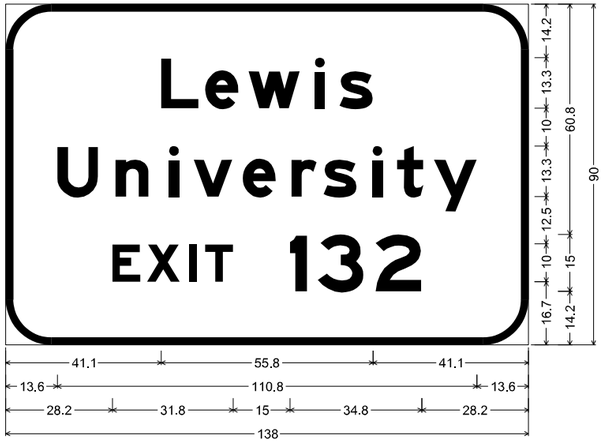


SIGN DETAIL

1:25

SIGN ID			WB-GM-7350
STRUCTURE NUMBER			-
SIZE (W x H)	EXIT PLAQUE		-
	MAIN PANEL		11'-6" x 7'-6"
MOUNTING / TYPE			GROUND / BREAKAWAY
MOUNTING LOCATION			LEFT
SHEETING / COLOR	BACKGROUND	TYPE:	REFLECTIVE - ZZ
		COLOR:	GREEN
		TYPE:	-
		COLOR:	-
	LEGEND / BORDER	TYPE:	REFLECTIVE - ZZ
		COLOR:	WHITE
		TYPE:	-
		COLOR:	-

12.0" Radius, 2.0" Border, White on Green;
"Lewis", E Mod 2K; "University", E Mod 2K;
"EXIT", E Mod 2K 120% spacing; "132", E Mod 2K;
Table of widths and spaces

	L		e		w		i		s	
41.1	9.8	1.8	8.8	2.6	13.6	3.9	2.7	3.8	8.8	41.1

	U		n		i		v		e		r		s		i		t		y	
13.6	10.8	4.5	8.8	5.4	2.6	3.9	10.3	2.6	8.8	4.2	6.6	1.8	8.8	4.1	2.7	3.8	7.0	2.8	11.3	13.6

	E		X		I		T		1		3		2	
28.2	7.4	1.6	8.7	2.6	2.0	2.1	7.4	15.0	4.5	2.9	12.1	3.2	12.1	28.2

DIMENSIONS ARE IN INCHES.TENTHS

SIGN DETAIL

1:25

SIGN ID			WB-OS-7420
STRUCTURE NUMBER			1S099I080L133.5
SIZE (W x H)	EXIT PLAQUE		-
	MAIN PANEL		15'-6" x 11'-0"
MOUNTING / TYPE			OVERHEAD / SPAN
MOUNTING LOCATION			LEFT
SHEETING / COLOR	BACKGROUND	TYPE:	REFLECTIVE - ZZ
		COLOR:	GREEN
		TYPE:	-
		COLOR:	-
	LEGEND / BORDER	TYPE:	REFLECTIVE - ZZ
		COLOR:	WHITE
		TYPE:	-
		COLOR:	-

12.0" Radius, 2.0" Border, White on Green;
"EXIT", E Mod 2K specified length; "131", E Mod 2K;

12.0" Radius, 2.0" Border, White on Green;
"Center St", E Mod 2K; "Meadow Ave", E Mod 2K; "1¼ MILES", E Mod 2K;
Table of widths and spaces

	E		X		I		T		1		3		1	
96.8	7.4	1.7	8.7	2.5	2.0	2.2	7.4	15.0	4.5	2.8	12.2	3.3	4.5	15.0

	C		e		n		t		e		r		S		t	
31.6	13.0	3.0	10.6	5.0	10.5	4.7	8.3	3.7	10.5	5.0	8.0	16.0	12.9	3.2	8.4	31.6

	M		e		a		d		o		w		A		v		e	
15.6	14.9	4.0	10.6	3.5	10.6	4.9	10.6	4.9	10.9	3.2	16.3	16.0	16.2	2.1	12.3	3.2	10.6	15.6

	1		¼		M		I		L		E		S	
48.9	4.5	5.4	20.1	15.0	9.3	2.8	2.0	2.8	7.4	1.6	7.4	1.8	8.1	48.9

DIMENSIONS ARE IN INCHES.TENTHS

MODEL: Sheet 7
FILE NAME: D162F94-01-sht-sign-details.dgn

Accurate GROUP, INC.

USER NAME = jploquinto	DESIGNED - JLS	REVISED -	
	DRAWN - JLS	REVISED -	
PLOT SCALE = 100.000 ' / in.	CHECKED - AB	REVISED -	
PLOT DATE = 10/28/2025	DATE - 10/31/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

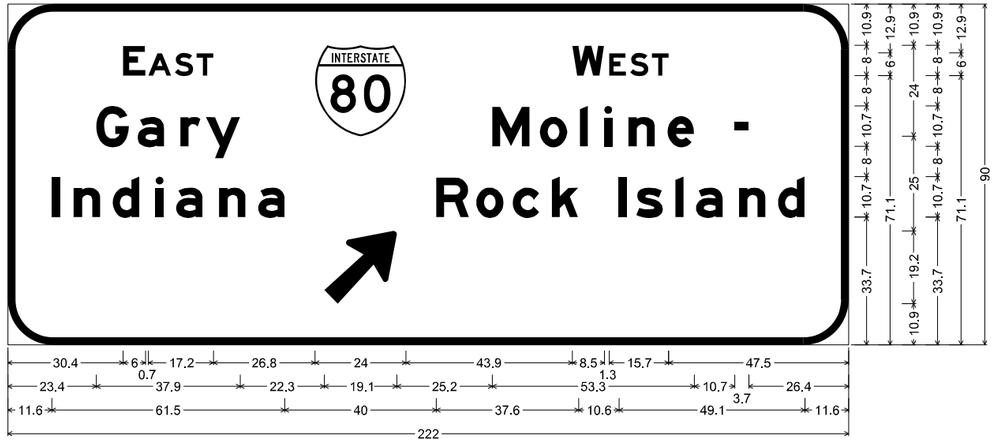
SIGN PANEL DETAILS

SCALE: NONE | SHEET 7 OF 11 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	501

CONTRACT NO. 62F94

ILLINOIS | FED. AID PROJECT



SIGN DETAIL
1:25

SIGN ID			NB-OC-2060
STRUCTURE NUMBER			1C099U052R132.0
SIZE (W x H)	EXIT PLAQUE		-
	MAIN PANEL		18'-6" x 7'-6"
MOUNTING / TYPE			OVERHEAD / CANTILEVER
MOUNTING LOCATION			RIGHT
SHEETING / COLOR	BACKGROUND	TYPE:	REFLECTIVE - ZZ
		COLOR:	GREEN
		TYPE:	-
		COLOR:	-
	LEGEND / BORDER	TYPE:	REFLECTIVE - ZZ
		COLOR:	WHITE
		TYPE:	-
		COLOR:	-

12.0" Radius, 2.0" Border, White on Green;
"EAST", E Mod 2K; "Gary", E Mod 2K; "Indiana", E Mod 2K; Arrow Custom - 24.3" 45°; "WEST", E Mod 2K;
"Moline -", E Mod 2K; "Rock Island", E Mod 2K;
Table of widths and spaces

	E		A		S		T		80		W		E		S		T	
30.4	6.0	0.7	6.1	0.9	4.8	0.9	4.5	26.8	24.0	43.9	8.5	1.3	4.4	1.1	4.9	0.9	4.4	47.5

	G		a		r		y		↗		M		o		l		i		n		e		-	
23.4	8.6	2.3	7.0	4.3	5.3	1.4	9.0	22.3	19.1	25.2	9.9	2.7	7.2	3.4	2.1	4.3	2.1	4.3	7.0	3.3	7.0	10.7	3.7	26.4

	I		n		d		i		a		n		a		R		o		c		k
11.6	2.1	3.6	7.1	3.3	7.0	4.3	2.1	3.3	7.1	4.2	7.1	3.3	7.0	40.0	8.7	1.9	7.2	2.4	7.0	3.3	7.1

	I		s		l		a		n		d	
10.6	2.2	2.4	7.1	3.3	2.1	3.3	7.1	4.2	7.1	3.3	7.0	11.6

DIMENSIONS ARE IN INCHES.TENTHS

SIGN DETAIL
1:25

SIGN ID			NB-GM-2080
STRUCTURE NUMBER			-
SIZE (W x H)	EXIT PLAQUE		-
	MAIN PANEL		14'-0" x 11'-6"
MOUNTING / TYPE			GROUND / BREAKAWAY
MOUNTING LOCATION			RIGHT
SHEETING / COLOR	BACKGROUND	TYPE:	REFLECTIVE - ZZ
		COLOR:	GREEN
		TYPE:	-
		COLOR:	-
	LEGEND / BORDER	TYPE:	REFLECTIVE - ZZ
		COLOR:	WHITE
		TYPE:	-
		COLOR:	-

12.0" Radius, 2.0" Border, White on Green;
"EAST", E Mod 2K; "Indiana", E Mod 2K; Arrow 80 - 25.0" 45°;

12.0" Radius, 2.0" Border, White on Green;
"WEST", E Mod 2K; "Moline -", E Mod 2K; "Rock Island", E Mod 2K; "TO", E Mod 2K; Arrow 80 - 25.0" 45°;
Table of widths and spaces

	80		E		A		S		T		↗	
29.5	24.0	8.0	5.9	0.8	6.0	0.9	4.9	0.9	4.4	40.4	19.7	22.6

	I		n		d		i		a		n		a	
26.6	2.2	3.6	7.0	3.3	7.1	4.3	2.1	3.3	7.0	4.3	7.0	3.3	7.1	79.8

	80		W		E		S		T		T		O		55	
30.1	24.0	8.0	8.5	1.2	4.5	1.1	4.8	0.9	4.5	25.9	4.4	0.9	5.0	10.0	24.0	10.2

	M		o		l		i		n		e		-		↗	
25.0	9.9	2.7	7.2	3.3	2.2	4.2	2.2	4.2	7.1	3.3	7.0	10.7	3.7	33.1	19.7	22.5

	R		o		c		k		I		s		l		a		n		d	
10.2	8.6	2.0	7.2	2.4	7.0	3.3	7.0	10.7	2.1	2.5	7.0	3.3	2.2	3.3	7.0	4.3	7.0	3.3	7.1	60.5

DIMENSIONS ARE IN INCHES.TENTHS

MODEL: Sheet 8
FILE NAME: D162F94-01-sht-sign-details.dgn

Accurate GROUP, INC.

USER NAME = jploquinto	DESIGNED - JLS	REVISED -
	DRAWN - JLS	REVISED -
PLOT SCALE = 100.000 ' / in.	CHECKED - AB	REVISED -
PLOT DATE = 10/28/2025	DATE - 10/31/2025	REVISED -

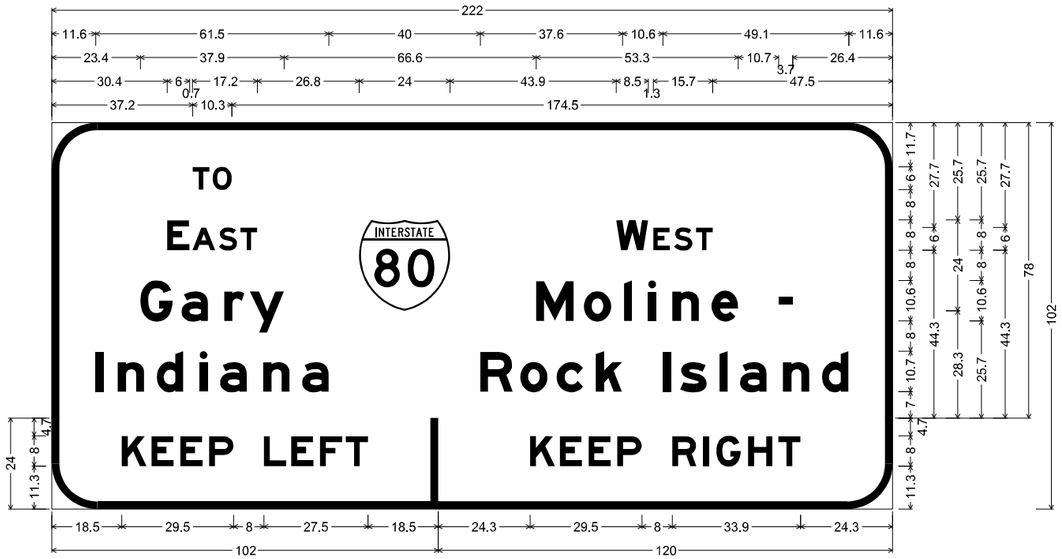
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGN PANEL DETAILS

SCALE: NONE | SHEET 8 OF 11 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	502

CONTRACT NO. 62F94
ILLINOIS | FED. AID PROJECT



SIGN DETAIL

1:25

SIGN ID			RB-GM-8070
STRUCTURE NUMBER			-
SIZE (W x H)	EXIT PLAQUE		-
	MAIN PANEL		18'-6" x 8'-6"
MOUNTING / TYPE			GROUND / BREAKAWAY
MOUNTING LOCATION			RIGHT
SHEETING / COLOR	BACKGROUND	TYPE:	REFLECTIVE - ZZ
		COLOR:	GREEN
		TYPE:	-
		COLOR:	-
	LEGEND / BORDER	TYPE:	REFLECTIVE - ZZ
		COLOR:	WHITE
		TYPE:	-
		COLOR:	-

12.0" Radius, 2.0" Border, White on Green;
"TO", E Mod 2K; "EAST", E Mod 2K; "Gary", E Mod 2K; "Indiana", E Mod 2K; "WEST", E Mod 2K; "Moline -", E Mod 2K;
"Rock Island", E Mod 2K;

12.0" Radius, 2.0" Border, White on Green;
"KEEP LEFT", E Mod 2K;

12.0" Radius, 2.0" Border, White on Green;
"KEEP RIGHT", E Mod 2K;
Table of widths and spaces

	T		O	
37.2	4.4	0.9	5.0	174.5

	E		A		S		T		80		W		E		S		T	
30.4	6.0	0.7	6.1	0.9	4.8	0.9	4.5	26.8	24.0	43.9	8.5	1.3	4.4	1.1	4.9	0.9	4.4	47.5

	G		a		r		y		M		o		l		i		n		e		-	
23.4	8.6	2.3	7.0	4.3	5.3	1.4	9.0	66.6	9.9	2.7	7.2	3.4	2.1	4.3	2.1	4.3	7.0	3.3	7.0	10.7	3.7	26.4

	I		n		d		i		a		n		a		R		o		c		k
11.6	2.1	3.6	7.1	3.3	7.0	4.3	2.1	3.3	7.1	4.2	7.1	3.3	7.0	40.0	8.7	1.9	7.2	2.4	7.0	3.3	7.1

	I		s		l		a		n		d	
10.6	2.2	2.4	7.1	3.3	2.1	3.3	7.1	4.2	7.1	3.3	7.0	11.6

	K		E		E		P		L		E		F		T	
18.5	6.5	1.3	5.9	1.7	5.9	1.7	6.5	8.0	5.9	1.3	5.9	1.7	5.9	0.9	5.9	138.5

	K		E		E		P		R		I		G		H		T	
126.3	6.5	1.3	5.9	1.7	5.9	1.7	6.5	8.0	6.5	1.7	1.6	1.9	6.5	1.9	6.5	1.4	5.9	24.3

DIMENSIONS ARE IN INCHES.TENTHS

SIGN DETAIL

1:25

SIGN ID			SB-GM-2091
STRUCTURE NUMBER			-
SIZE (W x H)	EXIT PLAQUE		-
	MAIN PANEL		11'-0" x 7'-6"
MOUNTING / TYPE			GROUND / BREAKAWAY
MOUNTING LOCATION			LEFT
SHEETING / COLOR	BACKGROUND	TYPE:	REFLECTIVE - ZZ
		COLOR:	GREEN
		TYPE:	-
		COLOR:	-
	LEGEND / BORDER	TYPE:	REFLECTIVE - ZZ
		COLOR:	WHITE
		TYPE:	-
		COLOR:	-

12.0" Radius, 2.0" Border, White on Green;
"EAST", E Mod 2K; "Gary Indiana", E Mod 2K; Arrow Custom - 24.3" 0°;
Table of widths and spaces

	80		E		A		S		T	
37.1	24.0	10.0	5.9	0.8	6.0	0.9	4.9	0.9	4.4	37.1

	G		a		r		y
10.9	8.6	2.3	7.0	4.3	5.3	1.4	9.1

	I		n		d		i		a		n		a	
10.6	2.2	3.6	7.0	3.4	7.0	4.3	2.1	3.3	7.0	4.3	7.0	3.4	7.0	10.9

	➔	
53.9	24.2	53.9

DIMENSIONS ARE IN INCHES.TENTHS

MODEL: Sheet 9
FILE NAME: D162F94-01-sht-sign-details.dgn

Accurate
GROUP, INC.

USER NAME = jpioquinto	DESIGNED - JLS	REVISED -	
	DRAWN - JLS	REVISED -	
PLOT SCALE = 100.000 ' / in.	CHECKED - AB	REVISED -	
PLOT DATE = 10/28/2025	DATE - 10/31/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

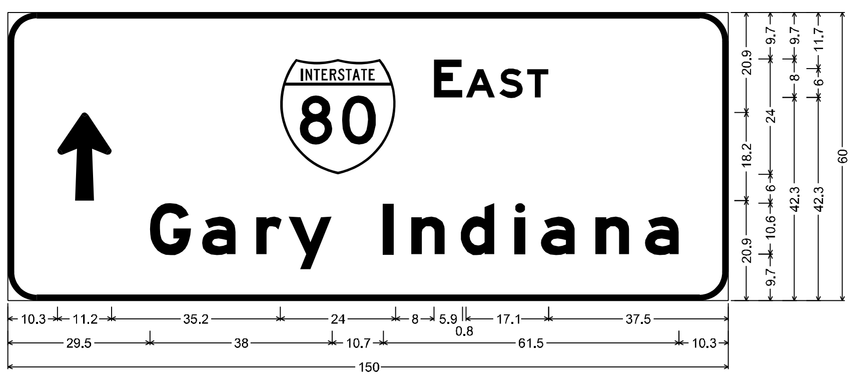
SIGN PANEL DETAILS

SCALE: NONE | SHEET 9 OF 11 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	503
		CONTRACT NO. 62F94		
	ILLINOIS	FED. AID PROJECT		

SIGN DETAIL
1:20

SIGN ID		SB-OS-2200	
STRUCTURE NUMBER		1S099S052L132.0	
SIZE (W x H)	EXIT PLAQUE	-	
	MAIN PANEL	12'-6" x 5'-0"	
MOUNTING / TYPE		OVERHEAD / SPAN	
MOUNTING LOCATION		LEFT	
SHEETING / COLOR	BACKGROUND	TYPE:	REFLECTIVE - ZZ
		COLOR:	GREEN
		TYPE:	-
		COLOR:	-
	LEGEND / BORDER	TYPE:	REFLECTIVE - ZZ
		COLOR:	WHITE
		TYPE:	-
		COLOR:	-



6.0" Radius, 1.3" Border, White on Green;
Arrow Custom - 18.3" 90°; "EAST", E Mod 2K; "Gary Indiana", E Mod 2K;
Table of widths and spaces

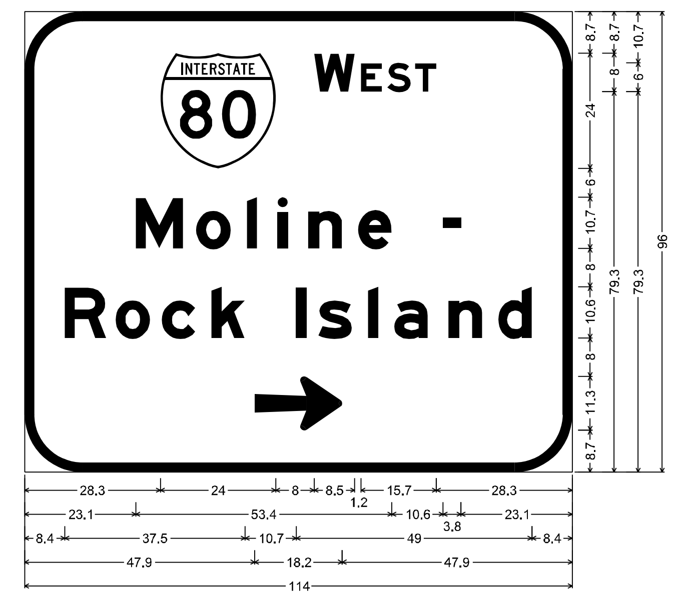
	⇧		80		E		A		S		T	
10.3	11.2	35.2	24.0	8.0	5.9	0.8	6.0	0.9	4.9	0.9	4.4	37.5

	G		a		r		y		I		n		d		i		a		n		a	
29.5	8.7	2.2	7.1	4.2	5.4	1.3	9.1	10.7	2.1	3.6	7.1	3.3	7.0	4.3	2.1	3.3	7.1	4.2	7.1	3.3	7.0	10.3

DIMENSIONS ARE IN INCHES.TENTHS

SIGN DETAIL
1:20

SIGN ID		SB-OS-2201	
STRUCTURE NUMBER		1S099S052L132.0	
SIZE (W x H)	EXIT PLAQUE	-	
	MAIN PANEL	9'-6" x 8'-0"	
MOUNTING / TYPE		OVERHEAD / SPAN	
MOUNTING LOCATION		LEFT	
SHEETING / COLOR	BACKGROUND	TYPE:	REFLECTIVE - ZZ
		COLOR:	GREEN
		TYPE:	-
		COLOR:	-
	LEGEND / BORDER	TYPE:	REFLECTIVE - ZZ
		COLOR:	WHITE
		TYPE:	-
		COLOR:	-



12.0" Radius, 2.0" Border, White on Green;
"WEST", E Mod 2K; "Moline -", E Mod 2K; "Rock Island", E Mod 2K;
Arrow Custom - 18.3" 0°;
Table of widths and spaces

	80		W		E		S		T	
28.3	24.0	8.0	8.5	1.2	4.4	1.1	4.9	0.9	4.4	28.3

	M		o		l		i		n		e		-	
23.1	10.0	2.6	7.3	3.3	2.1	4.3	2.1	4.3	7.0	3.3	7.1	10.6	3.8	23.1

	R		o		c		k
8.4	8.6	1.9	7.3	2.3	7.1	3.3	7.0

	I		s		l		a		n		d	
10.7	2.1	2.5	7.0	3.3	2.1	3.3	7.1	4.3	7.0	3.3	7.0	8.4

	⇨	
47.9	18.2	47.9

DIMENSIONS ARE IN INCHES.TENTHS

MODEL: Sheet 10
FILE NAME: D162F94-01-sht-sign-details.dgn

Accurate GROUP, INC.

USER NAME = jploquinto	DESIGNED - JLS	REVISED -
	DRAWN - JLS	REVISED -
PLOT SCALE = 100.000 ' / in.	CHECKED - AB	REVISED -
PLOT DATE = 10/28/2025	DATE - 10/31/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGN PANEL DETAILS

SCALE: NONE | SHEET 10 OF 11 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	504

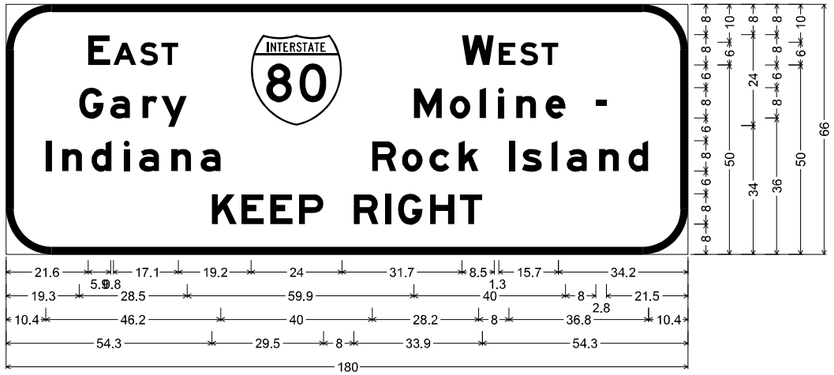
CONTRACT NO. 62F94

ILLINOIS | FED. AID PROJECT

SIGN DETAIL

1:25

SIGN ID		SB-GM-2240	
STRUCTURE NUMBER		-	
SIZE (W x H)	EXIT PLAQUE	-	
	MAIN PANEL	15'-0" x 5'-6"	
MOUNTING / TYPE		GROUND / BREAKAWAY	
MOUNTING LOCATION		LEFT	
SHEETING / COLOR	BACKGROUND	TYPE:	REFLECTIVE - ZZ
		COLOR:	GREEN
		TYPE:	-
		COLOR:	-
	LEGEND / BORDER	TYPE:	REFLECTIVE - ZZ
		COLOR:	WHITE
		TYPE:	-
		COLOR:	-



12.0" Radius, 2.0" Border, White on Green;
"EAST", E Mod 2K; "Gary", E Mod 2K; "Indiana", E Mod 2K; "WEST", E Mod 2K;
"Moline -", E Mod 2K; "Rock Island", E Mod 2K; "KEEP RIGHT", E Mod 2K;
Table of widths and spaces

	E		A		S		T		80		W		E		S		T	
21.6	5.9	0.8	6.0	0.9	4.9	0.9	4.4	19.2	24.0	31.7	8.5	1.3	4.4	1.1	4.9	0.9	4.4	34.2

	G		a		r		y		M		o		l		i		n		e		-	
19.3	6.5	1.6	5.3	3.2	4.0	1.1	6.8	59.9	7.4	2.0	5.5	2.4	1.6	3.2	1.6	3.2	5.3	2.5	5.3	8.0	2.8	21.5

	I		n		d		i		a		n		a		R		o		c		k
10.4	1.6	2.8	5.2	2.5	5.3	3.2	1.6	2.5	5.3	3.2	5.2	2.5	5.3	40.0	6.5	1.4	5.5	1.7	5.3	2.5	5.3

	I		s		l		a		n		d	
8.0	1.6	1.8	5.3	2.5	1.6	2.4	5.3	3.2	5.3	2.5	5.3	10.4

	K		E		E		P		R		I		G		H		T	
54.3	6.5	1.3	5.9	1.7	5.9	1.7	6.5	8.0	6.5	1.7	1.6	1.9	6.5	1.9	6.5	1.4	5.9	54.3

DIMENSIONS ARE IN INCHES.TENTHS

MODEL: Sheet 11
FILE NAME: D162F94-01-sht-sign-details.dgn

Accurate
GROUP, INC.

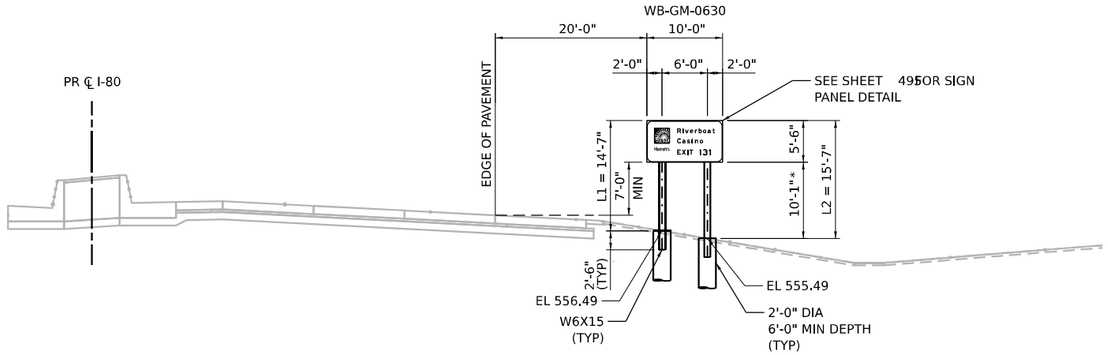
USER NAME = jpioquinto	DESIGNED - JLS	REVISED -	
	DRAWN - JLS	REVISED -	
PLOT SCALE = 100.000 ' / in.	CHECKED - AB	REVISED -	
PLOT DATE = 10/28/2025	DATE - 10/31/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

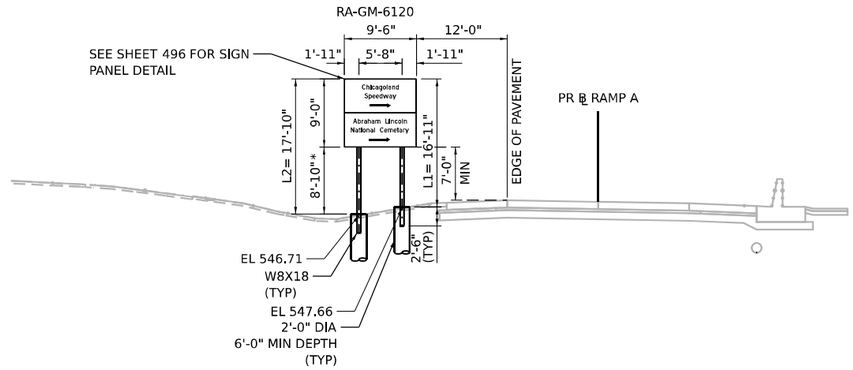
SIGN PANEL DETAILS

SCALE: NONE | SHEET 11 OF 11 SHEETS | STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	505
		CONTRACT NO. 62F94		
	ILLINOIS	FED. AID PROJECT		



PROPOSED SIGN WB-GM-0630
MOUNTING DETAIL
STRUCTURAL STEEL BREAKAWAY SIGNPOSTS
WB I-80, STA. 63+60
(LOOKING WEST)



PROPOSED SIGN RA-GM-6120
MOUNTING DETAIL
STRUCTURAL STEEL BREAKAWAY SIGNPOSTS
CHICAGO ST RAMP A, STA. 612+10
(LOOKING EAST)

NOTES:
1. THEORETICAL MINIMUM SIGN DESIGN HEIGHT USED
2. * CLEAR HEIGHT

MODEL: Default
FILE NAME: D162F94-01-sht-sign mounting-01.dgn

Accurate GROUP, INC.

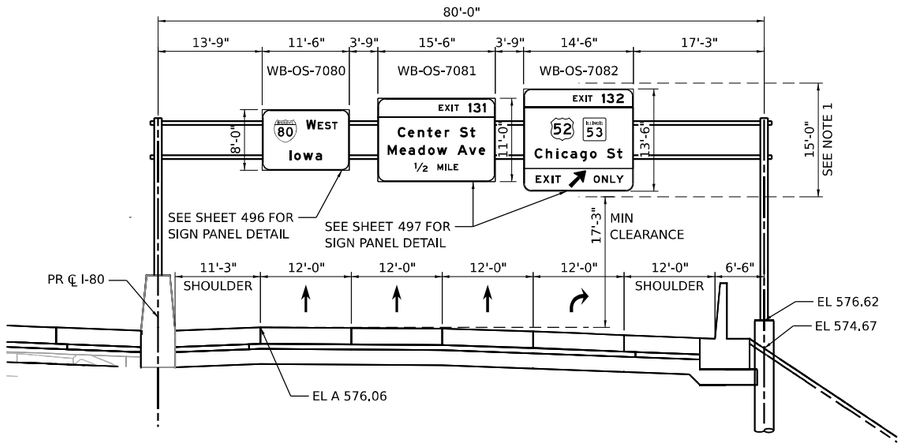
USER NAME = jploquinto	DESIGNED - JLS	REVISED -	
	DRAWN - JLS	REVISED -	
PLOT SCALE = 20.000 ' / in.	CHECKED - AB	REVISED -	
PLOT DATE = 10/29/2025	DATE - 10/31/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGN MOUNTING DETAILS

SCALE: NONE | SHEET 1 OF 5 SHEETS | STA. | TO STA.

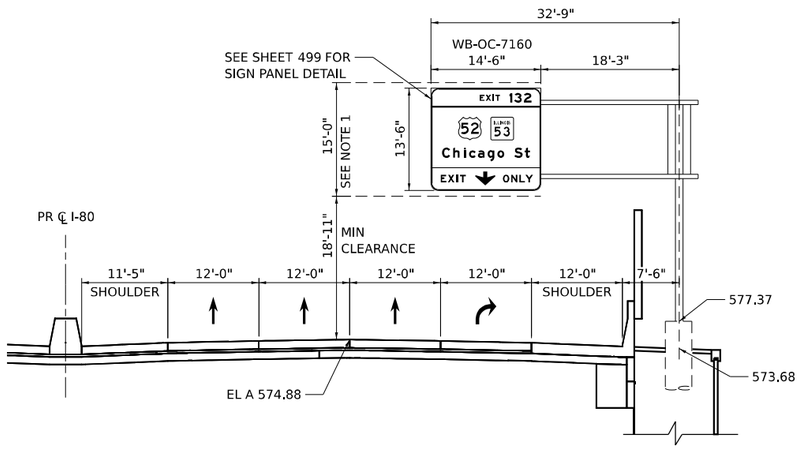
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	506
		CONTRACT NO. 62F94		
	ILLINOIS	FED. AID PROJECT		



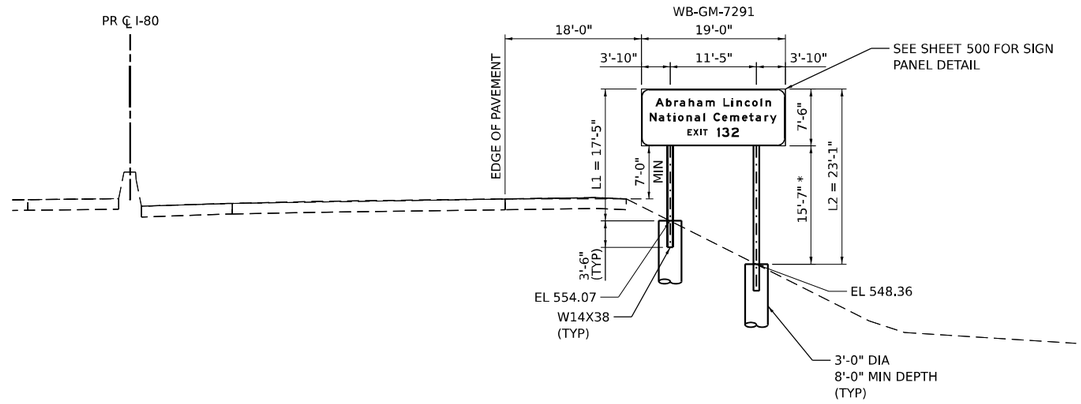
STRUCTURE 1S099I080L132.0
MOUNTING DETAIL
PROPOSED OVERHEAD SIGN STRUCTURE - SPAN
WB I-80, STA. 708+50
(LOOKING WEST)

NOTES:

1. THEORETICAL MINIMUM SIGN DESIGN HEIGHT USED
2. * CLEAR HEIGHT



STRUCTURE 1C099I080L133.0
PROPOSED MOUNTING DETAIL
PROPOSED OVERHEAD SIGN STRUCTURE - CANTILEVER
WB I-80, STA. 716+60
(LOOKING WEST)



PROPOSED SIGN WB-GM-7291
MOUNTING DETAIL
STRUCTURAL STEEL BREAKAWAY SIGNPOSTS
WB I-80, STA. 729+05
(LOOKING WEST)

MODEL: Default
FILE NAME: D162F94-01-sht-sdgn mounting-02.dgn

Accurate GROUP, INC.

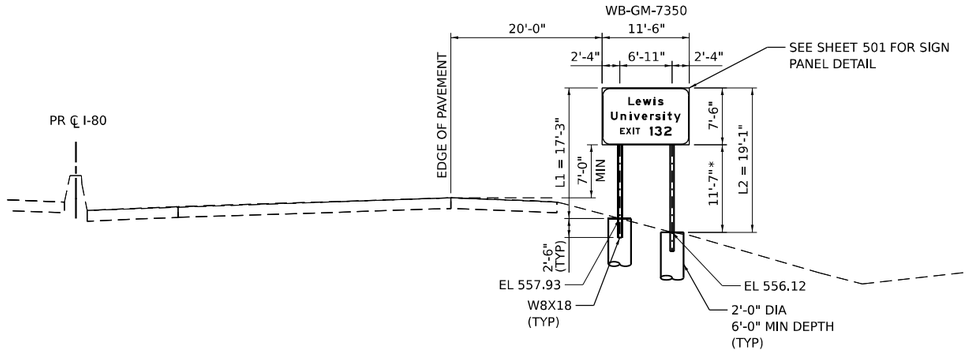
USER NAME = jploquinto	DESIGNED - JLS	REVISED -	
	DRAWN - JLS	REVISED -	
PLOT SCALE = 20.000 ' / in.	CHECKED - AB	REVISED -	
PLOT DATE = 10/29/2025	DATE - 10/31/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

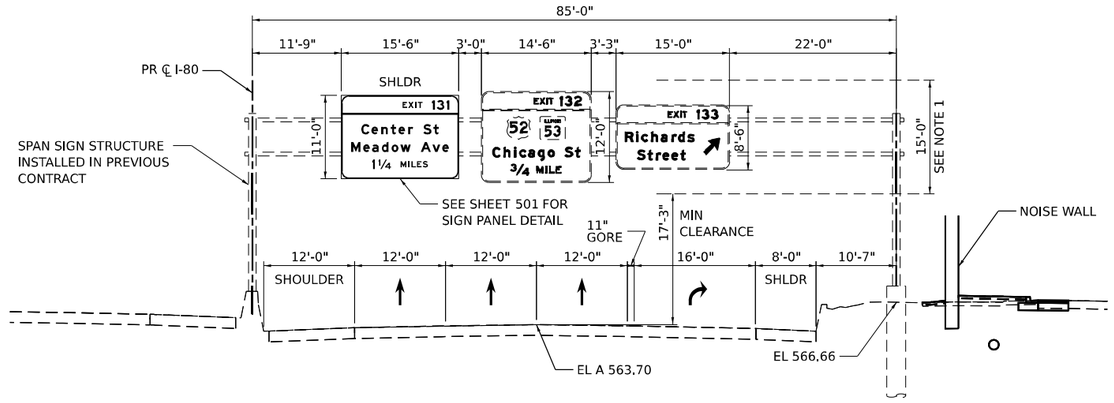
SIGN MOUNTING DETAILS

SCALE: NONE | SHEET 2 OF 5 SHEETS | STA. | TO STA.

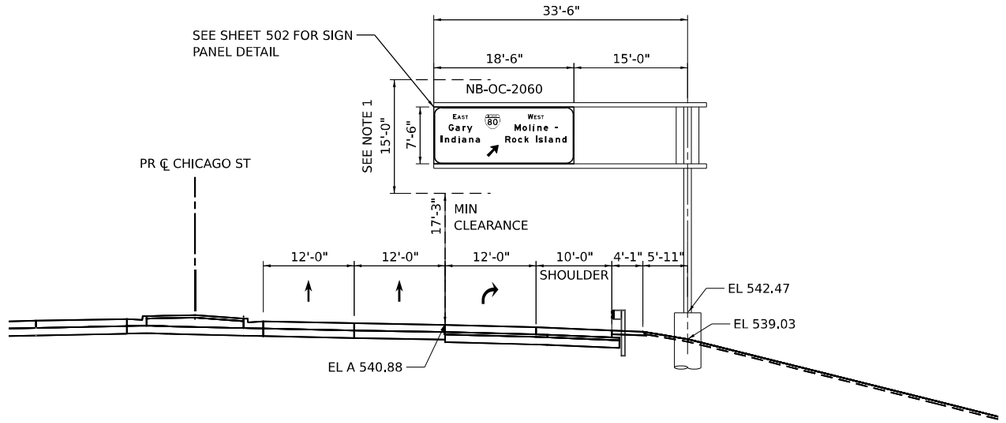
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	507
		CONTRACT NO. 62F94		
	ILLINOIS FED. AID PROJECT			



PROPOSED SIGN WB-GM-7350
MOUNTING DETAIL
STRUCTURAL STEEL BREAKAWAY SIGNPOSTS
WB I-80, STA. 735+15
(LOOKING WEST)



STRUCTURE 1S099I080L133.5
PROPOSED MOUNTING DETAIL
EXISTING OVERHEAD SIGN STUCTURE - SPAN
WB I-80, STA. 742+60
(LOOKING WEST)



STRUCTURE 1C099U052R132.0
PROPOSED MOUNTING DETAIL
PROPOSED OVERHEAD SIGN STRUCTURE - CANTILEVER
NB CHICAGO ST (US 52), STA. 206+56
(LOOKING NORTH)

NOTES:

1. THEORETICAL MINIMUM SIGN DESIGN HEIGHT USED
2. * CLEAR HEIGHT

MODEL: Default
FILE NAME: D162F94-01-sht-sign mounting-03.dgn

Accurate GROUP, INC.

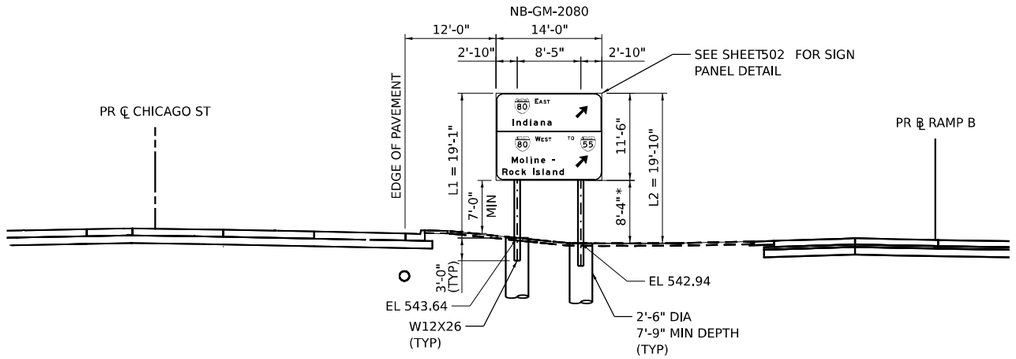
USER NAME = jpioquinto	DESIGNED - JLS	REVISED -	
	DRAWN - JLS	REVISED -	
PLOT SCALE = 20.000 ' / in.	CHECKED - AB	REVISED -	
PLOT DATE = 10/29/2025	DATE - 10/31/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

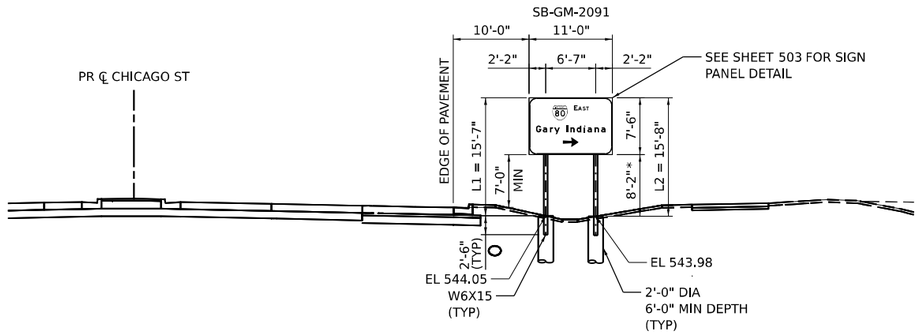
SIGN MOUNTING DETAILS

SCALE: NONE | SHEET 3 OF 5 SHEETS | STA. | TO STA.

