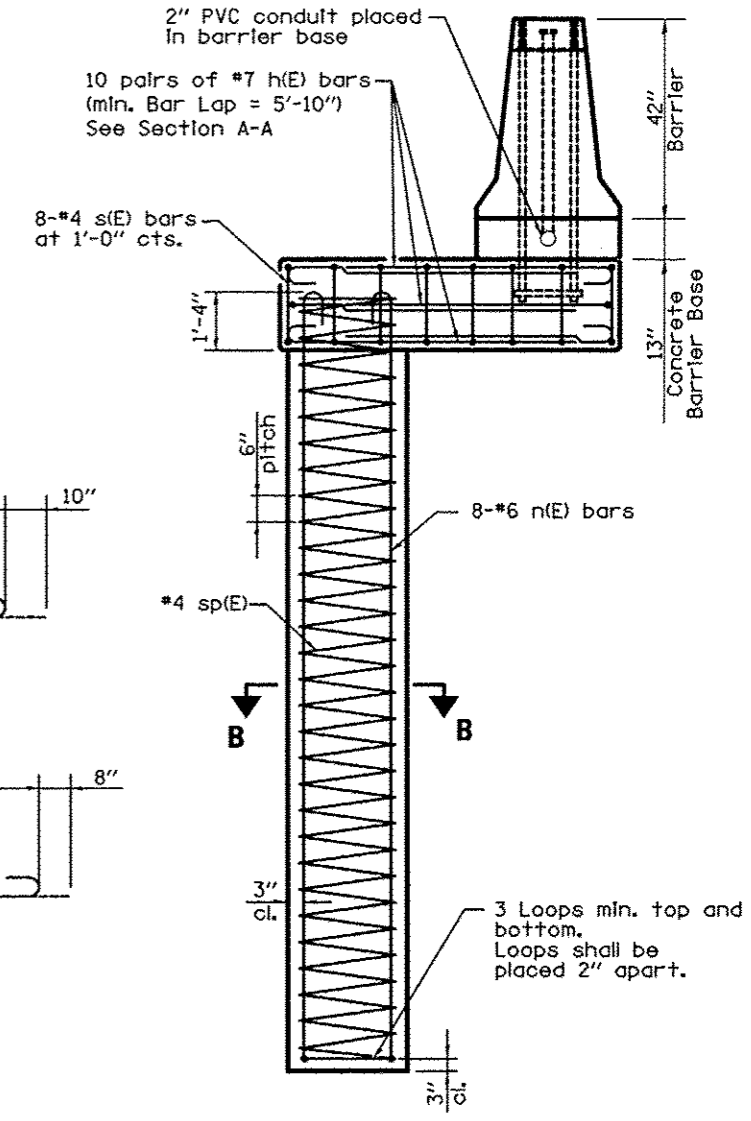


BAR s(E)

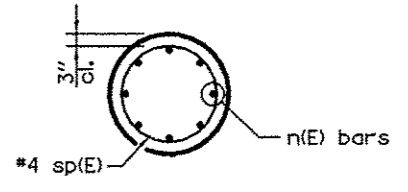


PLAN - CAP BEAM

• If length is less than 6'-8" h(E) bars shall be cut to fit in field while maintaining 5'-10" Lap.



ELEVATION FOUNDATION (with Reinforcement)



SECTION B-B

BILL OF MATERIALS

Bar No.	Size	Length	Shape
h(E) 20	#7	7'-2"	U
n(E) 8	#6	18'-9"	U
s(E) 8	#4	8'-1"	□
•• sp(E) 1	#4	18'-1"	MMM

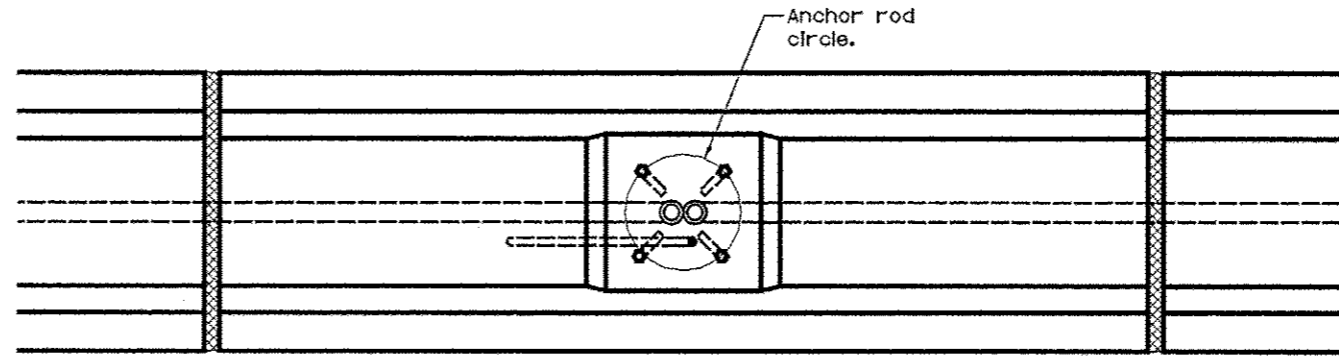
•• Length is height of spiral.



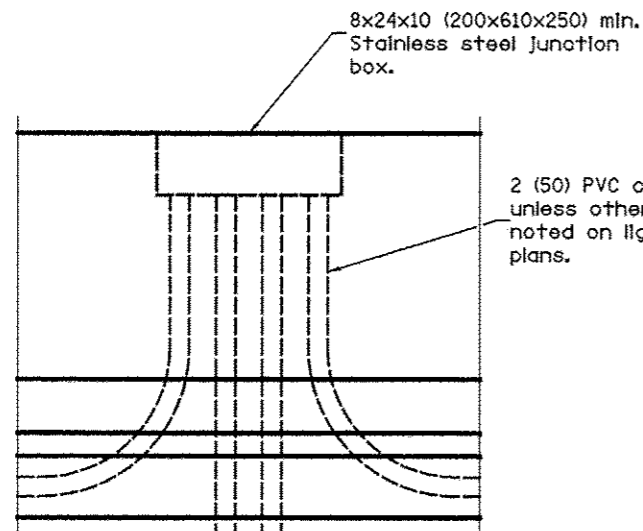
Chadwick J. Fleshting 8/8/13

FOUNDATION TABLE				
LIGHT POLE MOUNTING HEIGHT	SHAFT DIAMETER	SHAFT DEPTH	ANCHOR ROD LENGTH (1)	ANCHOR ROD CIRCLE DIA.
30'	24	36	6'-0"	11 1/2
(9.1 m)	(610)	(914)	(1.83 m)	(292)
31'-35'	24	3'-6"	6'-6"	11 1/2
(9.4 m - 10.7 m)	(610)	(1.06 m)	(1.98 m)	(292)
36'-40'	30	4'-0"	7'-0"	15
(10.9 m - 12.2 m)	(762)	(1.22 m)	(2.13 m)	(381)
41'-45'	30	4'-6"	7'-6"	15
(12.5 m - 13.7 m)	(762)	(1.37 m)	(2.29 m)	(381)
46'-50'	30	5'-0"	8'-0"	15
(14.0 m - 15.2 m)	(762)	(1.52 m)	(2.44 m)	(381)

(1) Length does not include 4 (100) hook.



PLAN



JUNCTION BOX ELEVATION

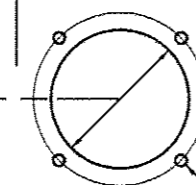
2 (50) PVC conduit, one or two required. (See lighting plans)

8x24x10 (200x610x250) min. Stainless steel junction box.

2 (50) PVC conduit unless otherwise noted on lighting plans.

9 (229) with 11 1/2 (292) bolt circle
12 (305) with 15 (381) bolt circle

15 (381) O.D.
18 (457) O.D.



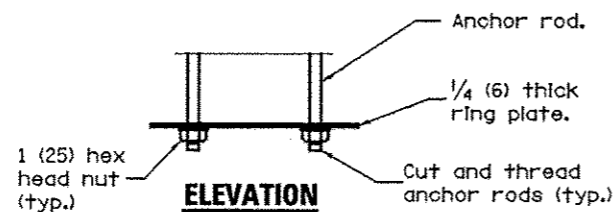
PLAN

Two piece PVC expansion deflection coupling at expansion joint (typ.).

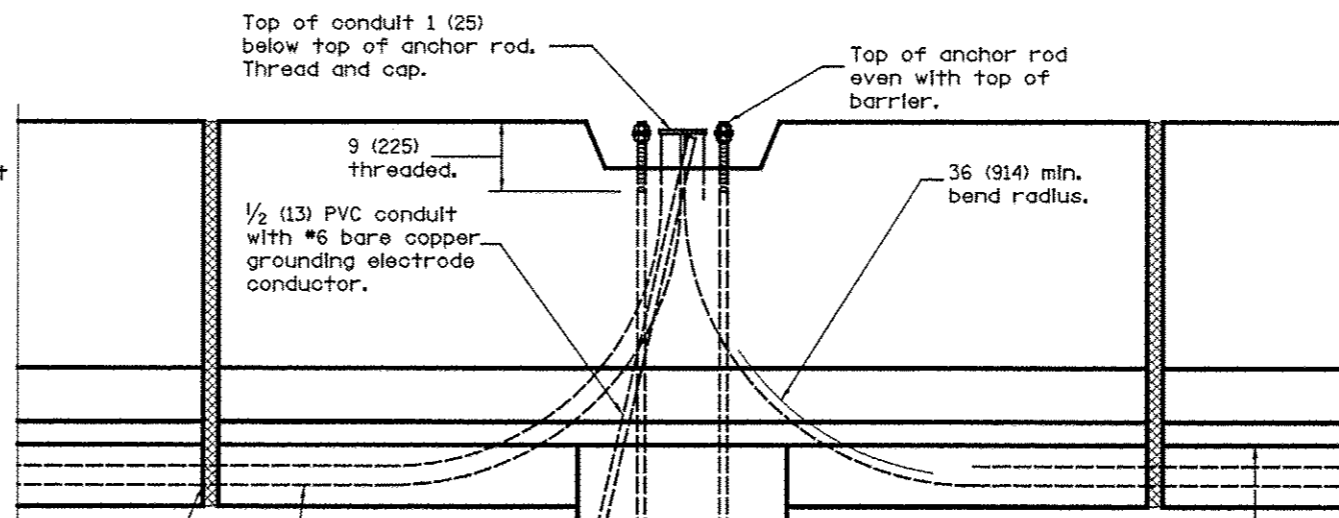
2 (50) PVC conduit unless otherwise noted on lighting plans.

Two (min.) 5/8 x 10' (16 x 3 m) connected (threaded) grounding electrodes in 1 (25) sch. 40 pvc sleeve.

11 1/2 dia. or 15 (381) dia. (see table)
1/16 (27) dia.



RING PLATE DETAIL ELEVATION



ELEVATION LIGHT POLE FOUNDATION

Top of conduit 1 (25) below top of anchor rod. Thread and cap.

Top of anchor rod even with top of barrier.

9 (225) threaded.

1/2 (13) PVC conduit with #6 bare copper grounding electrode conductor.

36 (914) min. bend radius.

42 (1065) high barrier wall.

Barrier base.

Anchor rod 1 (25) dia.

See Ring Plate Detail when rock is encountered.