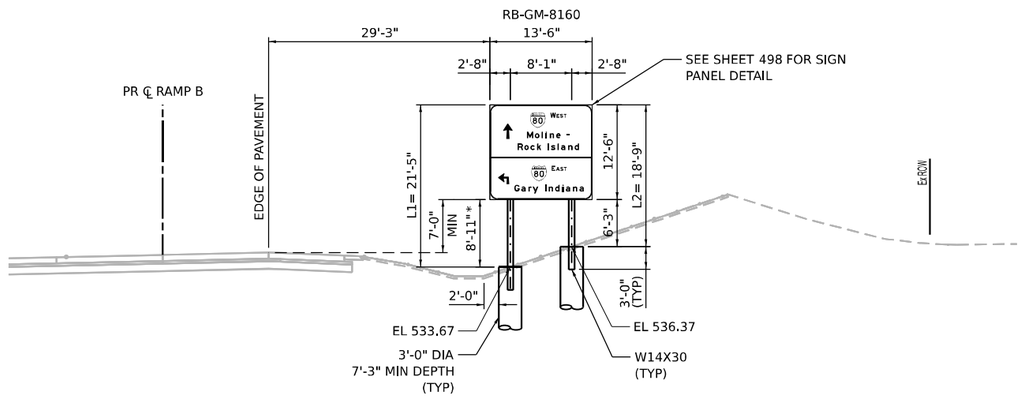
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	508
		CONTRACT NO. 62F94		
	ILLINOIS	FED. AID PROJECT		



PROPOSED SIGN NB-GM-2080
MOUNTING DETAIL
STRUCTURAL STEEL BREAKAWAY SIGNPOSTS
NB CHICAGO ST (US 52), STA. 208+30.00
(LOOKING NORTH)



PROPOSED SIGN SB-GM-2091
MOUNTING DETAIL
STRUCTURAL STEEL BREAKAWAY SIGNPOSTS
SB CHICAGO ST (US 52), STA. 209+52.00
(LOOKING SOUTH)



PROPOSED SIGN RB-GM-8160
MOUNTING DETAIL
STRUCTURAL STEEL BREAKAWAY SIGNPOSTS
CHICAGO ST RAMP B, STA. 816+40.00
(LOOKING WEST)

NOTES:

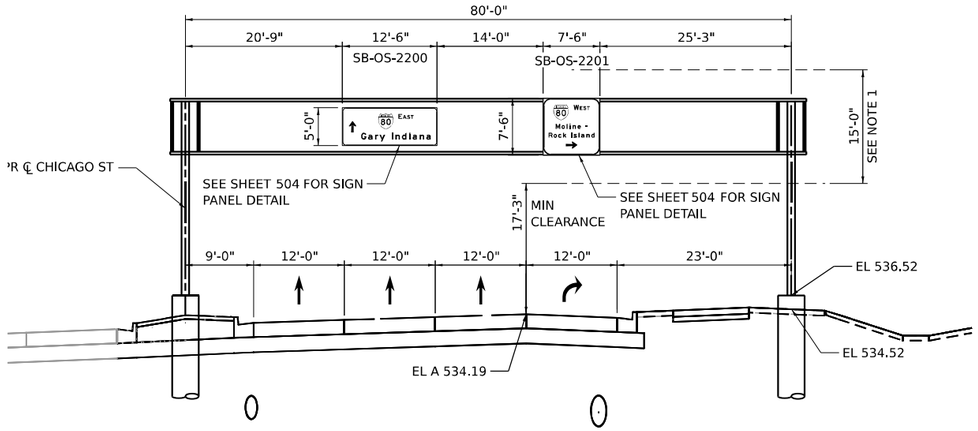
1. THEORETICAL MINIMUM SIGN DESIGN HEIGHT USED
2. * CLEAR HEIGHT

MODEL: Default
FILE NAME: D162F94-01-sht-sign mounting-04.dgn

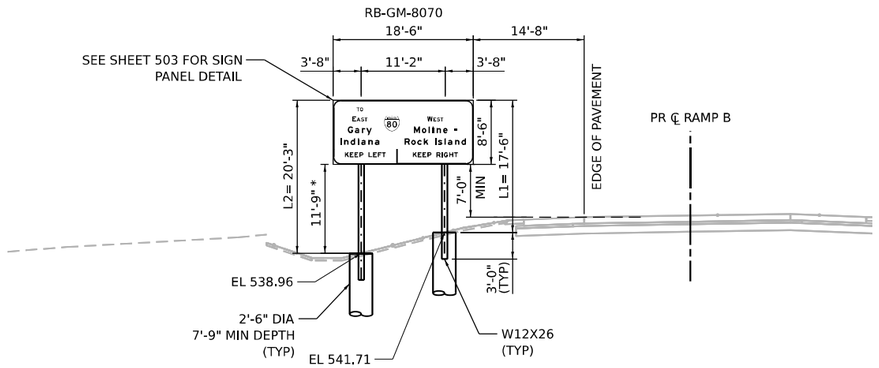
Accurate GROUP, INC.

USER NAME = jpioquinto	DESIGNED - JLS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SIGN MOUNTING DETAILS	
	DRAWN - JLS	REVISED -			
PLOT SCALE = 20.000 ' / in.	CHECKED - AB	REVISED -		SCALE: NONE	SHEET 4 OF 5 SHEETS STA. TO STA.
PLOT DATE = 10/29/2025	DATE - 10/31/2025	REVISED -			

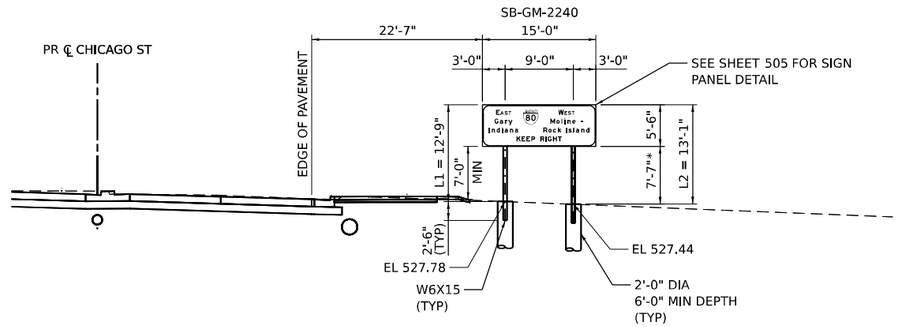
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	509
		CONTRACT NO. 62F94		
	ILLINOIS FED. AID PROJECT			



STRUCTURE 1S099U052L132.0
MOUNTING DETAIL
PROPOSED OVERHEAD SIGN STRUCTURE - SPAN
SB CHICAGO ST (US 52), STA. 220+00.00
(LOOKING SOUTH)



PROPOSED SIGN RB-GM-8070
MOUNTING DETAIL
STRUCTURAL STEEL BREAKAWAY SIGNPOSTS
CHICAGO ST RAMP B, STA. 807+00
(LOOKING NORTH)



PROPOSED SIGN SB-GM-2240
MOUNTING DETAIL
STRUCTURAL STEEL BREAKAWAY SIGNPOSTS
SB CHICAGO ST (US 52), STA. 224+00.00
(LOOKING SOUTH)

NOTES:

1. THEORETICAL MINIMUM SIGN DESIGN HEIGHT USED
2. * CLEAR HEIGHT

MODEL: Default
FILE NAME: D162F94-01-sht-sign mounting-05.dgn

Accurate GROUP, INC.

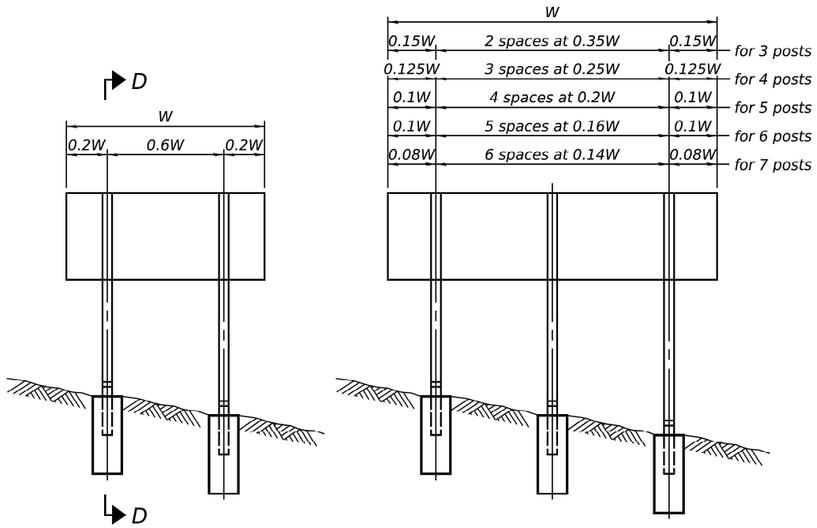
USER NAME = jploquinto	DESIGNED - JLS	REVISED -	
	DRAWN - JLS	REVISED -	
PLOT SCALE = 20.000 ' / in.	CHECKED - AB	REVISED -	
PLOT DATE = 10/29/2025	DATE - 10/31/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

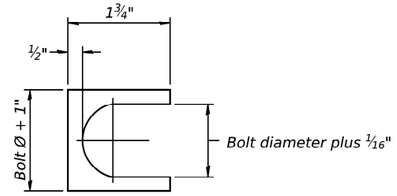
SIGN MOUNTING DETAILS

SCALE: NONE | SHEET 5 OF 5 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	510
		CONTRACT NO. 62F94		
	ILLINOIS	FED. AID PROJECT		

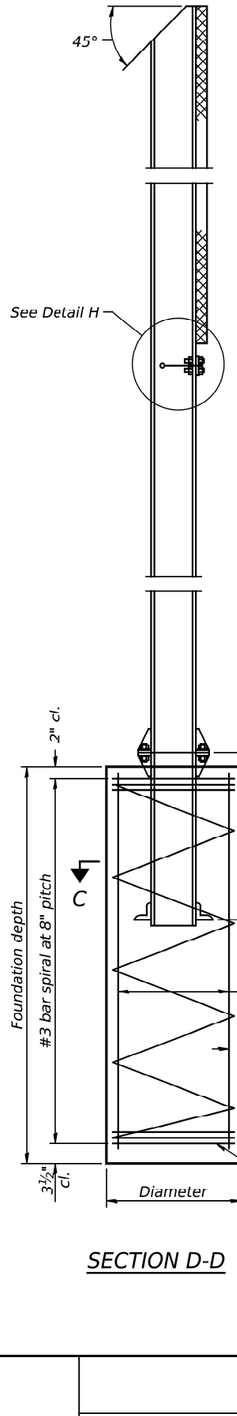


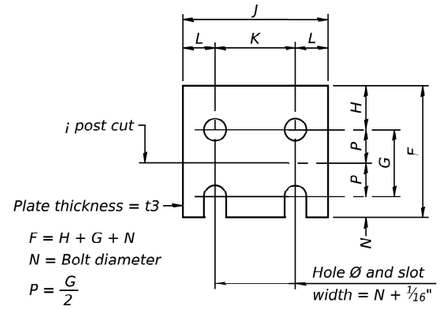
ELEVATION



SHIM DETAIL

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

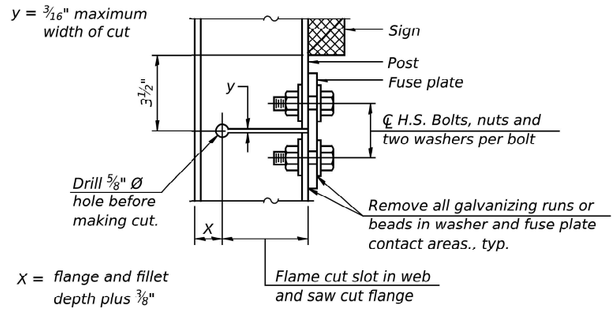




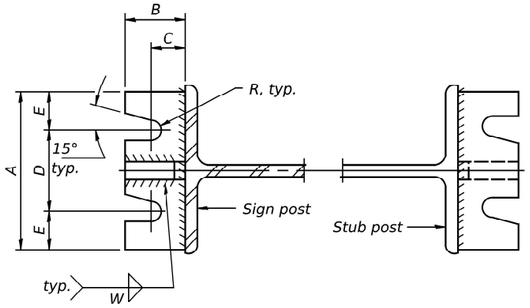
FUSE PLATE DATA		
N = Bolt Diameter	G	H
½"	2"	1⅛"
⅝"	2¼"	1¼"
¾"	2½"	1⅜"
⅞"	2¾"	1½"
1"	3"	1⅝"
1⅛"	3¼"	1¾"
1¼"	3½"	1⅞"

FUSE PLATE DETAIL

(Install with notches down.)

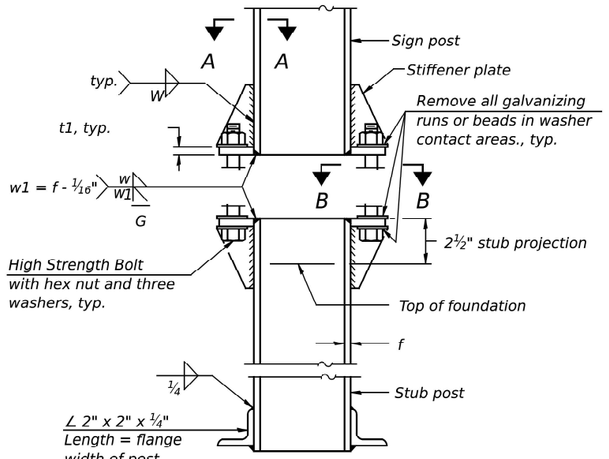


DETAIL H

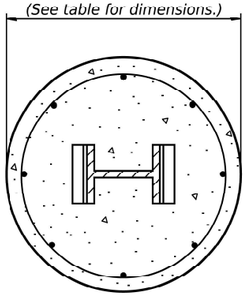


SECTION A-A

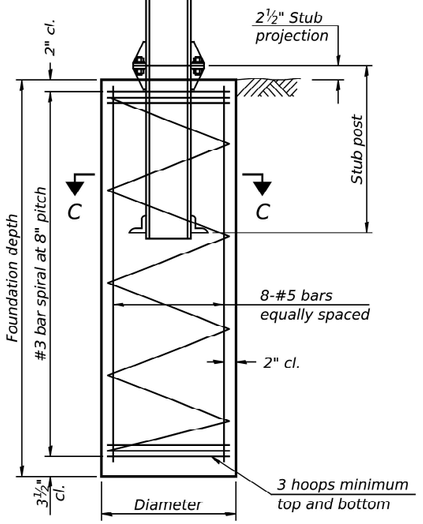
SECTION B-B



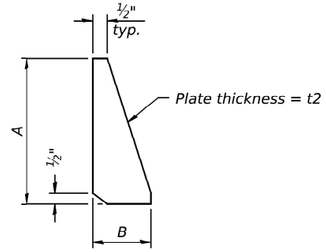
ELEVATION SIGN POST & STUB POST



SECTION C-C



SECTION D-D



STIFFENER PLATE DETAIL

Diameter

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 5-15-2023

MODEL: BAW-A-1
FILE NAME: D162F94-01-stlt-sign-standards.dgn

Accurate GROUP, INC.

USER NAME = $USER$	DESIGNED -	REVISED -
	CHECKED -	REVISED -
PLOT SCALE = $SCALE$	DRAWN -	REVISED -
PLOT DATE = $DATE$	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BREAK-AWAY WIDE FLANGE STEEL SIGN POST DETAILS

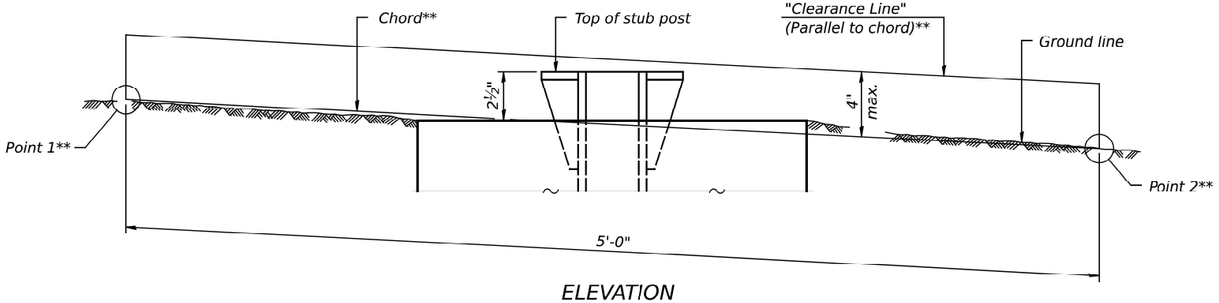
SHEET OF SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	511
		CONTRACT NO. 62F94		
		ILLINOIS	FED. AID PROJECT	

POST	CONCRETE FOUNDATION TABLE							POST TO STUB POST CONNECTION DATA										FUSE PLATE DATA			
	Foundation			Reinforcement				Stub Post	Bolt Size	A	B	C	D	F	t1	t2	R	W	J	K	L	t3
	Diameter	*Minimum Depth	Concrete (1) cu. yds.)	Vertical Bars Length	Bar Spirals Diameter	Bar Spirals Length	lbs. (2)	Length														
W6x9	2'-0"	6'-0"	0.70	5'-9"	1'-8½"	79'-0"	78	2'-3"	⅝" x 3¼"	6"	2¼"	1¼"	3½"	1¼"	¾"	½"	11/32"	¼"	4"	2¼"	⅞"	¼"
W6x15	2'-0"	6'-0"	0.70	5'-9"	1'-8½"	79'-0"	78	2'-6"	⅝" x 3¼"	6"	2¼"	1¼"	3½"	1¼"	¾"	½"	11/32"	¼"	6"	3½"	1¼"	⅜"
W8x18	2'-0"	6'-0"	0.70	5'-9"	1'-8½"	79'-0"	78	2'-6"	¾" x 3¾"	6"	2½"	1⅜"	3¼"	1⅜"	1"	½"	13/32"	5/16"	5¼"	2¾"	1¼"	⅜"
W10x22	2'-6"	6'-6"	1.18	6'-3"	2'-2½"	105'-0"	92	3'-0"	¾" x 3¾"	6"	2½"	1⅜"	3¼"	1⅜"	1"	½"	13/32"	5/16"	5¾"	2¾"	1½"	½"
W10x26	2'-6"	7'-0"	1.27	6'-9"	2'-2½"	112'-0"	98	3'-0"	⅞" x 4"	7"	2¾"	1½"	4"	1½"	1"	¾"	15/32"	⅜"	5¾"	2¾"	1½"	⅝"
W12x26	2'-6"	7'-9"	1.41	7'-6"	2'-2½"	119'-0"	107	3'-0"	⅞" x 4"	7"	2¾"	1½"	4"	1½"	1"	¾"	15/32"	⅜"	6½"	3½"	1½"	⅝"
W14x30	3'-0"	7'-3"	1.90	7'-0"	2'-8½"	145'-0"	113	3'-0"	⅞" x 4"	7"	2¾"	1½"	4"	1½"	1"	¾"	15/32"	⅜"	6¾"	3½"	1⅝"	½"
W14x38	3'-0"	8'-0"	2.09	7'-9"	2'-8½"	153'-0"	122	3'-6"	1" x 4½"	7½"	3"	1¾"	4"	1¾"	1¼"	¾"	17/32"	⅜"	6¾"	3½"	1⅝"	½"
W16x45	3'-0"	8'-6"	2.23	8'-3"	2'-8½"	162'-0"	130	3'-6"	1" x 4½"	7½"	3"	1¾"	4"	1¾"	1¼"	¾"	17/32"	⅜"	7"	3½"	1¾"	½"

*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	½" x 1½"	½" x 1½"	½" x 1½"	½" x 1½"	——	——	——	——	——	——	——	——	——	——	——	——	——	——	——	——	——
W6x15	½" x 1¾"	½" x 1¾"	½" x 1¾"	⅝" x 2"	⅝" x 2"	¾" x 2"	¾" x 2"	¾" x 2"	¾" x 2"	——	——	——	——	——	——	——	——	——	——	——	——
W8x18	½" x 1¾"	½" x 1¾"	½" x 1¾"	½" x 1¾"	⅝" x 2"	⅝" x 2"	¾" x 2"	¾" x 2"	¾" x 2"	¾" x 2"	——	——	——	——	——	——	——	——	——	——	——
W10x22	½" x 2"	½" x 2"	½" x 2"	½" x 2"	½" x 2"	⅝" x 2"	⅝" x 2"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	——	——	——	——	——	——	——	——
W10x26	½" x 2"	½" x 2"	½" x 2"	½" x 2"	½" x 2"	⅝" x 2¼"	⅝" x 2¼"	¾" x 2½"	¾" x 2½"	¾" x 2½"	¾" x 2½"	¾" x 2½"	¾" x 2½"	¾" x 2½"	——	——	——	——	——	——	——
W12x26	½" x 2"	½" x 2"	½" x 2"	½" x 2"	½" x 2"	⅝" x 2¼"	⅝" x 2¼"	¾" x 2½"	¾" x 2½"	¾" x 2½"	¾" x 2½"	¾" x 2½"	¾" x 2½"	¾" x 2½"	¾" x 2½"	——	——	——	——	——	——
W14x30	½" x 2"	½" x 2"	½" x 2"	½" x 2"	½" x 2"	⅝" x 2"	⅝" x 2"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	——	——	——	——
W14x38	½" x 2"	½" x 2"	½" x 2"	½" x 2"	½" x 2"	⅝" x 2¼"	⅝" x 2¼"	¾" x 2½"	¾" x 2½"	¾" x 2½"	¾" x 2½"	⅞" x 2½"	⅞" x 2½"	1" x 2¾"	1" x 2¾"	1" x 2¾"	1" x 2¾"	1" x 2¾"	1" x 2¾"	1" x 2¾"	1" x 2¾"
W16x45	——	½" x 2"	½" x 2"	½" x 2"	½" x 2"	½" x 2"	½" x 2"	⅝" x 2¼"	⅝" x 2¼"	⅝" x 2¼"	¾" x 2½"	¾" x 2½"	⅞" x 2½"	⅞" x 2½"	⅞" x 2½"	1" x 2¾"	1" x 2¾"	1" x 2¾"	1" x 2¾"	1" x 2¾"	1" x 2¾"



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.

MODEL: BAW-A-2
FILE NAME: D162F94-01-stk-sign-standards.dgn

Accurate GROUP, INC.

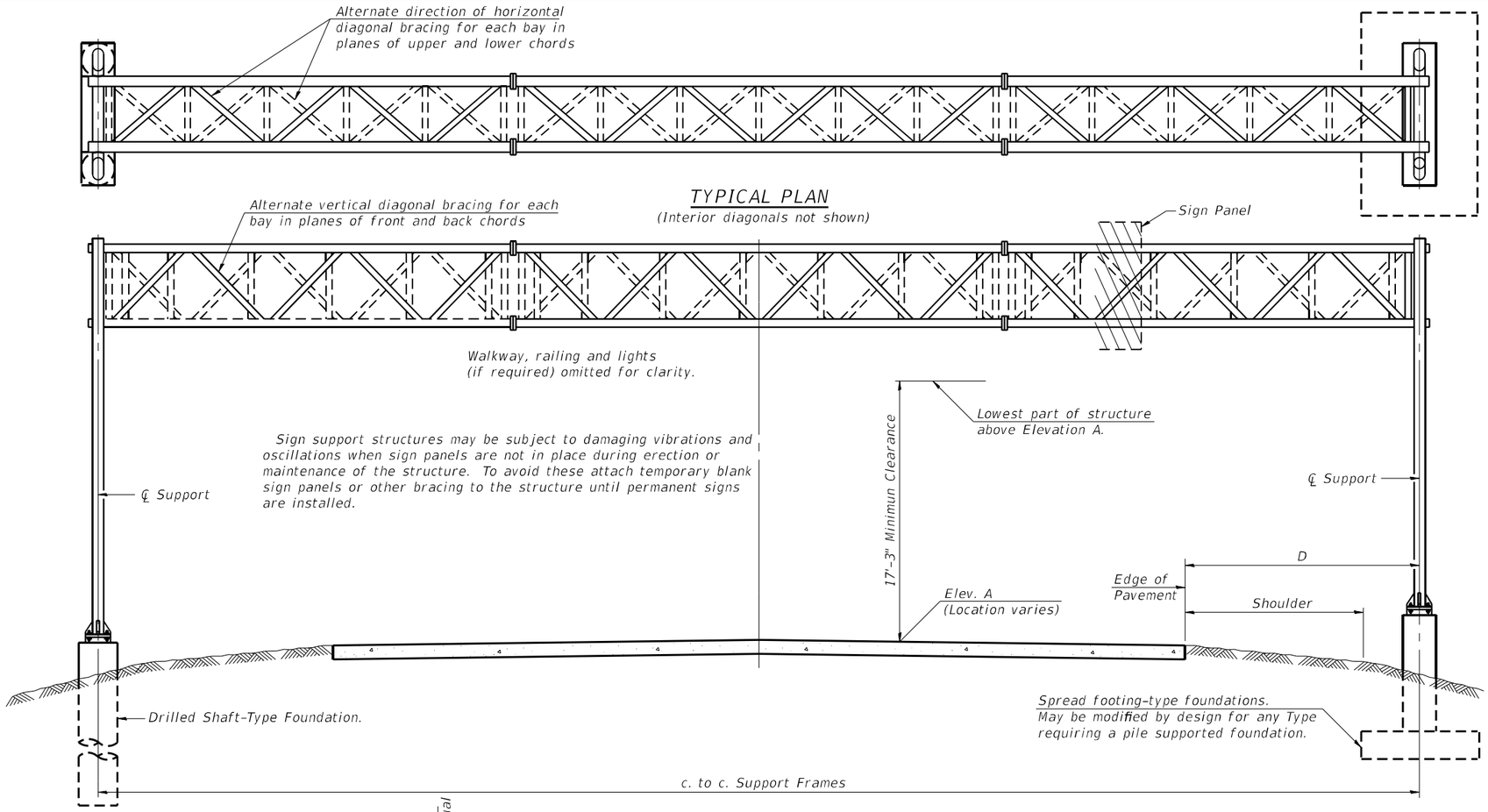
USER NAME = $USER$	DESIGNED -	REVISED -
	CHECKED -	REVISED -
PLOT SCALE = $SCALE$	DRAWN -	REVISED -
PLOT DATE = $DATE$	CHECKED -	REVISED -

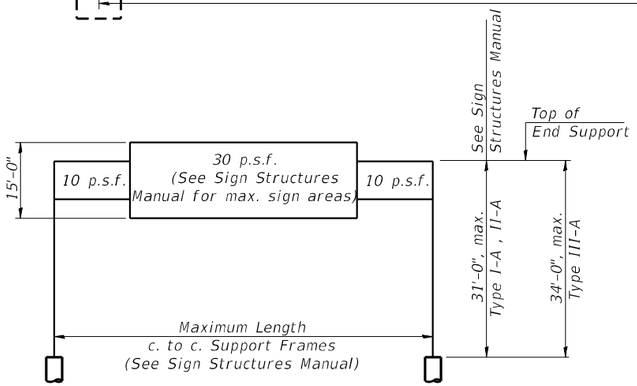
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BREAK-AWAY WIDE FLANGE STEEL SIGN POST TABLES

SHEET OF SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	512
		CONTRACT NO. 62F94		
	ILLINOIS	FED. AID PROJECT		





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.

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
1S099U052L132.0	220+00	1-A	80'-0"	534.19	23'-0"	7'-6"	118.8 Sq.Ft.
1S099I080L132.0	708+50	1-A	80'-0"	576.06	8'-8"	13'-6"	458.25 Sq.Ft.

**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.

Walkway: The truss grating and maintenance walkway behind the sign panel will be included with Overhead Sign Structure - Span, Type I-A (4'-0" X 4'-6"). Walkway grating, walkway brackets, handrails, lighting, and associated components on the traffic side of the sign structure/sign panel will not be installed with Contract 62F94.

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.
fy = 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 at 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 at 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 Concrete 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 (4'-0" X 4'-6")	Foot	160
Drilled Shaft Concrete Foundations	Cu. Yd.	52.3

OS-A-1 2-17-2017

MODEL: BORDER PLAN
FILE NAME: D162F94-01-sht-001-OS-A-1-SPAN.dgn

Accurate GROUP, INC

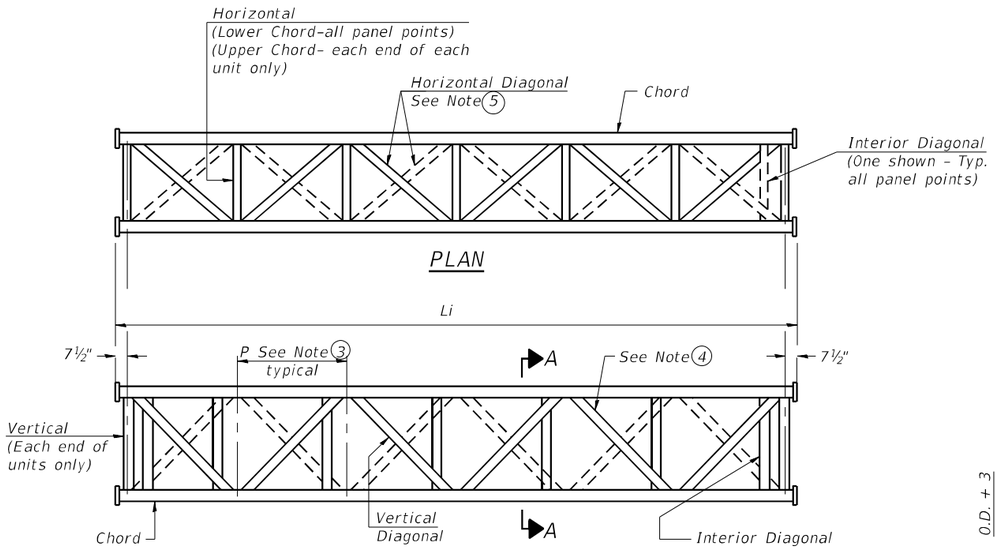
USER NAME = uraza	DESIGNED - UR	REVISED -	
	CHECKED - JL	REVISED -	
PLOT SCALE = 0.167 ' / in.	DRAWN - NM	REVISED -	
PLOT DATE = 12/3/2025	CHECKED - IH	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES - GENERAL PLAN & ELEVATION - ALUMINUM TRUSS & STEEL SUPPORTS

SHEET S1-01 OF S1-010 SHEETS

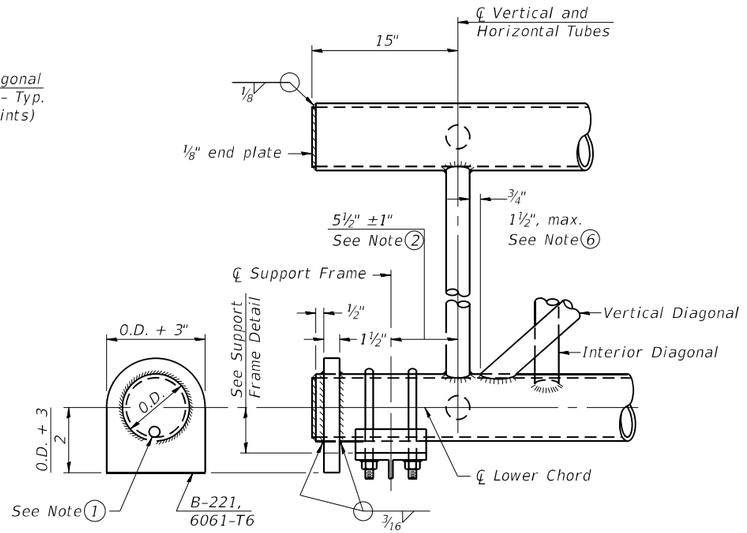
F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	513
		CONTRACT NO. 62F94		
	ILLINOIS	FED. AID PROJECT		



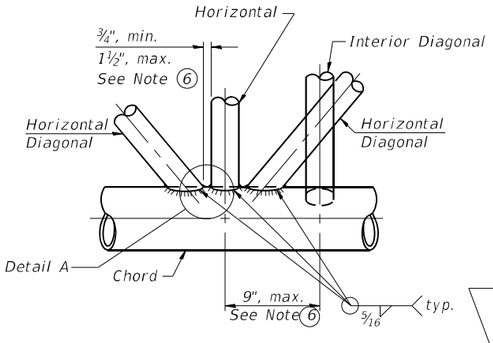
ELEVATION

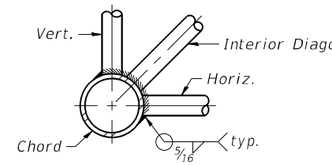
TYPICAL INTERIOR UNIT

Even number of panels/interior unit required.

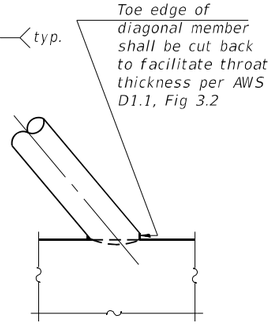


SUPPORT END DETAIL FOR EXTERIOR UNIT

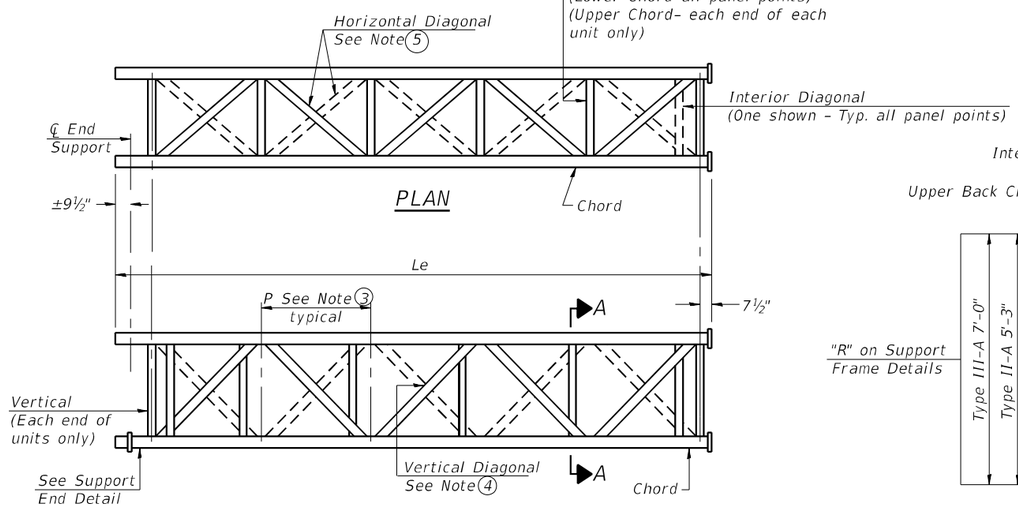




TYPICAL JOINT DETAILS



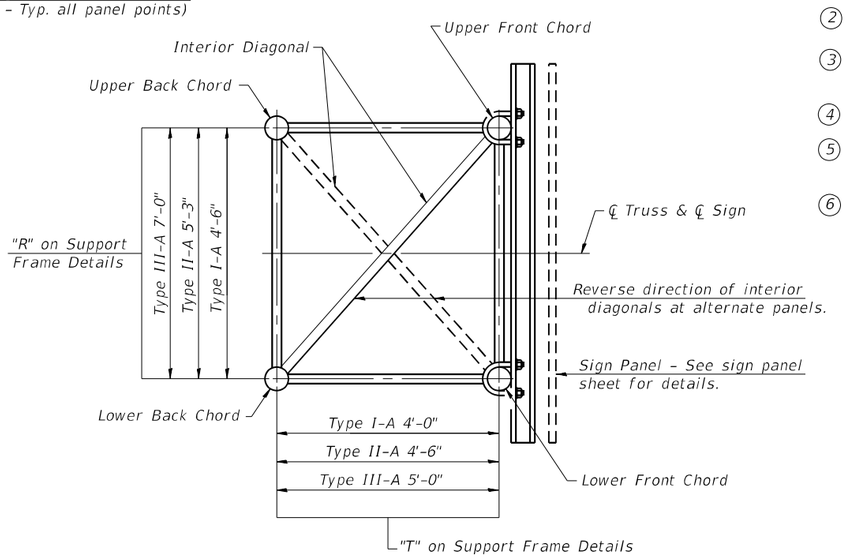
DETAIL A



ELEVATION

TYPICAL EXTERIOR UNIT

Even or odd number of panels/exterior units allowed.



SECTION A–A

(1) Contractor may alternatively use standard aluminum drive– t cap to close end. ½" Ø drain hole in end plate/drive– t cap. (Typ. at ends of all chords)

(2) 5½" end dimension may vary by ±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 o set from the panel point based on the following: Offset shall be such as to provide a ¾" minimum to 1½" maximum clearance between any diagonal and any horizontal or vertical member, and to provide clearance for U–bolt connections of signs or walkway brackets.