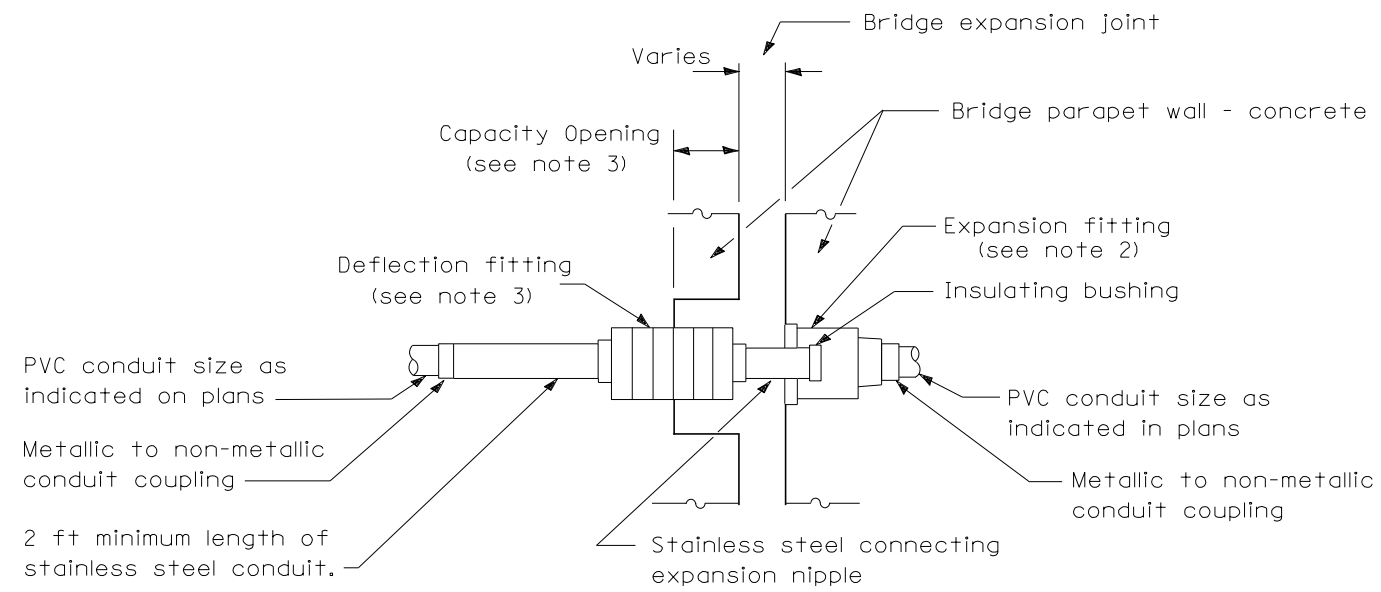
Shaft depth (see table)

GENERAL NOTES

See standard 637006 for barrier wall details

When rock is encountered the foundation depth may be reduced 6 (150) for every 12 (300) of embedment in rock. The minimum foundation depth shall be 30 (760) with cut anchor rods 6 (150) above bottom of excavated hole. See ring plate detail.

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

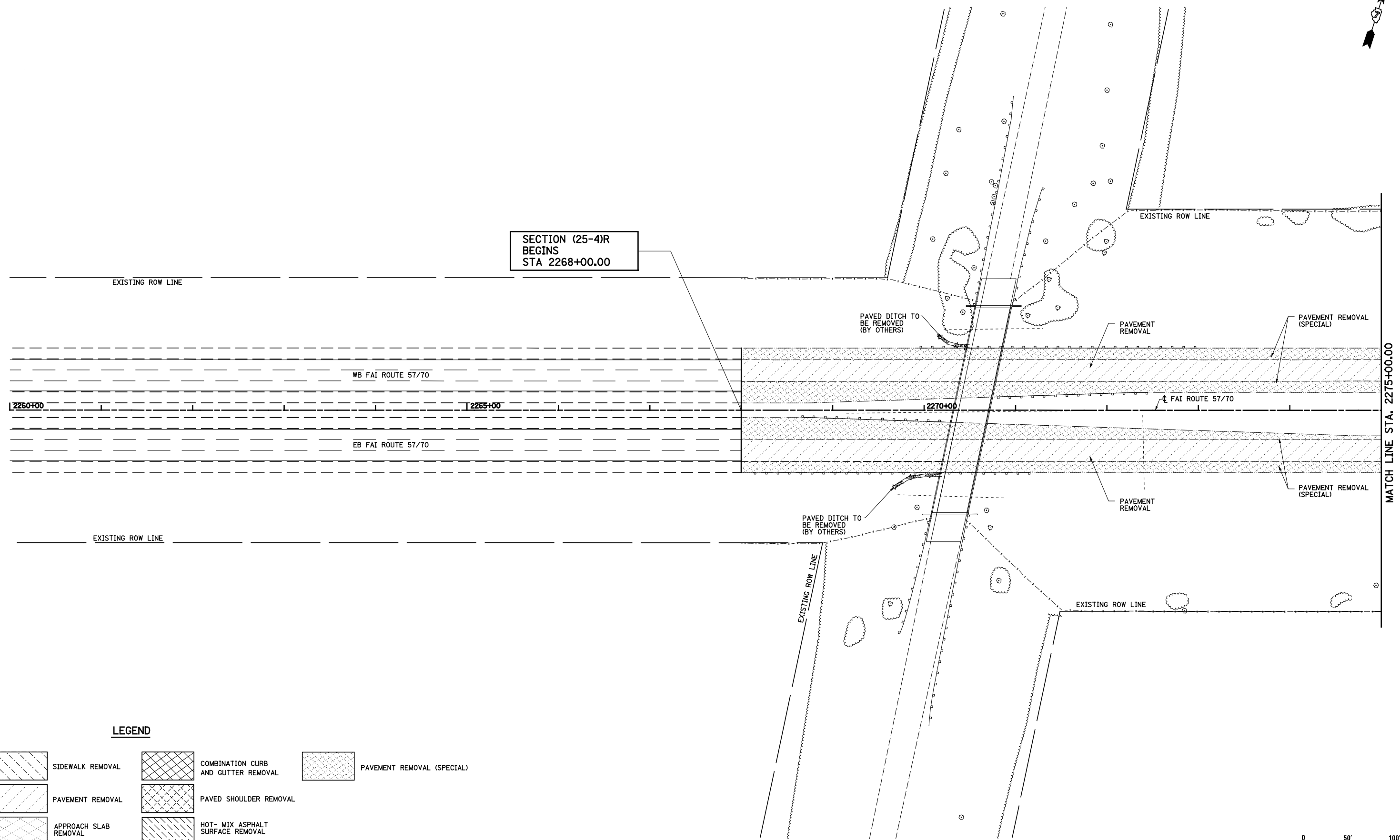


CONDUIT EXPANSION/
DEFLECTION COUPLING DETAIL

GENERAL NOTES

1. The Contractor shall install a conduit expansion/deflection coupling at the joints in the concrete parapet on the bridge capable of accepting the longitudinal movement. All metallic parts of the coupling shall be made of stainless steel or as approved by the Engineer. Any non-stainless metal shall be hot dip galvanized and coated to prevent reaction with the concrete. The cost of the coupling shall be part of and incidental to the conduit system.
2. The barrel in the expansion fitting shall be fully embedded in the concrete on one side of the expansion joint. One half the length of the deflection fitting shall be embedded in the concrete on the other side of the coupling.
3. A cavity opening 3" larger in diameter than the deflection fitting shall be provided in the concrete to ensure proper performance of the coupling.
4. Careful attention to joint movement over a range of temperatures shall be coordinated with the selection and installation of the coupling to ensure the range of movement of the coupling is not exceeded at temperature extremes.
5. All manufacturer's installation instructions shall be carefully followed to ensure optimum performance of the expansion/deflection coupling.
6. The Contractor shall install couplings at all bridge expansion joints and shall be responsible to determine the proper number of couplings required.

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CONDUIT COUPLING EXPANSION / DEFLECTION			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S:\Projects\403-00072.57-70\dgn\W Trl\Lighting_detail.dgn		DRAWN -	REVISED -					57/70	(25-4)R	EFFINGHAM	1760	482
	PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -		SCALE:			SHEET NO. 35 OF 35 SHEETS		STA.	TO STA.	
	PLOT DATE = \$DATE\$	DATE -	REVISED -					FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	CONTRACT NO. 74295	



LEGEND

	SIDEWALK REMOVAL		COMBINATION CURB AND GUTTER REMOVAL		PAVEMENT REMOVAL (SPECIAL)
	PAVEMENT REMOVAL		PAVED SHOULDER REMOVAL		
	APPROACH SLAB REMOVAL		HOT-MIX ASPHALT SURFACE REMOVAL		
	TREE REMOVAL (ACRES)		TREE REMOVAL (UNITS)		



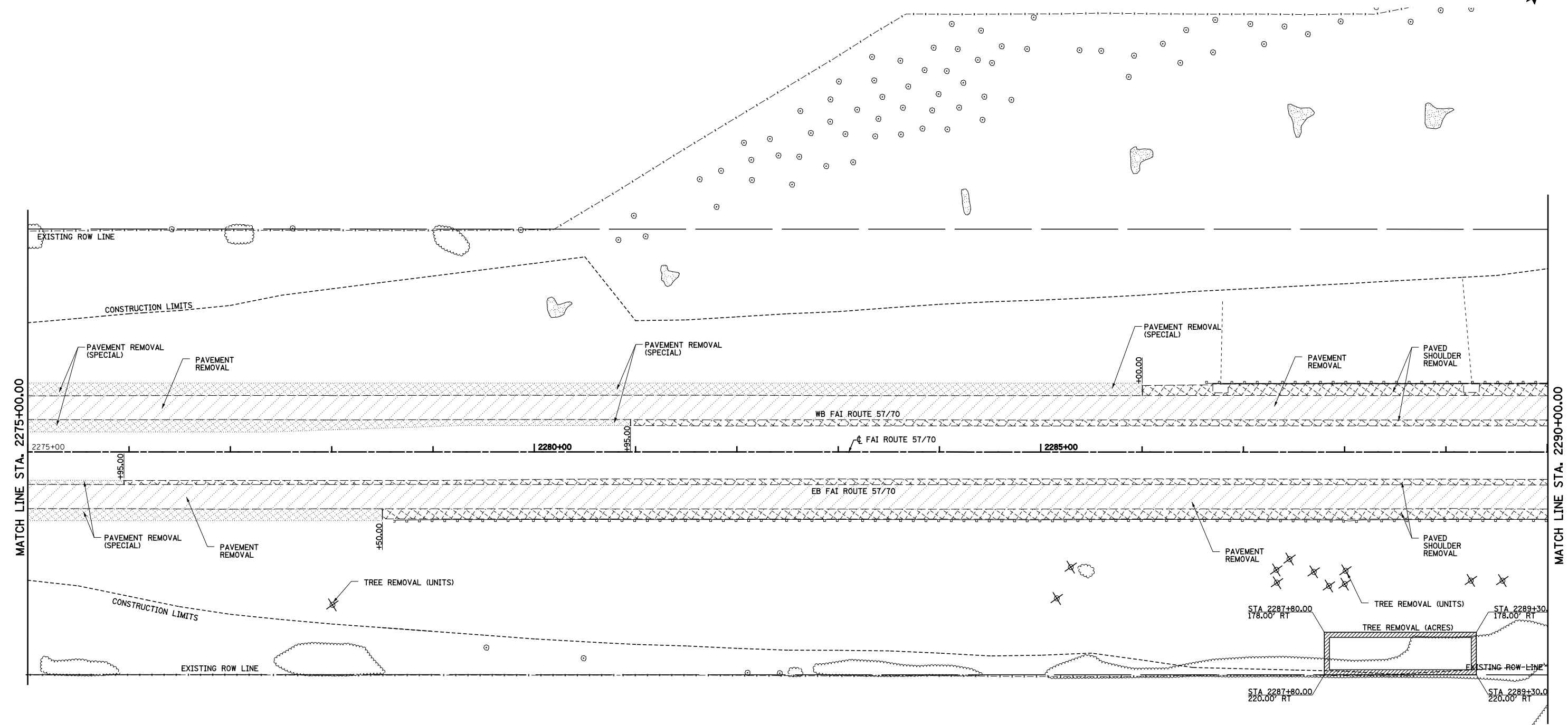
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		DRAWN - MAB	REVISED -
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	PLOT DATE = \$DATE\$	DATE - 3-31-08	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

REMOVAL PLAN, FAI ROUTE 57/70

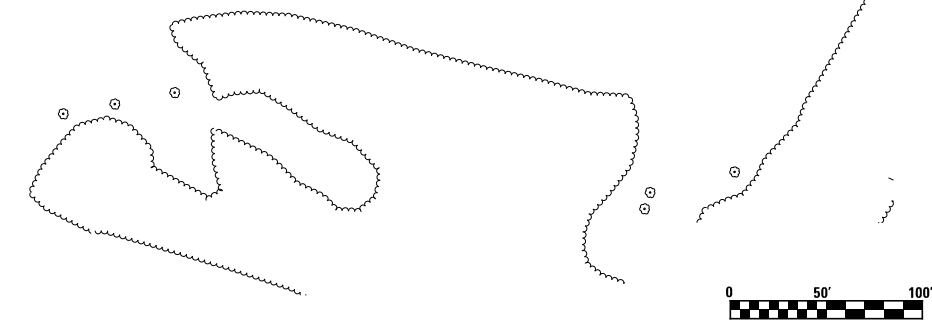
SCALE: 1"=50' SHEET NO. 1 OF 16 SHEETS STA. 2255+00.00 TO STA. 2275+00.00

F.A.I. RTE. 57/70	SECTION (25-4)R	COUNTY EFFINGHAM	TOTAL SHEETS 1760	SHEET NO. 483
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 74295	



LEGEND

- | | | | | | |
|--|-----------------------|--|-------------------------------------|--|----------------------------|
| | SIDEWALK REMOVAL | | COMBINATION CURB AND GUTTER REMOVAL | | PAVEMENT REMOVAL (SPECIAL) |
| | PAVEMENT REMOVAL | | PAVED SHOULDER REMOVAL | | |
| | APPROACH SLAB REMOVAL | | HOT-MIX ASPHALT SURFACE REMOVAL | | |
| | TREE REMOVAL (ACRES) | | TREE REMOVAL (UNITS) | | |



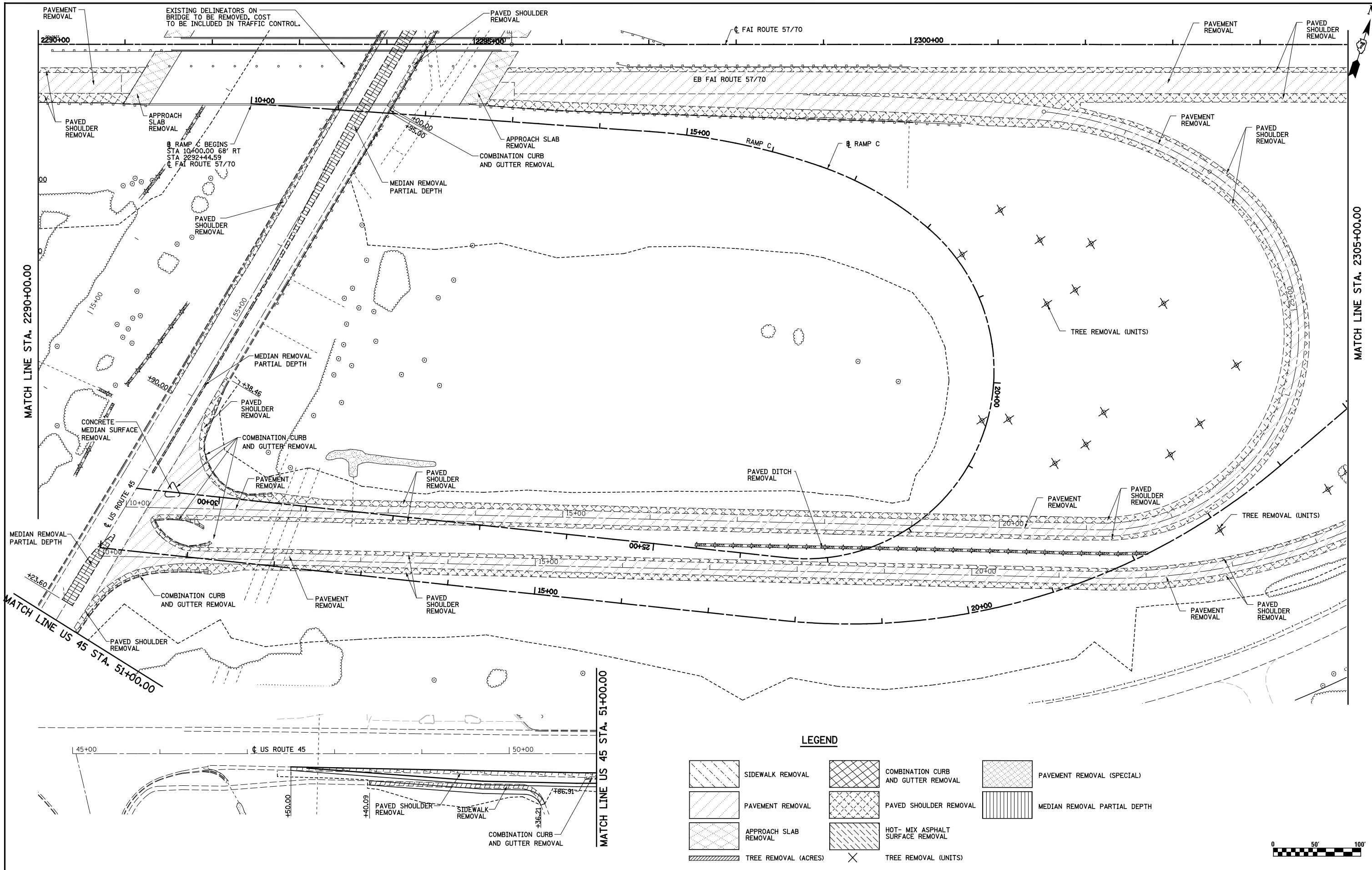
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		DRAWN - MAB	REVISED -
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	PLOT DATE = #DATE#	DATE - 3-31-08	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

REMOVAL PLAN, FAI ROUTE 57/70

SCALE: 1"=50' SHEET NO. 2 OF 16 SHEETS STA. 226000.00 TO STA. 2290+00.00

F.A.I. RTE. 57/70	SECTION (25-4)R	COUNTY EFFINGHAM	TOTAL SHEETS 1760	SHEET NO. 484
CONTRACT NO. 74295				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



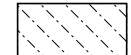
MATCH LINE STA. 2290+00.00

MATCH LINE STA. 2305+00.00

MATCH LINE US 45 STA. 51+00.00

MATCH LINE US 45 STA. 51+00.00

LEGEND

-  SIDEWALK REMOVAL
-  PAVEMENT REMOVAL
-  APPROACH SLAB REMOVAL
-  TREE REMOVAL (ACRES)
-  COMBINATION CURB AND GUTTER REMOVAL
-  PAVED SHOULDER REMOVAL
-  HOT-MIX ASPHALT SURFACE REMOVAL
-  TREE REMOVAL (UNITS)
-  PAVEMENT REMOVAL (SPECIAL)
-  MEDIAN REMOVAL PARTIAL DEPTH



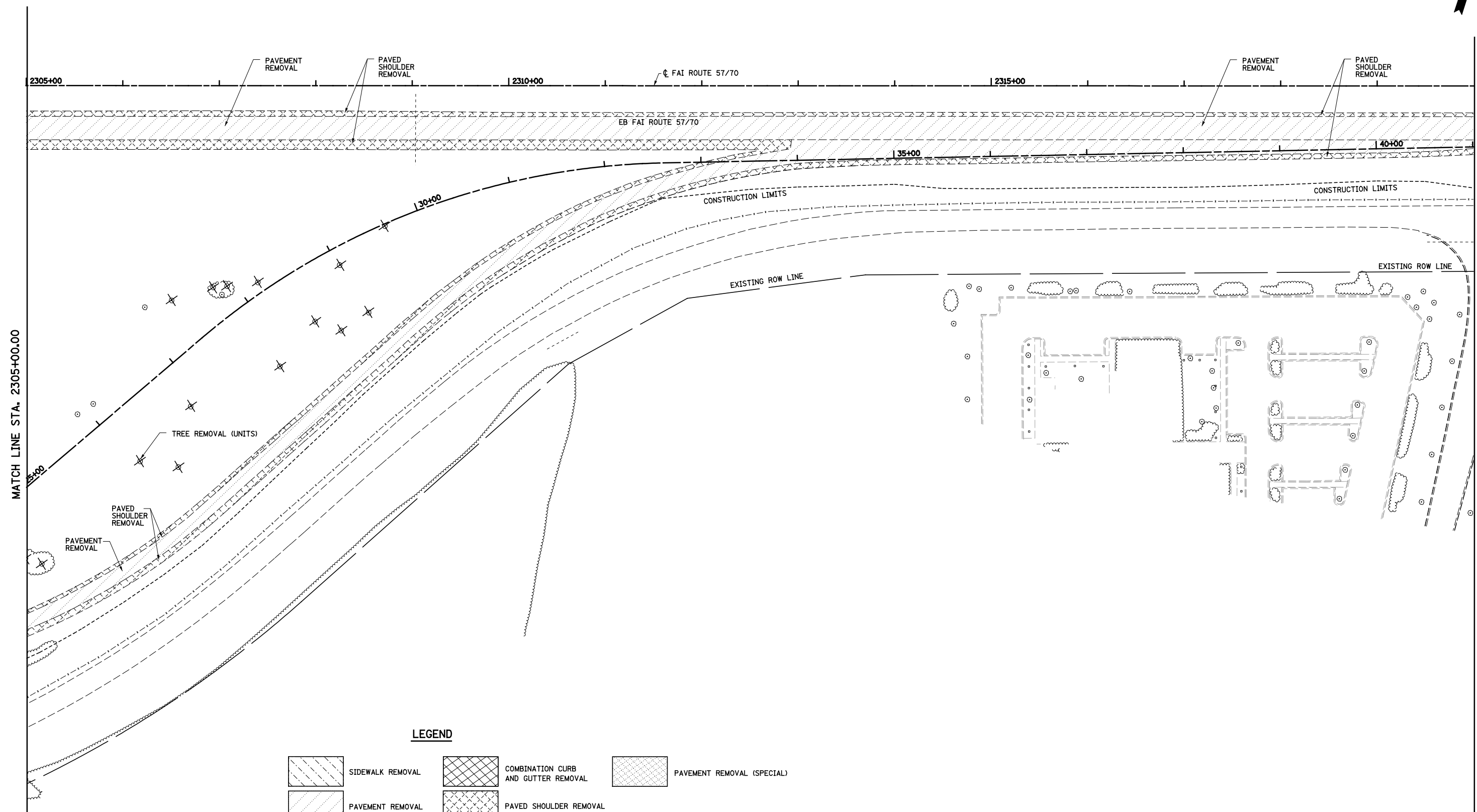
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

REMOVAL PLAN, FAI ROUTE 57/70 EASTBOUND

SCALE: 1"=50' SHEET NO. 3 OF 16 SHEETS STA. 2290+00.00 TO STA. 2305+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-4R)	EFFINGHAM	1760	485
CONTRACT NO. 74295				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



LEGEND

- | | | | | | |
|--|-----------------------|--|-------------------------------------|--|----------------------------|
| | SIDEWALK REMOVAL | | COMBINATION CURB AND GUTTER REMOVAL | | PAVEMENT REMOVAL (SPECIAL) |
| | PAVEMENT REMOVAL | | PAVED SHOULDER REMOVAL | | |
| | APPROACH SLAB REMOVAL | | HOT-MIX ASPHALT SURFACE REMOVAL | | |
| | TREE REMOVAL (ACRES) | | TREE REMOVAL (UNITS) | | |



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 CHECKED - BRM
 DATE - 3-31-08

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

REMOVAL PLAN, EASTBOUND FAI ROUTE 57/70

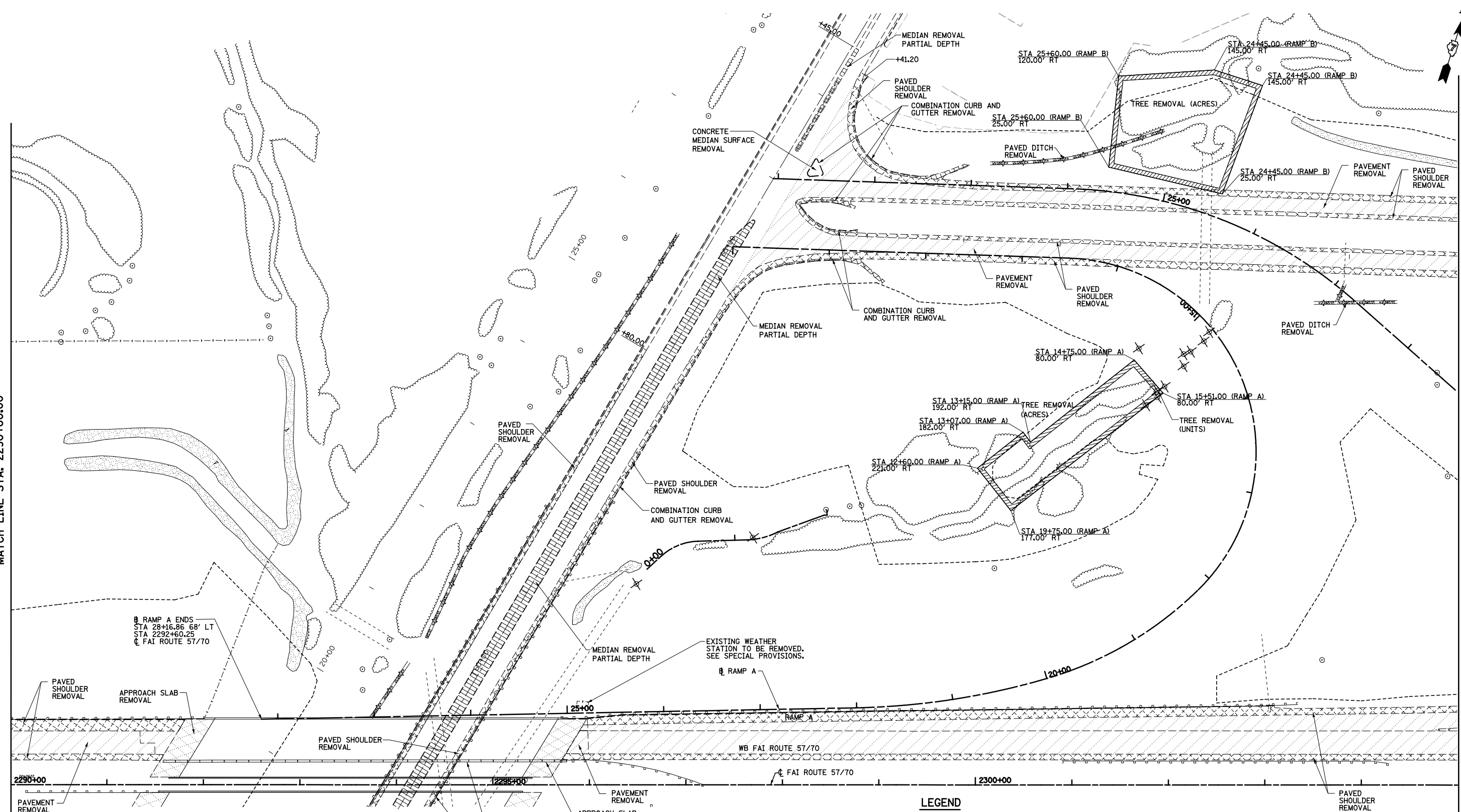
SCALE: 1"=50' SHEET NO. 4 OF 16 SHEETS STA. 2305+00.00 TO STA. 2320+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-4)R	EFFINGHAM	1760	486
CONTRACT NO. 74295				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