MODEL: BORDER PLAN
FILE NAME: D:\02F94-01-sht-002-OS-A-2-SPAN.dgn

OS-A-2 2-17-2017

Accurate GROUP, INC

USER NAME = jploquinto	DESIGNED - UR	REVISED -
	CHECKED - JL	REVISED -
PLOT SCALE = 0.167 ' / in.	DRAWN - NM	REVISED -
PLOT DATE = 10/28/2025	CHECKED - IH	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

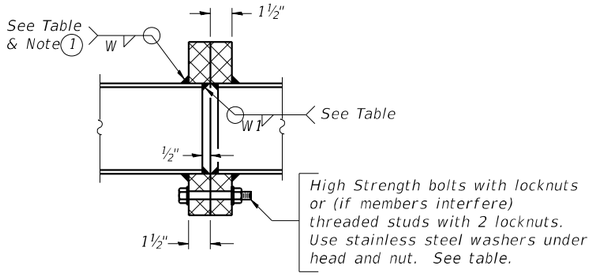
OVERHEAD SIGN STRUCTURES – ALUMINUM TRUSS
DETAILS FOR TRUSS TYPES I–A, II–A AND III–A

SHEET S1-02 OF S1-010 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	514
		CONTRACT NO. 62F94		
	ILLINOIS	FED. AID PROJECT		

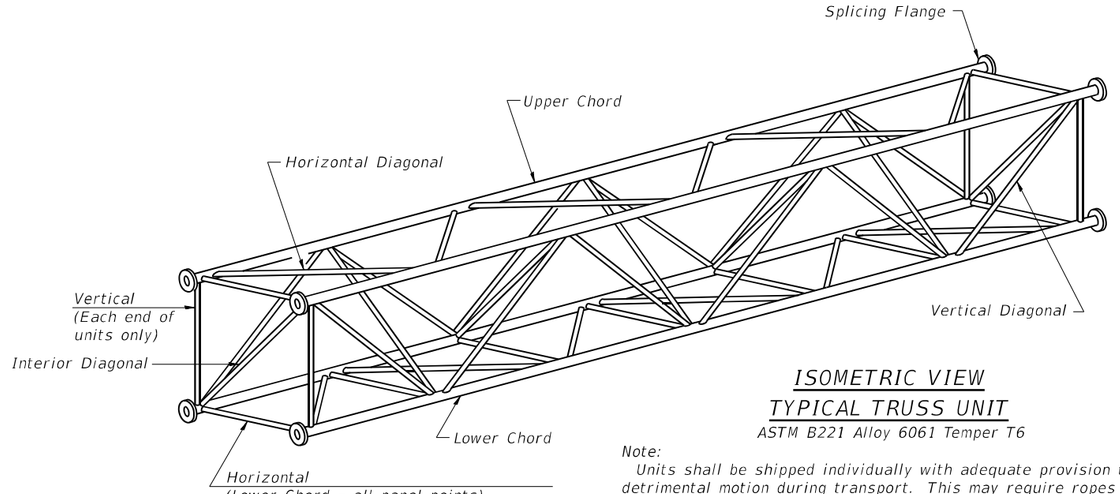
TRUSS UNIT TABLE

Structure Number	Station	Design Truss Type	Exterior Units (2)			Interior Unit				Upper & Lower Chord		Verticals; Horizontals; Vertical,Horizontal, and Interior Diagonals		Camber at Midspan	Splicing Flange					
			No. Panels per Unit	Unit Lgth.(Le)	Panel Lgth.(P)	No. Req'd.	No. Panels per Unit	Unit Lgth.(Li)	Panel Lgth.(P)	O.D.	Wall	O.D.	Wall		Bolts		Weld Sizes		A	B
															No./Splice	Dia.	W	W1		
1S099U052L132.0	220+00	1-A	5	25'-10"	4'-9½	1	6	30'-0"	4'-9½	5"	5/16"	2½"	5/16"	2¼"	6	⅞"	5/16"	¼"	8¾"	11¾"
1S099I080L132.0	708+50	1-A	5	25'-10"	4'-9½	1	6	30'-0"	4'-9½	5"	5/16"	2½"	5/16"	2¼"	6	⅞"	5/16"	¼"	8¾"	11¾"



SECTION B-B

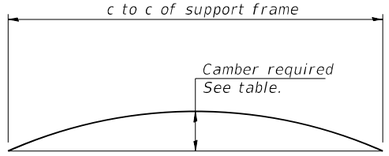
(1) Splicing Flanges shall be attached to each truss unit with the truss shop assembled to camber shown. Truss units shall be in proper alignment and flange surfaces shall be shop bolted into full contact before welding. Sufficient external welds or tacks shall be made to secure flanges until remaining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



ISOMETRIC VIEW
TYPICAL TRUSS UNIT

ASTM B221 Alloy 6061 Temper T6

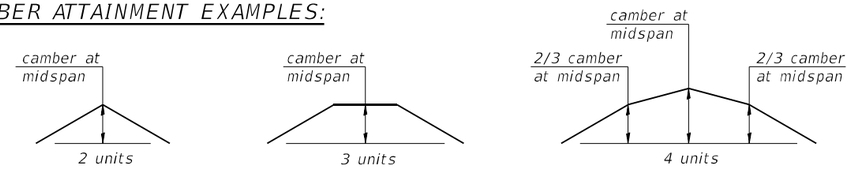
Note:
Units shall be shipped individually with adequate provision to prevent detrimental motion during transport. This may require ropes between horizontals and diagonals or energy dissipating (elastic) ties to the vehicle. The Contractor is responsible for maintaining the configuration and protection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



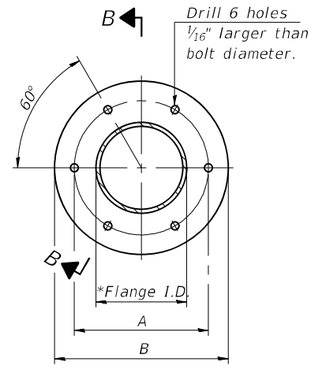
CAMBER DIAGRAM

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

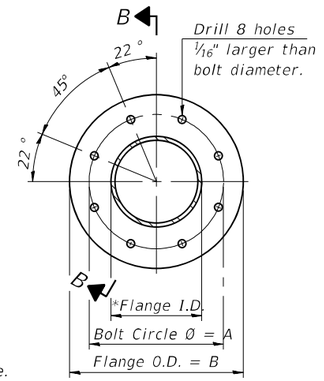
CAMBER ATTAINMENT EXAMPLES:



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



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



TRUSS TYPES II-A & III-A

SPLICING FLANGES

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

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

MODEL: BORDER PLAN
FILE NAME: D:\02F94-01-01H-2003-OS4-A-2-SPAN.dgn

OS4-A-2 2-17-2017

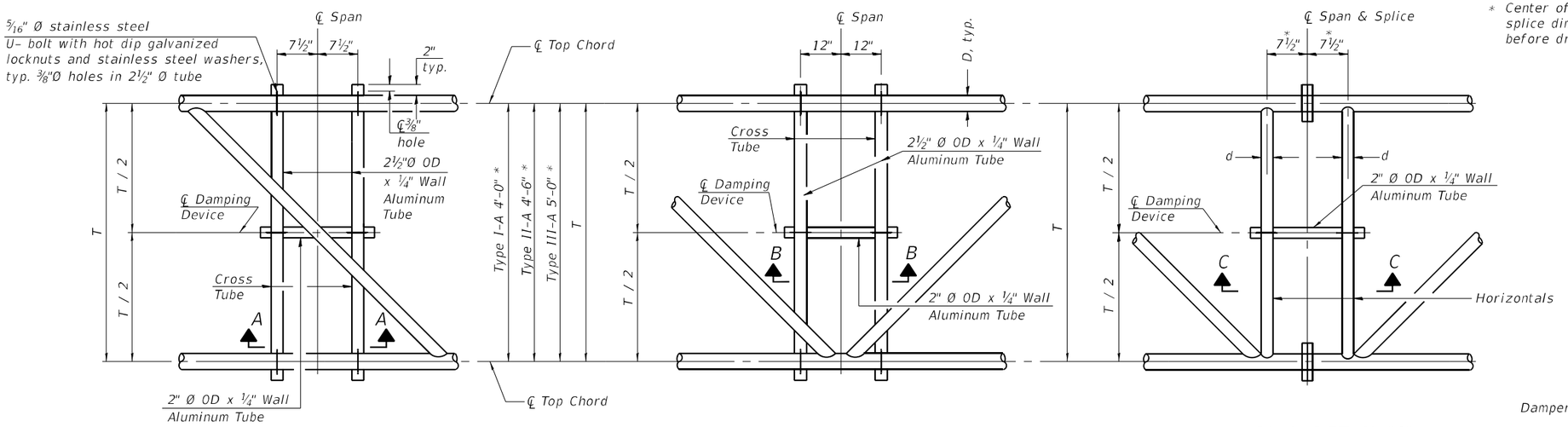
Accurate GROUP, INC	USER NAME = jploquinto	DESIGNED - UR	REVISED -
		CHECKED - JL	REVISED -
	PLOT SCALE = 0.167 ' / in.	DRAWN - NM	REVISED -
	PLOT DATE = 10/28/2025	CHECKED - IH	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

SHEET S1-03 OF S1-010 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	515
		CONTRACT NO. 62F94		
	ILLINOIS	FED. AID PROJECT		

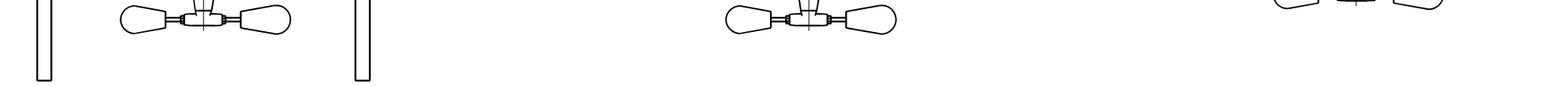


* Center of horizontal to center of splice dimension may vary. Verify before drilling holes in mounting tube.

PLAN DETAIL "A"
℄ Span between Panel Points

PLAN DETAIL "B"
℄ Span at Panel Point

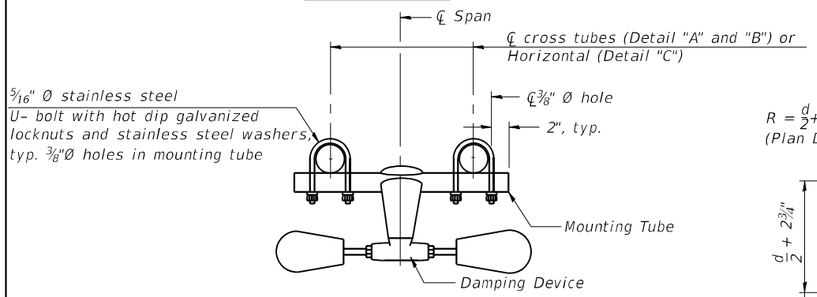
PLAN DETAIL "C"
℄ Span at ℄ Chord Splice



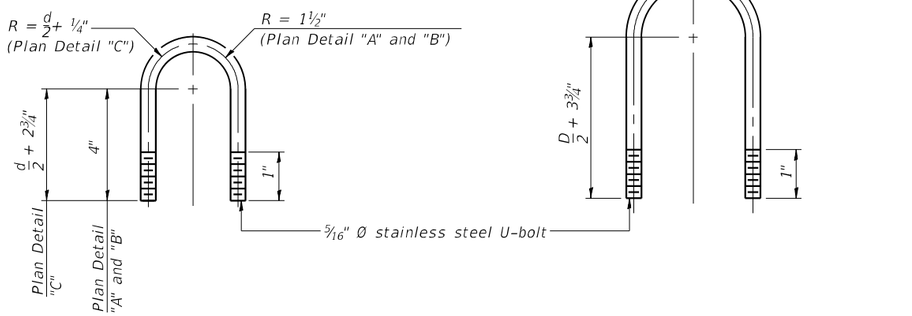
SECTION A-A

SECTION B-B

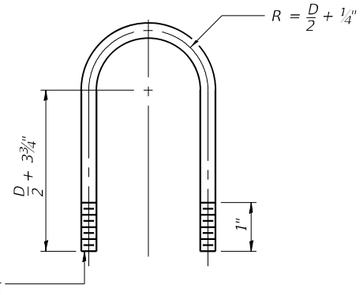
SECTION C-C



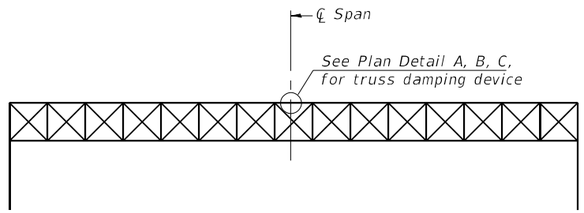
TRUSS DAMPING DEVICE CONNECTION DETAIL
(Typical)



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

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...

MODEL: BORDER PLAN
FILE NAME: D:\62F94-01-sht-004-OS-A-D-SPAN.dgn

OS-A-D 2-17-2017

Accurate GROUP, INC

USER NAME = jploquinto	DESIGNED - UR	REVISED -	
	CHECKED - JL	REVISED -	
PLOT SCALE = 0.167 '/ In.	DRAWN - NM	REVISED -	
PLOT DATE = 10/28/2025	CHECKED - IH	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURE
DAMPING DEVICE
SHEET S1-04 OF S1-010 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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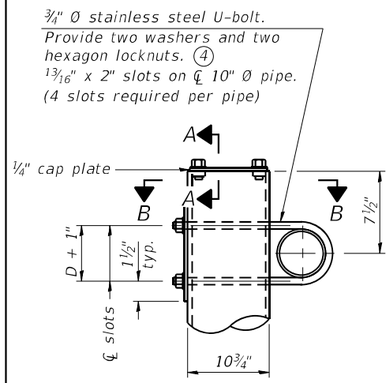
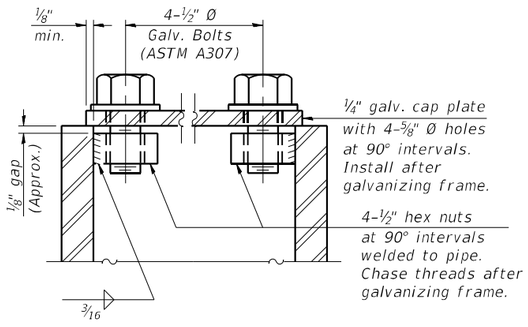
		CONTRACT NO. 62F94		
	ILLINOIS	FED. AID PROJECT		

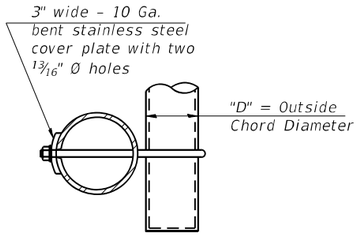


DETAIL A

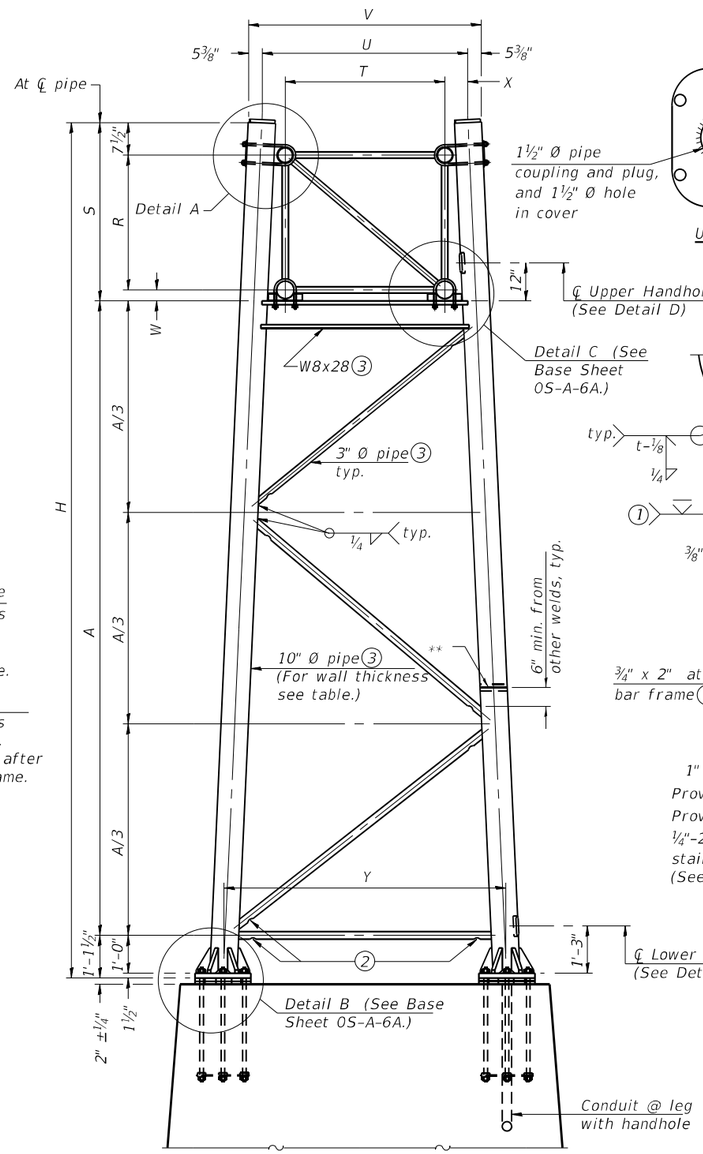


SECTION A-A

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

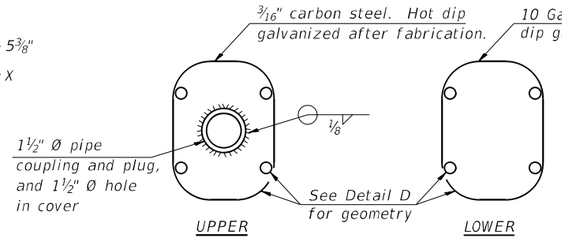


SECTION B-B

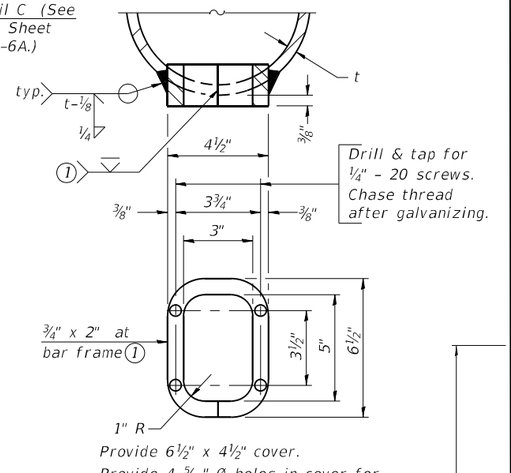


For Foundation Details, see base sheet 0S-F3 (Spread Footing) or 0S4-F3 (Drilled Shaft).

SIDE ELEVATION

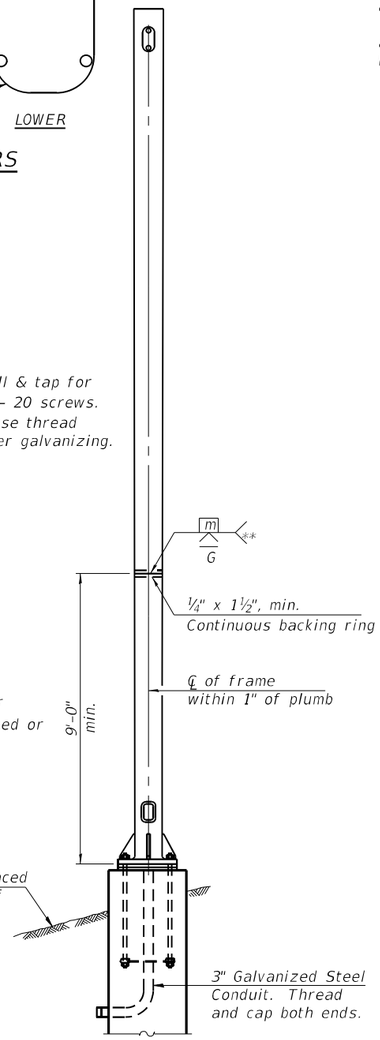


HANDHOLE COVERS



Provide 6½" x 4½" cover.
Provide 4-5/16" Ø holes in cover for ¼"-20 round head hot dip galvanized or stainless steel machine screws. (See cover details)

DETAIL D



END ELEVATION

Support Design Loads: See Base Sheet 0S-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 500µ in 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 0S-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 veri ed 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'-5½"	4'-0"	5'-6"	6'-4¾"	4"	9"	8'-3"
II-A (5)	5'-3"	6'-3¼"	4'-6"	6'-1"	6'-11¾"	4¾"	9½"	8'-3"

10" Ø 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.

Structure Number	Station	Support		Truss Type	Pipe Wall Thickness	H (6)	A
		Left	Right				
1S099U052L132.0	220+00		X	I-A	0.279"	26'-4⅝"	19'-9⅝"
1S099U052L132.0	220+00	X		I-A	0.279"	26'-9"	20'-2"
1S099I080L132.0	708+50		X	I-A	0.279"	28'-6¾"	21'-11¾"
1S099I080L132.0	708+50	X		I-A	0.279"	25'-8¼"	19'-1¼"

0S-A-6 2-17-2017

Accurate GROUP, INC

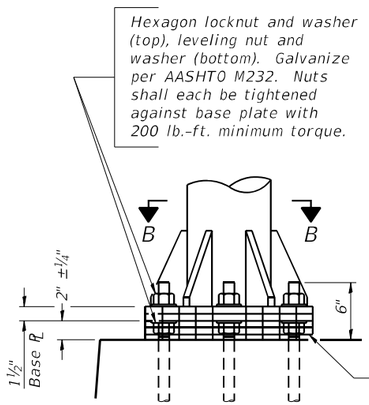
USER NAME = uraza	DESIGNED - UR	REVISED -	
	CHECKED - JL	REVISED -	
PLOT SCALE = 0.167 ' / in.	DRAWN - NM	REVISED -	
PLOT DATE = 12/3/2025	CHECKED - IH	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
SUPPORT FRAME FOR TYPE I-A ALUMINUM TRUSS
SHEET S1-05 OF S1-010 SHEETS

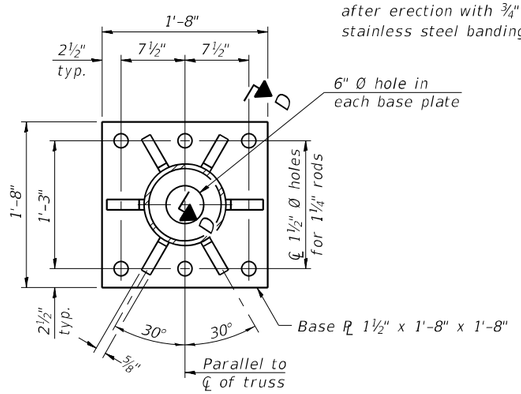
F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	517
		CONTRACT NO. 62F94		
	ILLINOIS FED. AID PROJECT			

MODEL: BORDER PLAN
FILE NAME: D162F94-01-sht-005-0S-A-6-SPAN.dgn

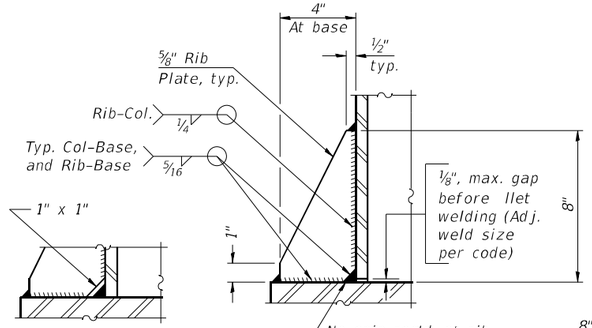


DETAIL B

Ribs shall be cut to fit slope of pipe.

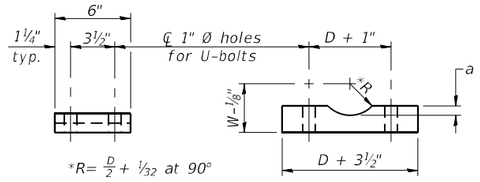


SECTION B-B



** Alternate detail if welding col. to base plate first, then snip inside corner of ribs. Terminate weld on rib ¼" from snip.

SECTION D-D



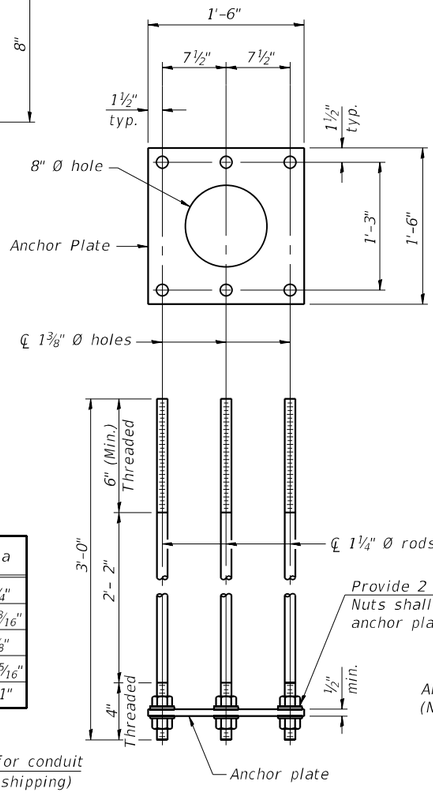
*R= D/2 + 1/32 at 90°

D = Outside Diameter of Chord.
For W, see Base Sheet 0S-A-6.

SADDLE SHIM DETAIL

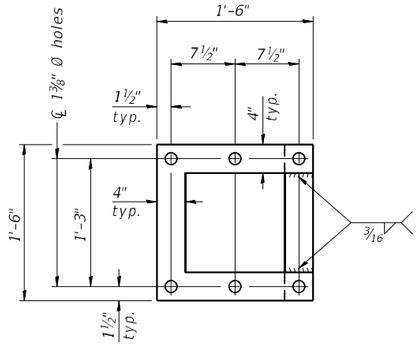
ASTM B26 Alloy 356-F
or
ASTM B209 Alloy 6061-T651
(4 required per sign truss)

Truss Chord Nominal Dia.	a
5"	¾"
5½"	13/16"
6"	⅞"
6½"	15/16"
7"	1"

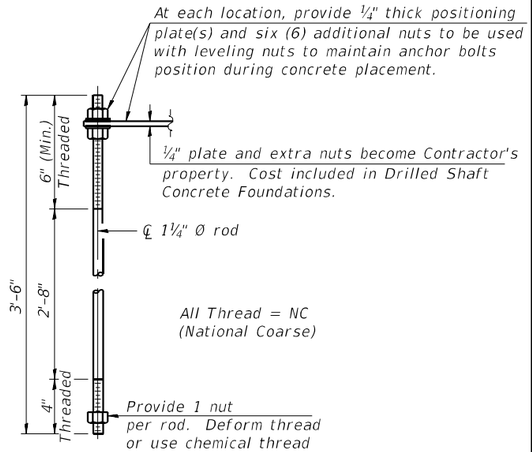


ANCHOR ROD DETAIL

Spread Footing Foundation



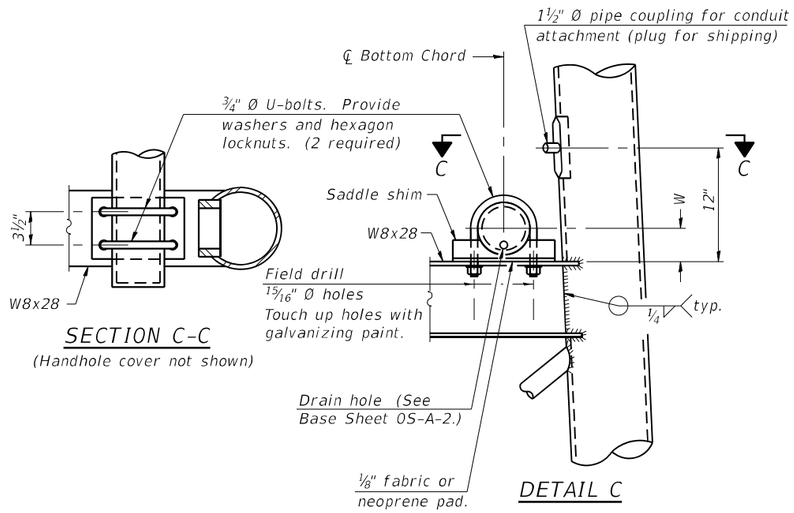
POSITIONING PLATE(S)



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.



SECTION C-C

(Handhole cover not shown)

DETAIL C

10" Ø PIPE SUPPORT FRAME DETAILS

0S-A-6A 2-17-2017

MODEL: BORDER PLAN
FILE NAME: D162F94-01-sht-206-0S-A-6A-SPAN.dgn

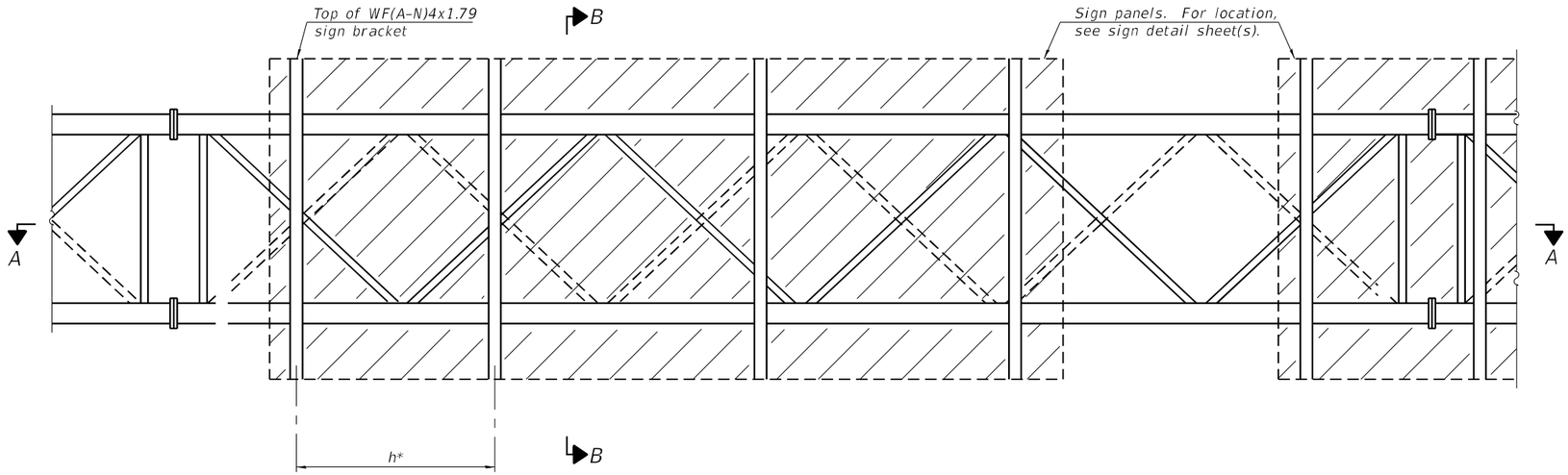
Accurate GROUP, INC

USER NAME = jploquinto	DESIGNED - UR	REVISED -	
	CHECKED - JL	REVISED -	
PLOT SCALE = 0.167 '/ in.	DRAWN - NM	REVISED -	
PLOT DATE = 10/28/2025	CHECKED - IH	REVISED -	

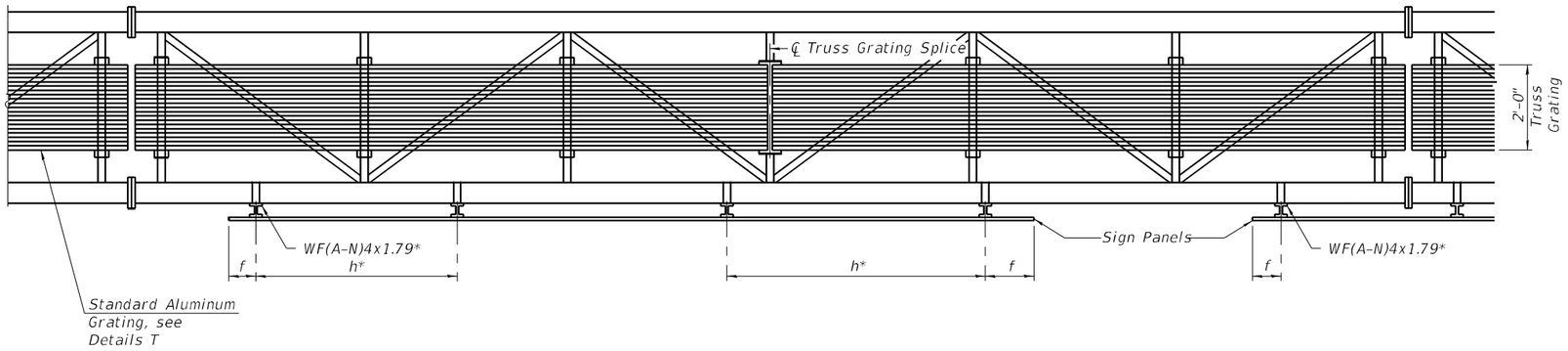
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
SUPPORT FRAME DETAILS – ALUMINUM TRUSS
SHEET S1-06 OF S1-010 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	518
		CONTRACT NO. 62F94		
	ILLINOIS FED. AID PROJECT			



TYPICAL FRONT ELEVATION



SECTION A-A

Place all sign brackets as close to panel points as practical.

BRACKET TABLE

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

Structure Number	Sign Width		Number Brackets Required
	Greater Than	Less Than or Equal To	
		8'-0"	2
IS099U052L132.0	8'-0"	14'-0"	3
IS099I080L132.0	14'-0"	20'-0"	4
	20'-0"	26'-0"	5
	26'-0"	32'-0"	6

* Space sign brackets WF(A-N)4x1.79 for efficiency and within limits shown:

f = 12" maximum, 4" minimum (End of sign to ℄ of nearest bracket)
h = 6'-0" maximum (℄ to ℄ sign support brackets, WF(A-N)4x1.7

Notes:
For Detail T and Section B-B, see Base Sheet 0S-A-10-NW.
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".
Truss Grating width dimensions are nominal and may vary ½"± based on available standard widths.

MODEL: BORDER PLAN
FILE NAME: D162F94-01-sht-007-0S-A-9-NW-SPAN.dgn

0S-A-9-NW 4-1-2020

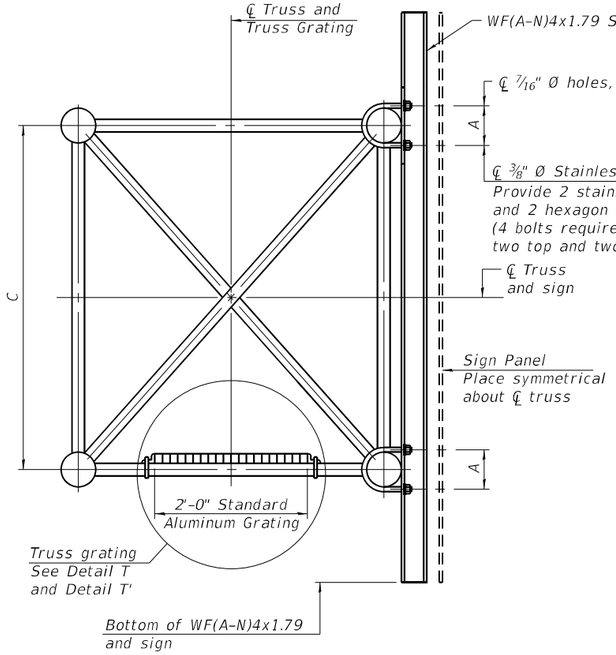
Accurate GROUP, INC

USER NAME = jploquinto	DESIGNED - UR	REVISED -
	CHECKED - JL	REVISED -
PLOT SCALE = 0.167 ' / in.	DRAWN - NM	REVISED -
PLOT DATE = 10/28/2025	CHECKED - IH	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
ALUMINUM WALKWAY DETAILS
SHEET S1-07 OF S1-010 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	519
		CONTRACT NO. 62F94		
	ILLINOIS	FED. AID PROJECT		



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

SPECIFICATIONS FOR STANDARD ALUMINUM GRATING

Main Bearing Bars shall be 3/16" x 1½" on 1 3/16" centers and conform to ASTM B221 Alloy 6061-T6.

Cross bars shall be 3/16" x 1½" on 4" centers and conform to ASTM B221 Alloy 6063-T5 or 6061-T6.

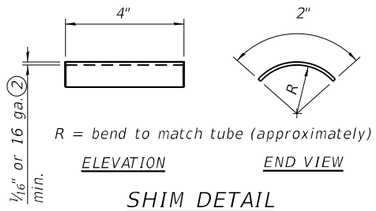
OR

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 1½", spaced on 1 3/16" centers.

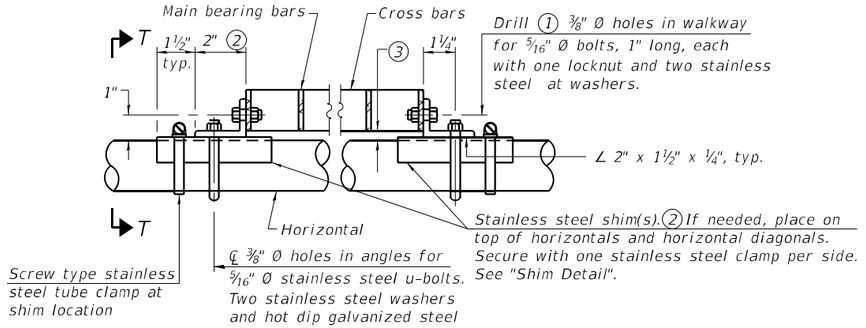
Cross bars shall conform to ASTM B221 Alloy 6063-T5 or T-42 and spaced on 4" centers.

Structure Number	Station	A	C
1S099U052L132.0	220+00	6"	4'-6"
1S099I080L132.0	708+50	6"	4'-6"



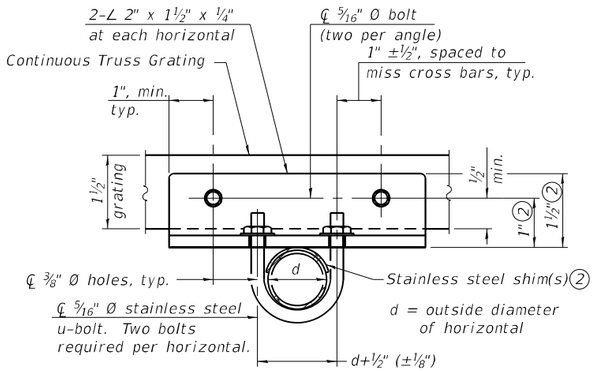
SHIM DETAIL

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 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.
3. Tube to grating gap may vary from 0 to ½", max. to align walkway, allow for camber, etc.

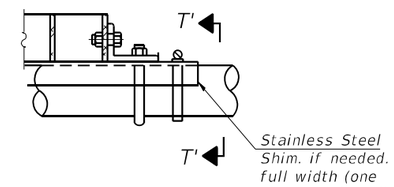


DETAIL T

(Continuous Truss grating)



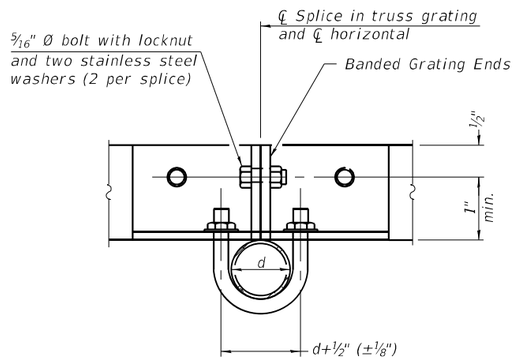
SECTION T-T



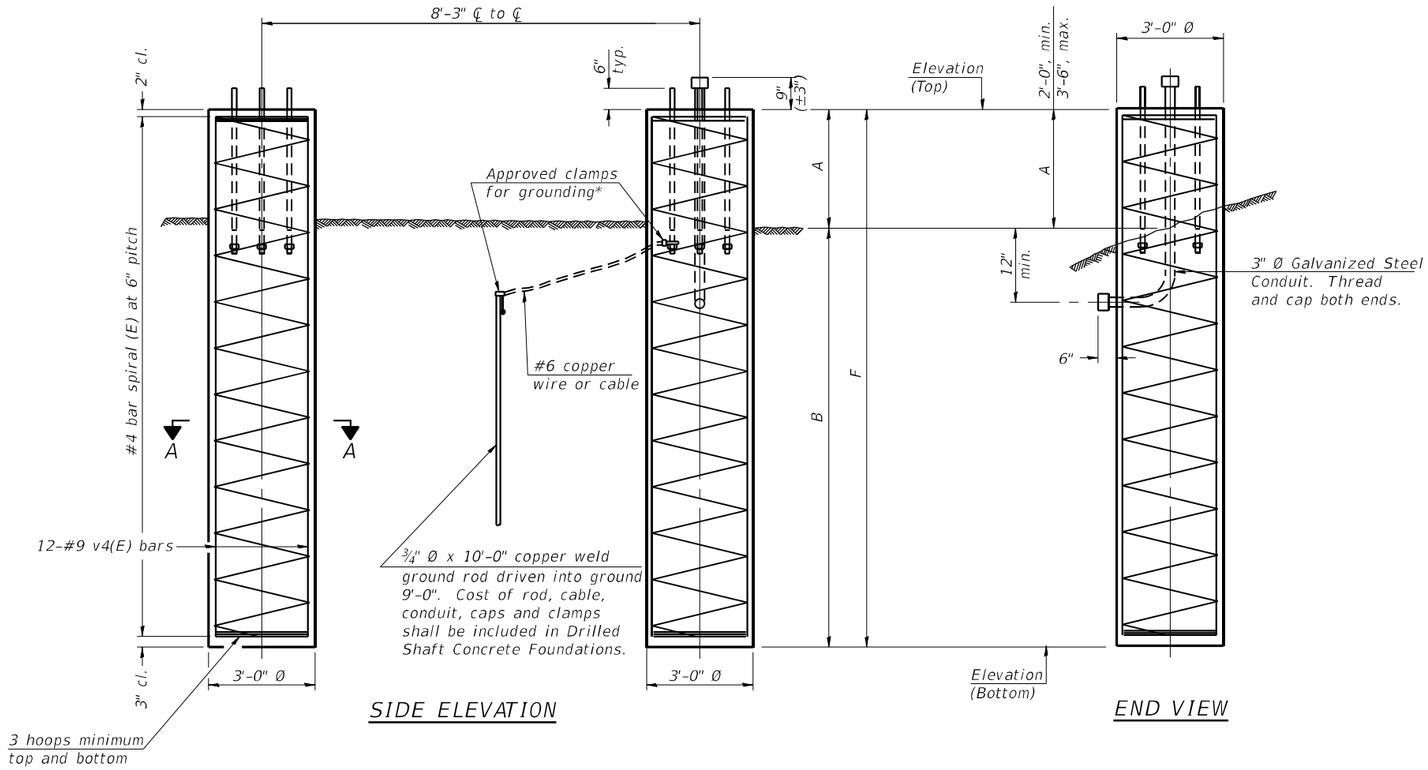
DETAIL T'

(Truss grating splice)

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

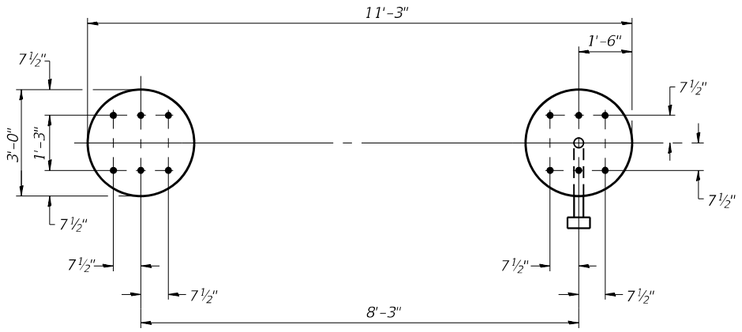


SECTION T'-T'



SIDE ELEVATION

END VIEW



PLAN

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

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

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 Uncon ned 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 speci c designs.

If the conditions encountered are di erent than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modi ed. 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.

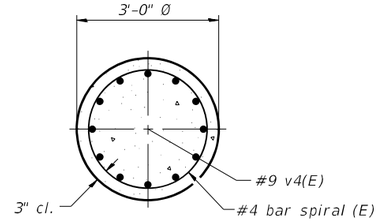
No sonotubes or decomposable forms shall be used below the lower conduit entrance.

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.

Back ll shall be placed per Article 502 of Standard Speci cation and prior to erection of support column.

A normal surface nish followed by a Concrete Sealer application will be required on concrete surfaces above the lowest elevation 6" below nished ground line. Cost included in Drilled Shaft Concrete Foundation.