MATCH LINE STA. 2290+00.00

MATCH LINE STA. 2305+00.00



RAMP A ENDS
 STA 28+16.86 68' LT
 STA 2292+60.25
 C FAI ROUTE 57/70

EXISTING WEATHER
 STATION TO BE REMOVED.
 SEE SPECIAL PROVISIONS.

LEGEND

- SIDEWALK REMOVAL
- COMBINATION CURB AND GUTTER REMOVAL
- PAVEMENT REMOVAL (SPECIAL)
- PAVEMENT REMOVAL
- PAVED SHOULDER REMOVAL
- MEDIAN REMOVAL PARTIAL DEPTH
- APPROACH SLAB REMOVAL
- HOT-MIX ASPHALT SURFACE REMOVAL
- TREE REMOVAL (ACRES)
- TREE REMOVAL (UNITS)



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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

REMOVAL PLAN, NORTH TRI LEVEL FAI ROUTE 57/70 WESTBOUND

SCALE: 1"=50' SHEET NO. 5 OF 16 SHEETS STA. 2290+00.00 TO STA. 2305+00.00

F.A.I. RTE. 57/70	SECTION (25-4R)	COUNTY EFFINGHAM	TOTAL SHEETS 1760	SHEET NO. 487
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 74295				



MATCH LINE STA. 2305+00.00

MATCH LINE STA. 2320+00.00

LEGEND

- | | | | | | |
|--|-----------------------|--|-------------------------------------|--|----------------------------|
| | SIDEWALK REMOVAL | | COMBINATION CURB AND GUTTER REMOVAL | | PAVEMENT REMOVAL (SPECIAL) |
| | PAVEMENT REMOVAL | | PAVED SHOULDER REMOVAL | | |
| | APPROACH SLAB REMOVAL | | HOT-MIX ASPHALT SURFACE REMOVAL | | |
| | TREE REMOVAL (ACRES) | | TREE REMOVAL (UNITS) | | |



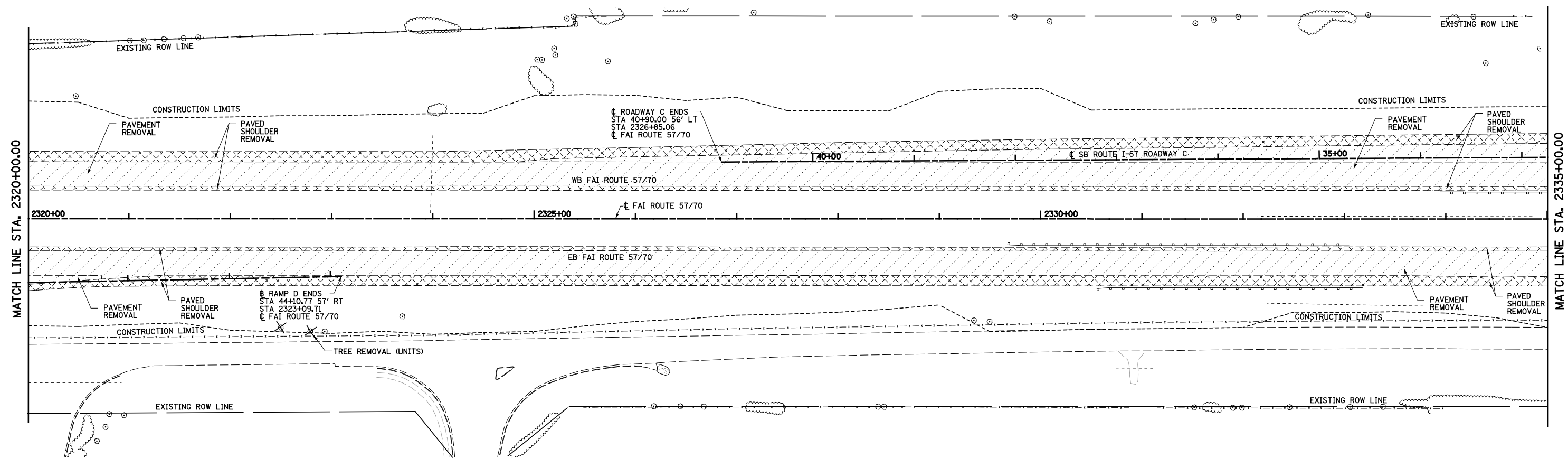
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

REMOVAL PLAN, NORTH TRI LEVEL FAI ROUTE 57/70 WESTBOUND

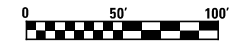
SCALE: 1"=50' SHEET NO. 6 OF 16 SHEETS STA. 2305+00.00 TO STA. 2320+00.00

F.A.I. RTE. 57/70	SECTION (25-4R)	COUNTY EFFINGHAM	TOTAL SHEETS 1760	SHEET NO. 488
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 74295				



LEGEND

	SIDEWALK REMOVAL		COMBINATION CURB AND GUTTER REMOVAL		PAVEMENT REMOVAL (SPECIAL)
	PAVEMENT REMOVAL		PAVED SHOULDER REMOVAL		
	APPROACH SLAB REMOVAL		HOT-MIX ASPHALT SURFACE REMOVAL		
	TREE REMOVAL (ACRES)		TREE REMOVAL (UNITS)		



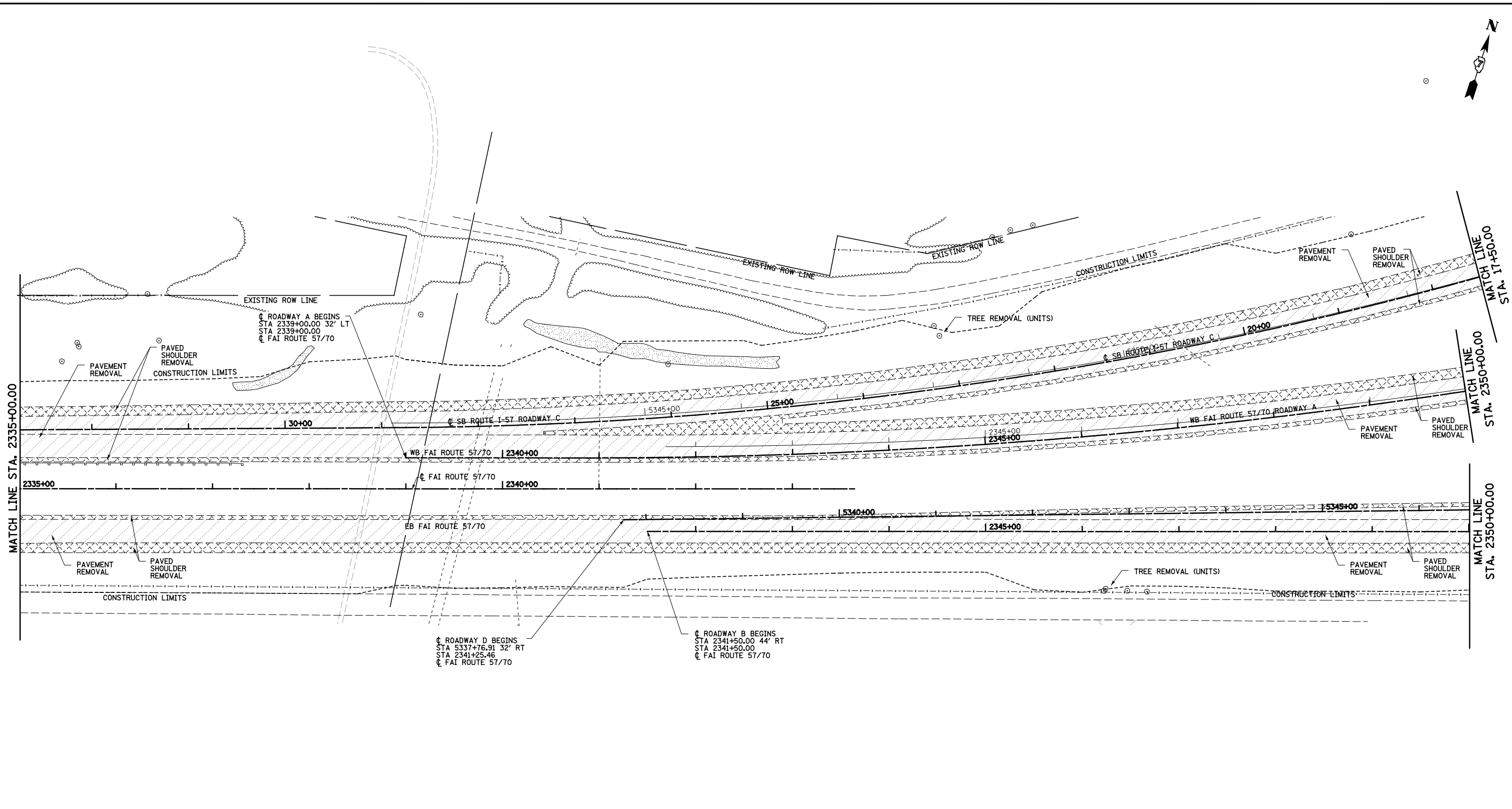
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

REMOVAL PLAN, NORTH TRI LEVEL FAI ROUTE 57/70

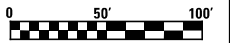
SCALE: 1"=50' SHEET NO. 7 OF 16 SHEETS STA. 2320+00.00 TO STA. 2335+00.00

F.A.I. RTE. 57/70	SECTION (25-4R)	COUNTY EFFINGHAM	TOTAL SHEETS 1760	SHEET NO. 489
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 74295	



LEGEND

	SIDEWALK REMOVAL		COMBINATION CURB AND GUTTER REMOVAL		PAVEMENT REMOVAL (SPECIAL)
	PAVEMENT REMOVAL		PAVED SHOULDER REMOVAL		
	APPROACH SLAB REMOVAL		HOT-MIX ASPHALT SURFACE REMOVAL		
	TREE REMOVAL (ACRES)		TREE REMOVAL (UNITS)		