SECTION A-A

DETAILS FOR 10" Ø 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	
1S099U052L132.0	220+00	-	-	-	-	-	536.52	518.02	2'-0"	16'-6"	18'-6"	9.7
1S099I080L132.0	708+50	-	-	-	-	-	576.62	558.12	2'-0"	16'-6"	18'-6"	9.7

0S4-F3 2-17-2017

MODEL: BORDER PLAN
FILE NAME: D162F94-01-sht-009-0S4F2-SPAN.dgn

Accurate GROUP, INC

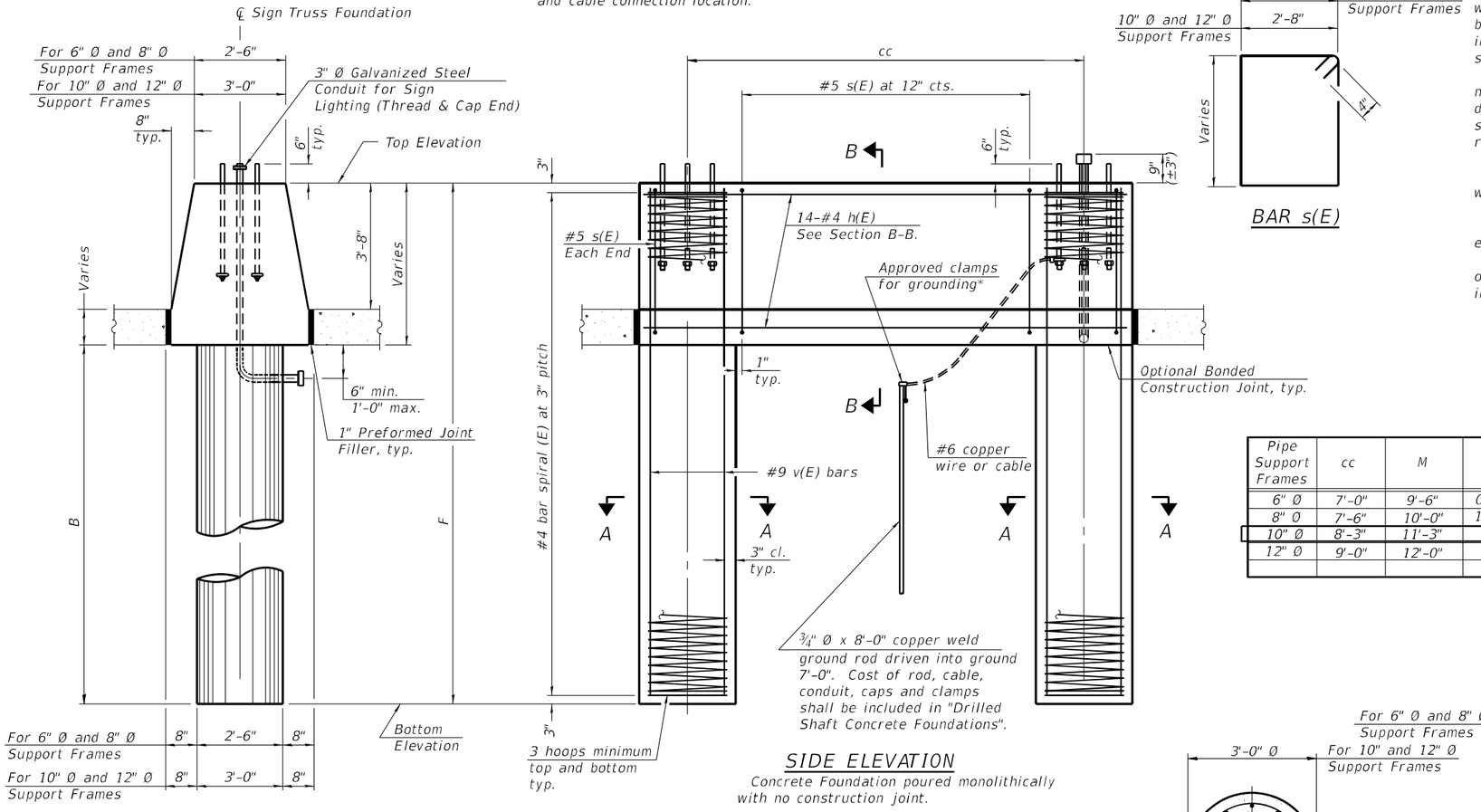
USER NAME = jploquinto	DESIGNED - UR	REVISED -	
	CHECKED - JL	REVISED -	
PLOT SCALE = 0.167 '/ In.	DRAWN - NM	REVISED -	
PLOT DATE = 10/28/2025	CHECKED - IH	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

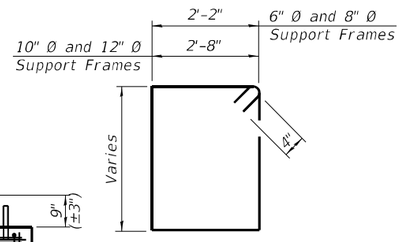
OVERHEAD SIGN STRUCTURES
DRILLED SHAFT DETAILS
SHEET S1-09 OF S1-010 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	521
		CONTRACT NO. 62F94		
	ILLINOIS	FED. AID PROJECT		

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



END VIEW



BAR s(E)

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 Concrete Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in Drilled Shaft Concrete Foundation.

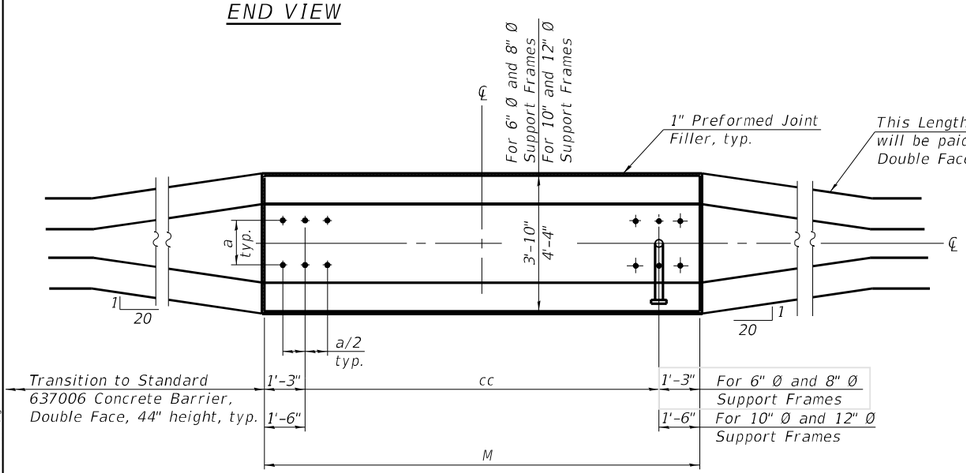
BAR LIST - EACH FOUNDATION

Bar	Number	Size	Length	Shape	
h(E)	14	#4	M less 4"	——	
s(E)	Varies	#5	Varies	□	6" Ø and 8" Ø Support Frame
v(E)	16	#9	F less 0'-5"	——	
v(E)	24	#9	F less 0'-5"	——	10" Ø and 12" Ø Support Frame
#4(E) bar spiral. See Side Elevation					

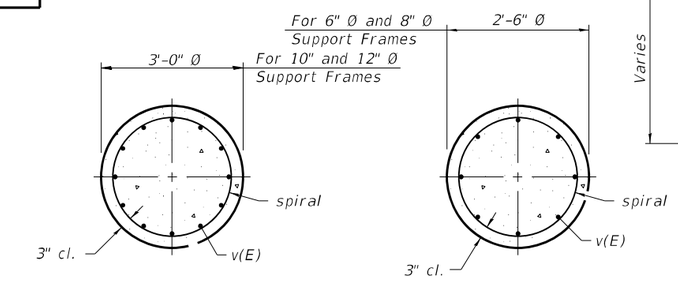
Pipe Support Frames	cc	M	a	a/2
6" Ø	7'-0"	9'-6"	0'-11"	5½"
8" 0	7'-6"	10'-0"	1'-1½"	6¾"
10" Ø	8'-3"	11'-3"	1'-3"	7½"
12" Ø	9'-0"	12'-0"	1'-6"	9"

SIDE ELEVATION

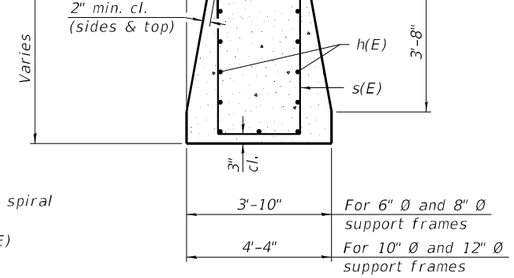
Concrete Foundation poured monolithically with no construction joint.



PLAN



SECTION A-A



SECTION B-B

Structure Number	Station	Left Foundation				Right Foundation				Class DS Concrete (Cu. Yds.)
		Elevation Top	Elevation Bottom	B	F	Elevation Top	Elevation Bottom	B	F	
1S099U052L132.0	220+00	536.15	514.98	16'-6"	21'-2⅛"	–	–	–	–	16.1
1S099I080L132.0	708+50	579.50	557.92	16'-6"	21'-7"	–	–	–	–	16.8

MODEL: BORDER PLAN
FILE NAME: D162F94-01-sht-010-OS4-MED-SPAN.dgn

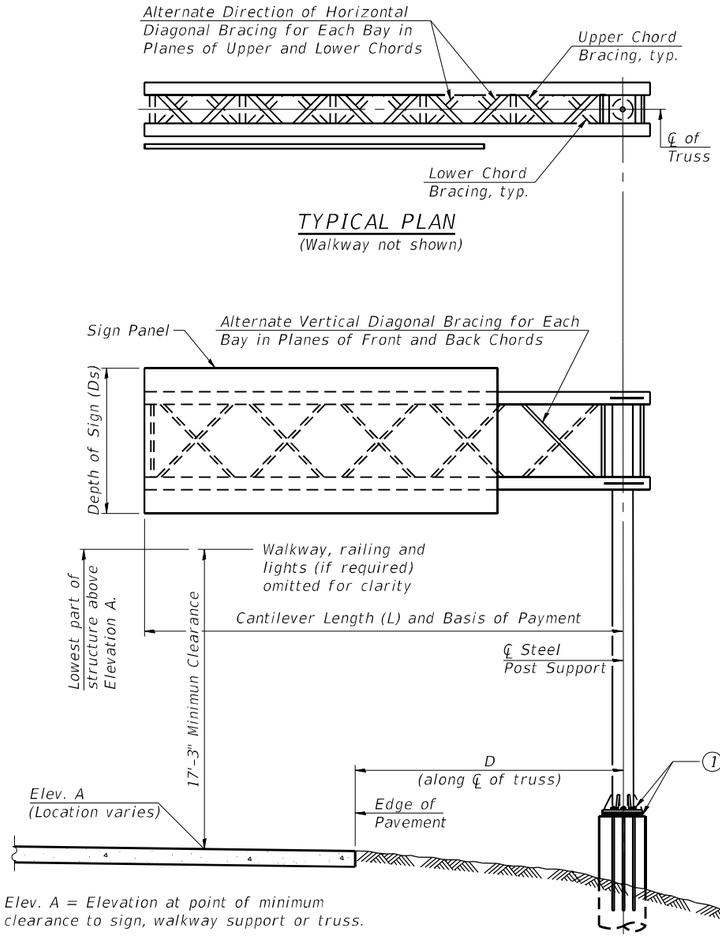
OS4-MED 4-1-2020

Accurate GROUP, INC	USER NAME = uraza	DESIGNED - UR	REVISED -
		CHECKED - JL	REVISED -
	PLOT SCALE = 0.167 '/ in.	DRAWN - NM	REVISED -
	PLOT DATE = 12/3/2025	CHECKED - IH	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
MEDIAN SUPPORT FOUNDATION DETAILS
SHEET S1-10 OF S1-010 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	522
		CONTRACT NO. 62F94		
	ILLINOIS	FED. AID PROJECT		



TYPICAL PLAN

(Walkway not shown)

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

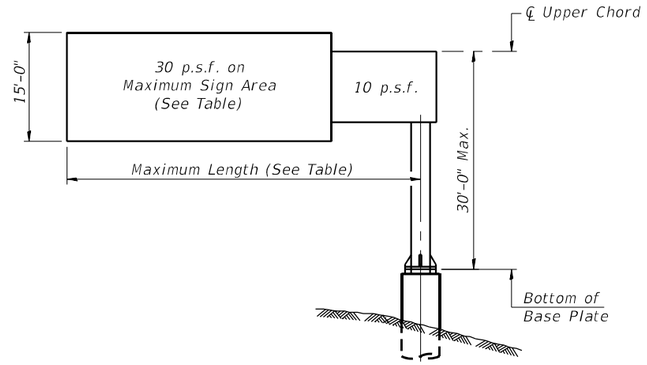
TYPICAL ELEVATION

Looking in Direction of Traffic

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.

Structure Number	Station	Design Truss Type	Cantilever Length (L)	Elev. A	Dim. D	Ds	Total Sign Area
1C099U052R132.0	206+56.00	III-C-A	34'-0"	541.11	20'-3"	7'-6""	138.75 Sq. Ft.
1C099I080L133.0	716+60.00	III-C-A	32'-9"	574.88	19'-6"	13'-6"	195.75 Sq. Ft.

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.



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 con guration 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 rst be approved by the Engineer as suitable for galvanizing and welding.

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' = 3,500 p.s.i.
fy = 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 Specificiations.

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 Concrete 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.

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	-
OVERHEAD SIGN STRUCTURE CANTILEVER TYPE III-C-A	Foot	66.8
OVERHEAD SIGN STRUCTURE WALKWAY, TYPE A	Foot	-
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yds.	18.6

OSC-A-1 2-17-2017

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	CHECKED - JL	REVISED -
PLOT SCALE = 0.167 ' / in.	DRAWN - SUR	REVISED -
PLOT DATE = 10/28/2025	CHECKED - JL	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

SHEET S1-01 OF S1-09 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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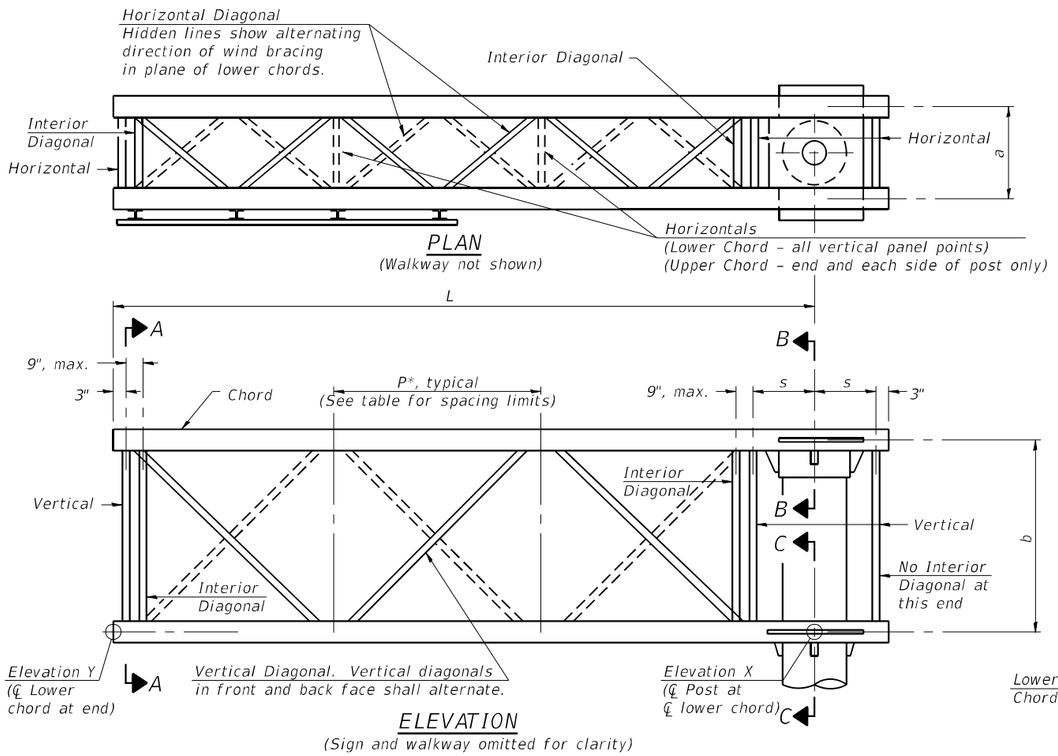
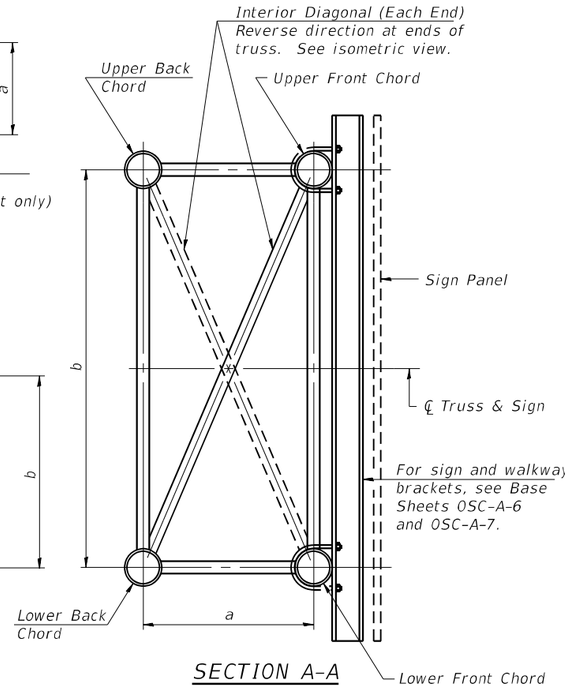
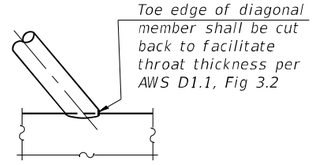
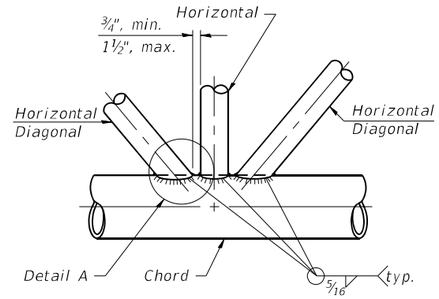
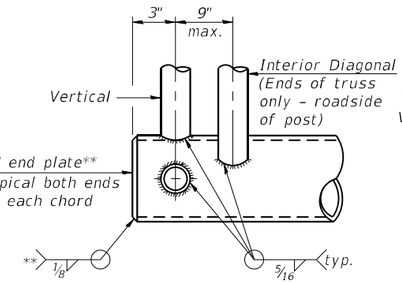
		CONTRACT NO. 62F94		
	ILLINOIS	FED. AID PROJECT		

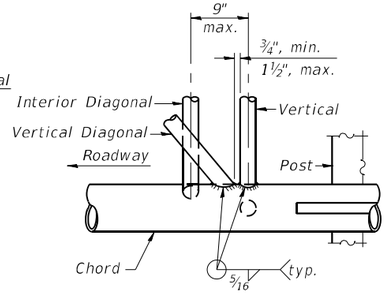












** Contractor may alternatively use standard aluminum drive- t cap to close ends. ½" Ø Drain hole in end plate / drive- t cap.

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

TYPICAL TRUSS UNIT

For Section B-B and Section C-C, see Base Sheet 0SC-A-3.

TRUSS UNIT TABLE

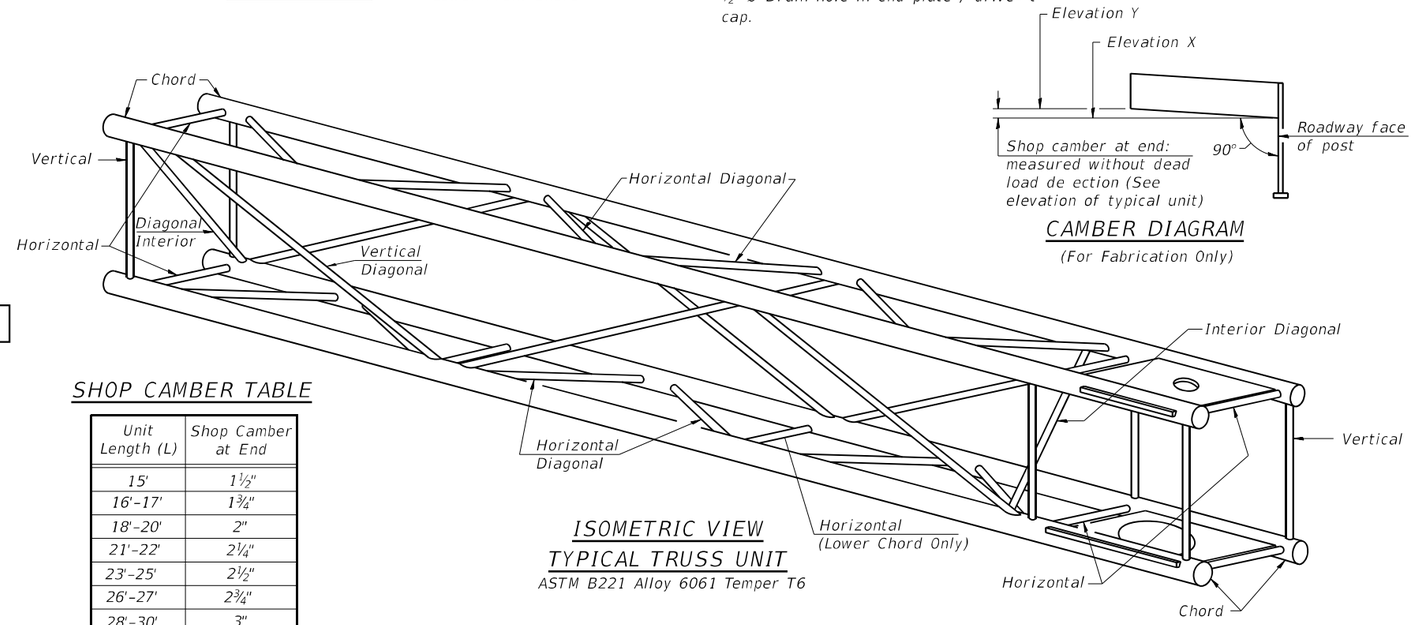
Truss Type	Dimension "a"	Dimension "b"	Dimension "s"	Limits for Panel Spacing (P)*	Up. & Low. Chord		Verticals; Horizontals; Vertical, Horizontal, and Interior Diagonals	
					O.D.	Wall	O.D.	Wall
I-C-A	24"	54"	16"	36" min. to 48" max.	5"	5/16"	2½"	5/16"
II-C-A	36"	66"	21"	42" min. to 54" max.	6½"	5/16"	3¼"	5/16"
III-C-A (35' Max.)	36"	84"	21"	48" min. to 66" max.	7"	⅜"	3½"	⅜"
III-C-A (>35' to 40')	36"	84"	21"	48" min. to 66" max.	8"	⅜"	3½"	⅜"

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

Structure Number	Station	Truss Type	Design Length (L)	Number of Panels Per Unit	Panel Length (P)*
1C099U052R132.0	206+56.00	III-C-A	34'-0"	6	5'-4"
1C099I080L133.0	716+60.00	III-C-A	32'-9"	6	5'-1½"

SHOP CAMBER TABLE

Unit Length (L)	Shop Camber at End
15'	1½"
16'-17'	1¾"
18'-20'	2"
21'-22'	2¼"
23'-25'	2½"
26'-27'	2¾"
28'-30'	3"
31'-32'	3¼"
33'-35'	3½"
36'-37'	4"
38'-40'	4½"



0SC-A-2 2-17-2017

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES – TRUSS DETAILS
ALUMINUM TRUSS & STEEL POST
SHEET S1-02 OF S1-09 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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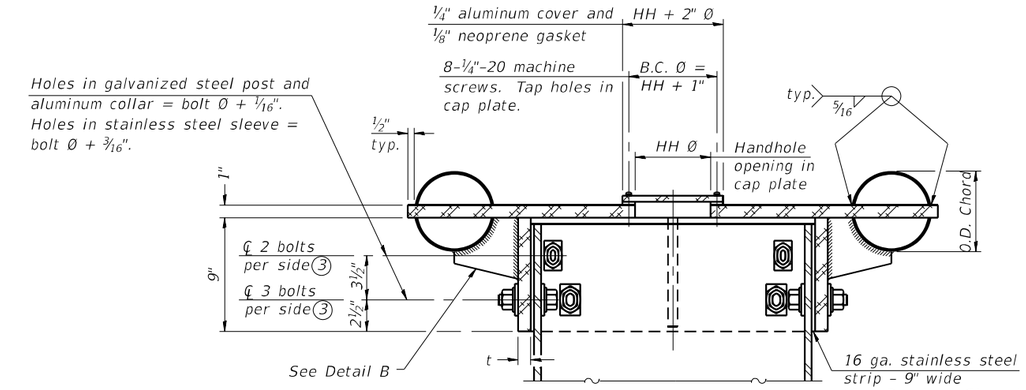
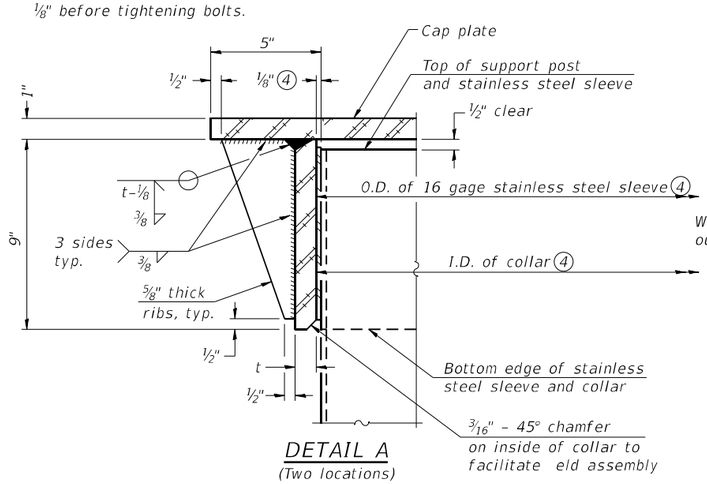


SECTION B–B

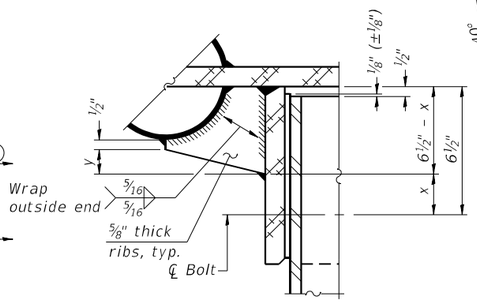
Bolts, washers (including contoured washers), and locknuts shall be stainless steel.

④ Collar I.D. shall be manufactured to correspond to O.D. of actual galvanized post and stainless steel sleeve plus ⅛" (±1/16"). Maximum gap between post and collar at any location equals ⅛" before tightening bolts.



DETAIL A

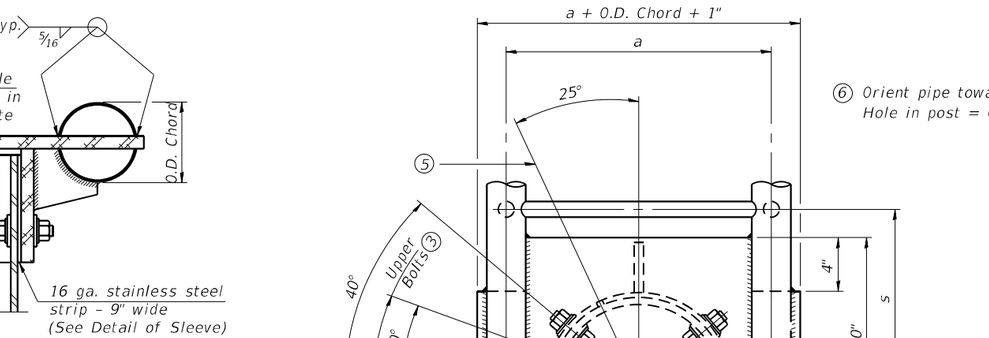
(Two locations)



DETAIL B

Two locations

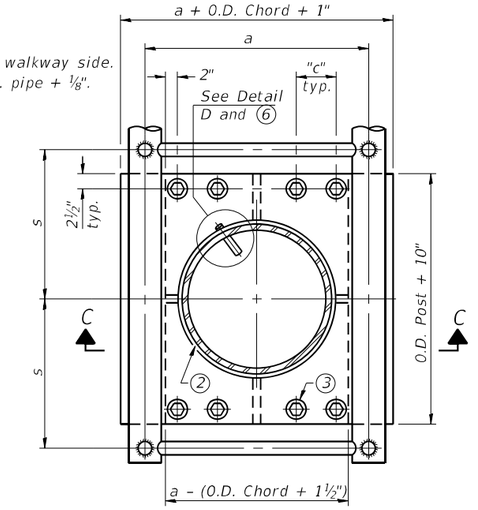
(For details not shown, see Detail C)



PLAN VIEW – TOP OF COLUMN

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

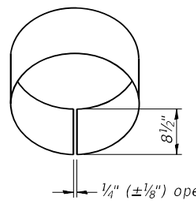
⑥ Orient pipe toward walkway side. Hole in post = O.D. pipe + ⅛".



SECTION THRU POST ABOVE LOWER CHORDS

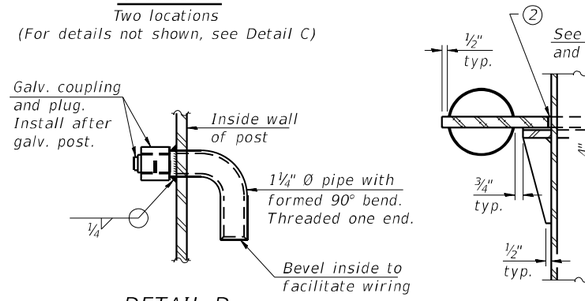
CONTOURED WASHERS

Bolt Size	Contoured Washers	
	Hole Dia.	B
⅞"	1"	2½"
1"	1⅛"	3"
1¼"	1⅜"	3¼"

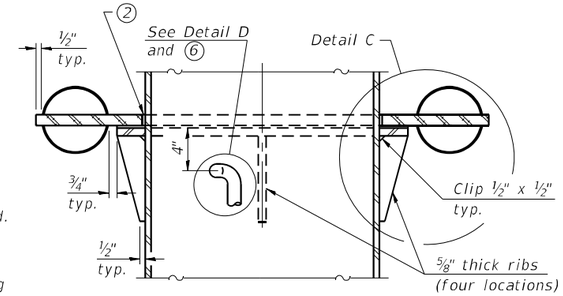


DETAIL OF STAINLESS STEEL SLEEVE

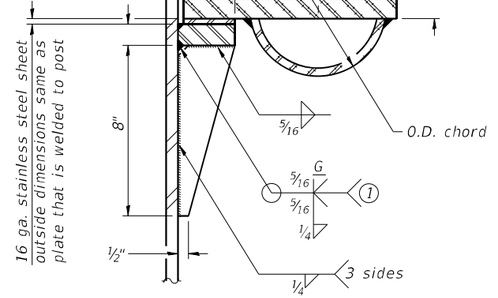
Weld to post after galvanizing. (Prepare post surface to insure tight, uniform t and allow welding.) Welds to be 1½" long at 6" cts. along top edge and at ¼" opening.



DETAIL D



SECTION C–C



DETAIL C

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" Ø (83#/')	⅞"	3¼"	8"	⅝"	1¾"	2¼"
II–C–A	24" Ø (125#/')	1"	3½"	12"	⅞"	2"	1¼"
III–C–A (35' max.)	24" Ø (125#/')	1¼"	3½"	12"	⅞"	2"	1"
III–C–A (>35' to 40')	24" Ø (171#/')	1¼"	3½"	12"	⅞"	2"	1"

① Grind top if required to fully seat aluminum plate and stainless steel sheet.

② After tightening lower connection bolts, ll 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 at washers each.

OSC-A-3 2-17-2017

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PLOT DATE = 10/28/2025	CHECKED - JL	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES – JUNCTURE DETAILS
ALUMINUM TRUSS & STEEL POST

SHEET S1-03 OF S1-09 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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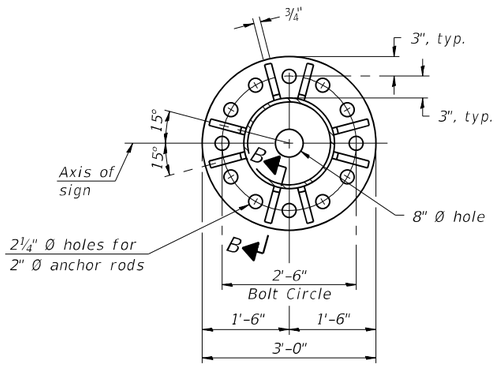
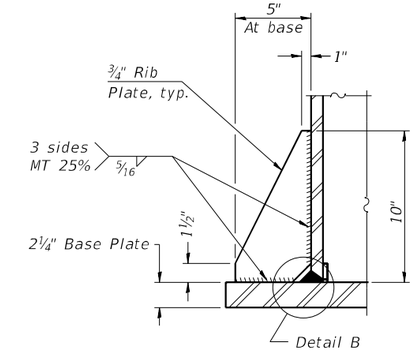
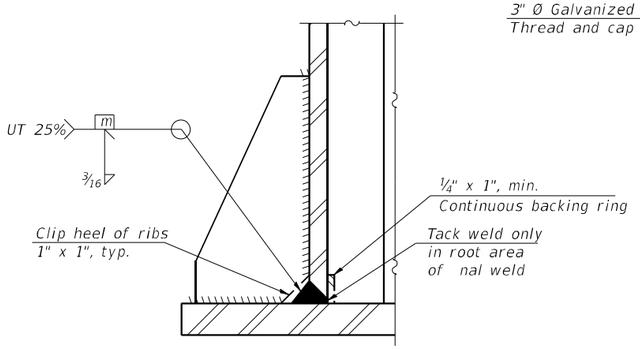
	ILLINOIS	FED. AID PROJECT		



SECTION A-A

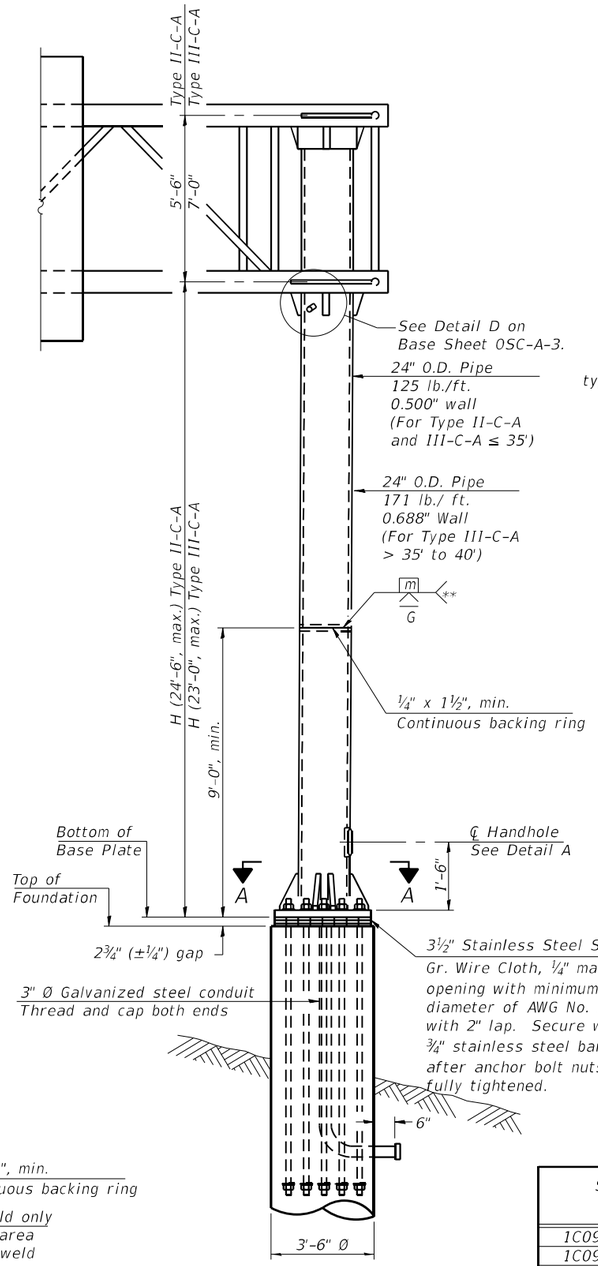


SECTION B-B



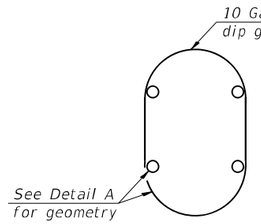
DETAIL B

(Typical rib)

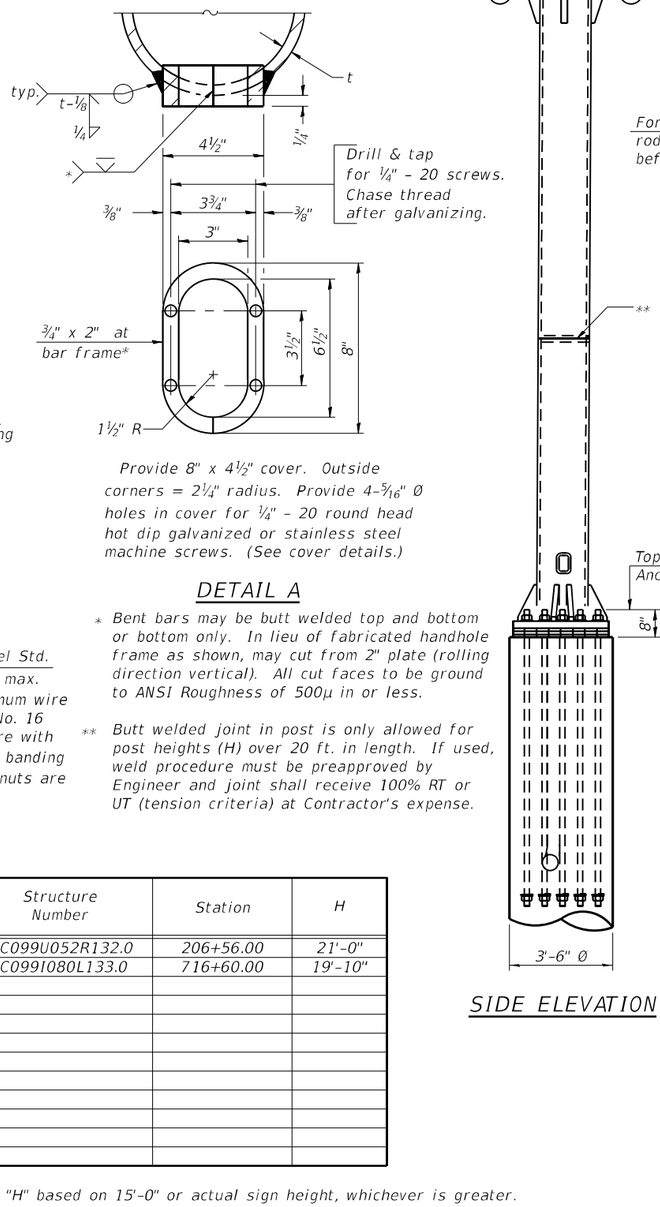


FRONT ELEVATION

For Foundation Details see Base Sheet 0SC-A-9.



HANDHOLE COVER



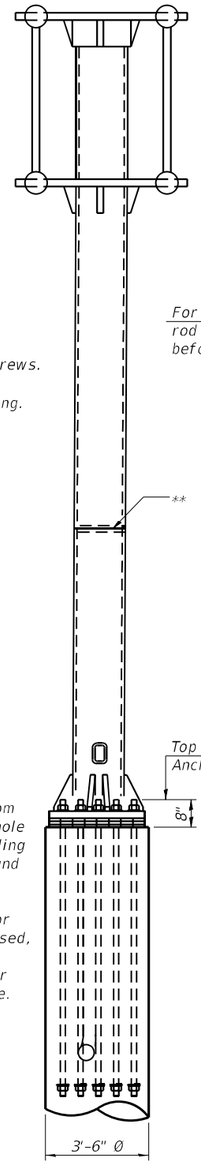
DETAIL A

* 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 500μ in or less.

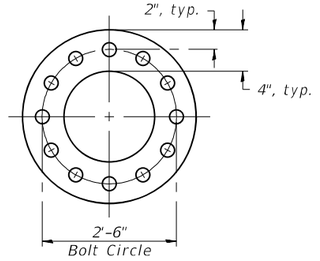
** Butt welded joint in post is only allowed for post heights (H) over 20 ft. in length. If used, weld procedure must be preapproved by Engineer and joint shall receive 100% RT or UT (tension criteria) at Contractor's expense.

Structure Number	Station	H
1C099U052R132.0	206+56.00	21'-0"
1C099I080L133.0	716+60.00	19'-10"

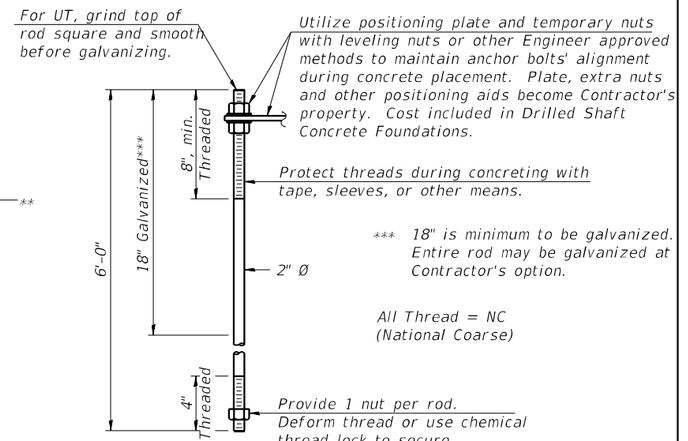
Note: "H" based on 15'-0" or actual sign height, whichever is greater.



SIDE ELEVATION



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, quali ed in accord with ANSI guidelines, to insure no rejectable aws exist in the upper 18" (tension criteria). Cost of testing included in Drilled Shaft Concrete Foundations.

0SC-A-5 2-17-2017

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PLOT DATE = 10/28/2025	CHECKED - JL	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 S1-04 OF S1-09 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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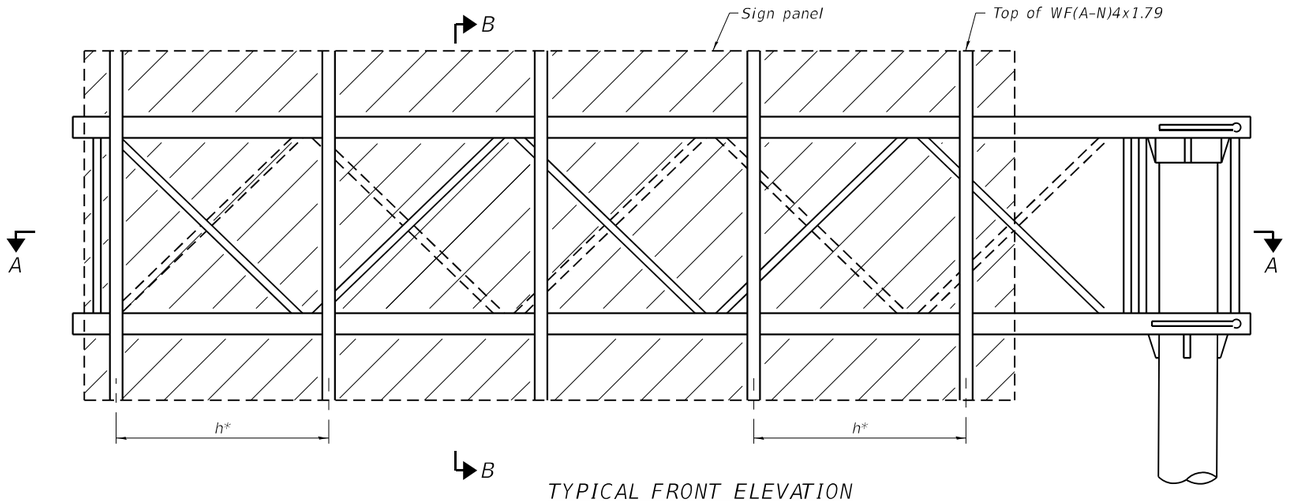
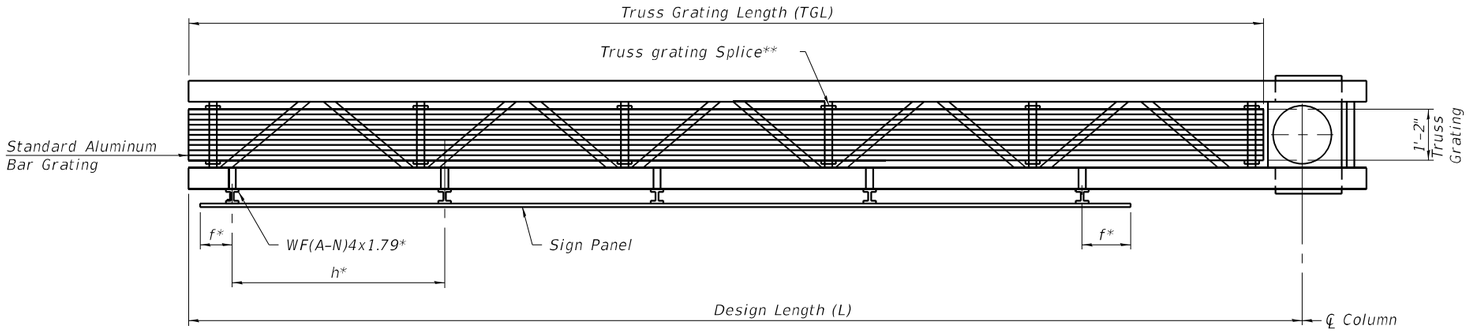


TYPICAL FRONT ELEVATION

BRACKET TABLE

WF(A-N)4x1.79 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

Structure Number	Station	TGL
1C099U052R132.0	206+56.00	32'-6"
1C099I080L133.0	716+60.00	31'-3"



SECTION A-A

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

* Space sign brackets WF(A-N)4x1.79 for e ciency and within limits shown:

f = 12" maximum, 4" minimum (End of sign to ℄ of nearest bracket)
h = 6'-0" maximum (℄ to ℄ sign support brackets, WF(A-N)4x1.79

** Use and location of grating splices are optional, based on lengths needed and material availability.

Notes:

For details of sign placement, sign brackets, truss gratings, grating splices, and Section B-B, see Base Sheet OSC-A-7-NW.