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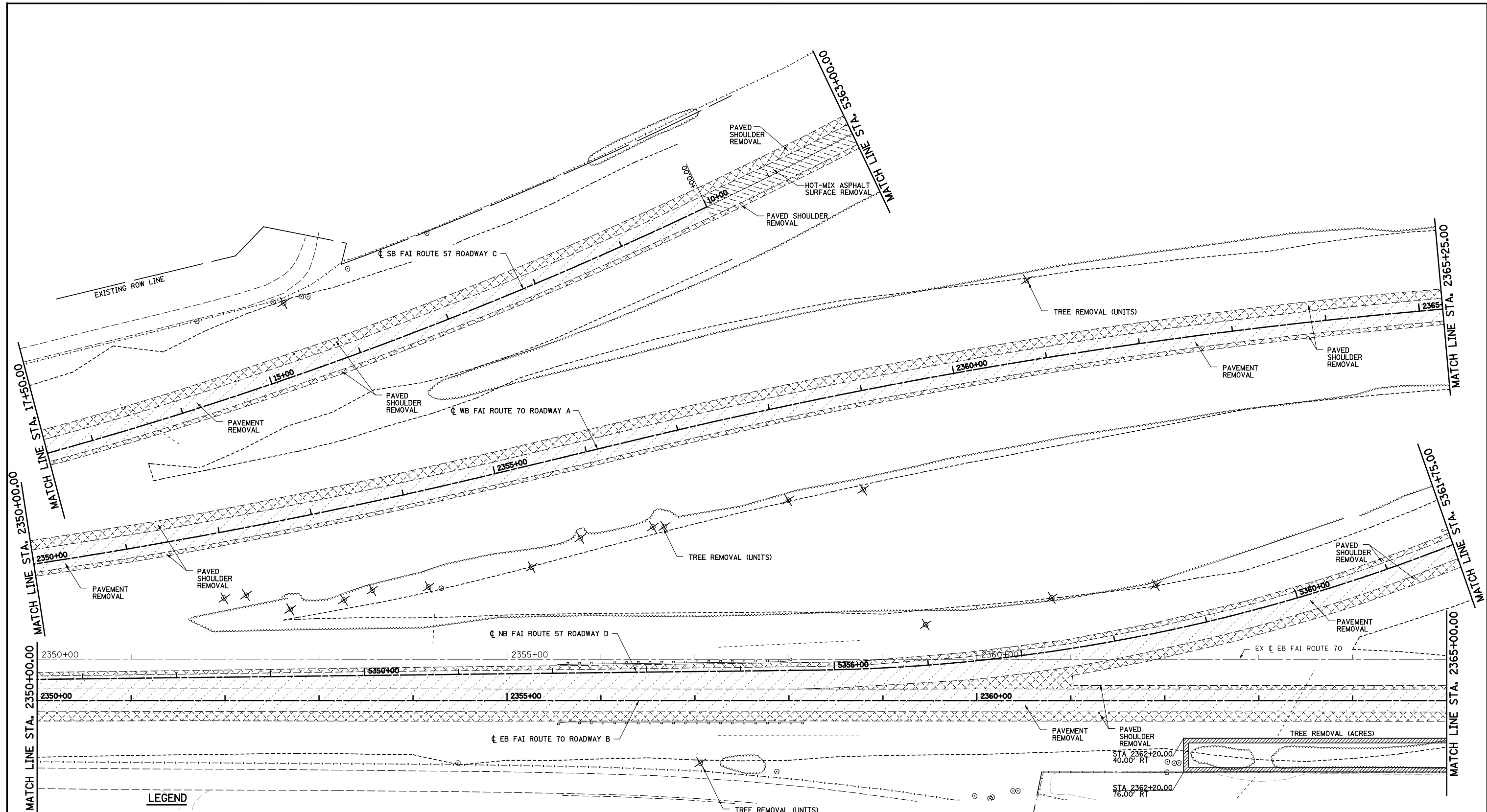
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 CHECKED - BRM
 DATE - 3-31-08

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

REMOVAL PLAN, NORTH TRI LEVEL FAI ROUTE 57/70
 SCALE: 1"=50' SHEET NO. 8 OF 16 SHEETS STA. 2335+00.00 TO STA. 2350+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-4)R	EFFINGHAM	1760	490
CONTRACT NO. 74295				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



LEGEND

- | | | | | | |
|--|-----------------------|--|-------------------------------------|--|----------------------------|
| | SIDEWALK REMOVAL | | COMBINATION CURB AND GUTTER REMOVAL | | PAVEMENT REMOVAL (SPECIAL) |
| | PAVEMENT REMOVAL | | PAVED SHOULDER REMOVAL | | |
| | APPROACH SLAB REMOVAL | | HOT-MIX ASPHALT SURFACE REMOVAL | | |
| | TREE REMOVAL (ACRES) | | TREE REMOVAL (UNITS) | | |



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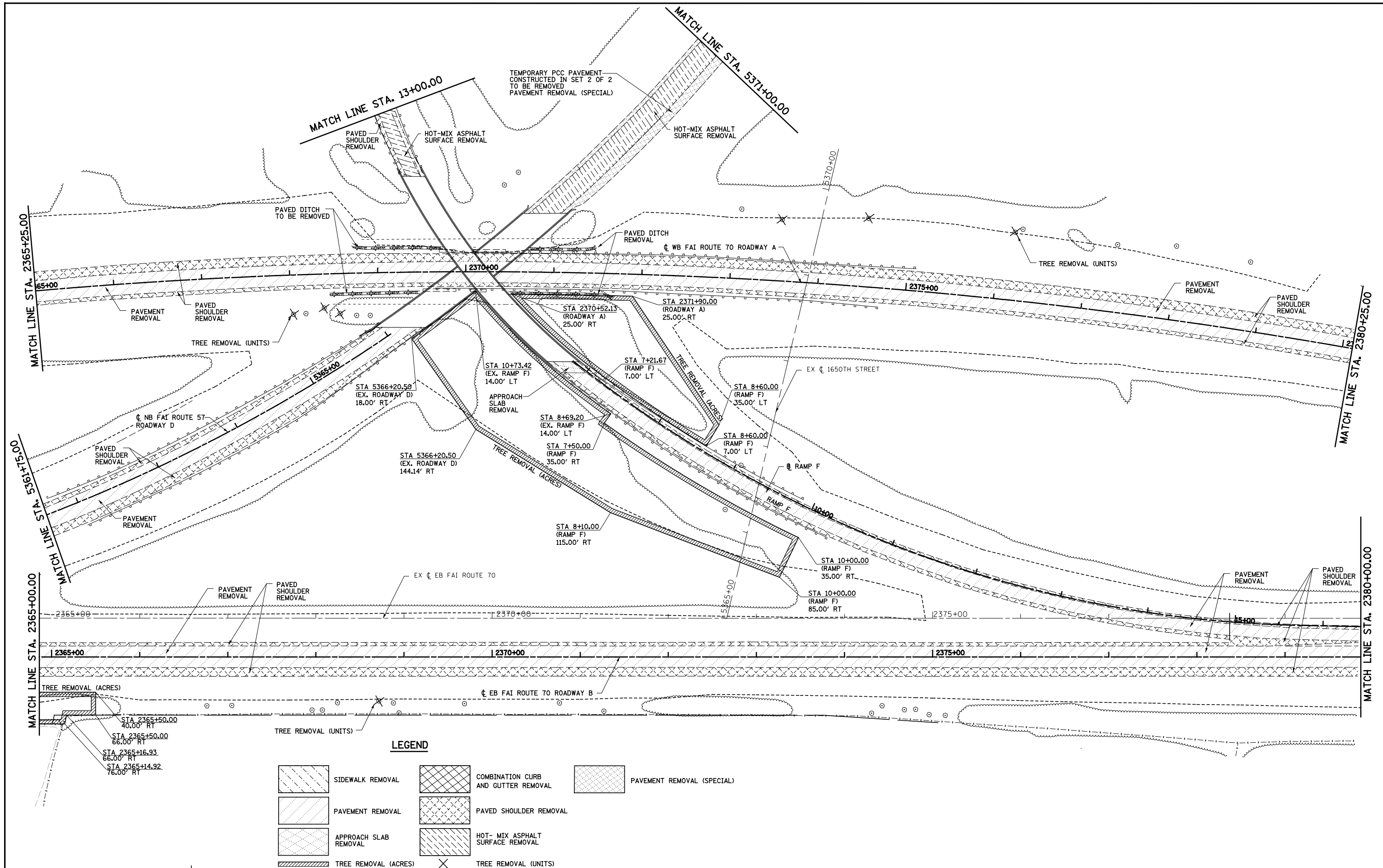
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

REMOVAL PLAN, NORTH TRI LEVEL

SCALE: 1"=50' SHEET NO. 9 OF 16 SHEETS STA. 2350+00.00 TO STA. 2365+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-4R)	EFFINGHAM	1760	491
CONTRACT NO. 74295				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



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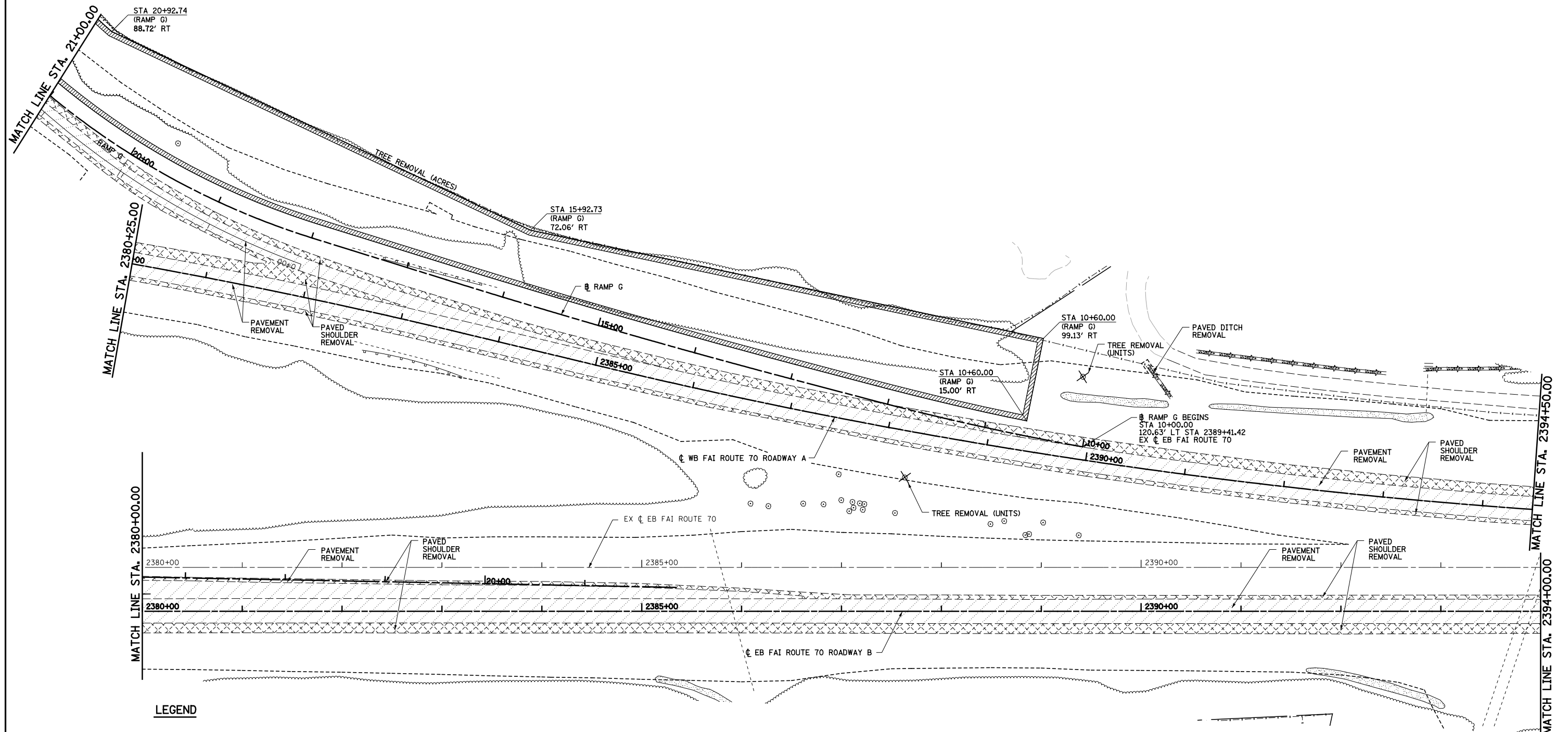
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 CHECKED - BRM
 DATE - 3-04-08

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

REMOVAL PLAN, NORTH TRI LEVEL
 SCALE: 1"=50'
 SHEET NO. 10 OF 16 SHEETS
 STA. 2365+00.00 TO STA. 2380+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-4R)	EFFINGHAM	1760	492
CONTRACT NO. 74295				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



LEGEND

	SIDEWALK REMOVAL		COMBINATION CURB AND GUTTER REMOVAL		PAVEMENT REMOVAL (SPECIAL)
	PAVEMENT REMOVAL		PAVED SHOULDER REMOVAL		
	APPROACH SLAB REMOVAL		HOT-MIX ASPHALT SURFACE REMOVAL		
	TREE REMOVAL (ACRES)		TREE REMOVAL (UNITS)		