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

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

OSC-A-6-NW 4-1-2020

MODEL: Default
FILE NAME: D162F94-01-sht-OSC-A-6-NW-CANT.dgn

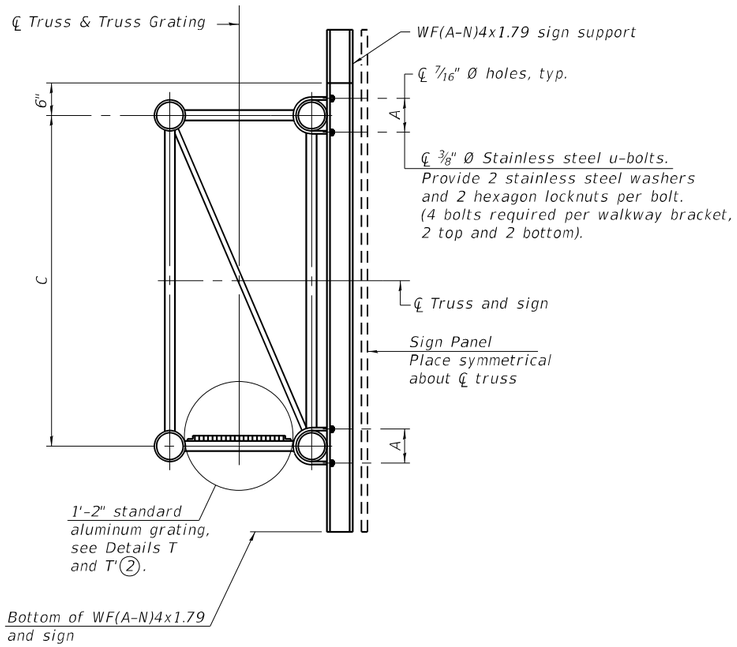
Accurate GROUP, INC

USER NAME = jploquinto	DESIGNED - IH	REVISED -
	CHECKED - JL	REVISED -
PLOT SCALE = 0.167 ' / in.	DRAWN - SUR	REVISED -
PLOT DATE = 10/28/2025	CHECKED - JL	REVISED -

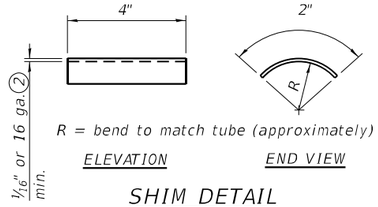
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES – ALUMINUM WALKWAY
DETAILS – ALUMINUM TRUSS & STEEL POST
SHEET S1-05 OF S1-09 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	527
		CONTRACT NO. 62F94		
	ILLINOIS	FED. AID PROJECT		



SECTION B–B

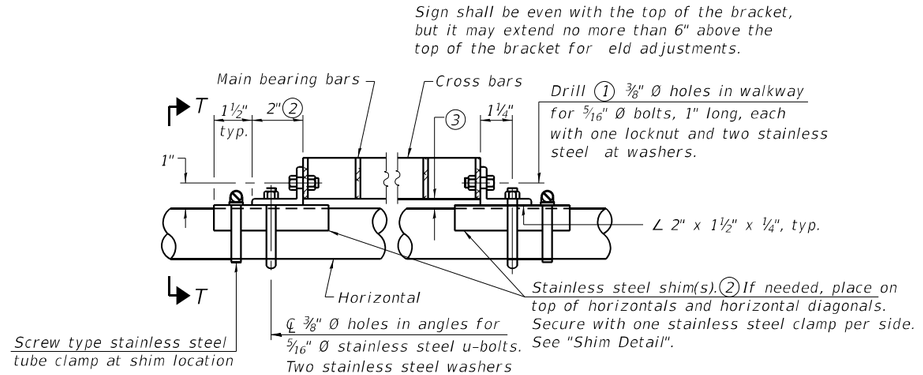


SHIM DETAIL

(1) Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment.

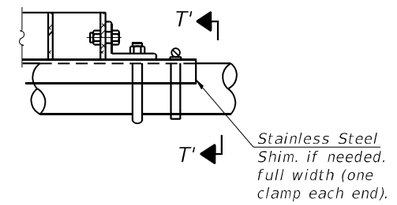
(2) Stainless steel shims shall be placed as shown in Detail T if needed to compensate for alignment variations between horizontal and diagonal pipes beyond adjustment provided by angles. Thicker shims may be used subject to shims performing properly.

(3) Tube to grating gap may vary from 0 to 1/2", max. to align walkway, allow for camber, etc.



DETAIL T

(Continuous Truss 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.

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.

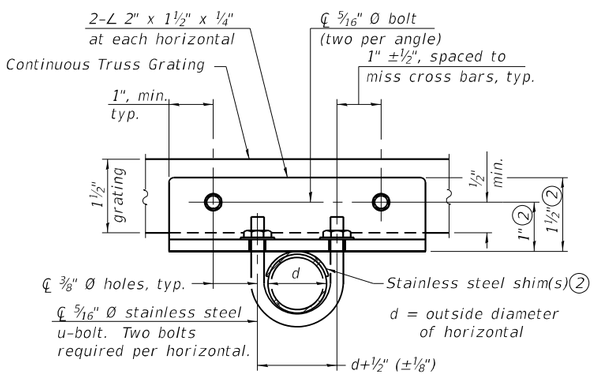
OR

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

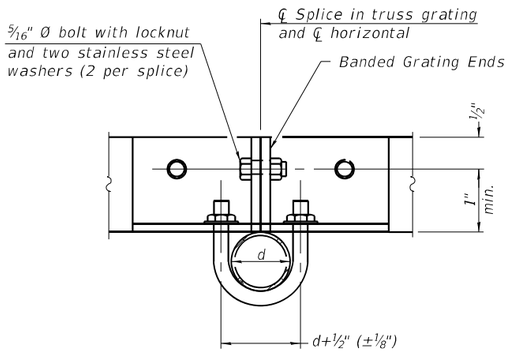
Main bars shall conform to ASTM B221 Alloy 6061-T6 and have a minimum section modulus equal to 0.0705 in.³ per bar, a depth of 1 1/2", spaced on 1 3/16" centers.

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

Structure Number	Station	A	C
1C099U052R132.0	206+56.00	7 1/2"	7'-0"
1C099I080L133.0	716+60.00	7 1/2"	7'-0"



SECTION T–T



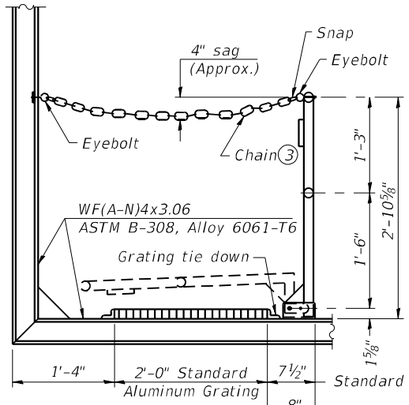
SECTION T'–T'

MODEL: Default
FILE NAME: D162F94-01-sht-OSC-A-7-NW-CANT.dgn

OSC–A–7–NW 4–1–2020

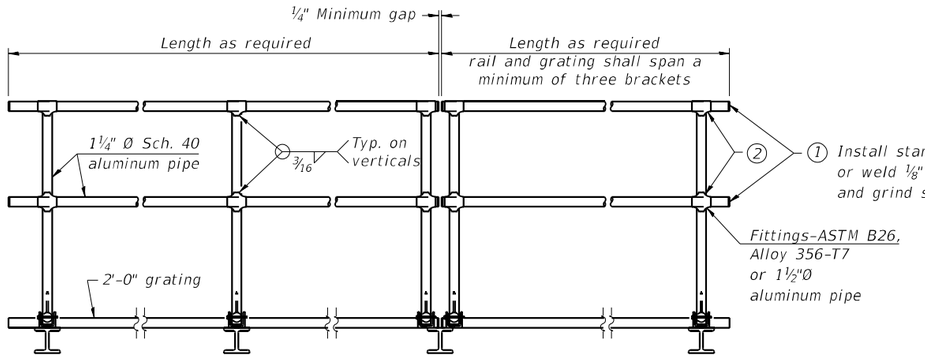
Accurate GROUP, INC	USER NAME = jploquinto	DESIGNED - IH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CANTILEVER SIGN STRUCTURES – WALKWAY DETAILS ALUMINUM TRUSS & STEEL POST
		CHECKED - JL	REVISED -		SHEET S1-06 OF S1-09 SHEETS
	PLOT SCALE = 0.167 '/ in.	DRAWN - SUR	REVISED -		
	PLOT DATE = 10/28/2025	CHECKED - JL	REVISED -		

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	528
		CONTRACT NO. 62F94		
		ILLINOIS	FED. AID PROJECT	

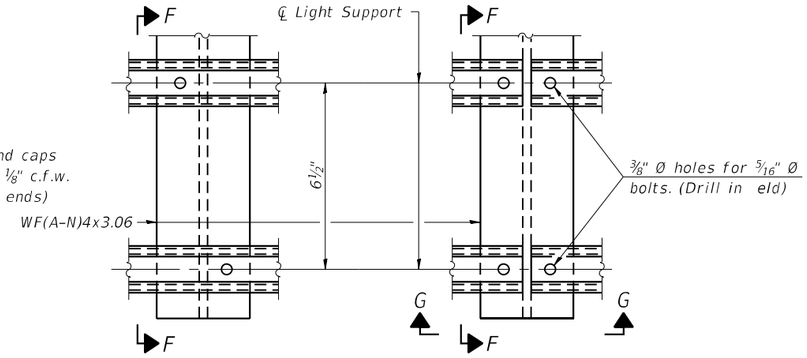


SIDE ELEVATION

(Showing Safety Chain W/O Sign)



FRONT ELEVATION



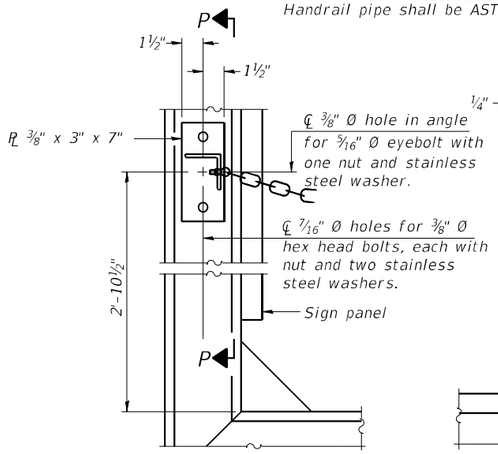
DETAIL F

DETAIL G

HANDRAIL DETAILS

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

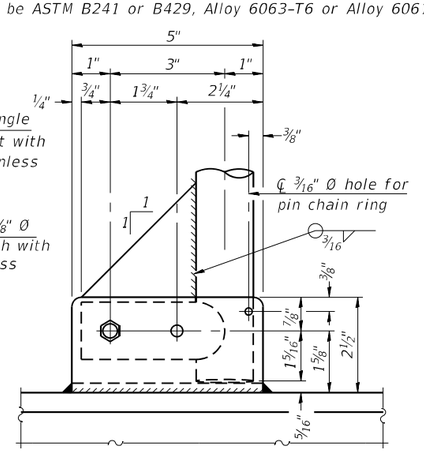
② Horizontal handrail member shall be continuous thru tting. Provide 7/16" Ø hole in tting for ⅜" Ø bolt. Field drill 7/16" Ø hole in horizontal rail member. Provide locknut and two stainless steel washers for bolt. (Use 5/16" eyebolts in 7/16" Ø holes on top rail at ends only.)



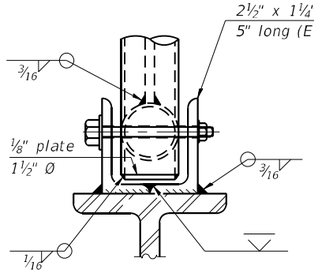
ALTERNATE SAFETY CHAIN ATTACHMENT

(With Sign Present)

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

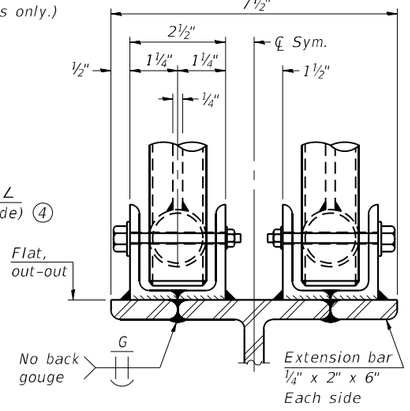


SIDE ELEVATION



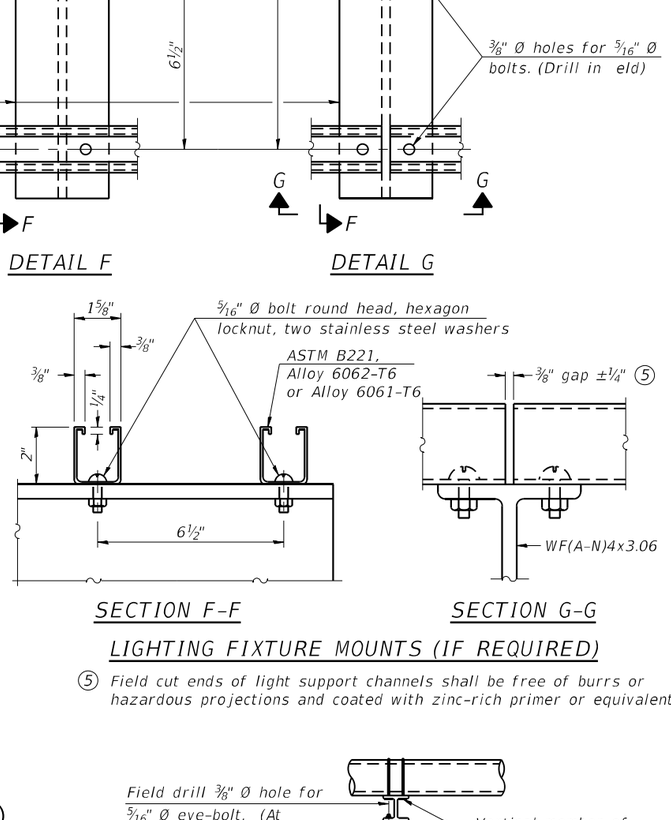
FRONT ELEVATION

Details not shown same as "ELEVATION" at right.



ELEVATION AT HANDRAIL JOINT ④

Details not shown same as "FRONT ELEVATION"

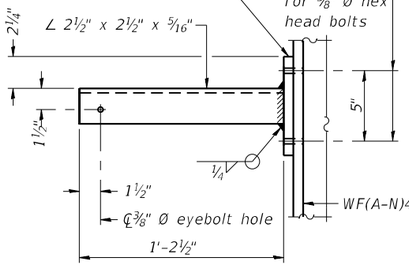


SECTION F-F

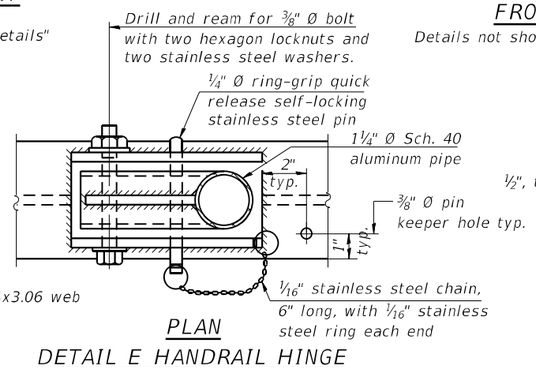
SECTION G-G

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.

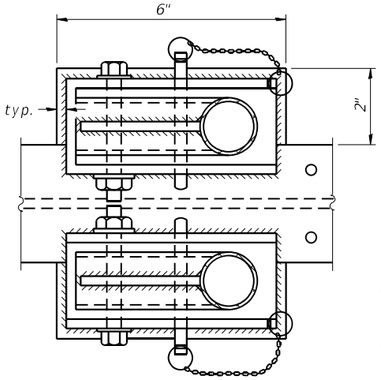


SECTION P-P



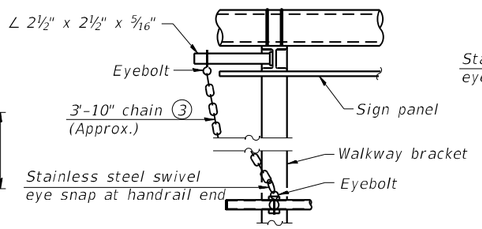
PLAN

DETAIL E HANDRAIL HINGE



PLAN AT HANDRAIL JOINT

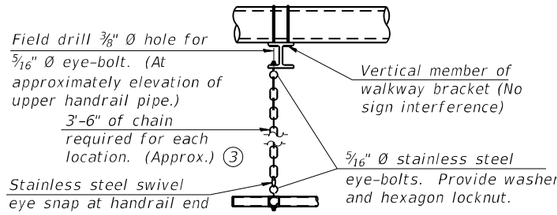
Details not shown same as "PLAN"



ALTERNATE SAFETY CHAIN ATTACHMENT

Details not shown similar to "Safety Chain" Details

(Walkway omitted for clarity)



SAFETY CHAIN

One required for each end of each walkway.

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.

NOTE:

1. No external walkway or handrail shall be installed on the sign structure.

OSC-A-8 2-17-2017

MODEL: Default
FILE NAME: D162F94-01-sht-OSC-A-8-CANT.dgn

Accurate GROUP, INC

USER NAME = jploquinto	DESIGNED - IH	REVISED -	
	CHECKED - JL	REVISED -	
PLOT SCALE = 0.167 ' / in.	DRAWN - SUR	REVISED -	
PLOT DATE = 10/28/2025	CHECKED - JL	REVISED -	

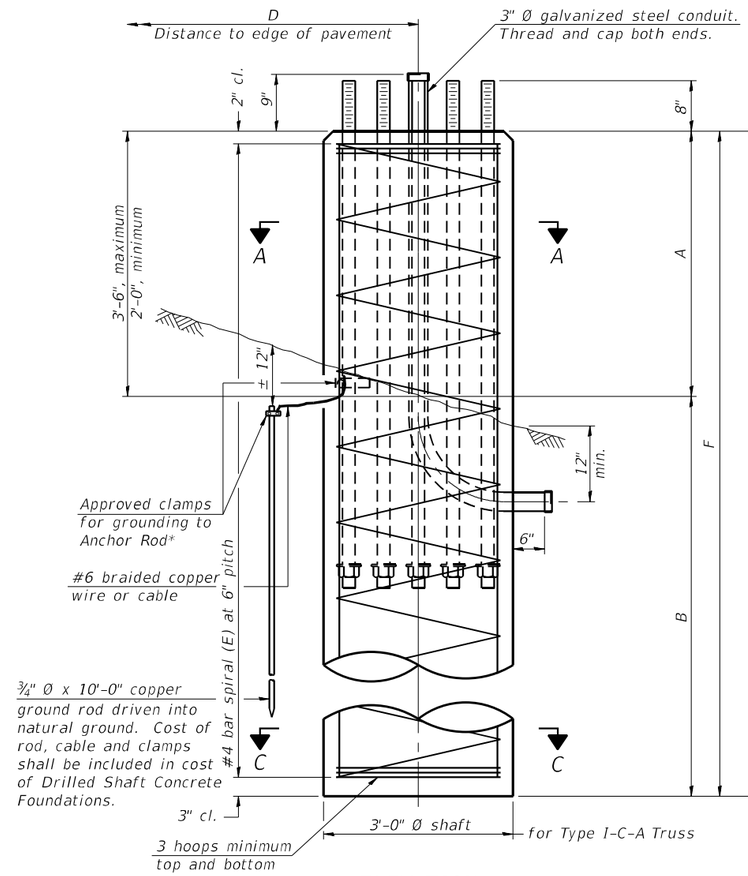
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES – HANDRAIL DETAILS
ALUMINUM TRUSS & STEEL POST

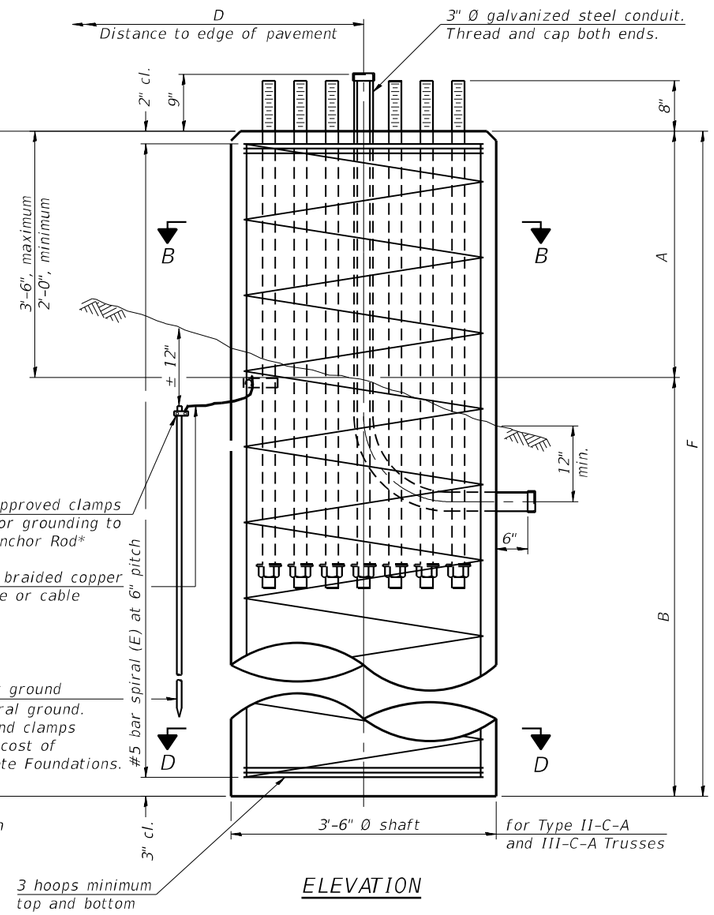
SHEET S1-07 OF S1-09 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	529
		CONTRACT NO. 62F94		
		ILLINOIS	FED. AID PROJECT	

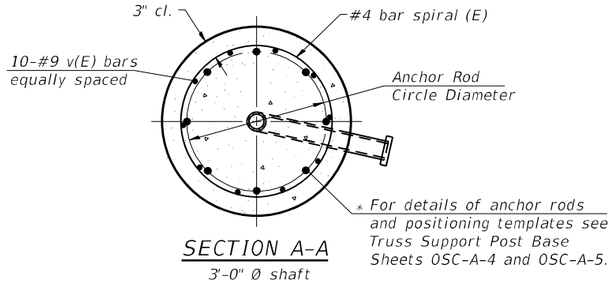
* Grind anchor rod to bright finish at ground clamp location before installing clamp.



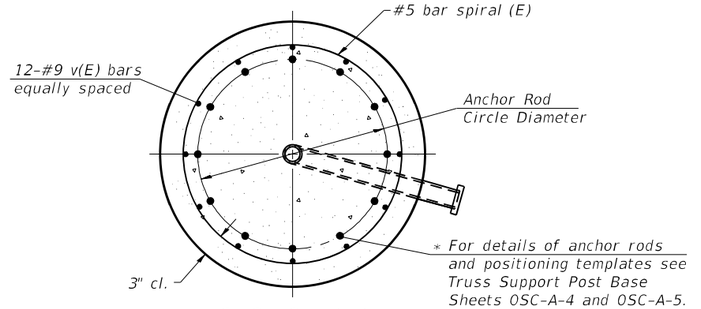
ELEVATION



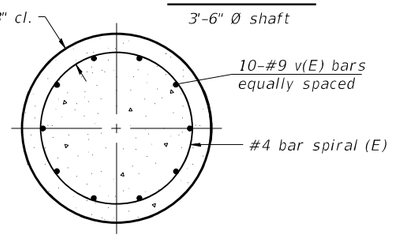
ELEVATION



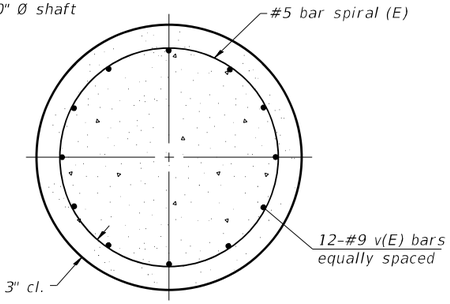
SECTION A-A
3'-0" Ø shaft



SECTION B-B
3'-6" Ø shaft



SECTION C-C
3'-0" Ø shaft



SECTION D-D
3'-6" Ø shaft

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.

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

A normal surface finish followed by a Concrete 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 No.	Anchor Rods Diameter (in)	Anchor Rod Circle 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
1C099U052R132.0	206+56.00	III-C-A	3'-6"	542.47	516.47	2.5	3'-6"	22'-6'	26'-0"	9.3
1C099I080L133.0	716+60.00	III-C-A	3'-6"	577.37	551.37	2.8	3'-6"	22'-6"	26'-0"	9.3

OSC-A-9 2-17-2017

MODEL: Default
FILE NAME: D162F94-01-sht-OSC-A-9-CANT.dgn

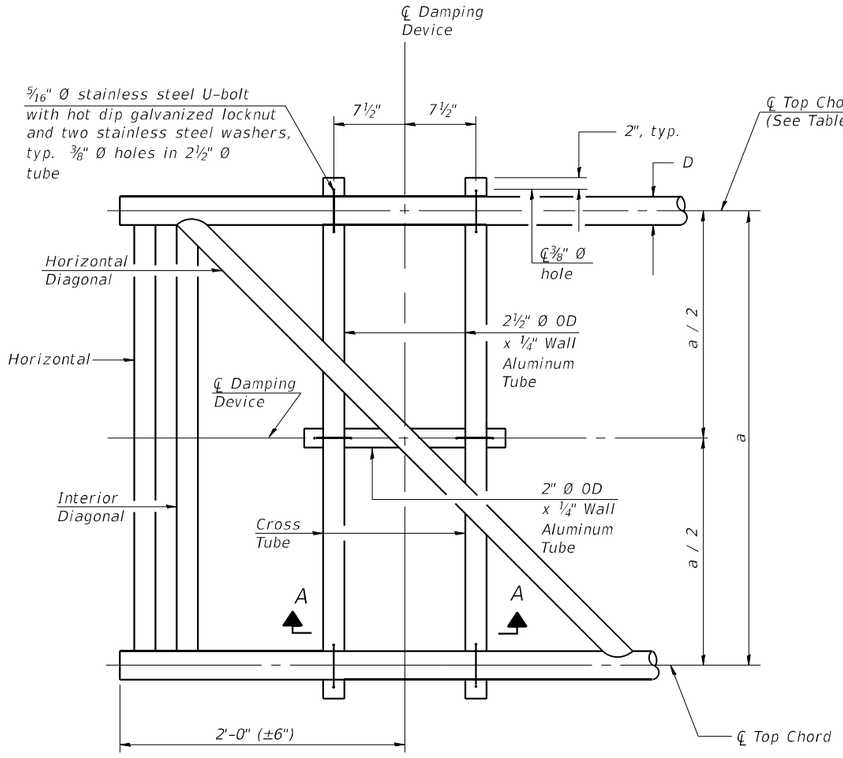
Accurate GROUP, INC

USER NAME = jploquinto	DESIGNED - IH	REVISED -
	CHECKED - JL	REVISED -
PLOT SCALE = 0.167 '/ in.	DRAWN - SUR	REVISED -
PLOT DATE = 10/28/2025	CHECKED - JL	REVISED -

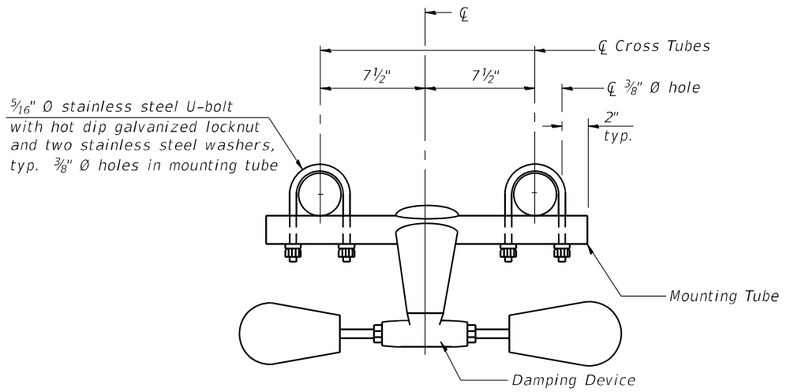
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES – DRILLED SHAFT
ALUMINUM TRUSS & STEEL POST
SHEET S1-08 OF S1-09 SHEETS

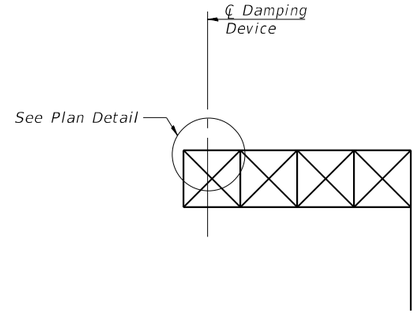
F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	530
		CONTRACT NO. 62F94		
	ILLINOIS	FED. AID PROJECT		



PLAN DETAIL



TRUSS DAMPING DEVICE CONNECTION DETAIL



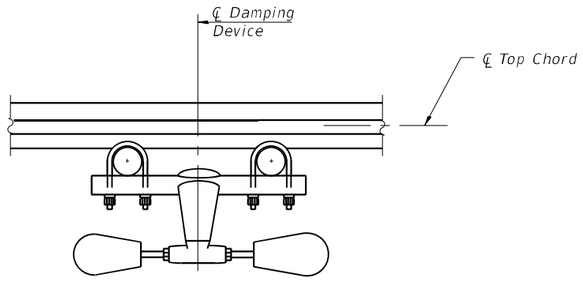
ELEVATION

Aluminum Cantilever Sign Structure

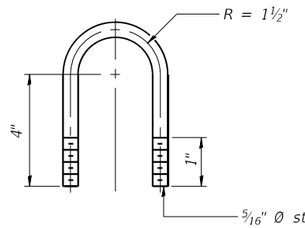
GENERAL NOTES

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

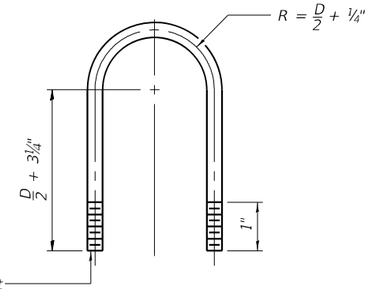


SECTION A-A



DAMPING DEVICE MOUNTING TUBE U-BOLT DETAIL

(Typical)



TOP CHORD TO CROSS TUBE U-BOLT DETAIL

(Typical)

0SC-A-D 2-17-2017

MODEL: Default
FILE NAME: D:\62F94-01-sht-0SC-A-D-CANT.dgn

Accurate GROUP, INC	USER NAME = jploquinto	DESIGNED - IH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CANTILEVER SIGN STRUCTURE DAMPING DEVICE
		CHECKED - JL	REVISED -		
	PLOT SCALE = 0.167 '/ In.	DRAWN - SUR	REVISED -		
	PLOT DATE = 10/28/2025	CHECKED - JL	REVISED -		SHEET S1-09 OF S1-09 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	531
		CONTRACT NO. 62F94		
	ILLINOIS	FED. AID PROJECT		

TRAFFIC SIGNAL LEGEND

(NOT TO SCALE)

ITEM	EXISTING	PROPOSED
CONTROLLER CABINET		
COMMUNICATION CABINET	ECC	CC
MASTER CONTROLLER	EMC	MC
MASTER MASTER CONTROLLER	EMMC	MMC
UNINTERRUPTABLE POWER SUPPLY		
SERVICE INSTALLATION -(P) POLE MOUNTED	P	P
SERVICE INSTALLATION -(G) GROUND MOUNTED -(GM) GROUND MOUNTED METERED	G GM	G GM
TELEPHONE CONNECTION	ET	T
STEEL MAST ARM ASSEMBLY AND POLE		
ALUMINUM MAST ARM ASSEMBLY AND POLE		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE		
SIGNAL POST -(BM) BARREL MOUNTED - TEMPORARY		BM
WOOD POLE		
GUY WIRE		
SIGNAL HEAD		
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD OPTICALLY PROGRAMMED	P P	P P
FLASHER INSTALLATION -(FS) SOLAR POWERED	F FS F FS	F FS F FS
PEDESTRIAN SIGNAL HEAD		
PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON	APS	APS
RADAR DETECTION SENSOR	R	R
VIDEO DETECTION CAMERA	V	V
RADAR/VIDEO DETECTION ZONE		
PAN, TILT, ZOOM (PTZ) CAMERA	PTZ	PTZ
EMERGENCY VEHICLE LIGHT DETECTOR		
CONFIMATION BEACON		
WIRELESS INTERCONNECT		
WIRELESS INTERCONNECT RADIO REPEATER	ERR	RR

ITEM	EXISTING	PROPOSED
HANDHOLE -SQUARE -ROUND		
HEAVY DUTY HANDHOLE -SQUARE -ROUND	H H	H H
DOUBLE HANDHOLE		
JUNCTION BOX		
RAILROAD CANTILEVER MAST ARM		
RAILROAD FLASHING SIGNAL		
RAILROAD CROSSING GATE		
RAILROAD CROSSBUCK		
RAILROAD CONTROLLER CABINET		
UNDERGROUND CONDUIT (UC), GALVANIZED STEEL		
TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE		
SYSTEM ITEM	S	SP
INTERSECTION ITEM	I	IP
REMOVE ITEM		R
RELOCATE ITEM		RL
ABANDON ITEM		A
CONTROLLER CABINET AND FOUNDATION TO BE REMOVED		RCF
MAST ARM POLE AND FOUNDATION TO BE REMOVED		RMF
SIGNAL POST AND FOUNDATION TO BE REMOVED		RPF
DETECTOR LOOP, TYPE I		
PREFORMED DETECTOR LOOP	P P	P P
SAMPLING (SYSTEM) DETECTOR	S S	S S
INTERSECTION AND SAMPLING (SYSTEM) DETECTOR	IS IS	IS IS
QUEUE AND SAMPLING (SYSTEM) DETECTOR	QS QS	QS QS
WIRELESS DETECTOR SENSOR	W	W
WIRELESS ACCESS POINT		

ITEM	EXISTING	PROPOSED
SIGNAL HEAD -(P) PROGRAMMABLE SIGNAL HEAD	R Y G Y G; R Y G Y G P	R Y G Y G; R Y G Y G P
SIGNAL HEAD WITH BACKPLATE -(P) PROGRAMMABLE SIGNAL HEAD -(RB) RETROREFLECTIVE BACKPLATE	R Y G Y G; P; RB	R Y G Y G; P; RB
PEDESTRIAN SIGNAL HEAD AT RAILROAD INTERSECTIONS		
PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER	C D	C D
ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN"		
NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE. ALL DETECTOR LOOP CABLE TO BE SHIELDED	5	5
GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)	1#6	1#6
ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C	1	1
COAXIAL CABLE	C	C
VENDOR CABLE	V	V
COPPER INTERCONNECT CABLE, NO. 18, 3 PAIR TWISTED, SHIELDED	6#18	6#18
FIBER OPTIC CABLE -NO. 62.5/125, MM12F -NO. 62.5/125, MM12F SM12F -NO. 62.5/125, MM12F SM24F	12F 24F 36F	12F 24F 36F
GROUND ROD -(C) CONTROLLER -(M) MAST ARM -(P) POST -(S) SERVICE	C M P S	C M P S

TS SHT NO. 1

MODEL: Default
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PLOT DATE = 3/4/2019	DATE - 9/29/2016	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET 1 OF 7 SHEETS | STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	532
	TS-05	CONTRACT NO. 62F94		
		ILLINOIS	FED. AID PROJECT	

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LOOP DETECTOR NOTES

1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.

2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.

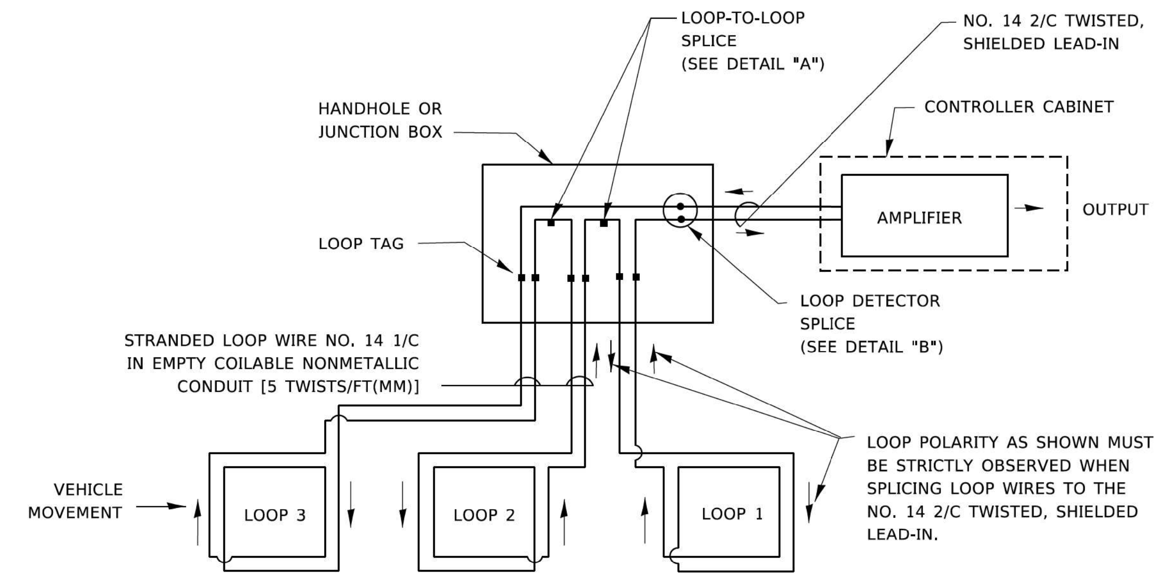
3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.

4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.

5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.

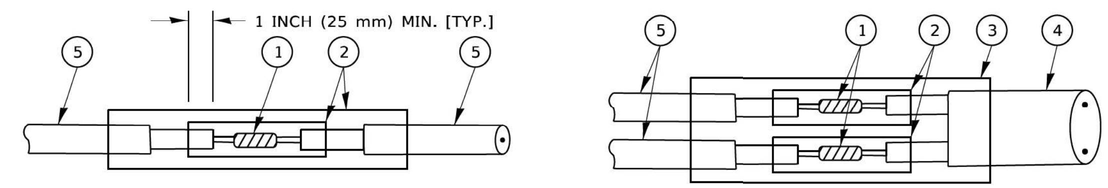
6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.

7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.



DETECTOR LOOP WIRING SCHEMATIC

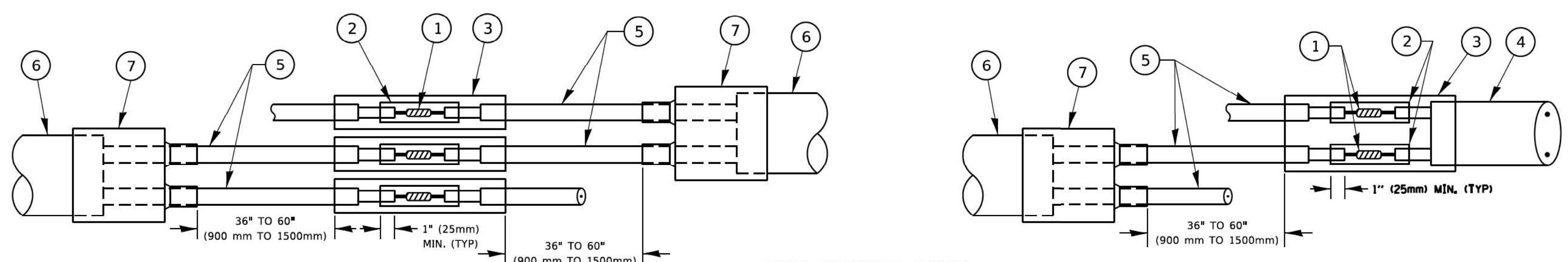
- LOOPS SHALL BE SPLICED IN SERIES.
  SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE,
- THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.



DETAIL "A"
LOOP-TO-LOOP SPLICE

DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE

PRE–FORMED LOOP

DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

LOOP DETECTOR SPLICE

(1) WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE STAGGERED.

(2) WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.

(3) WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER GRADE.

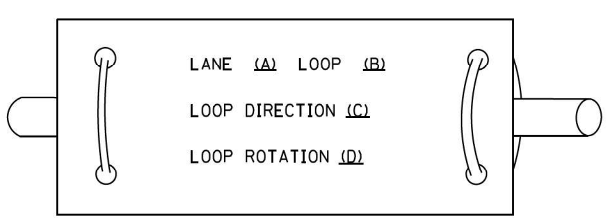
(4) NO. 14 2/C TWISTED, SHIELDED CABLE.

(5) LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE. PRE-FORMED LOOP

(6) XL POLYOLEFIN 2 CONDUCTOR

(7) BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

LOOP LEAD–IN CABLE TAG



A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY.
B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

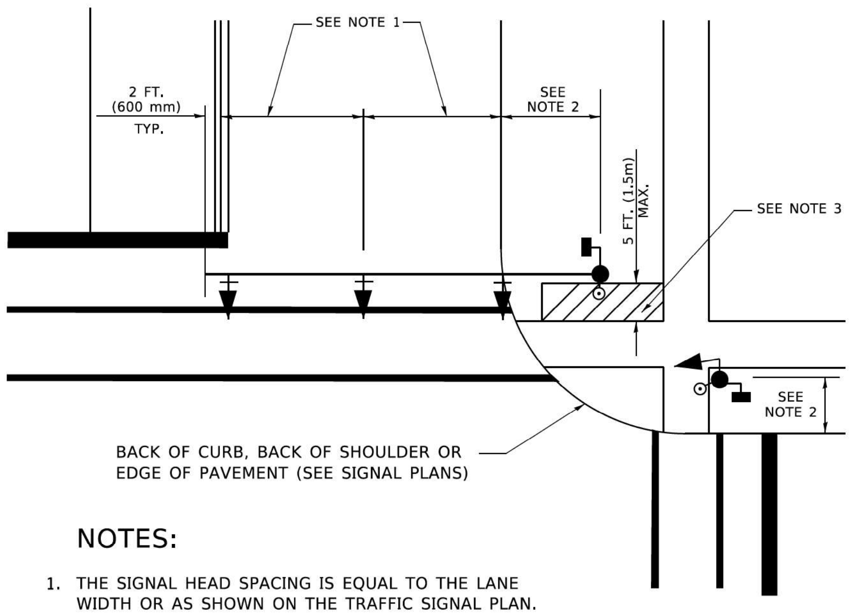
TS SHT NO. 2

USER NAME = footemj	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS
	DRAWN -	REVISED -		
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -		
PLOT DATE = 3/4/2019	DATE -	REVISED -		SCALE: NONE SHEET 2 OF 7 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	533
TS–05		CONTRACT NO. 62F94		
	ILLINOIS	FED. AID PROJECT		

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

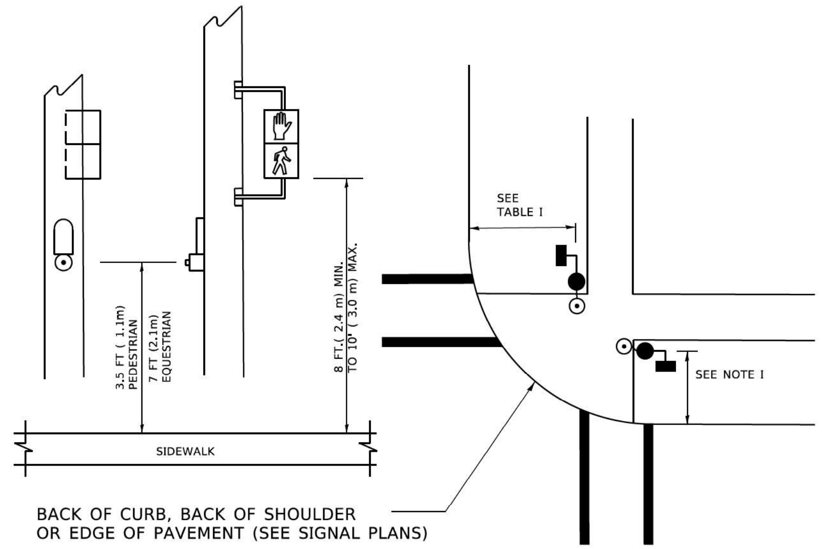
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



NOTES:

1. THE SIGNAL HEAD SPACING IS EQUAL TO THE LANE WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
5. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

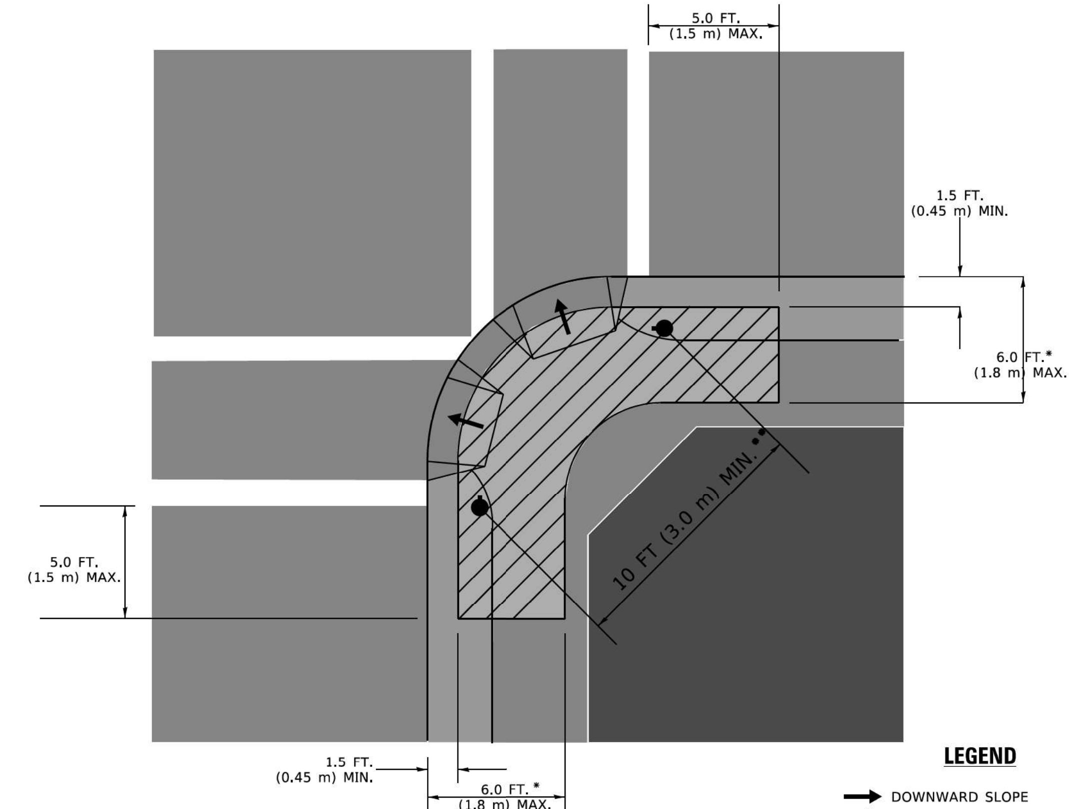
PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



NOTES:

1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
2. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE PEDESTRIAN SIGNAL POST OR THE PEDESTRIAN PUSH BUTTON POST.
3. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
4. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

RECOMMENDED PUSHBUTTON LOCATIONS



LEGEND

- DOWNWARD SLOPE
- PEDESTRIAN PUSHBUTTON
- RECOMMENDED PUSHBUTTON LOCATIONS

* WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT (1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.

** WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

NOTES:

1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
3. THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT. (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.
4. THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.
5. THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

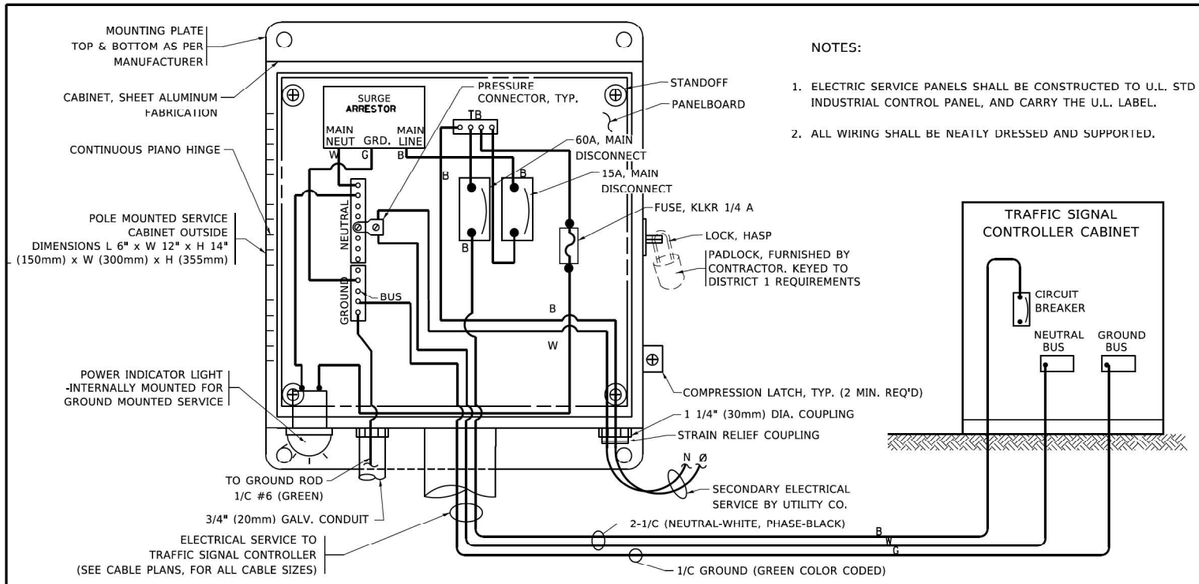
TRAFFIC SIGNAL EQUIPMENT OFFSET

TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.

NOTES:

1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TOTHE ROADWAY SIDE OF THE FOUNDATION.
4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

TS SHT NO. 3



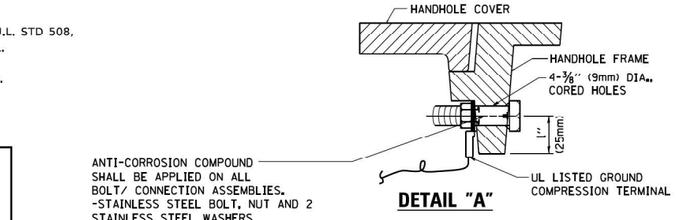
NOTES:

1. ELECTRIC SERVICE PANELS SHALL BE CONSTRUCTED TO U.L. STD 508, INDUSTRIAL CONTROL PANEL, AND CARRY THE U.L. LABEL.
2. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.

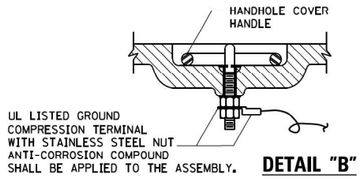
ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)

SERVICE INSTALLATION POLE MOUNT (SHOWN)

(NOT TO SCALE)



DETAIL "A"

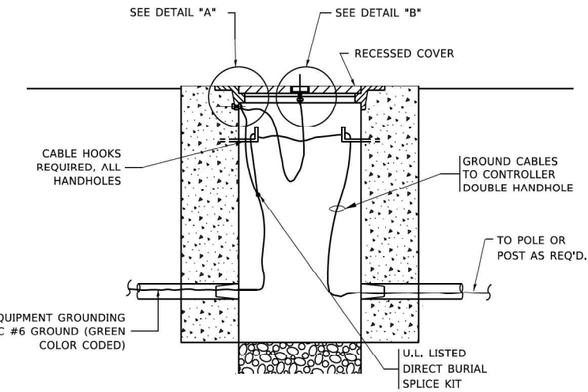


DETAIL "B"

NOTES:

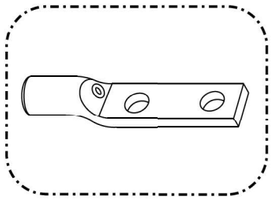
GROUNDING SYSTEM

1. THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC,). GROUND ROD SHALL BE 3/4" DIA. x 10'-0" (20mm x 3.0m) LONG, COPPER CLAD. ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
2. THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
3. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
4. THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.



HANDHOLE COVER & FRAME – GROUNDING DETAIL

(NOT TO SCALE)

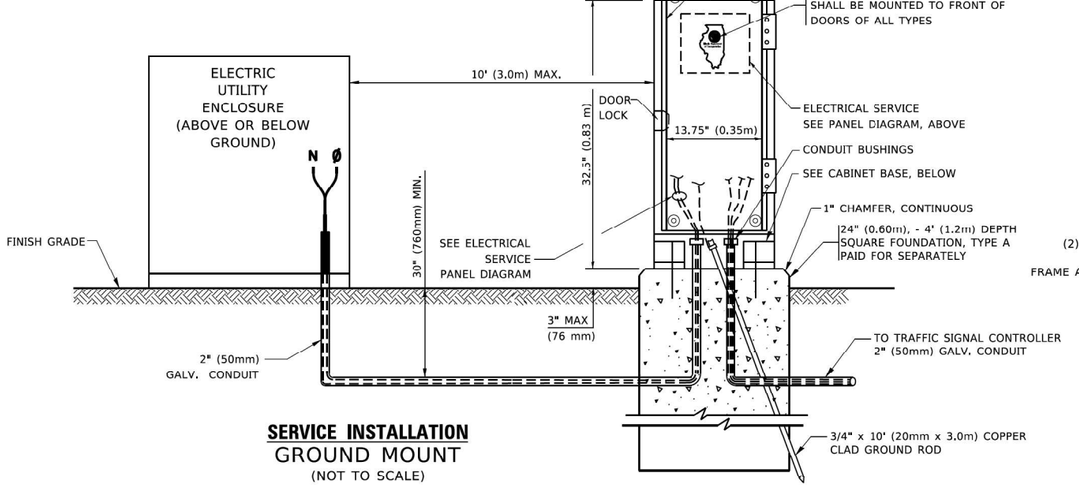


HEAVY-DUTY COMPRESSION TERMINAL (BURNDY TYPE YGHA OR APPROVED EQUAL)

¾" (20mm) HEAVY-DUTY GROUND ROD CLAMP (BURNDY TYPE GRC OR APPROVED EQUAL)

NOTES:

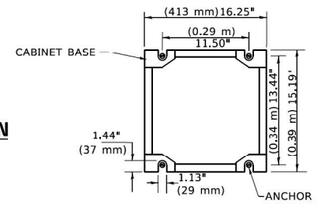
- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
- GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES
  6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES
  13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES.
  5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



SERVICE INSTALLATION

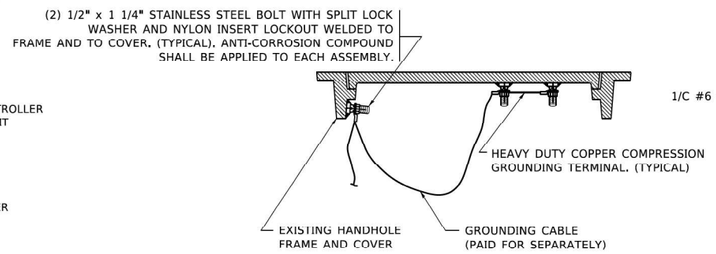
GROUND MOUNT

(NOT TO SCALE)



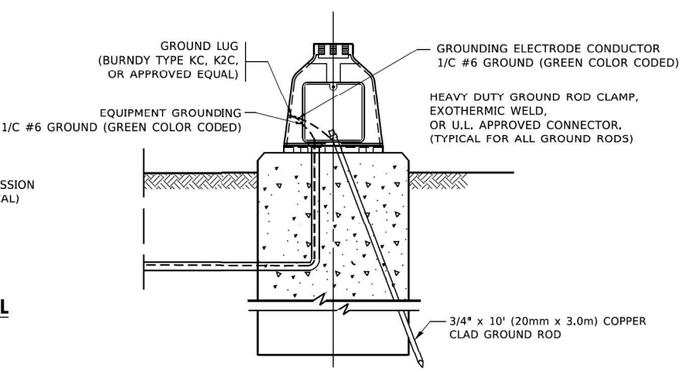
CABINET – BASE BOLT PATTERN

(NOT TO SCALE)



EXISTING HANDHOLE COVER & FRAME – GROUNDING DETAIL

(NOT TO SCALE)



MAST ARM POLE /POST–GROUNDING DETAIL

(NOT TO SCALE)

TS SHT NO. 4

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	DRAWN -	REVISED -	
PLOT SCALE = 50.0000 ' / In.	CHECKED -	REVISED -	
PLOT DATE = 3/4/2019	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET 4 OF 7 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	535
	TS-05	CONTRACT NO. 62F94		
	ILLINOIS FED. AID PROJECT			

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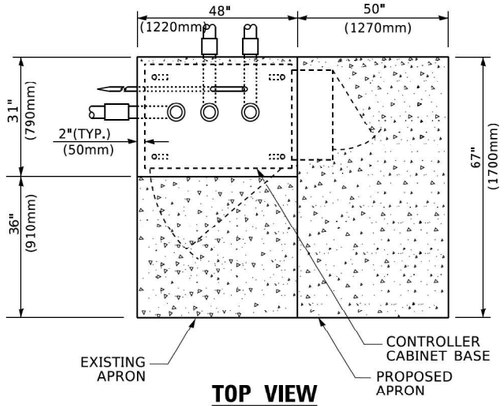
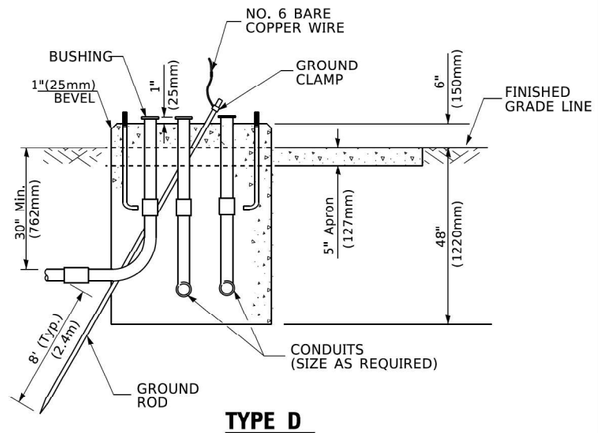
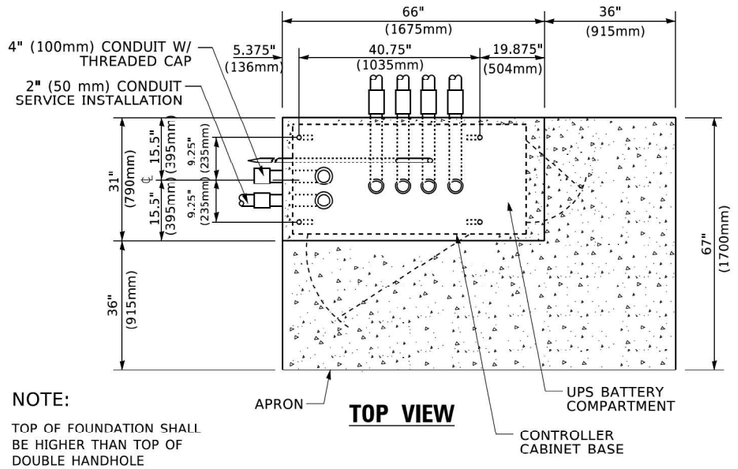


TOP VIEW



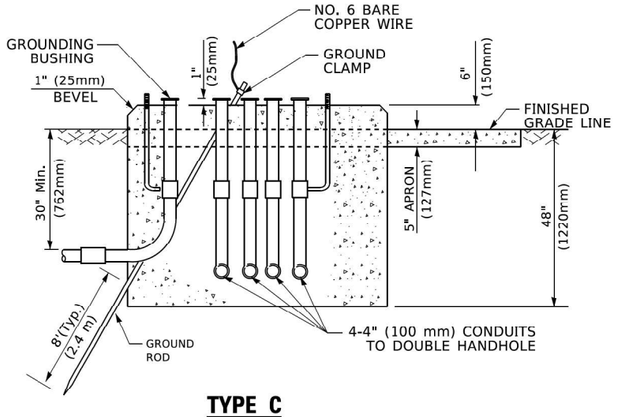
TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET



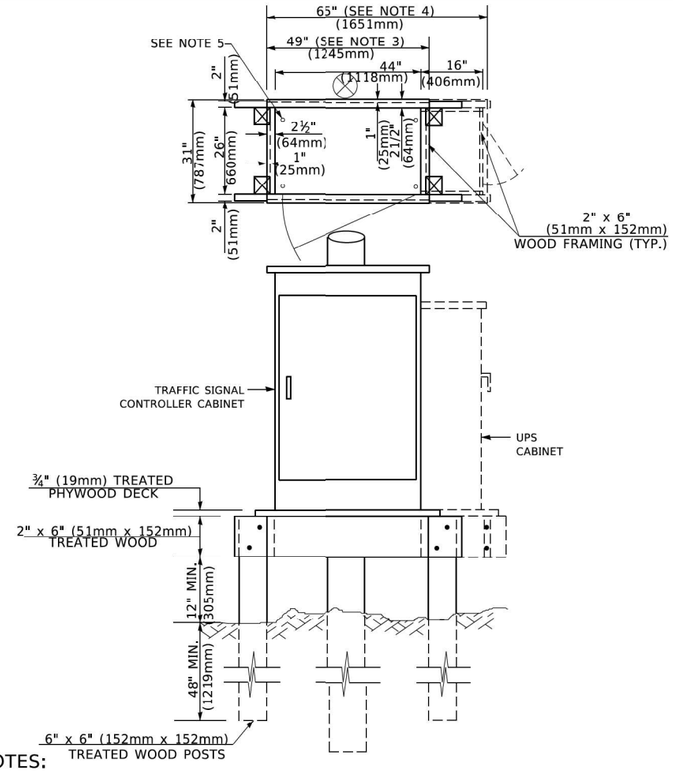
NOTE:

TOP OF FOUNDATION SHALL BE HIGHER THAN TOP OF DOUBLE HANDHOLE

TOP VIEW



TYPE C
FOR GROUND MOUNTED
SUPER P (TYPE IV) AND SUPER R (TYPE V)
CONTROLLER CABINETS



NOTES:

1. BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED
2. BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
3. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
4. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
5. DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
6. FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION..

TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM

CABLE SLACK LENGTH	FEET	METER
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6

CABLE SLACK

VERTICAL CABLE LENGTH	FEET	METER
MAST ARM POLE (MAST ARM MOUNTED SIGNAL HEAD) (L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20.0+L	6.0+L
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4.1
SERVICE INSTALLATION GROUND MOUNT	6.0	2.0
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

VERTICAL CABLE LENGTH

FOUNDATION	DEPTH
TYPE A - Signal Post	4'-0" (1.2m)
TYPE C - CONTROLLER W/ UPS	4'-0" (1.2m)
TYPE D - CONTROLLER	4'-0" (1.2m)
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4'-0" (1.2m)

DEPTH OF FOUNDATION

Mast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

NOTES:

1. These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (Qu) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & Structures should be contacted for a revised design if other conditions are encountered.
2. Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
3. Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations
4. For mast arm assemblies with dual arms refer to state standard 878001..

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

TS SHT NO. 5

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET 5 OF 7 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	TS-05	CONTRACT NO. 62F94		
	ILLINOIS FED. AID PROJECT			

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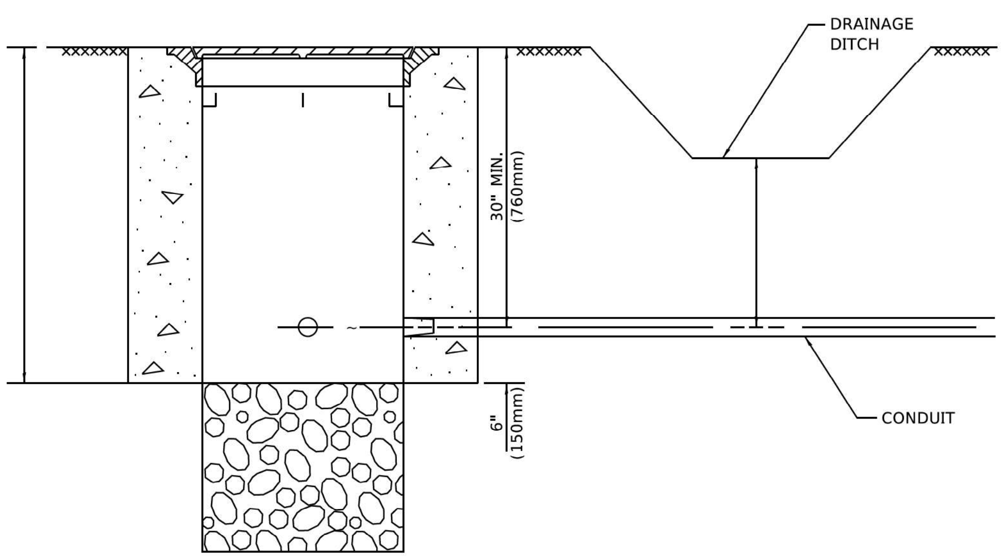

NOTES:

1. CONDUIT DEPTH SHALL BE A MINIMUM OF 30" (760mm) BELOW THE BOTTOM OF THE DRAINAGE DITCH OR ANY SLOPING GROUND
2. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL CONDUIT PLACED UNDER ROADWAY PAVEMENT, MULTI-USE PATHS, SIDEWALKS AND SOIL SURFACES.
3. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL HANDHOLES, HEAVY DUTY HANDHOLES AND DOUBLE HANDHOLES.

HANDHOLE WITH MINIMUM CONDUIT DEPTH
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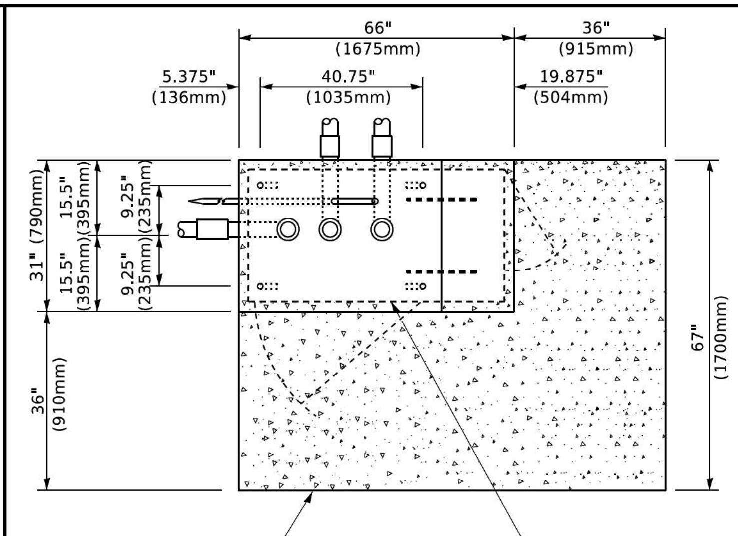

TOP VIEW
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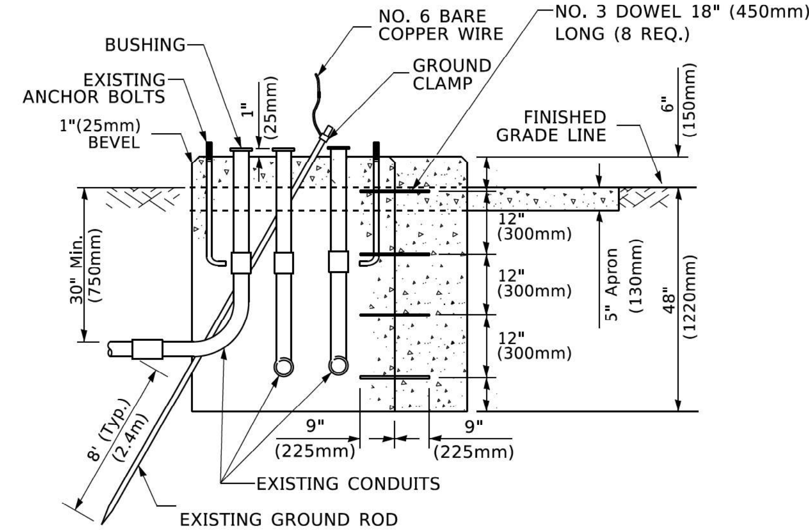

MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION
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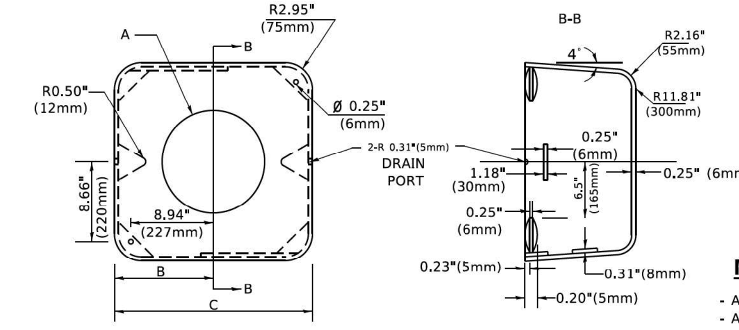


MATERIAL

- ASTM A36 STEEL
- ASTM A-123 HOT DIPPED GALVANIZED

A	B	C	HEIGHT	WEIGHT
VARIES	9.5"(241mm)	19"(483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIES	10.75"(273mm)	21.5"(546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIES	13.0"(330mm)	26"(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIES	18.5"(470mm)	37"(940mm)	7" (178mm) - 12" (300mm)	126 lbs (57 kg)

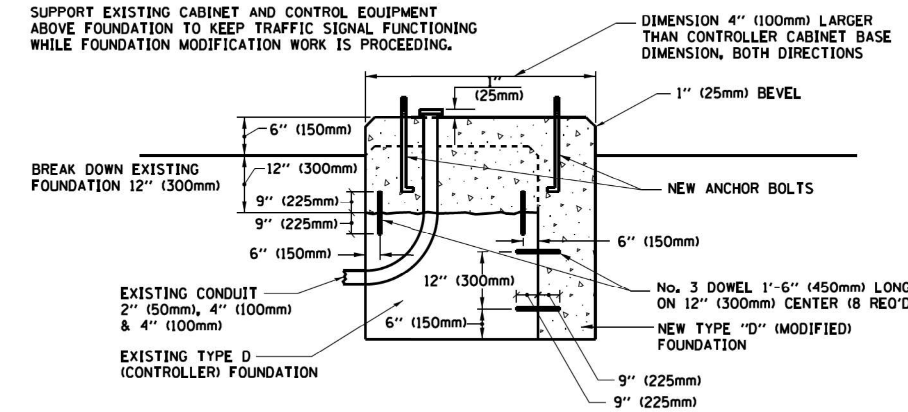
SHROUD

NOTES:

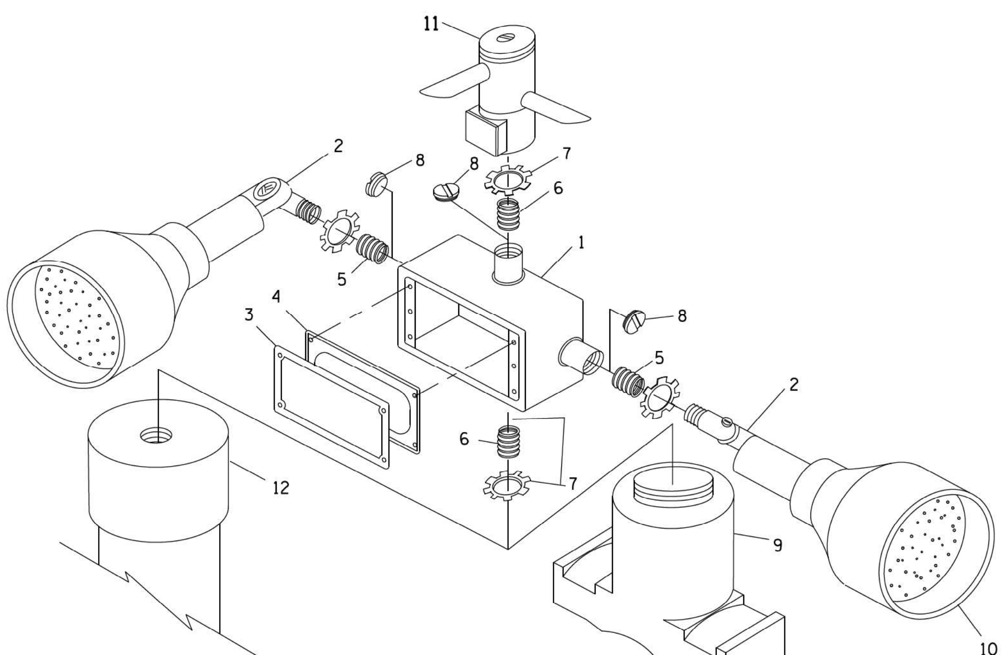
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFIED THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

NOTE:

SUPPORT EXISTING CABINET AND CONTROL EQUIPMENT ABOVE FOUNDATION TO KEEP TRAFFIC SIGNAL FUNCTIONING WHILE FOUNDATION MODIFICATION WORK IS PROCEEDING.



MODIFY EXISTING TYPE "D" FOUNDATION



POST CAP MOUNT

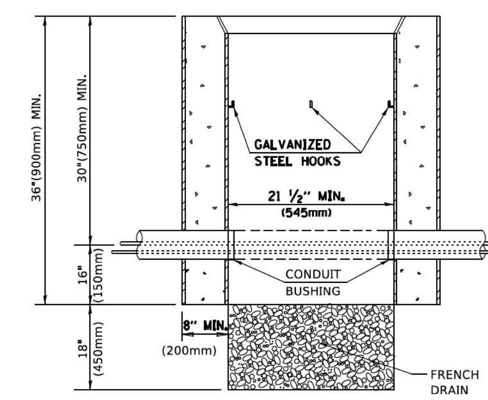
MAST ARM MOUNT

EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

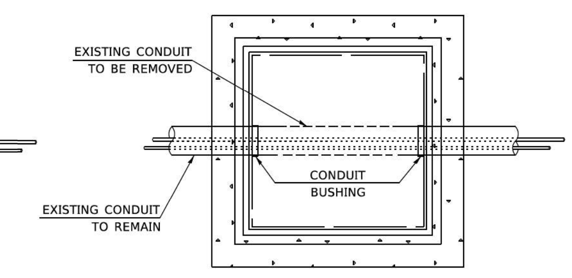
ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	¾"(19 mm) CLOSE NIPPLE
7	¾"(19 mm) LOCKNUT
8	¾"(19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

NOTES:

1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT
   ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT
   ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
3. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/4 "(19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.



ELEVATION



PLAN

NOTES:

1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCLUDED WITH THE COST OF THE HANDHOLE.

HANDHOLE TO INTERCEPT EXISTING CONDUIT

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET 6 OF 7 SHEETS | STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TS-05		CONTRACT NO. 62F94		
		ILLINOIS FED. AID PROJECT		

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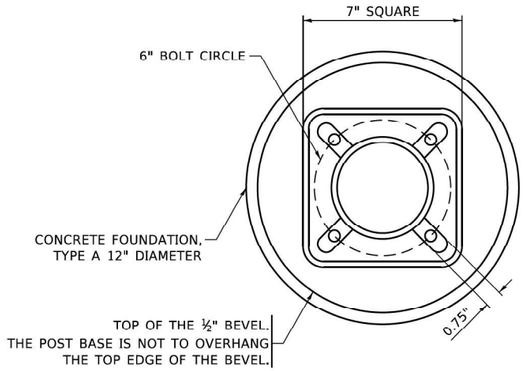
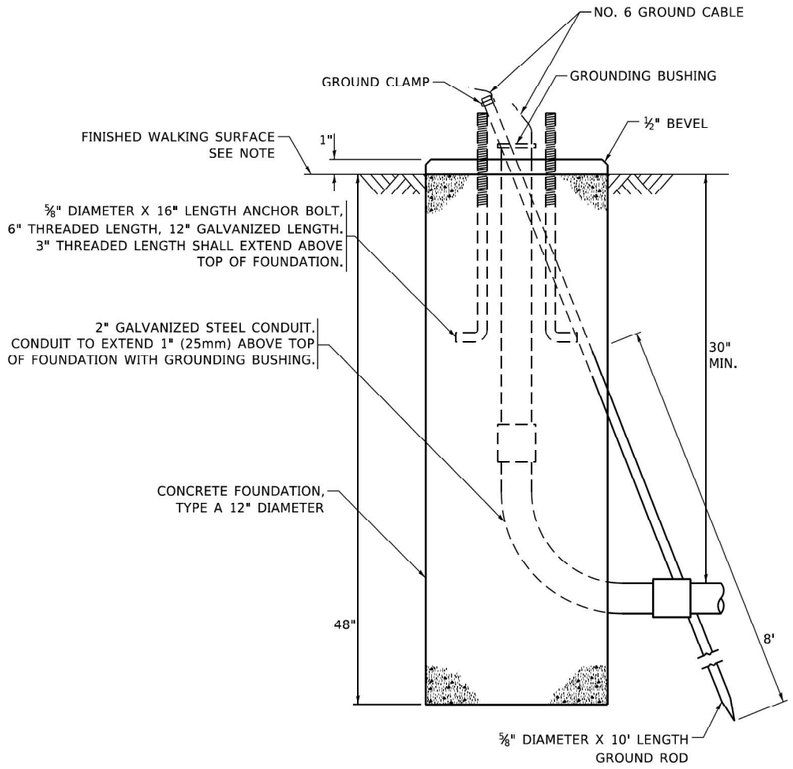


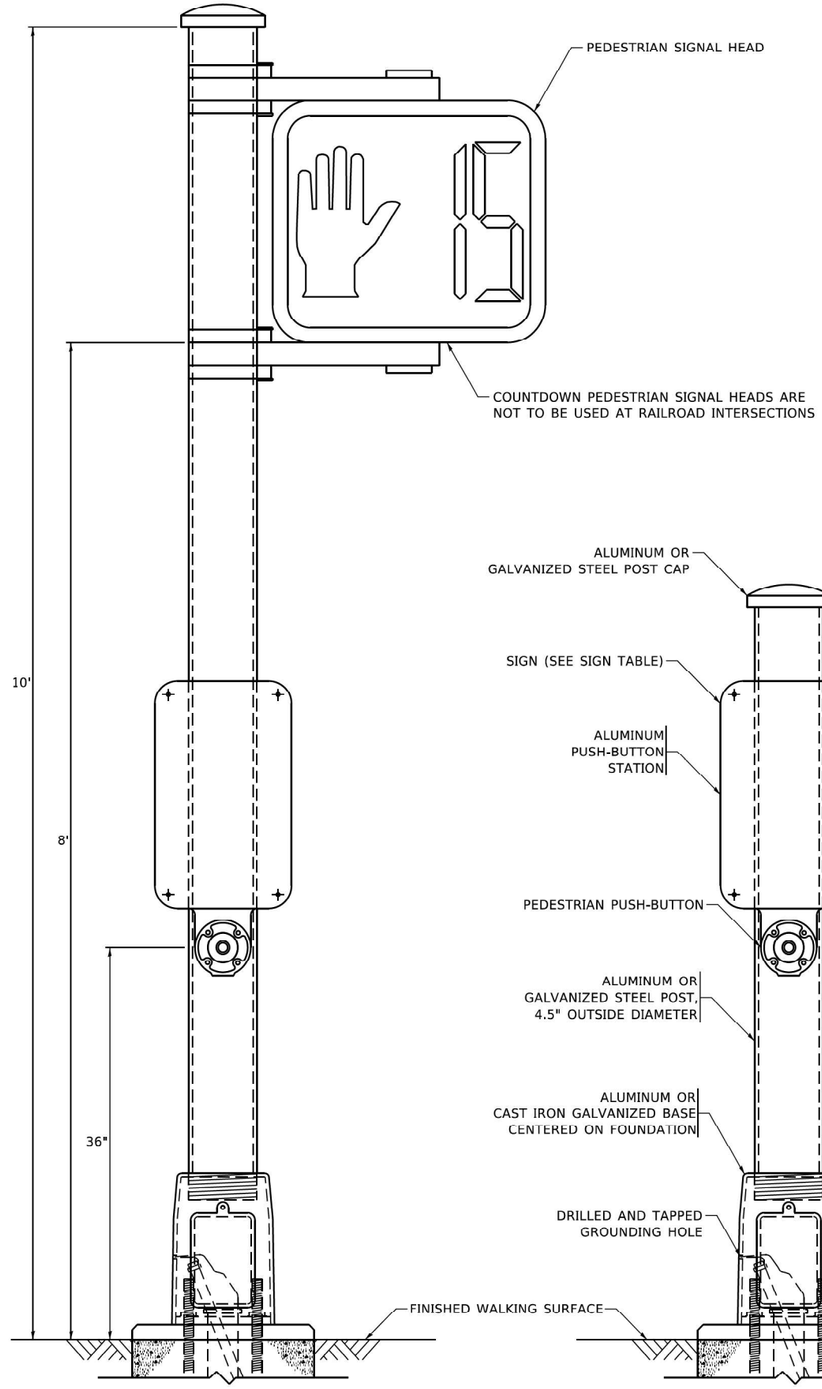
BOLT PATTERN

NOTE:

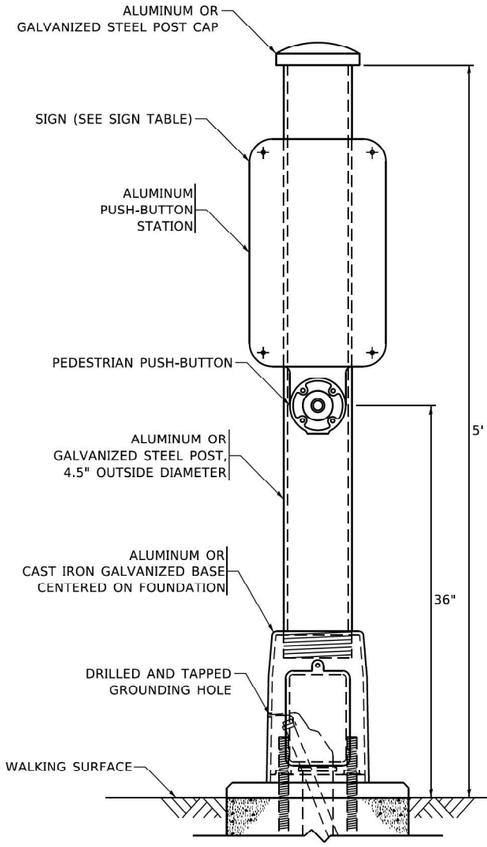
1. IF THE PEDESTRIAN SIGNAL POST FOUNDATION IS INSTALLED WITHIN OR BEHIND A BARRIER CURB, THE TOP OF THE FOUNDATION SHALL BE INSTALLED FLUSH WITH THE TOP OF THE BARRIER CURB.