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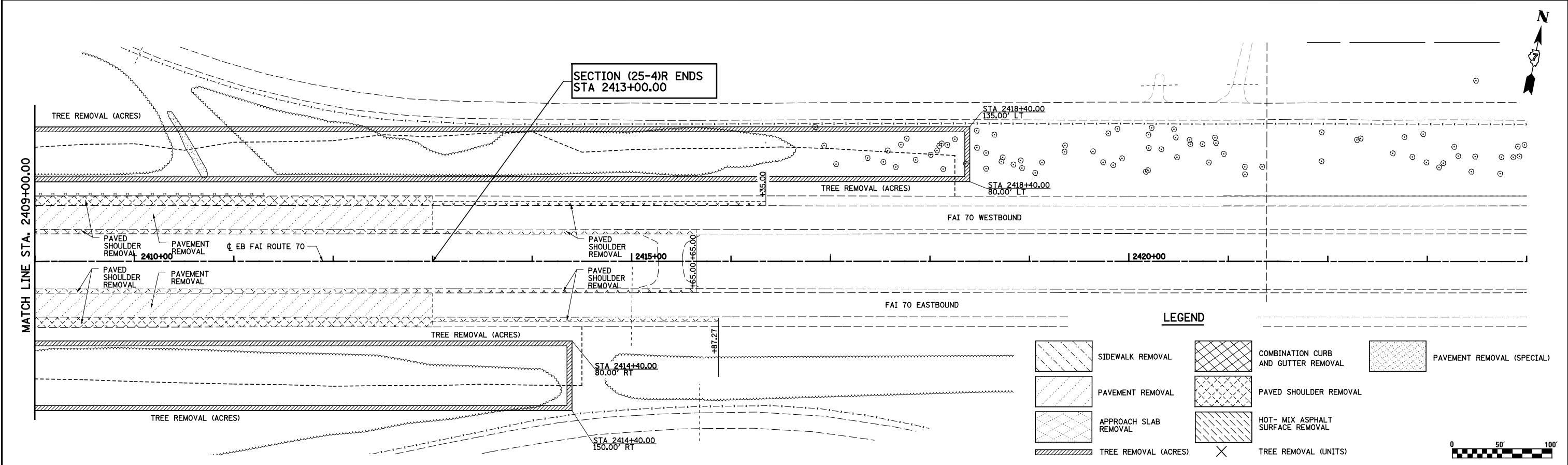
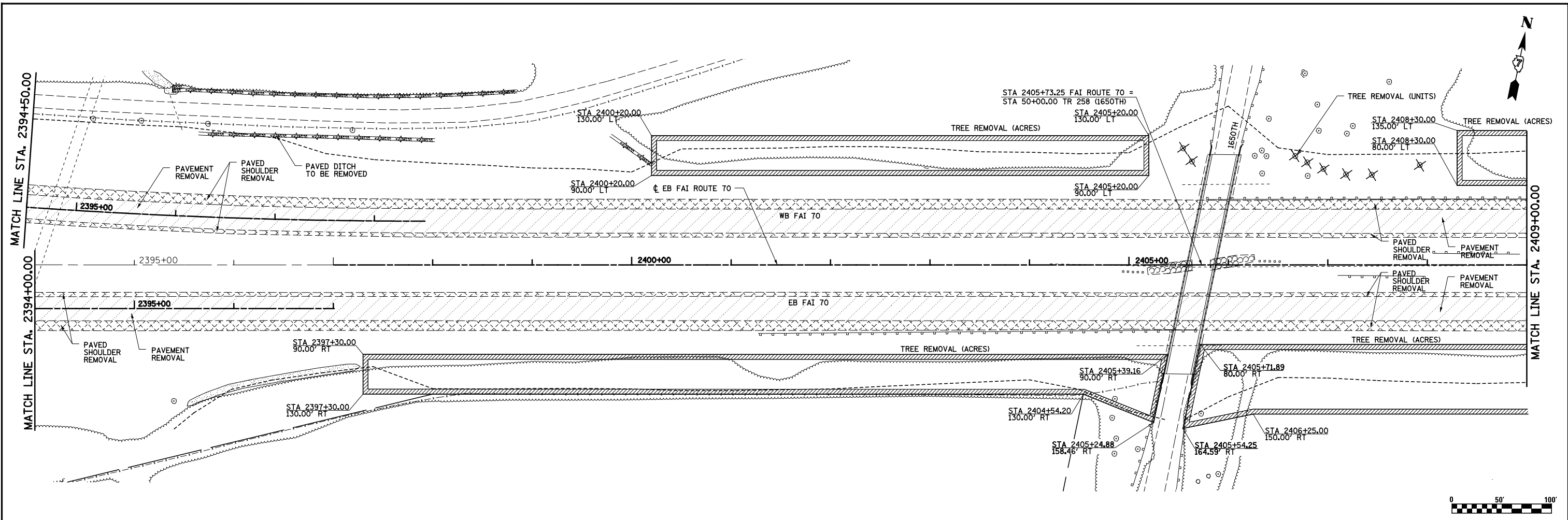
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

REMOVAL PLAN, NORTH TRI LEVEL

SCALE: 1"=50' SHEET NO. 11 OF 16 SHEETS STA. 2380+00.00 TO STA. 2390+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-4)R	EFFINGHAM	1760	493
CONTRACT NO. 74295				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



LEGEND

	SIDEWALK REMOVAL		COMBINATION CURB AND GUTTER REMOVAL		PAVEMENT REMOVAL (SPECIAL)
	PAVEMENT REMOVAL		PAVED SHOULDER REMOVAL		HOT-MIX ASPHALT SURFACE REMOVAL
	APPROACH SLAB REMOVAL		HOT-MIX ASPHALT SURFACE REMOVAL		TREE REMOVAL (UNITS)
	TREE REMOVAL (ACRES)		TREE REMOVAL (UNITS)		

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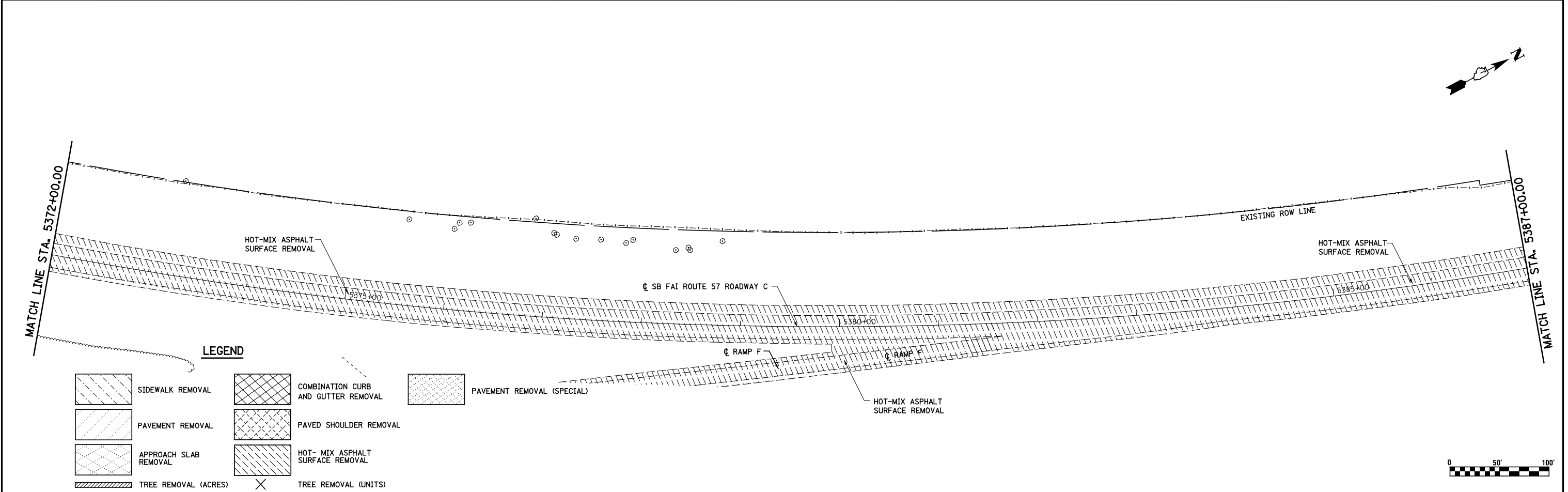
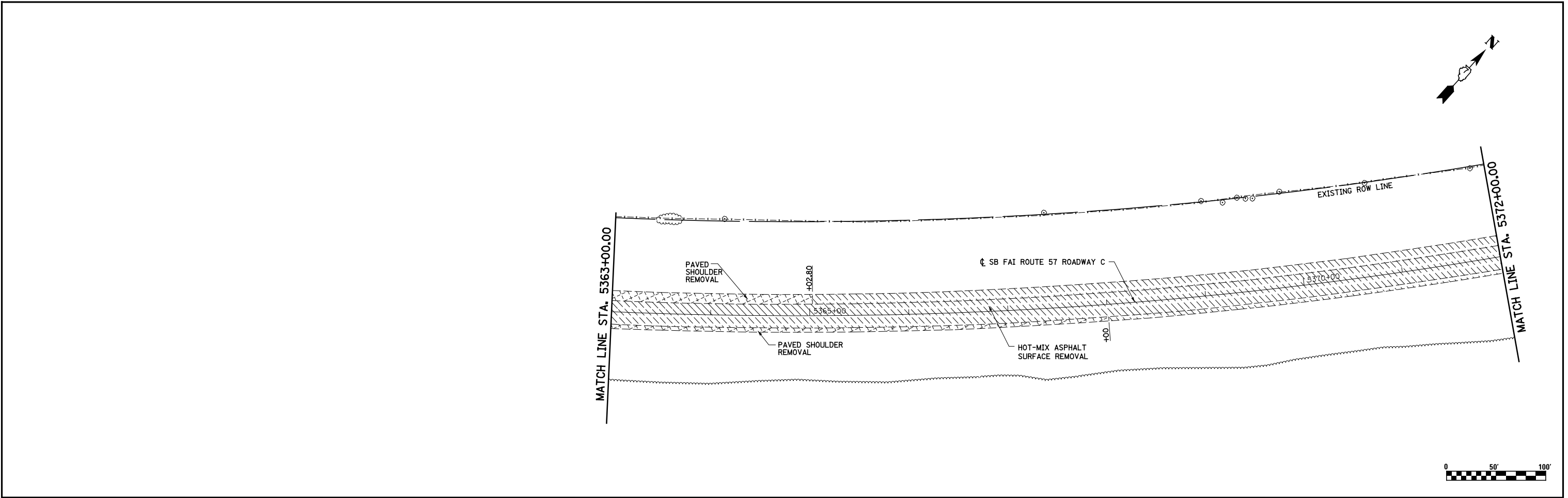
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DRAWN - MAB	REVISED -
CHECKED - BRM	REVISED -
DATE - 3-04-08	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

REMOVAL PLAN, NORTH TRI LEVEL I-70 EAST

SCALE: 1"=50' SHEET NO. 12 OF 16 SHEETS STA. 2394+00.00 TO STA. 2424+00.00

F.A.I. RTE. 57/70	SECTION (25-4)R	COUNTY EFFINGHAM	TOTAL SHEETS 1760	SHEET NO. 494
CONTRACT NO. 74295				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



LEGEND

- | | | | | | |
|--|-----------------------|--|-------------------------------------|--|----------------------------|
| | SIDEWALK REMOVAL | | COMBINATION CURB AND GUTTER REMOVAL | | PAVEMENT REMOVAL (SPECIAL) |
| | PAVEMENT REMOVAL | | PAVED SHOULDER REMOVAL | | |
| | APPROACH SLAB REMOVAL | | HOT-MIX ASPHALT SURFACE REMOVAL | | |
| | TREE REMOVAL (ACRES) | | TREE REMOVAL (UNITS) | | |