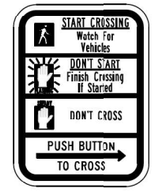
CONCRETE FOUNDATION, TYPE A 12–INCH DIAMETER



PEDESTRIAN SIGNAL POST, 10 FT.

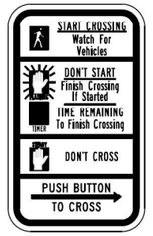


PEDESTRIAN SIGNAL POST, 5 FT.



R10–3b

R10–3d



R10–3e

SIGN TABLE

SIGN	DIMENSIONS
R10-3b (RAILROAD ONLY)	9" X 12"
R10-3d (RAILROAD ONLY)	9" X 12"
R10-3e	9" X 12"

NOTES:

1. THE SIGN PANELS SHALL BE TYPE AP SHEETING.
2. THE ARROW ON SIGNS FOR PUSH-BUTTONS SERVING TWO DIRECTIONS ON THE SAME PHASE SHALL BE BI-DIRECTIONAL.
3. THE SIGN FOR DUAL-CALL PUSH-BUTTONS SHALL HAVE NO ARROW.

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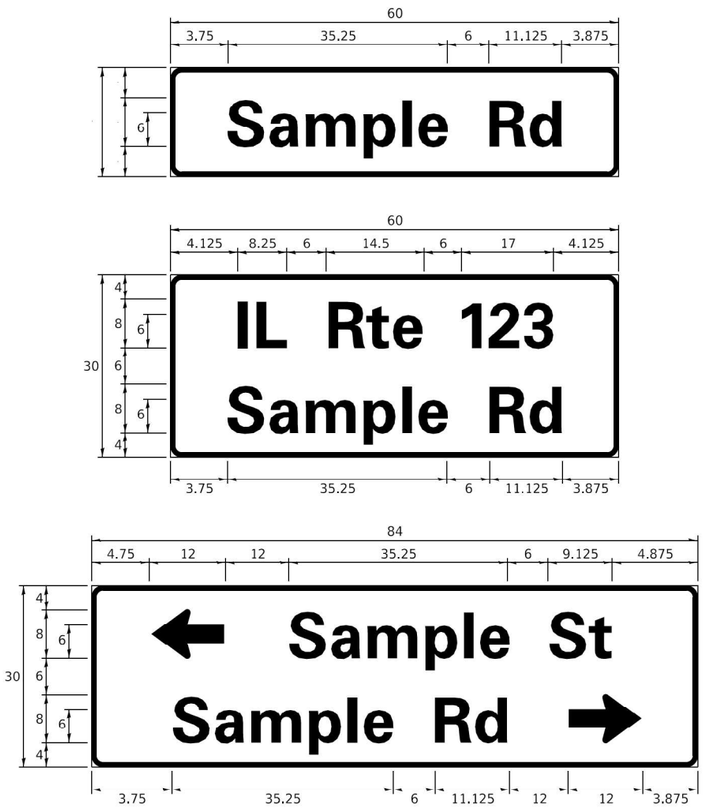
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET 7 OF 7 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	538
	TS–05	CONTRACT NO. 62F94		
	ILLINOIS	FED. AID PROJECT		

SIGN PANEL – TYPE 1 OR TYPE 2



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D OR C	-	1 OR 2	ZZ	-

COMMON STREET NAME ABBREVIATIONS AND WIDTHS

NAME	ABBREVATION	WIDTH (INCH)	
		SERIES "C"	SERIES "D"
AVENUE	Ave	15.000	18.250
BOULEVARD	Blvd	17.125	20.000
CIRCLE	Cir	11.125	13.000
COURT	Ct	8.250	9.625
DRIVE	Dr	8.625	10.125
HIGHWAY	Hwy	18.375	22.000
ILLINOIS	IL	7.000	8.250
LANE	Ln	9.125	10.750
PARKWAY	Pkwy	23.375	27.375
PLACE	Pl	7.125	7.750
ROAD	Rd	9.625	11.125
ROUTE	Rte	12.625	14.500
STREET	St	8.000	9.125
TERRACE	Ter	12.625	14.625
TRAIL	Tr	7.750	9.125
UNITED STATES	US	10.375	12.250

GENERAL NOTES

1. WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 877001, 877002, 877006, 877011 AND 877012, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" x 8'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.
2. ALL SIGNS SHALL CONSIST OF A WHITE LEGEND AND BORDER (TYPE ZZ SHEETING) ON A GREEN BACKGROUND (TYPE ZZ SHEETING)
3. THE SIGN LENGTH SHALL BE IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHALL NOT EXCEED 8'-0". ALL BORDERS IF POSSIBLE, BUT MAY BE REDUCED TO 5" WHEN SPACING IS CRITICAL. A MINIMUM OF 2-1/2" SHALL BE INCLUDED BETWEEN THE WORD AND THE RIGHT AND LEFT EDGES OF THE SIGN.
4. A PREFERRED METHOD FOR THE SIGN DESIGN IS TO USE SERIES "D" LETTER ON A ONE-LINE SIGN 18" IN HEIGHT AND A MAXIMUM OF 8'-0" IN WIDTH. IF SERIES "D" DOES NOT FIT ON A 8"-0" SIGN, THEN SERIES "C" SHOULD BE TRIED. IF SERIES "C" DOES NOT FIT ON A 8'-0" SIGN. A 30" HIGH TWO-LINE SIGN CAN BE USED. THE CROSSROAD DESIGNATION AS TO STREET. AVENUE, ETC. SHOULD BE SPELLED OUT ON THE SECOND LINE, IF THE ABBREVIATION CANNOT FIT ON THE FIRST LINE.
5. LED ILLUMINATED STREET NAME SIGNS CAN BE USED IN PLACE OF REGULAR SIGN PANELS BUT ANY SPECIAL WORDING AND SYMBOLOGY MUST BE APPROVED BY THE DEPARTMENT. GENERAL DESIGN REQUIREMENT AS LISTED ABOVE (COLOR, FONT, SIZE, ETC.) MUST BE FOLLOWED.
6. SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS.

LOCAL SUPPLIERS:

- J.O. HERBERT COMPANY, INC
  MIDLOTHIAN, VA
- WESTERN REMAC, INC.
  WOODRIDGE, IL

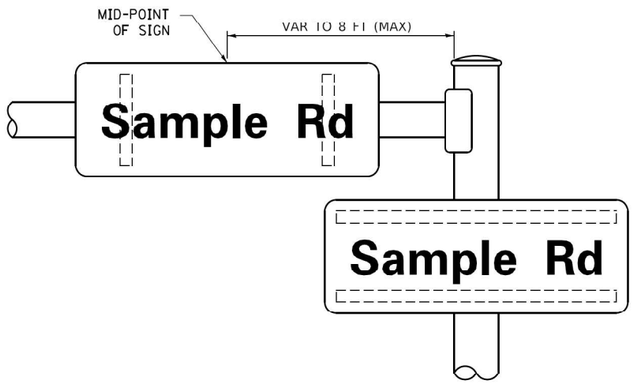
PARTS LISTING:

SIGN CHANNEL	PART #HPN053 (MED. CHANNEL)
SIGN SCREWS	1/4" x 14 x 1" H.W.H. #3 SELF TAPPING WITH NEOPRENE WASHER
BRACKETS	PART #HPN034 (UNIVERSAL) CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

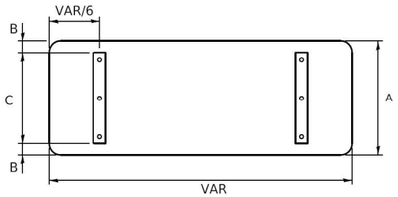
OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BRACKET OF THE ABOVE PRODUCT.

MOUNTING LOCATION

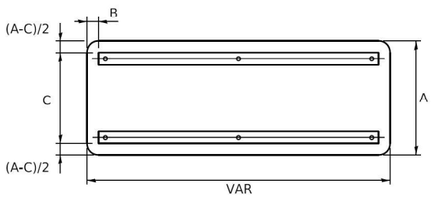
ARM OR POLE MOUNTED



SUPPORTING CHANNELS



A	B	C
18"	2"	14"
30"	2"	24"



A	B	C
18"	2"	12"
30"	2"	22"

STANDARD ALPHABETS SPACING CHART

(8") UPPER CASE AND (6") LOWER CASE

FHWA SERIES "C"				FHWA SERIES "D"			
CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)	CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)
A	0.240	5.122	0.240	A	0.240	6.804	0.240
B	0.880	4.482	0.480	B	0.960	5.446	0.400
C	0.720	4.482	0.720	C	0.800	5.446	0.800
D	0.880	4.482	0.720	D	0.960	5.446	0.800
E	0.880	4.082	0.480	E	0.960	4.962	0.400
F	0.880	4.082	0.240	F	0.960	4.962	0.240
G	0.720	4.482	0.720	G	0.800	5.446	0.800
H	0.880	4.482	0.880	H	0.960	5.446	0.960
I	0.880	1.120	0.880	I	0.960	1.280	0.960
J	0.240	4.082	0.880	J	0.240	5.122	0.960
K	0.880	4.482	0.480	K	0.960	5.604	0.400
L	0.880	4.082	0.240	L	0.960	4.962	0.240
M	0.880	5.234	0.880	M	0.960	6.244	0.960
N	0.880	4.482	0.880	N	0.960	5.446	0.960
O	0.720	4.722	0.720	O	0.800	5.684	0.800
P	0.880	4.482	0.720	P	0.960	5.446	0.240
Q	0.720	4.722	0.720	Q	0.800	5.684	0.800
R	0.880	4.482	0.480	R	0.960	5.446	0.400
S	0.480	4.482	0.480	S	0.400	5.446	0.400
T	0.240	4.082	0.240	T	0.240	4.962	0.240
U	0.880	4.482	0.880	U	0.960	5.446	0.960
V	0.240	4.962	0.240	V	0.240	6.084	0.240
W	0.240	6.084	0.240	W	0.240	7.124	0.240
X	0.240	4.722	0.240	X	0.400	5.446	0.400
Y	0.240	5.122	0.240	Y	0.240	6.884	0.240
Z	0.480	4.482	0.480	Z	0.400	5.446	0.400
a	0.320	3.842	0.640	a	0.400	4.562	0.720
b	0.720	4.082	0.480	b	0.800	4.802	0.480
c	0.480	4.002	0.240	c	0.480	4.722	0.240
d	0.480	4.082	0.720	d	0.480	4.802	0.800
e	0.480	4.082	0.320	e	0.480	4.722	0.320
f	0.320	2.480	0.160	f	0.320	2.882	0.160
g	0.480	4.082	0.720	g	0.480	4.802	0.800
h	0.720	4.082	0.640	h	0.800	4.722	0.720
i	0.720	1.120	0.720	i	0.800	1.280	0.800
j	0.000	2.320	0.720	j	0.000	2.642	0.800
k	0.720	4.322	0.160	k	0.800	5.122	0.160
l	0.720	1.120	0.720	l	0.800	1.280	0.800
m	0.720	6.724	0.640	m	0.800	7.926	0.720
n	0.720	4.082	0.640	n	0.800	4.722	0.720
o	0.480	4.082	0.480	o	0.480	4.882	0.480
p	0.720	4.082	0.480	p	0.800	4.802	0.480
q	0.480	4.082	0.720	q	0.480	4.802	0.800
r	0.720	2.642	0.160	r	0.800	3.042	0.160
s	0.320	3.362	0.240	s	0.320	3.762	0.240
t	0.080	2.882	0.080	t	0.080	3.202	0.080
u	0.640	4.082	0.720	u	0.720	4.722	0.800
v	0.160	4.722	0.160	v	0.160	5.684	0.160
w	0.160	7.524	0.160	w	0.160	9.046	0.160
x	0.000	5.202	0.000	x	0.000	6.244	0.000
y	0.160	4.962	0.160	y	0.160	6.004	0.160
z	0.240	3.362	0.240	z	0.240	4.002	0.240
1	0.720	1.680	0.880	1	0.800	2.000	0.960
2	0.480	4.482	0.480	2	0.800	5.446	0.800
3	0.480	4.482	0.480	3	1.440	5.446	0.800
4	0.240	4.962	0.720	4	0.160	6.004	0.960
5	0.480	4.482	0.480	5	0.800	5.446	0.800
6	0.720	4.482	0.720	6	0.800	5.446	0.800
7	0.240	4.482	0.720	7	0.560	5.446	0.560
8	0.480	4.482	0.480	8	0.800	5.446	0.800
9	0.480	4.482	0.480	9	0.800	5.446	0.800
0	0.720	4.722	0.720	0	0.800	5.684	0.800
-	0.240	2.802	0.240	-	0.240	2.802	0.240

TS SHT NO. 8

MODEL: Default
FILE NAME: pw:\\IL034EBI0INTEG.Illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\1stSld22x34\CADData\CADsheets\ts02.dgn

USER NAME = footem]	DESIGNED - LP/IP	REVISED - LP 07/01/2015	
	DRAWN - LP	REVISED -	
PLOT SCALE = 50.0000 ' / In.	CHECKED - IP	REVISED -	
PLOT DATE = 3/4/2019	DATE - 10/01/2014	REVISED -	

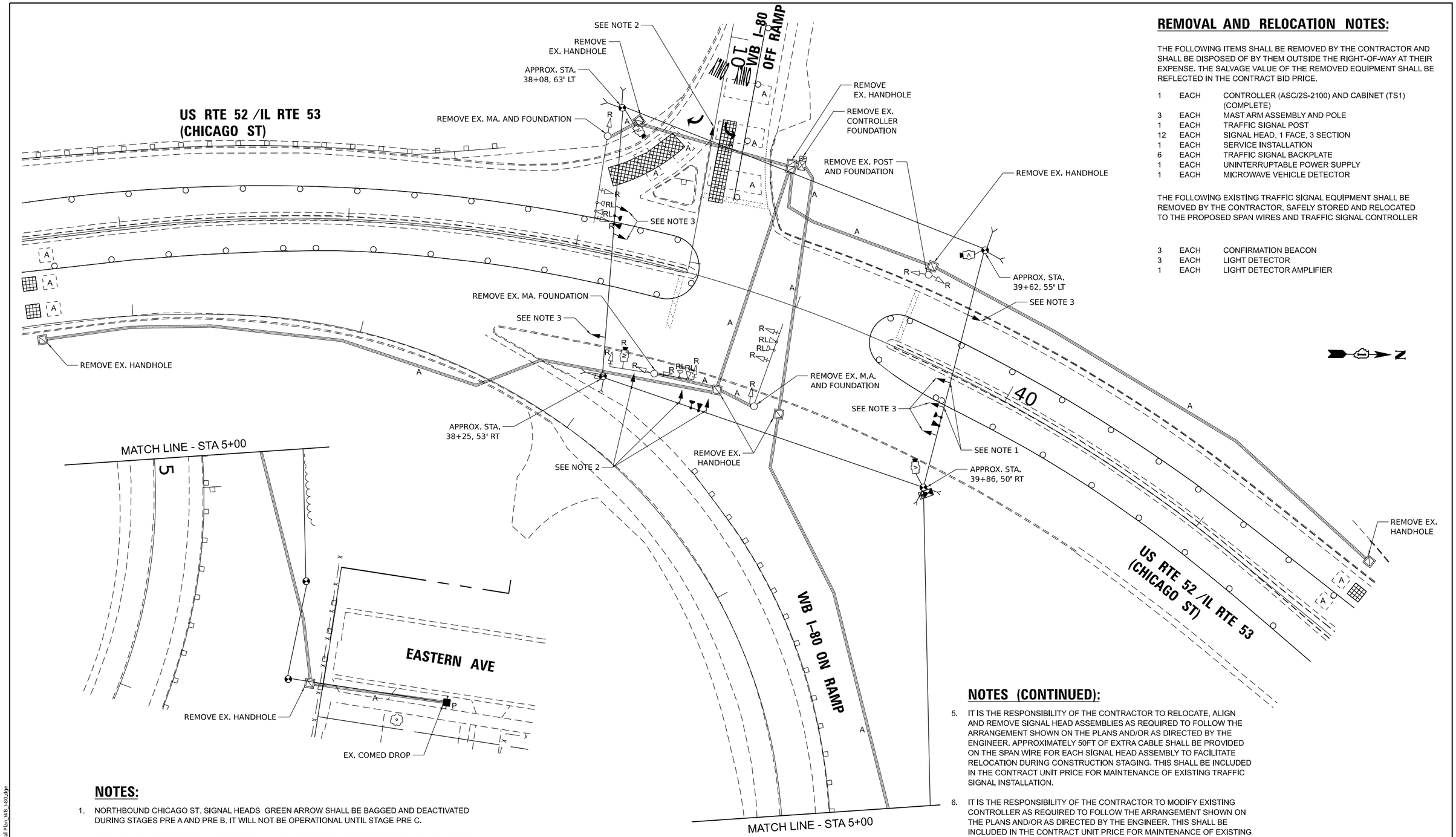
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
MAST ARM MOUNTED STREET NAME SIGNS

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	539
	TS-02	CONTRACT NO. 62F94		
	ILLINOIS FED. AID PROJECT			

ts02.dgn 3/4/2019 11:09:17 AM User=footemi



REMOVAL AND RELOCATION NOTES:

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

1	EACH	CONTROLLER (ASC/2S-2100) AND CABINET (TS1) (COMPLETE)
3	EACH	MAST ARM ASSEMBLY AND POLE
1	EACH	TRAFFIC SIGNAL POST
12	EACH	SIGNAL HEAD, 1 FACE, 3 SECTION
1	EACH	SERVICE INSTALLATION
6	EACH	TRAFFIC SIGNAL BACKPLATE
1	EACH	UNINTERRUPTABLE POWER SUPPLY
1	EACH	MICROWAVE VEHICLE DETECTOR

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPOSED SPAN WIRES AND TRAFFIC SIGNAL CONTROLLER

3	EACH	CONFIRMATION BEACON
3	EACH	LIGHT DETECTOR
1	EACH	LIGHT DETECTOR AMPLIFIER

NOTES:

1. NORTHBOUND CHICAGO ST. SIGNAL HEADS GREEN ARROW SHALL BE BAGGED AND DEACTIVATED DURING STAGES PRE A AND PRE B. IT WILL NOT BE OPERATIONAL UNTIL STAGE PRE C.
2. WESTBOUND I-80 RAMP SIGNAL HEADS SHALL BE BAGGED AND DEACTIVATED DURING STAGE PRE B.
3. NORTHBOUND AND SOUTHBOUND SIGNAL HEADS SHALL STAY ON CONTINUOUS GREEN THROUGHOUT STAGE PRE B.
4. ALL PROPOSED WORK IS WITHIN ROW. ROW LIMITS EXTEND BEYOND THE LIMIT OF THIS SHEET.

NOTES (CONTINUED):

5. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE, ALIGN AND REMOVE SIGNAL HEAD ASSEMBLIES AS REQUIRED TO FOLLOW THE ARRANGEMENT SHOWN ON THE PLANS AND/OR AS DIRECTED BY THE ENGINEER. APPROXIMATELY 50FT OF EXTRA CABLE SHALL BE PROVIDED ON THE SPAN WIRE FOR EACH SIGNAL HEAD ASSEMBLY TO FACILITATE RELOCATION DURING CONSTRUCTION STAGING. THIS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION.
6. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MODIFY EXISTING CONTROLLER AS REQUIRED TO FOLLOW THE ARRANGEMENT SHOWN ON THE PLANS AND/OR AS DIRECTED BY THE ENGINEER. THIS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION.
7. THE EXISTING SERVICE METER SHALL BE RELOCATED TO THE PROPOSED GROUND MOUNTED SERVICE CABINET. THIS WORK SHALL BE INCLUDED IN THE PAY ITEM SERVICE INSTALLATION, GROUND MOUNTED, METERED.

TS 21820
ECON 72

0 20 40 60
SCALE IN FEET

TS SHT NO. 9

MODEL: Default
FILE NAME: D1\2F94-01-sht-01_Temporary_Signal Plan_WB_I-80.dgn

SINGH + ASSOCIATES, INC.
CONSULTING ENGINEERS

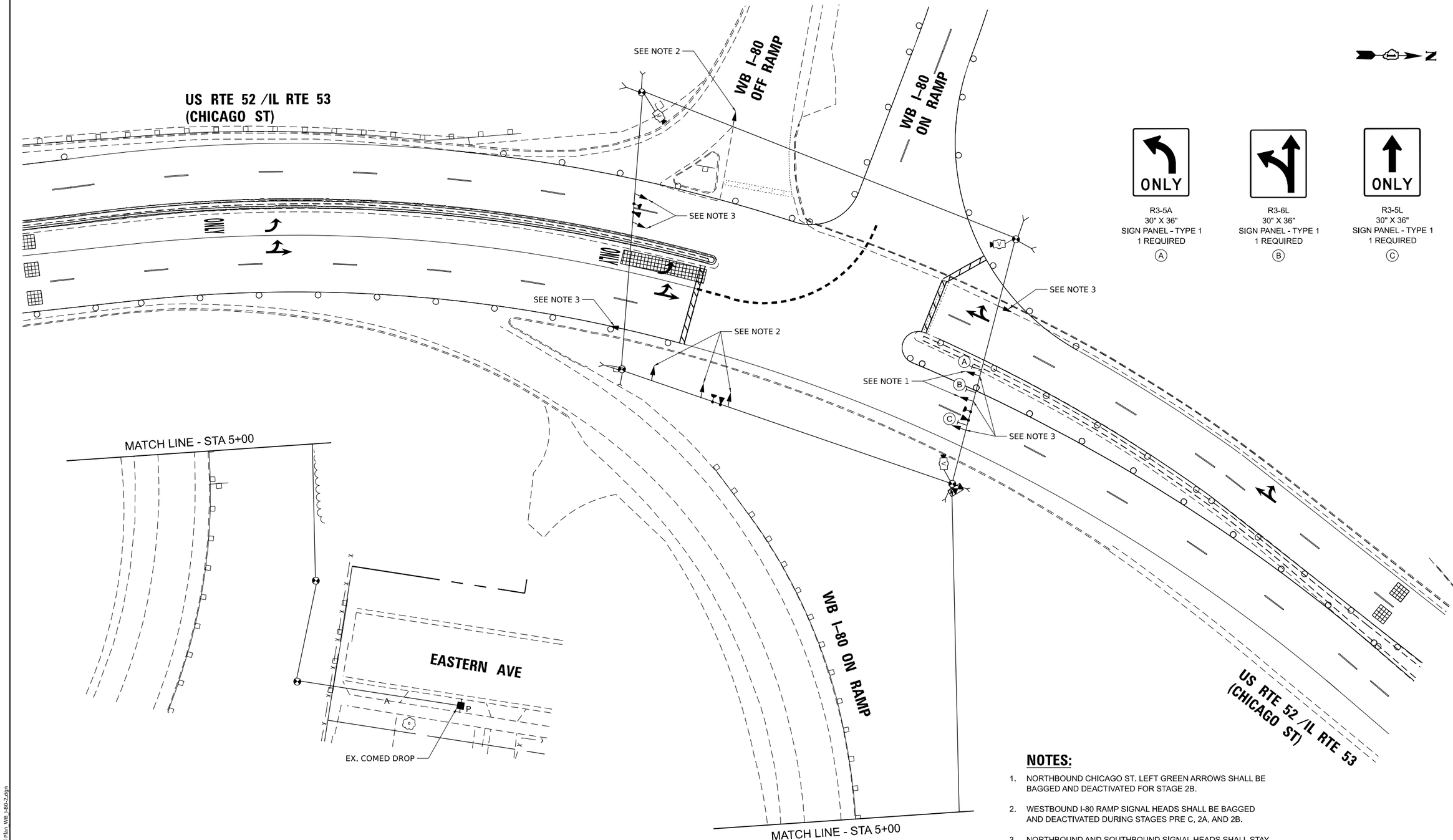
USER NAME = jturk	DESIGNED - GJG	REVISED -
	DRAWN - GJG	REVISED -
PLOT SCALE = 40.000 ' / in.	CHECKED - SSA	REVISED -
PLOT DATE = 10/28/2025	DATE - 10/31/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN (STAGE PRE A, PRE B) AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN
US RTE 52 /IL RTE 53 (CHICAGO ST) AT WB I-80 RAMPS

SCALE: 1" = 20' | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	540
		CONTRACT NO. 62F94		
	ILLINOIS	FED. AID PROJECT		



NOTES:

1. NORTHBOUND CHICAGO ST. LEFT GREEN ARROWS SHALL BE BAGGED AND DEACTIVATED FOR STAGE 2B.
2. WESTBOUND I-80 RAMP SIGNAL HEADS SHALL BE BAGGED AND DEACTIVATED DURING STAGES PRE C, 2A, AND 2B.
3. NORTHBOUND AND SOUTHBOUND SIGNAL HEADS SHALL STAY ON CONTINUOUS GREEN THROUGHOUT STAGE 2B.
4. ALL PROPOSED WORK IS WITHIN ROW. ROW LIMITS EXTEND BEYOND THE LIMIT OF THIS SHEET.

TS 21820
ECON 72

0 20 40 60
SCALE IN FEET

TS SHT NO. 10

MODEL: Default
FILE NAME: D:\62F94-01-sht-02_Temporary_Signal Plan_WB_I-80-2.dgn

SINGH + ASSOCIATES, INC.
CONSULTING ENGINEERS

USER NAME	= jturk	DESIGNED	- GJG	REVISED	-
		DRAWN	- GJG	REVISED	-
PLOT SCALE	= 40.000 ' / in.	CHECKED	- SSA	REVISED	-
PLOT DATE	= 10/28/2025	DATE	- 10/31/2025	REVISED	-

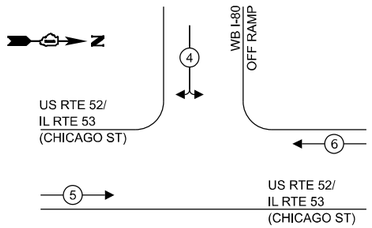
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN (STAGE PRE C, 2A, 2B)
US RTE 52 /IL RTE 53 (CHICAGO ST) AT WB I–80 RAMPS

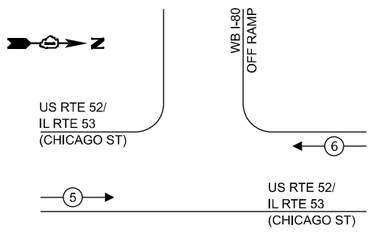
SCALE: 1" = 20' | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	541
		CONTRACT NO. 62F94		
	ILLINOIS	FED. AID PROJECT		

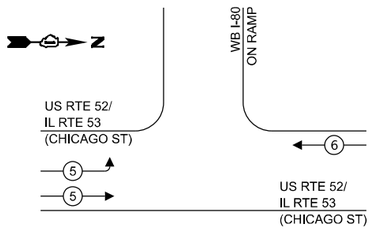
TEMPORARY CONTROLLER SEQUENCE
STAGE PRE A



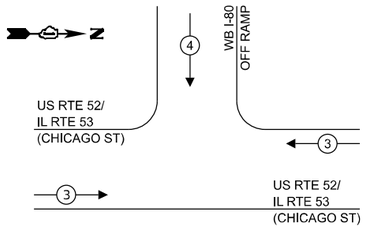
TEMPORARY CONTROLLER SEQUENCE
STAGE PRE B, 2B



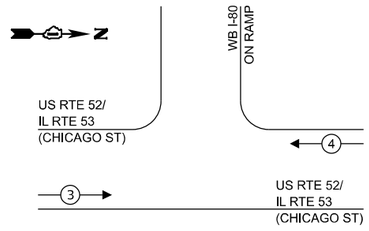
TEMPORARY CONTROLLER SEQUENCE
STAGE PRE C, 2A



TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE
STAGES PRE A

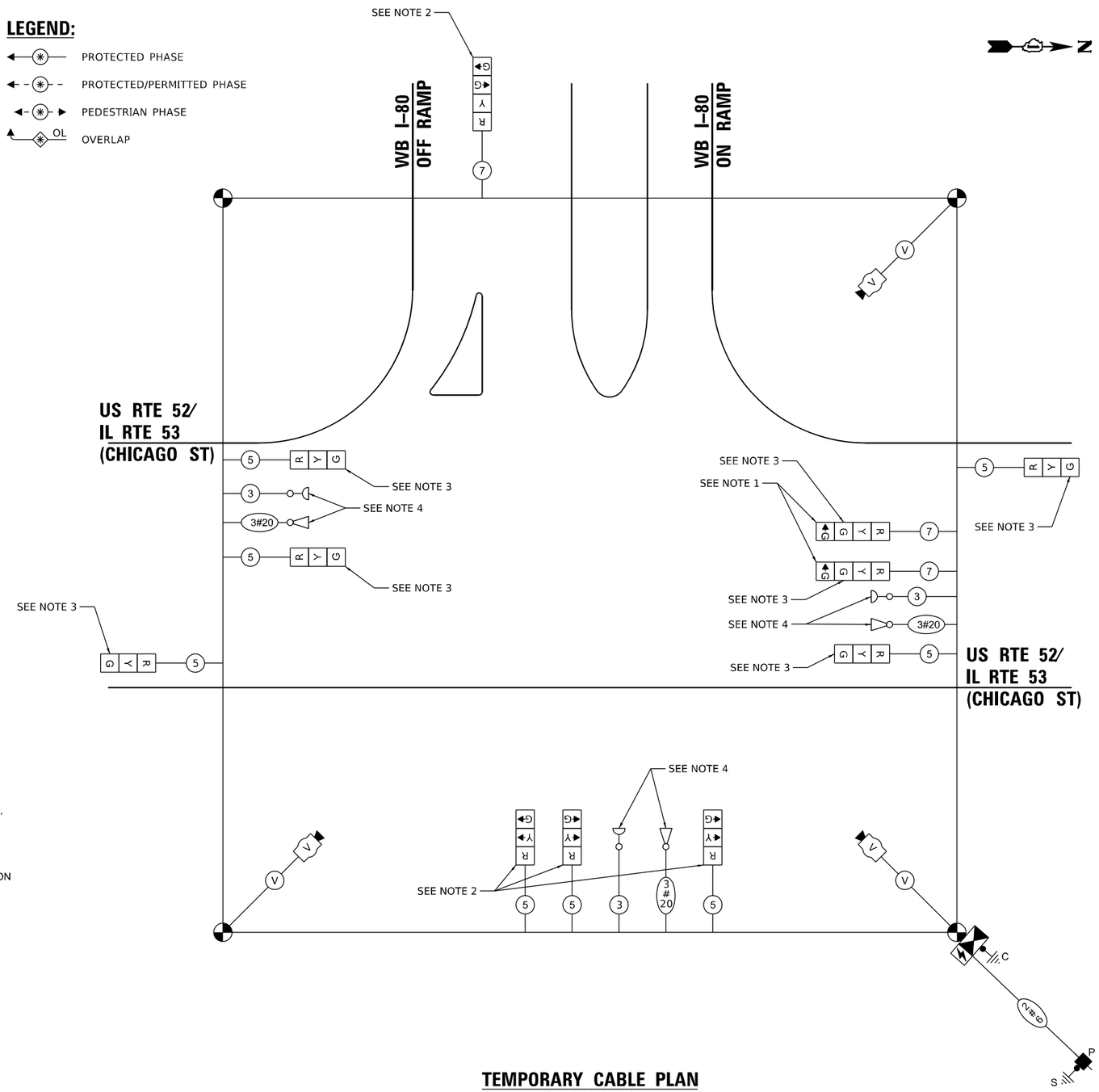


TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE
STAGE PRE B, PRE C, 2A, 2B



LEGEND:

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OL — OVERLAP



TEMPORARY CABLE PLAN
(NOT TO SCALE)

NOTES:

1. NORTHBOUND CHICAGO ST. LEFT GREEN ARROWS SHALL BE BAGGED AND DEACTIVATED FOR STAGES PRE A, PRE B, AND 2B.
2. WESTBOUND I-80 OFF RAMP SIGNAL HEADS SHALL BE BAGGED AND DEACTIVATED FOR STAGES PRE B, PRE C, 2A, AND 2B.
3. NORTHBOUND AND SOUTHBOUND SIGNAL HEADS SHALL STAY ON CONTINUOUS GREEN THROUGHOUT STAGE PRE B AND 2B.
4. EVP EQUIPMENT TO BE RELOCATED FROM EXISTING TRAFFIC SIGNALS.

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

EQUIPMENT TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 1 OR 3-SECTION	9	11	88
4-SECTION	3	14	42
5-SECTION	-	13	-
PROGRAMMABLE 3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PEDESTRIAN SIGNAL	-	15	-
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTION RADAR OR VIDEO	3	20	60
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	-	35	-
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING			365
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING			970

ENERGY COSTS TO:
ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAY/DISTRICT 1
201 WEST CENTER COURT/SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY:
CONTACT: RICK OSTER
PHONE: (779) 231-0625
COMPANY: COMED
ACCOUNT NUMBER: 86931-62222
METER NUMBER: 272 348 258

TS SHT NO. 11

MODEL: Default
FILE NAME: D162F94-01-sht-03_Temporary Signal Cable Plan_WB I-80.dgn

SINGH + ASSOCIATES, INC.
CONSULTING ENGINEERS

USER NAME = jturk	DESIGNED - SSA	REVISED -
	DRAWN - SSA	REVISED -
PLOT SCALE = 40.000 ' / in.	CHECKED - GJG	REVISED -
PLOT DATE = 10/28/2025	DATE - 10/31/2025	REVISED -

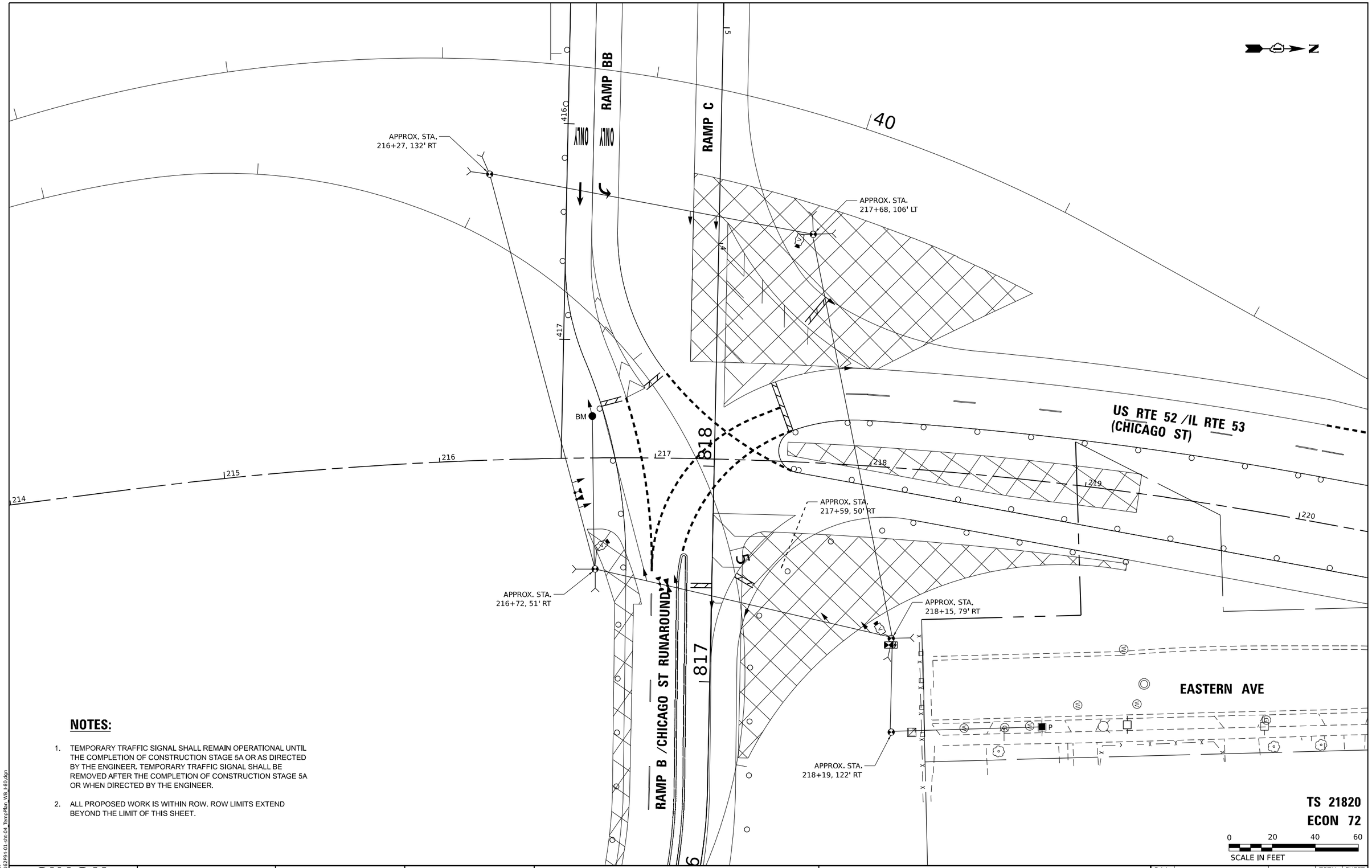
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE (STAGE PRE A, PRE B, PRE C, 2A, 2B) – US RTE 52 /IL RTE 53 (CHICAGO ST) AT WB I–80 RAMPS

SCALE: 1" = 20' | SHEET OF SHEETS | STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	542
		CONTRACT NO. 62F94		
		ILLINOIS	FED. AID PROJECT	

TS 21820
ECON 72



NOTES:

1. TEMPORARY TRAFFIC SIGNAL SHALL REMAIN OPERATIONAL UNTIL THE COMPLETION OF CONSTRUCTION STAGE 5A OR AS DIRECTED BY THE ENGINEER. TEMPORARY TRAFFIC SIGNAL SHALL BE REMOVED AFTER THE COMPLETION OF CONSTRUCTION STAGE 5A OR WHEN DIRECTED BY THE ENGINEER.
2. ALL PROPOSED WORK IS WITHIN ROW. ROW LIMITS EXTEND BEYOND THE LIMIT OF THIS SHEET.