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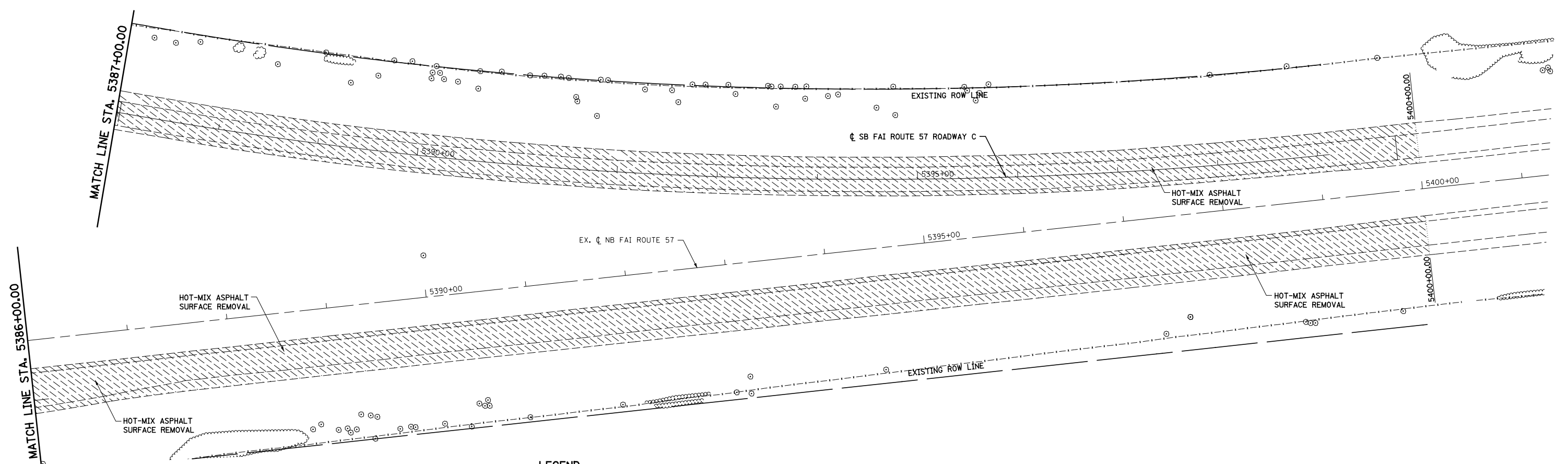
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

REMOVAL PLAN, ROADWAY C NORTH TRI LEVEL
 SCALE: 1"=50' SHEET NO. 13 OF 16 SHEETS STA. 5363+00.00 TO STA. 5387+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-4R)	EFFINGHAM	1760	495
CONTRACT NO. 74295				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

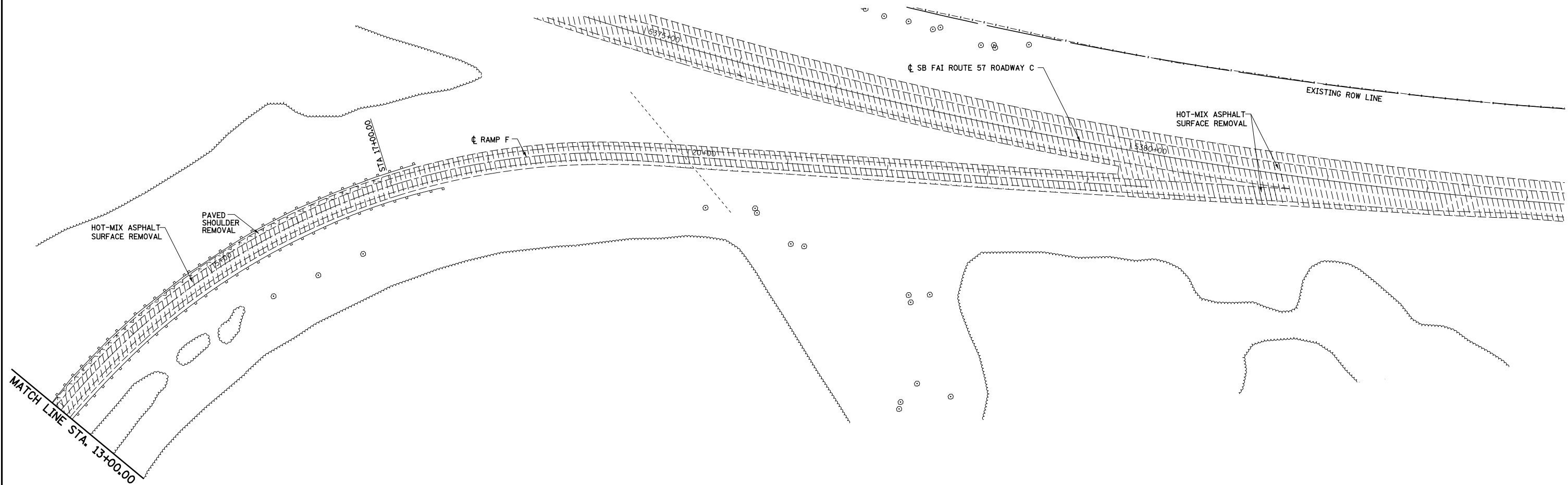


LEGEND

	SIDEWALK REMOVAL		COMBINATION CURB AND GUTTER REMOVAL		PAVEMENT REMOVAL (SPECIAL)
	PAVEMENT REMOVAL		PAVED SHOULDER REMOVAL		
	APPROACH SLAB REMOVAL		HOT-MIX ASPHALT SURFACE REMOVAL		
	TREE REMOVAL (ACRES)		TREE REMOVAL (UNITS)		

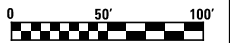


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	PLOT SCALE = #SCALE#	CHECKED - BRM	REVISED -		SCALE: 1"=50'	SHEET NO. 14 OF 16 SHEETS	STA. 5387+00.00 TO STA. 5400+40.00	CONTRACT NO. 74295				
	PLOT DATE = #DATE#	DATE - 3-04-08	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							



LEGEND

- | | | | | | |
|--|-----------------------|--|-------------------------------------|--|----------------------------|
| | SIDEWALK REMOVAL | | COMBINATION CURB AND GUTTER REMOVAL | | PAVEMENT REMOVAL (SPECIAL) |
| | PAVEMENT REMOVAL | | PAVED SHOULDER REMOVAL | | |
| | APPROACH SLAB REMOVAL | | HOT-MIX ASPHALT SURFACE REMOVAL | | |
| | TREE REMOVAL (ACRES) | | TREE REMOVAL (UNITS) | | |



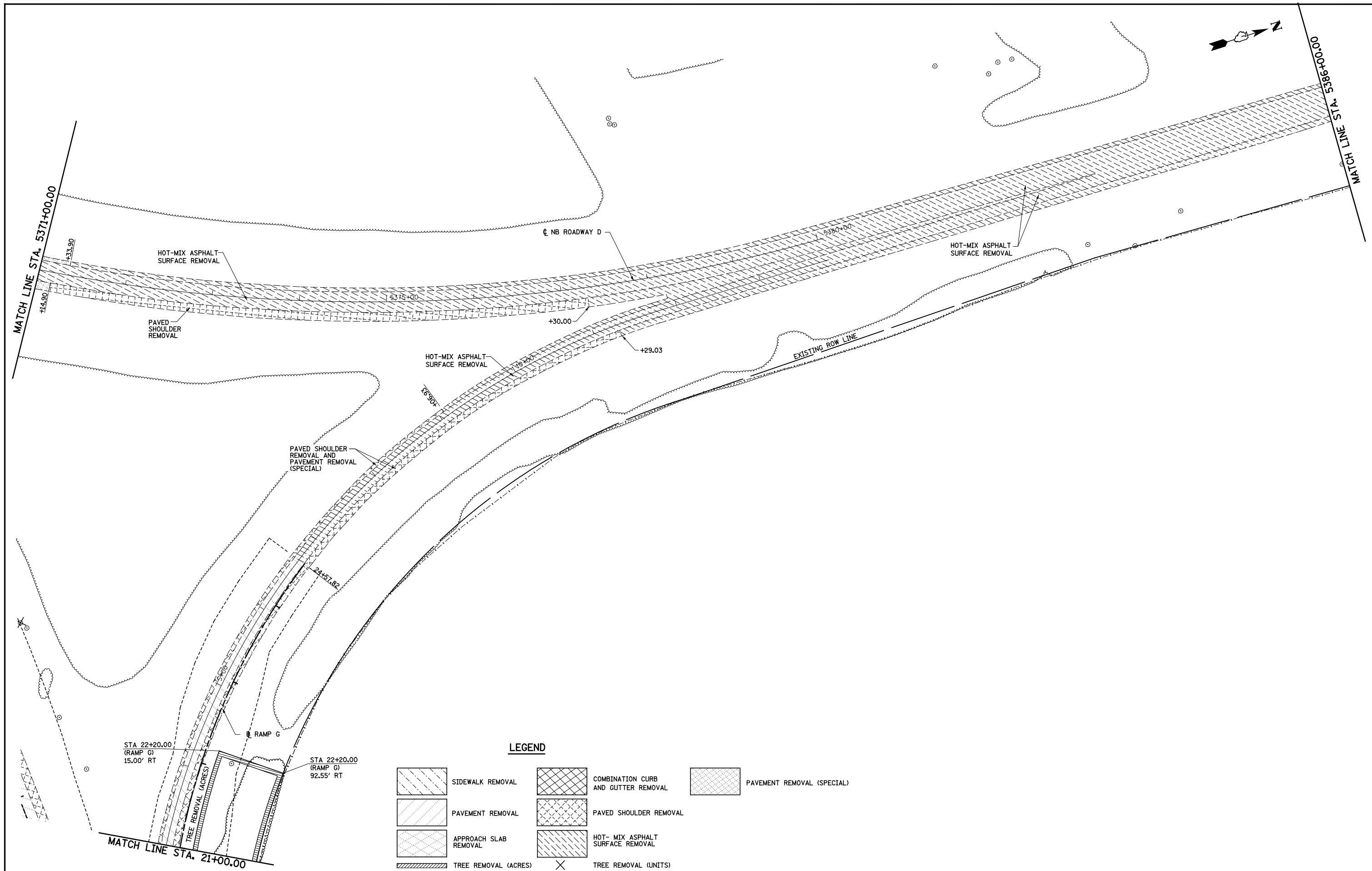
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

REMOVAL PLAN, RAMP F NORTH TRI LEVEL

SCALE: 1"=50' SHEET NO. 15 OF 16 SHEETS STA. 13+00.00 TO STA. 2384+36.39

F.A.I. RTE. 57/70	SECTION (25-4)R	COUNTY EFFINGHAM	TOTAL SHEETS 1760	SHEET NO. 497
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 74295	



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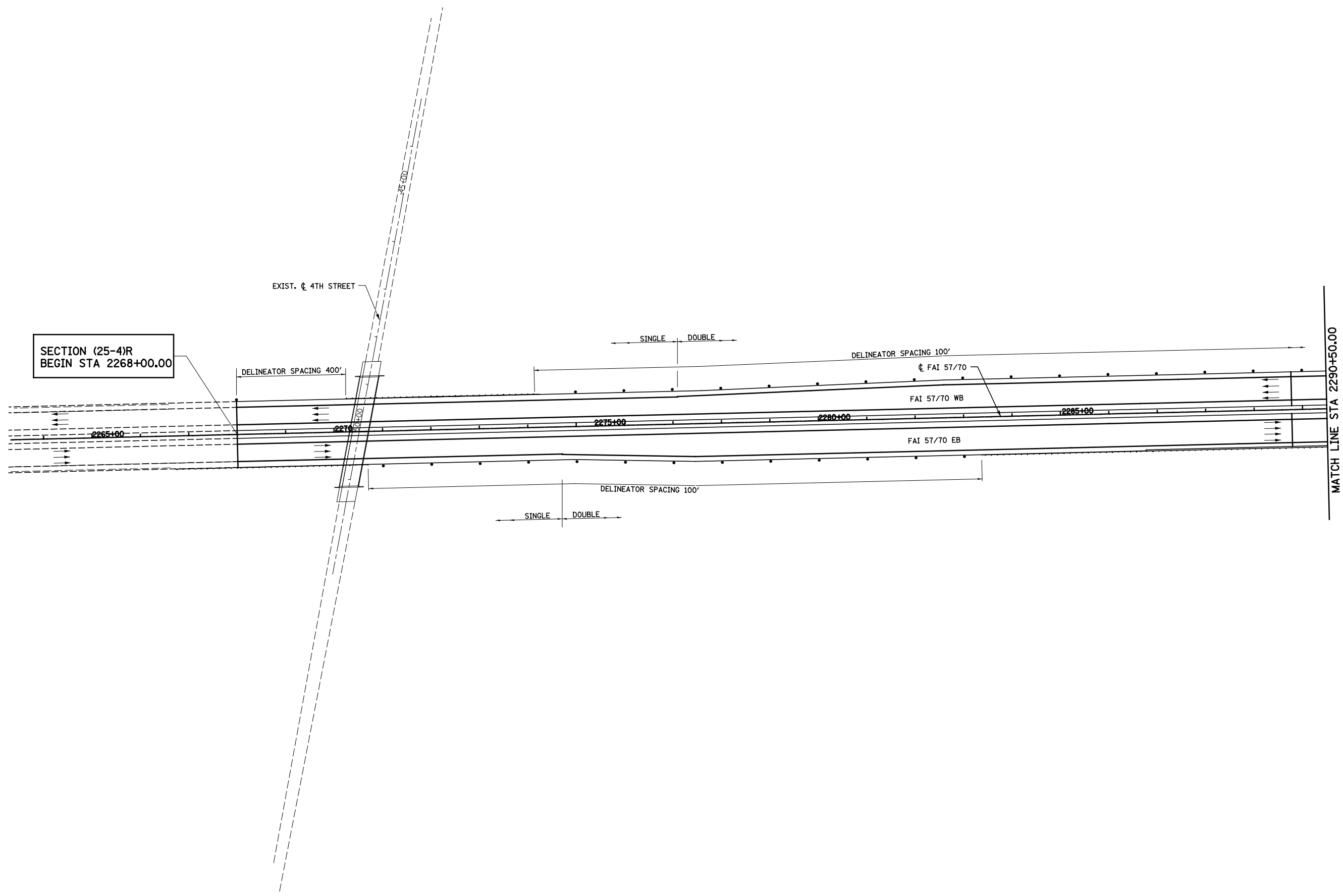
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

REMOVAL PLAN, RAMP G NORTH TRI LEVEL

SCALE: 1"=50' SHEET NO. 16 OF 16 SHEETS STA. 21+00.00 TO STA. 5386+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-4)R	EFFINGHAM	1760	498
CONTRACT NO. 74295				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



SECTION (25-4)R
BEGIN STA 2268+00.00

EXIST. 4TH STREET

DELINEATOR SPACING 400'

SINGLE DOUBLE

DELINEATOR SPACING 100'

FAI 57/70

FAI 57/70 WB

FAI 57/70 EB

MATCH LINE STA 2290+50.00

DELINEATOR SPACING 100'

SINGLE DOUBLE

LEGEND

DELINEATOR •

NOTE: FOR EXISTING ALIGNMENTS AND
CONTROLS PRESENTED ON THIS SHEET
SEE HORIZONTAL CONTROL SHEET



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	PLOT SCALE = \$SCALE\$	CHECKED - BRM	REVISED -		SCALE: 1"=100'	SHEET NO. 1 OF 6 SHEETS	STA. 2265+00.00 TO STA. 2290+50.00	CONTRACT NO. 74295				
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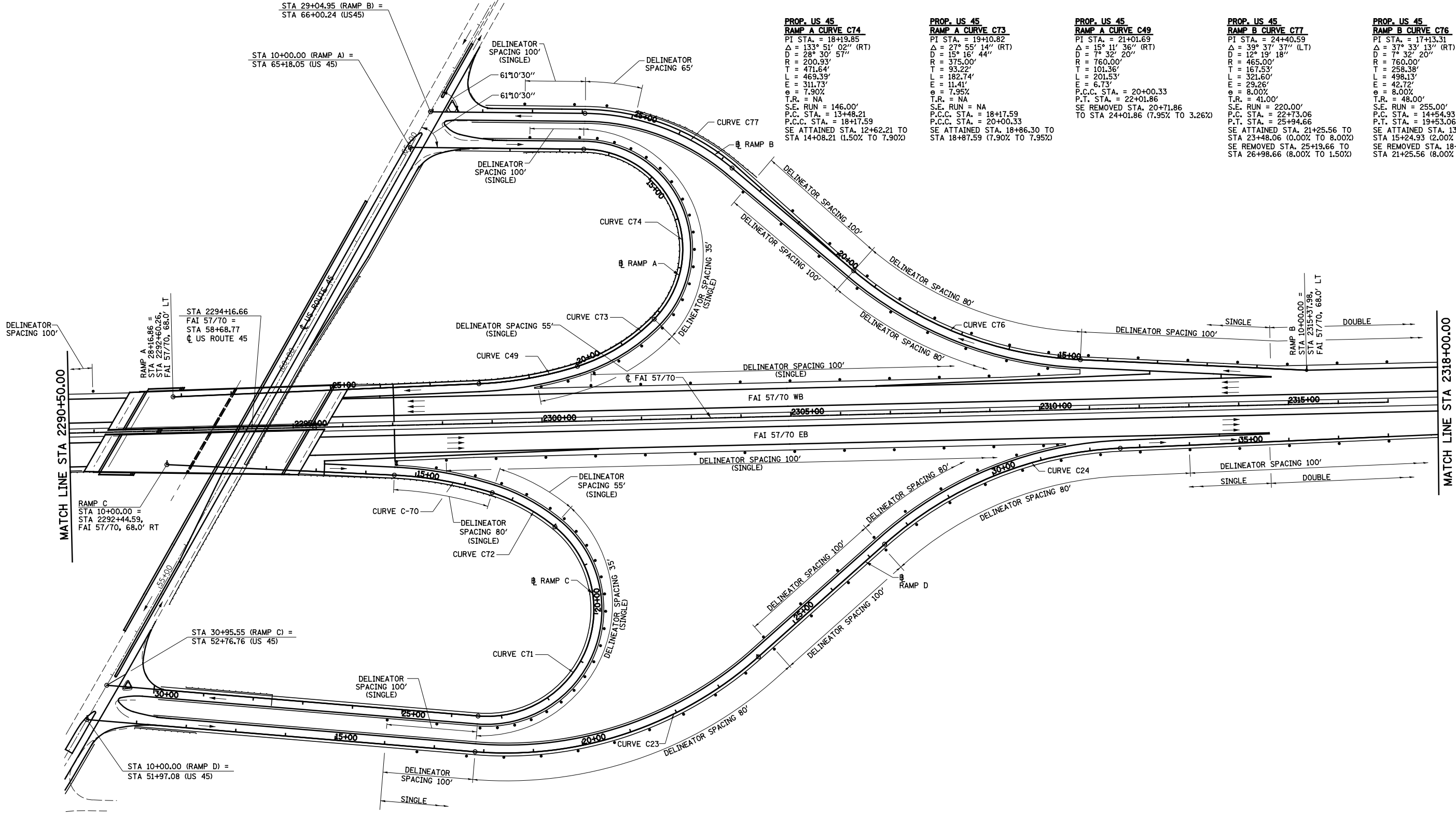
**PROP. US 45
RAMP A CURVE C74**
PI STA. = 18+19.85
 $\Delta = 133^\circ 51' 02''$ (RT)
D = 28° 30' 57"
R = 200.93'
T = 471.64'
L = 469.39'
E = 311.73'
e = 7.90%
T.R. = NA
S.E. RUN = 146.00'
P.C. STA. = 13+48.21
P.C.C. STA. = 18+17.59
SE ATTAINED STA. 12+62.21 TO STA 14+08.21 (1.50% TO 7.90%)

**PROP. US 45
RAMP A CURVE C73**
PI STA. = 19+10.82
 $\Delta = 27^\circ 55' 14''$ (RT)
D = 15° 16' 44"
R = 375.00'
T = 93.22'
L = 182.74'
E = 11.41'
e = 7.95%
T.R. = NA
S.E. RUN = NA
P.C. STA. = 18+17.59
P.C.C. STA. = 20+00.33
SE ATTAINED STA. 18+86.30 TO STA 18+87.59 (7.90% TO 7.95%)

**PROP. US 45
RAMP A CURVE C49**
PI STA. = 21+01.69
 $\Delta = 15^\circ 11' 36''$ (RT)
D = 7° 32' 20"
R = 760.00'
T = 101.36'
L = 201.53'
E = 6.73'
e = 8.00%
T.R. = NA
P.C.C. STA. = 20+00.33
P.T. STA. = 22+01.86
SE REMOVED STA. 20+71.86 TO STA 24+01.86 (7.95% TO 3.26%)

**PROP. US 45
RAMP B CURVE C77**
PI STA. = 24+40.59
 $\Delta = 39^\circ 37' 37''$ (LT)
D = 12° 19' 18"
R = 465.00'
T = 167.53'
L = 321.60'
E = 29.26'
e = 8.00%
T.R. = 41.00'
S.E. RUN = 220.00'
P.C. STA. = 22+73.06
P.T. STA. = 25+94.66
SE ATTAINED STA. 21+25.56 TO STA 23+48.06 (0.00% TO 8.00%)
SE REMOVED STA. 25+19.66 TO STA 26+98.66 (8.00% TO 1.50%)

**PROP. US 45
RAMP B CURVE C76**
PI STA. = 17+13.31
 $\Delta = 37^\circ 33' 13''$ (RT)
D = 7° 32' 20"
R = 760.00'
T = 258.38'
L = 498.13'
E = 42.72'
e = 8.00%
T.R. = 48.00'
S.E. RUN = 255.00'
P.C. STA. = 14+54.93
P.T. STA. = 19+53.06
SE ATTAINED STA. 13+14.82 TO STA 15+24.93 (2.00% TO 8.00%)
SE REMOVED STA. 18+68.06 TO STA 21+25.56 (8.00% TO 0.00%)



**PROP. US 45
RAMP C CURVE C-70**
PI STA. = 15+58.22
 $\Delta = 15^\circ 06' 14''$ (RT)
D = 7° 32' 20"
R = 760.00'
T = 100.76'
L = 200.35'
E = 6.65'
e = 8.00%
T.R. = NA
S.E. RUN = NA
P.C. STA. = 14+57.46
P.C.C. STA. = 16+57.81
SE ATTAINED STA. 13+16+37 TO STA 15+27.46 (2.00% TO 8.00%)

**PROP. US 45
RAMP C CURVE C72**
PI STA. = 17+30.86
 $\Delta = 21^\circ 45' 53''$ (RT)
D = 15° 04' 40"
R = 380.00'
T = 73.06'
L = 144.35'
E = 504.73'
e = 8.00%
T.R. = NA
S.E. RUN = NA
P.C.C. STA. = 16+57.81
P.C.C. STA. = 18+02.16
SE REMOVED STA. 17+37.16 TO STA 17+42.88 (8.00% TO 7.75%)

**PROP. US 45
RAMP C CURVE C71**
PI STA. = 24+89.03
 $\Delta = 145^\circ 14' 17''$ (RT)
D = 28° 38' 57"
R = 215.00'
T = 686.87'
L = 545.00'
E = 504.73'
e = 7.75%
T.R. = NA
S.E. RUN = 145.00'
P.C.C. STA. = 18+02.16
P.T. STA. = 23+47.16
SE REMOVED STA. 22+87.16 TO STA 24+32.16 (7.75% TO 1.50%)

**PROP. US 45
RAMP D CURVE C23**
PI STA. = 21+09.24
 $\Delta = 46^\circ 31' 26''$ (LT)
D = 7° 32' 20"
R = 760.00'
T = 326.71'
L = 617.12'
E = 67.25'
e = 8.00%
T.R. = 48.00'
S.E. RUN = 255.00'
P.C. STA. = 17+82.53
P.T. STA. = 23+99.65
SE ATTAINED STA. 16+60.53 TO STA 18+67.53 (1.50% TO 8.00%)
SE REMOVED STA. 23+14.65 TO STA 25+69.66 (8.00% TO 0.00%)

**PROP. US 45
RAMP D CURVE C24**
PI STA. = 30+11.02
 $\Delta = 39^\circ 17' 50''$ (RT)
D = 7° 32' 20"
R = 760.00'
T = 271.35'
L = 521.26'
E = 46.99'
e = 8.00%
T.R. = 48.00'
S.E. RUN = 255.00'
P.C. STA. = 27+39.67
P.T. STA. = 32+60.93
SE ATTAINED STA. 25+69.66 TO STA 28+24.67 (0.00% TO 8.00%)
SE REMOVED STA. 31+30.93 TO STA 34+60.93 (8.00% TO 3.26%)

LEGEND
DELINATOR

NOTE: FOR EXISTING ALIGNMENTS AND CONTROLS PRESENTED ON THIS SHEET SEE HORIZONTAL CONTROL SHEET



FILE NAME =	USER NAME = \$USER\$	DESIGNED - JWS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DELINATOR DETAIL FAI 57/70 AT US ROUTE 45		F.A.I. RTE. = 55/70	SECTION = (25-4R)	COUNTY = EFFINGHAM	TOTAL SHEETS = 1760	SHEET NO. = 500	
Sn\Projects\403-00072-57-70\dgn\W Tr\ILV\delinator.dgn	PLOT SCALE = \$SCALE\$	DRAWN - PDB	REVISED -		SCALE: 1"=100'	SHEET NO. 2 OF 6 SHEETS	STA. 2290+50.00 TO STA. 2318+00.00	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 74295		
	PLOT DATE = \$DATE\$	CHECKED - BRM	REVISED -									
		DATE - 5-25-08	REVISED -									