TS 21820
ECON 72

TS SHT NO. 12

MODEL: Default
FILE NAME: D162F94-01-sht-04_TempPlan_WB_I-80.dgn

SINGH + ASSOCIATES, INC.
CONSULTING ENGINEERS

USER NAME = jturk	DESIGNED - GJG	REVISED -	
	DRAWN - GJG	REVISED -	
PLOT SCALE = 40.000 ' / in.	CHECKED - EEC	REVISED -	
PLOT DATE = 10/28/2025	DATE - 10/31/2025	REVISED -	

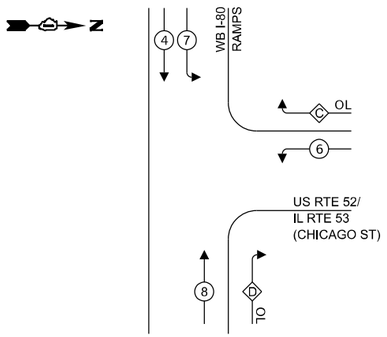
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN (STAGE 4, 5, 5A)
US RTE 52 /IL RTE 53 (CHICAGO ST) AT WB I–80 RAMPS

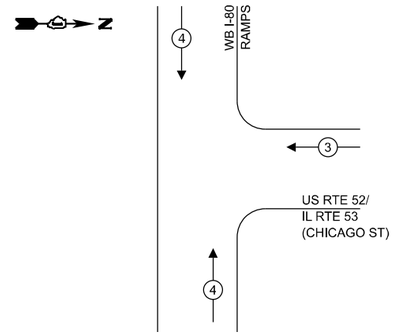
SCALE: 1" = 20' | SHEET OF SHEETS | STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	543
		CONTRACT NO. 62F94		
	ILLINOIS	FED. AID PROJECT		

TEMPORARY CONTROLLER SEQUENCE STAGE 4, 5, 5A



TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE STAGE 4, 5, 5A



LEGEND:

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OL — OVERLAP

RIGHT TURN OVERLAP PHASE DESIGNATION:

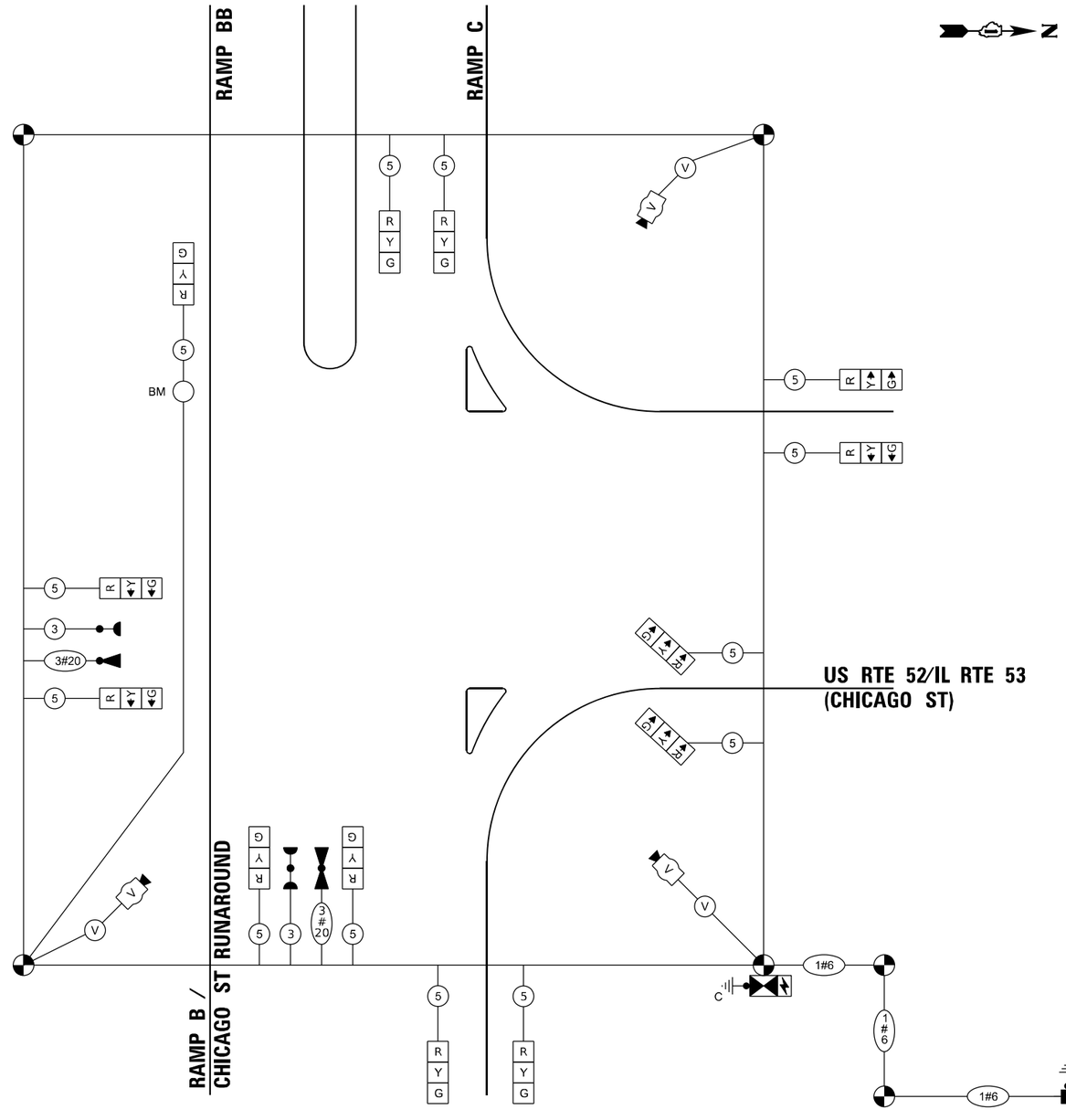
OVERLAP LETTER		PERMITTED PHASE		PROTECTED PHASE
C	=	6	+	7
D	=	8	+	6

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

EQUIPMENT TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 1 OR 3-SECTION	13	11	99
4-SECTION	-	14	-
5-SECTION	-	13	-
PROGRAMMABLE 3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PEDESTRIAN SIGNAL	-	15	-
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTION RADAR OR VIDEO	1	20	20
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	-	35	-
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING			327
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING			932

ENERGY COSTS TO:
ILLINOIS DEPARTMENT OF TRANSPORTATION
202 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY:
CONTACT: NEW BUSINESS DEPT.
PHONE: (866) 639-3532
COMPANY: COMED
ACCOUNT NUMBER: 14311-22272
METER NUMBER: ---



CABLE PLAN
(NOT TO SCALE)

TS 7491
ECON 72

TS SHT NO. 13

MODEL: Default
FILE NAME: D162F94-01-sht-05_TempCablePlan_WB_I-80.dgn

SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS

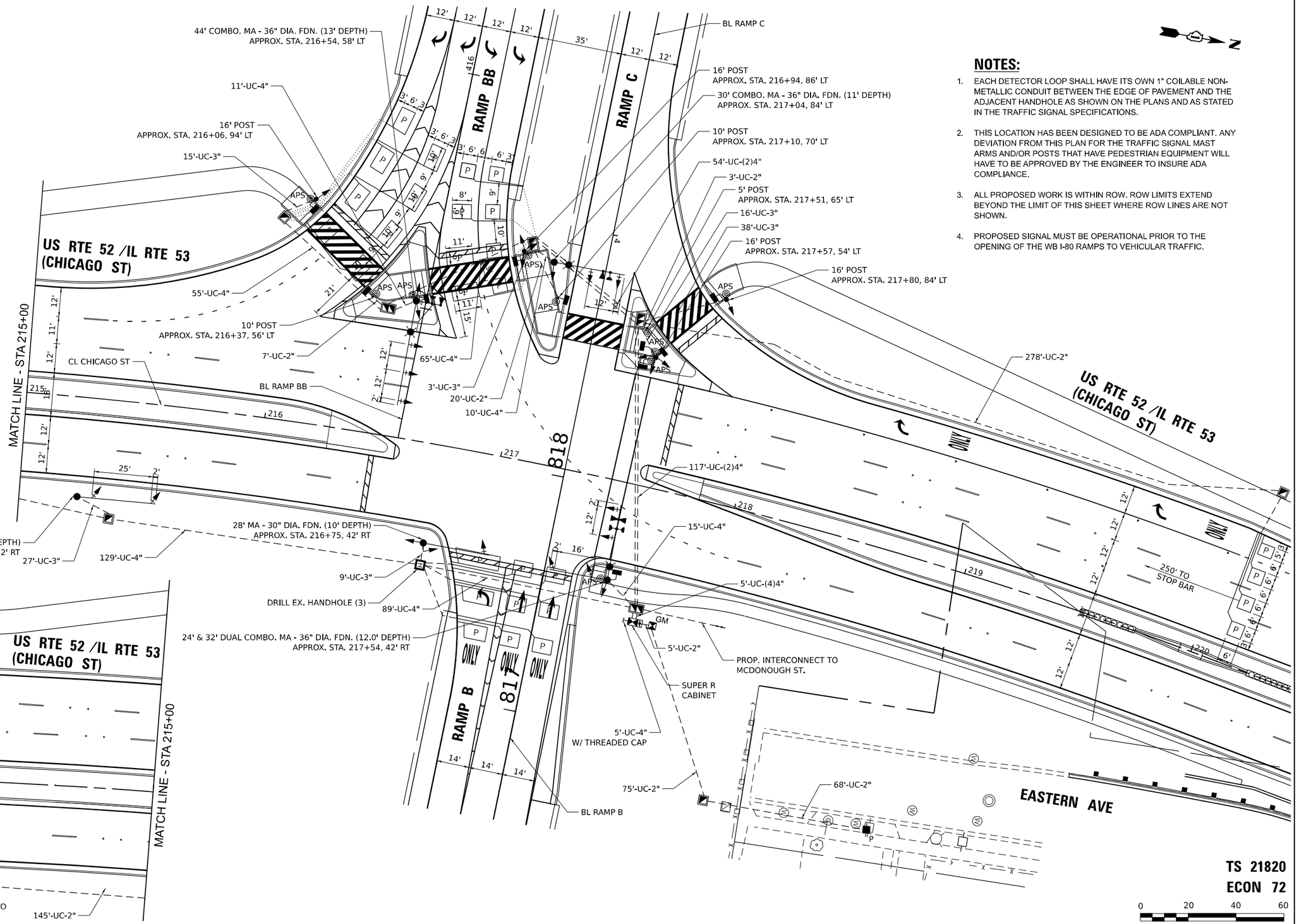
USER NAME = jturk	DESIGNED - GJG	REVISED -	
	DRAWN - GJG	REVISED -	
PLOT SCALE = 40.000 ' / in.	CHECKED - EEC	REVISED -	
PLOT DATE = 10/28/2025	DATE - 10/31/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE (STAGE 4, 5, & 5A)
US RTE 52 /IL RTE 53 (CHICAGO ST) AT WB I–80 RAMPS

SCALE: NONE | SHEET OF SHEETS | STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	544
		CONTRACT NO. 62F94		
	ILLINOIS FED. AID PROJECT			



NOTES:

1. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.
2. THIS LOCATION HAS BEEN DESIGNED TO BE ADA COMPLIANT. ANY DEVIATION FROM THIS PLAN FOR THE TRAFFIC SIGNAL MAST ARMS AND/OR POSTS THAT HAVE PEDESTRIAN EQUIPMENT WILL HAVE TO BE APPROVED BY THE ENGINEER TO INSURE ADA COMPLIANCE.
3. ALL PROPOSED WORK IS WITHIN ROW. ROW LIMITS EXTEND BEYOND THE LIMIT OF THIS SHEET WHERE ROW LINES ARE NOT SHOWN.
4. PROPOSED SIGNAL MUST BE OPERATIONAL PRIOR TO THE OPENING OF THE WB I-80 RAMPS TO VEHICULAR TRAFFIC.

TS 21820
ECON 72

0 20 40 60
SCALE IN FEET

TS SHT NO. 14

MODEL: Default
FILE NAME: D162F94-01-sht-06_SignalPlan_WB_I-80.dgn

SINGH + ASSOCIATES, INC.
CONSULTING ENGINEERS

USER NAME = jturk	DESIGNED - GJG	REVISED -	
	DRAWN - GJG	REVISED -	
PLOT SCALE = 40.000 ' / in.	CHECKED - EEC	REVISED -	
PLOT DATE = 10/28/2025	DATE - 10/31/2025	REVISED -	

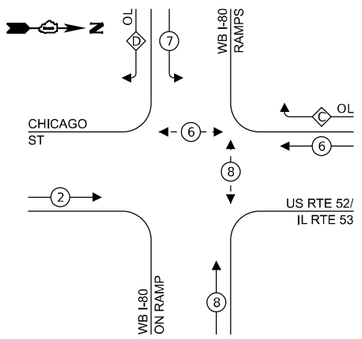
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION PLAN
US RTE 52 /IL RTE 53 (CHICAGO ST) AT WB I–80 RAMPS

SCALE: 1" = 20' | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	545
		CONTRACT NO. 62F94		
		ILLINOIS	FED. AID PROJECT	

PROPOSED CONTROLLER SEQUENCE



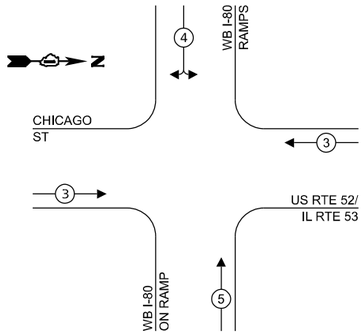
LEGEND:

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OVERLAP (OL)

RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER		PERMITTED PHASE		PROTECTED PHASE
C	=	6	+	7

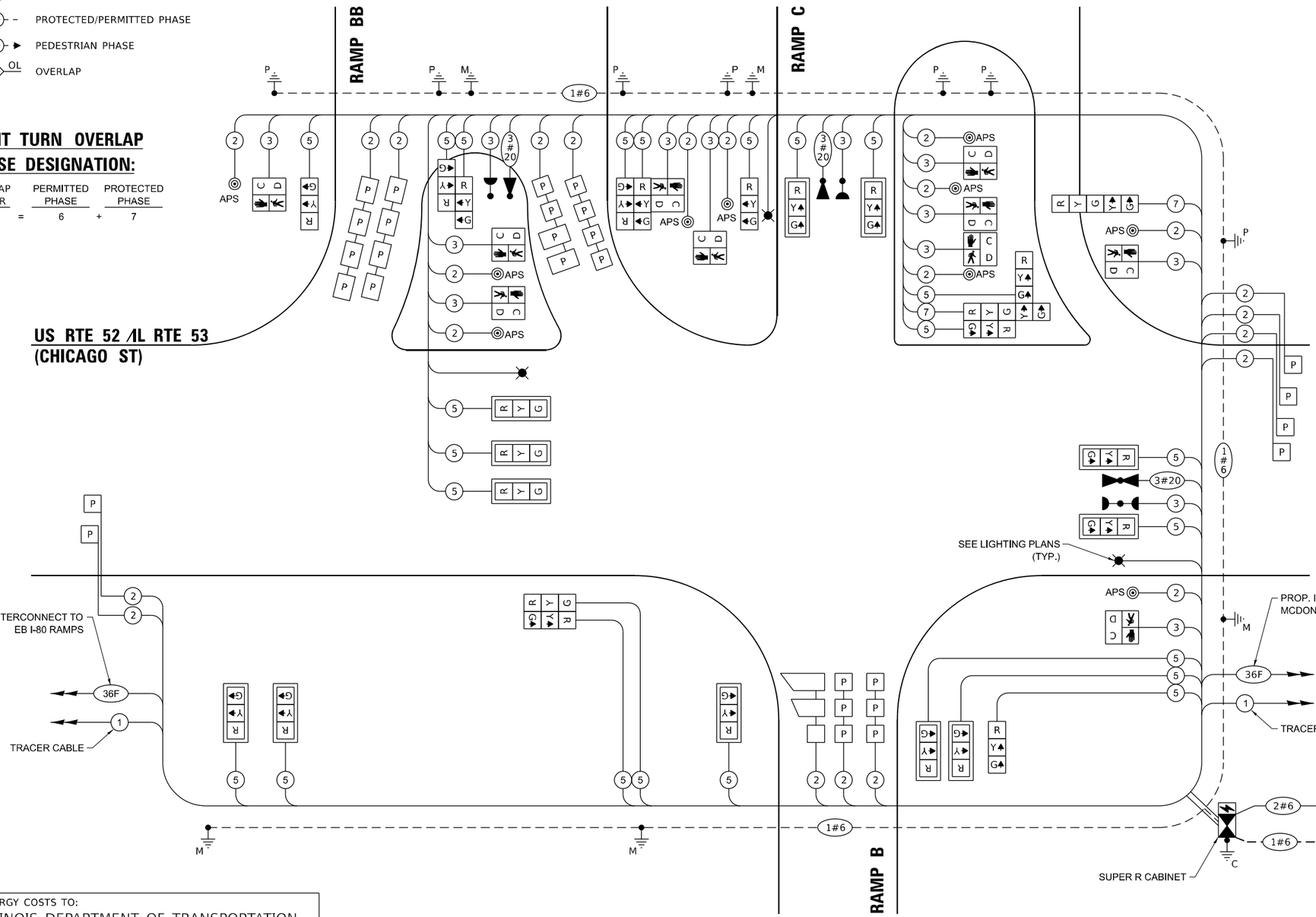
PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

EQUIPMENT TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 1 OR 3-SECTION	23	11	253
4-SECTION	-	14	-
5-SECTION	2	13	26
PROGRAMMABLE 3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PEDESTRIAN SIGNAL	10	15	150
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTION RADAR OR VIDEO	-	20	-
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	-	35	-
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING			604
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING			1,209

ENERGY COSTS TO:
ILLINOIS DEPARTMENT OF TRANSPORTATION
202 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196-1096
ENERGY SUPPLY: CONTACT: NEW BUSINESS DEPT.
PHONE: (866) 639-3532
COMPANY: COMED
ACCOUNT NUMBER: 86931-62222
METER NUMBER: ---



CABLE PLAN
(NOT TO SCALE)

NOTES

1. ALL RED INDICATIONS SHALL HAVE A LENS COVER.

TS 21820
ECON 72

TS SHT NO. 15

MODEL: Default
FILE NAME: D162F94-01-sht-c47 Cable Plan WB I-80.dgn

SINGH
SINGH + ASSOCIATES, INC.
CONSULTING ENGINEERS

USER NAME = jturk	DESIGNED - GJG	REVISED -	
	DRAWN - GJG	REVISED -	
PLOT SCALE = 40.000 ' / in.	CHECKED - EEC	REVISED -	
PLOT DATE = 10/28/2025	DATE - 10/31/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
US RTE 52 /IL RTE 53 (CHICAGO ST) AT WB I–80 RAMPS
SCALE: NONE | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	546
		CONTRACT NO. 62F94		
	ILLINOIS FED. AID PROJECT			

SIGN PANEL – TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE

DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY REQUIRED
D	16.25	2	ZZ	2

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL.

SCHEDULE OF QUANTITIES

	ITEM DESCRIPTION	UNITS	TOTAL QTY
	SIGN PANEL - TYPE 2	SQ FT	33
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	601
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	108
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	741
	HANDHOLE	EACH	5
	HEAVY-DUTY HANDHOLE	EACH	1
	DOUBLE HANDHOLE	EACH	4
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	2,280
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	3,051
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	5,271
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	395
	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	4,079
	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	182
	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1,479
	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4
	STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	1
	STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	1
	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 30 FT.	EACH	1
	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 44 FT.	EACH	1
	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 24 FT. AND 32 FT.	EACH	1
	CONCRETE FOUNDATION, TYPE A	FOOT	20
	CONCRETE FOUNDATION, TYPE C	FOOT	4
	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	24
	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	37
	DRILL EXISTING HANDHOLE	EACH	3
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	12
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	11
	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	10
	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	12
	INDUCTIVE LOOP DETECTOR	EACH	13
	DETECTOR LOOP, TYPE III	FOOT	1,000
*	LIGHT DETECTOR	EACH	3
*	LIGHT DETECTOR AMPLIFIER	EACH	1
	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	2
	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
	REMOVE EXISTING HANDHOLE	EACH	7
	REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
	REMOVE EXISTING CONCRETE FOUNDATION	EACH	5
*	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	693
	SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
	PEDESTRIAN SIGNAL POST, 10 FT.	EACH	2
	PEDESTRIAN SIGNAL POST, 5 FT.	EACH	1
	FULL-ACTUATED CONTROLLER AND TYPE SUPER R CABINET (SPECIAL)	EACH	1
	UNINTERRUPTABLE POWER SUPPLY (SPECIAL)	EACH	1
	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	10
	CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	12
	LED SIGNAL FACE, LENS COVER	EACH	23
	PREFORMED DETECTOR LOOP	FOOT	477
	VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	2
	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	2

* 100% COST TO THE CITY OF JOLIET

TS SHT NO. 16

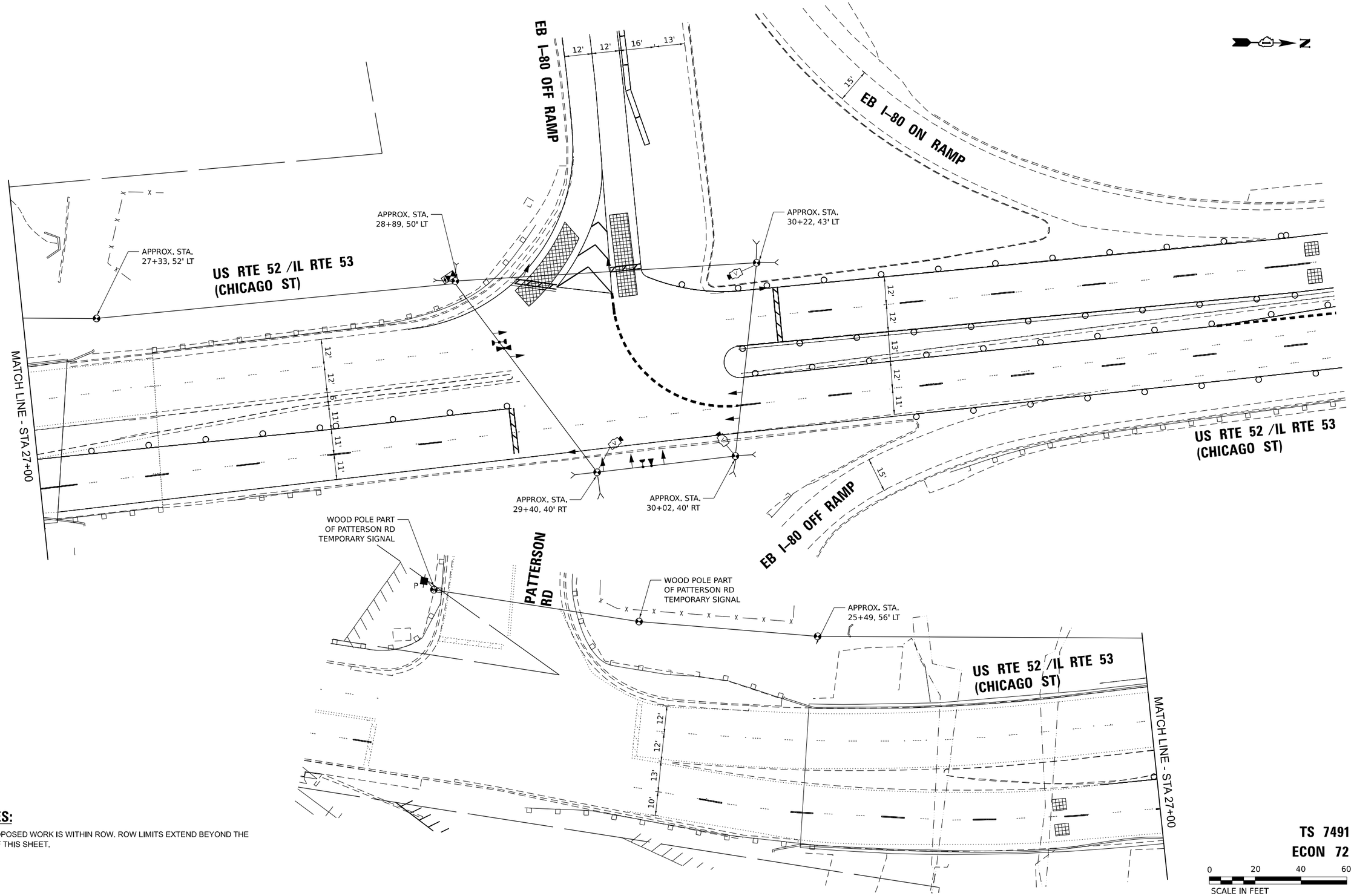
MODEL: Default
FILE NAME: D162F94-01-sht-08 Quantities_WB I-80.dgn

TS 21820
ECON 72

SINGH + ASSOCIATES, INC.
CONSULTING ENGINEERS

USER NAME = jturk	DESIGNED - GJG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAST ARM MOUNTED STREET NAME SIGNS AND SCHEDULE OF QUANTITIES
	DRAWN - GJG	REVISED -		US RTE 52 /IL RTE 53 (CHICAGO ST) AT WB I-80 RAMPS
PLOT SCALE = 40.000 ' / In.	CHECKED - EEC	REVISED -		SCALE: NONE SHEET OF SHEETS STA. TO STA.
PLOT DATE = 10/28/2025	DATE - 10/31/2025	REVISED -		

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	547
		CONTRACT NO. 62F94		
	ILLINOIS	FED. AID PROJECT		



NOTES:

1. ALL PROPOSED WORK IS WITHIN ROW. ROW LIMITS EXTEND BEYOND THE LIMIT OF THIS SHEET.

TS 7491
ECON 72

0 20 40 60
SCALE IN FEET

TS SHT NO. 17

MODEL: Default
FILE NAME: D:\02F94-01-sht-09_Temporary_Signal Plan_EB_I-80.dgn

SINGH + ASSOCIATES, INC.
CONSULTING ENGINEERS

USER NAME = jturk	DESIGNED - GJG	REVISED -	
	DRAWN - GJG	REVISED -	
PLOT SCALE = 40.000 ' / in.	CHECKED - EEC	REVISED -	
PLOT DATE = 10/28/2025	DATE - 10/31/2025	REVISED -	

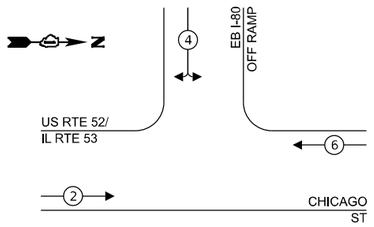
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL PLAN (STAGE PRE C, 2A, 2B)
US RTE 52 /IL RTE 53 (CHICAGO ST) AT EB I–80 RAMPS

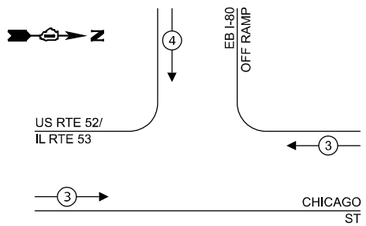
SCALE: 1" = 20' | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	548
		CONTRACT NO. 62F94		
	ILLINOIS FED. AID PROJECT			

TEMPORARY CONTROLLER SEQUENCE STAGE PRE C, 2A, 2B

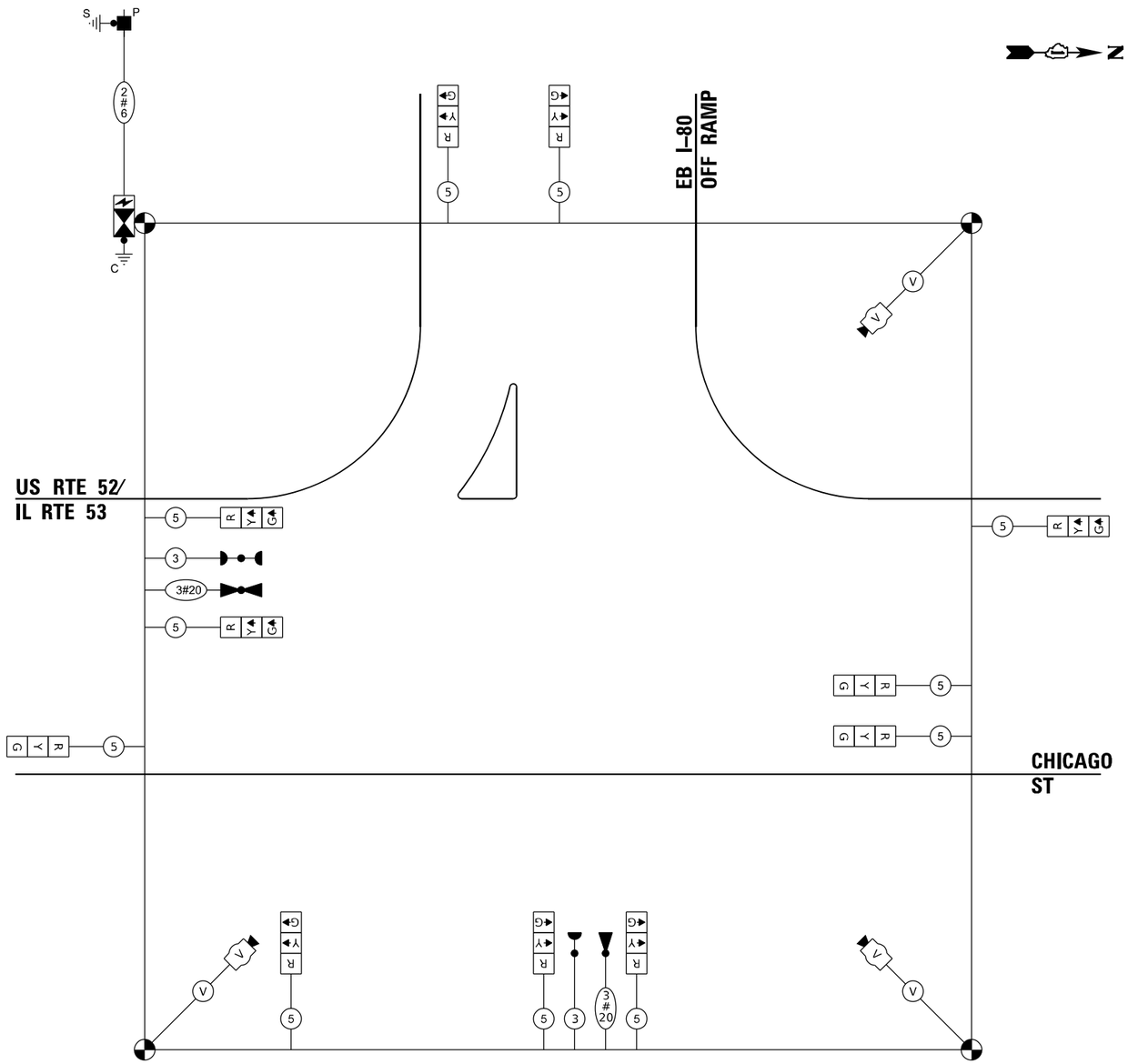


TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE STAGE PRE C, 2A, 2B



LEGEND:

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OL — OVERLAP



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

EQUIPMENT TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 1 OR 3-SECTION	11	11	110
4-SECTION	-	14	-
5-SECTION	-	13	26
PROGRAMMABLE 3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PEDESTRIAN SIGNAL	-	15	-
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTION RADAR OR VIDEO	3	20	60
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	-	35	-
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING			371
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING			976

ENERGY COSTS TO:
ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAY/DISTRICT 1
201 WEST CENTER COURT/SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY:
CONTACT: COMED NEW BUSINESS
PHONE: (866) 639-3532
COMPANY: COMED
ACCOUNT NUMBER: 14311 - 22272
METER NUMBER: -

TEMPORARY CABLE PLAN
(NOT TO SCALE)

TS SHT NO. 18

MODEL: Default
FILE NAME: D162F94-01-sht-10_Temporary Signal Cable Plan_EB_I-80.dgn

SINGH + ASSOCIATES, INC.
CONSULTING ENGINEERS

USER NAME = jturk	DESIGNED - GJG	REVISED -	
	DRAWN - GJG	REVISED -	
PLOT SCALE = 40.000 ' / in.	CHECKED - EEC	REVISED -	
PLOT DATE = 10/28/2025	DATE - 10/31/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE (STAGE PRE C, 2A, 2B)
US RTE 52 /IL RTE 53 (CHICAGO ST) AT EB I–80 RAMPS

SCALE: NONE | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	549
		CONTRACT NO. 62F94		
	ILLINOIS	FED. AID PROJECT		

TS 7491
ECON 72

N

EB I–80 RAMPS

WOOD POLE PART OF PATTERSON RD TEMPORARY SIGNAL

WOOD POLE PART OF PATTERSON RD TEMPORARY SIGNAL

APPROX. STA. 25+49, 61' LT

APPROX. STA. 27+33, 52' LT

APPROX. STA. 27+87, 41' LT

TRAFFIC SIGNAL POLE SHALL BE PROTECTED BY AN IMPACT ATTENUATOR (SEE ROADWAY PLANS FOR DETAILS)

US RTE 52 /IL RTE 53 (CHICAGO ST)

APPROX. STA. 29+01, 19' RT

APPROX. STA. 29+52, 117' RT

APPROX. STA. 27+70, 99' RT

APPROX. STA. 28+78, 131' RT

RAMP B / CHICAGO ST RUNAROUND

MATCHLINE A-A

MATCHLINE A-A

US RTE 52 /IL RTE 53 (CHICAGO ST)

AC

NOTES:

1. TEMPORARY TRAFFIC SIGNAL SHALL REMAIN OPERATIONAL UNTIL THE COMPLETION OF CONSTRUCTION STAGE 4 OR AS DIRECTED BY THE ENGINEER. TEMPORARY TRAFFIC SIGNAL SHALL BE REMOVED AFTER THE COMPLETION OF CONSTRUCTION STAGE 4 OR WHEN DIRECTED BY THE ENGINEER.
2. ALL PROPOSED WORK IS WITHIN ROW. ROW LIMITS EXTEND BEYOND THE LIMIT OF THIS SHEET.

TS 7491

ECON 72

0 20 40 60

SCALE IN FEET

TS SHT NO. 19

MODEL: Default
FILE NAME: D162F94-01-sht-11_TempPlan_EB_I-80_2.dgn

SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS

USER NAME = jturk	DESIGNED - GJG	REVISED -	
	DRAWN - GJG	REVISED -	
PLOT SCALE = 40.000 ' / in.	CHECKED - EEC	REVISED -	
PLOT DATE = 10/28/2025	DATE - 10/31/2025	REVISED -	

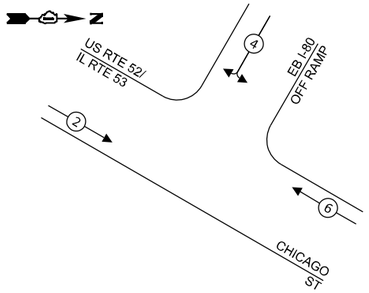
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN (STAGE 3, 4)
US RTE 52 /IL RTE 53 (CHICAGO ST) AT EB I–80 RAMPS

SCALE: 1" = 20' | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	550
		CONTRACT NO. 62F94		
	ILLINOIS	FED. AID PROJECT		

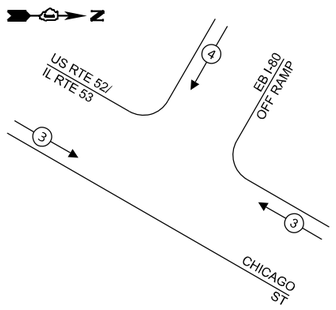
TEMPORARY CONTROLLER SEQUENCE STAGE 3, 4



LEGEND:

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OL — OVERLAP

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE STAGE 3, 4

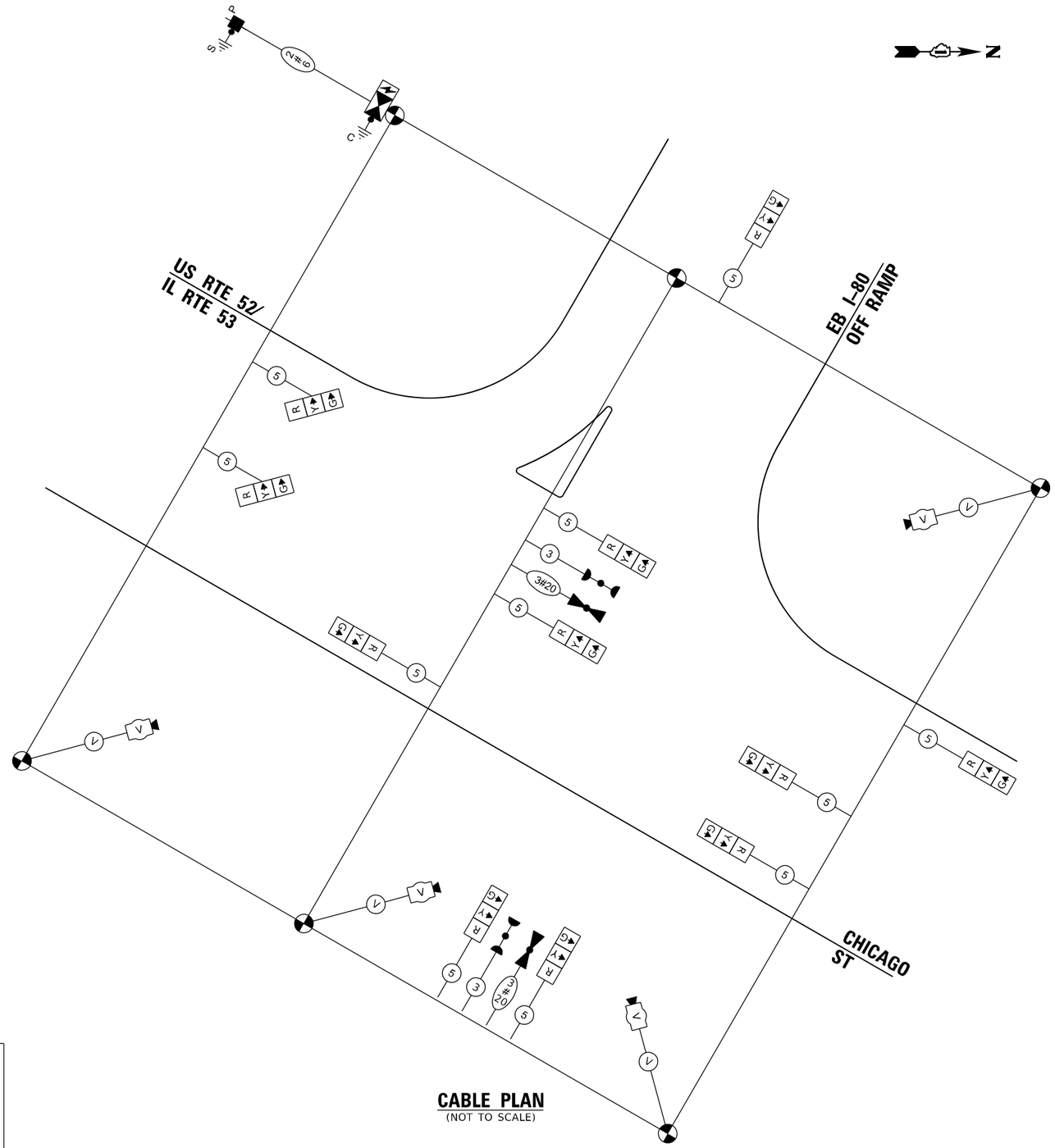


TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

EQUIPMENT TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 1 OR 3-SECTION	11	11	121
4-SECTION	-	14	-
5-SECTION	-	13	-
PROGRAMMABLE 3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PEDESTRIAN SIGNAL	-	15	-
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTION RADAR OR VIDEO	1	20	20
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	-	35	-
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING			316
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING			921

ENERGY COSTS TO:
ILLINOIS DEPARTMENT OF TRANSPORTATION
202 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY: CONTACT: NEW BUSINESS DEPT.
PHONE: (866) 639-3532
COMPANY: COMED
ACCOUNT NUMBER: 14311-22272
METER NUMBER: ---



CABLE PLAN
(NOT TO SCALE)

TS 7491
ECON 72

TS SHT NO. 20

MODEL: Default
FILE NAME: D:\02F94-01-sht-12_TempCablePlan_EB_I-80_2.dgn

SINGH + ASSOCIATES, INC.
CONSULTING ENGINEERS

USER NAME = jturk	DESIGNED - GJG	REVISED -	
	DRAWN - GJG	REVISED -	
PLOT SCALE = 40.000 ' / in.	CHECKED - EEC	REVISED -	
PLOT DATE = 10/28/2025	DATE - 10/31/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE (STAGE 3 & 4)
US RTE 52 /IL RTE 53 (CHICAGO ST) AT EB I-80 RAMPS

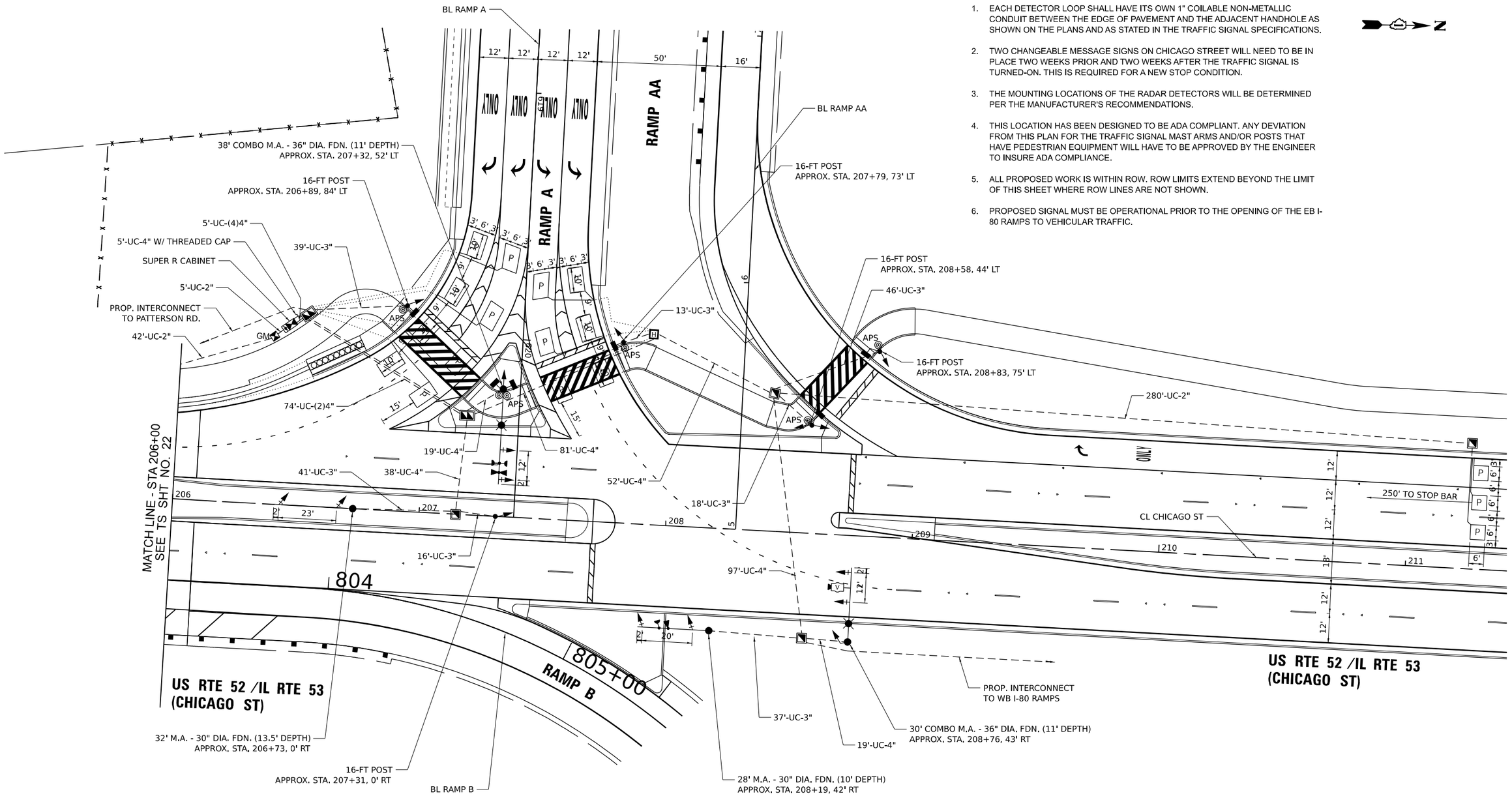
SCALE: NONE | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	551
		CONTRACT NO. 62F94		
	ILLINOIS FED. AID PROJECT			

NOTES:

1. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.
2. TWO CHANGEABLE MESSAGE SIGNS ON CHICAGO STREET WILL NEED TO BE IN PLACE TWO WEEKS PRIOR AND TWO WEEKS AFTER THE TRAFFIC SIGNAL IS TURNED-ON. THIS IS REQUIRED FOR A NEW STOP CONDITION.
3. THE MOUNTING LOCATIONS OF THE RADAR DETECTORS WILL BE DETERMINED PER THE MANUFACTURER'S RECOMMENDATIONS.
4. THIS LOCATION HAS BEEN DESIGNED TO BE ADA COMPLIANT. ANY DEVIATION FROM THIS PLAN FOR THE TRAFFIC SIGNAL MAST ARMS AND/OR POSTS THAT HAVE PEDESTRIAN EQUIPMENT WILL HAVE TO BE APPROVED BY THE ENGINEER TO INSURE ADA COMPLIANCE.
5. ALL PROPOSED WORK IS WITHIN ROW. ROW LIMITS EXTEND BEYOND THE LIMIT OF THIS SHEET WHERE ROW LINES ARE NOT SHOWN.
6. PROPOSED SIGNAL MUST BE OPERATIONAL PRIOR TO THE OPENING OF THE EB I-80 RAMPS TO VEHICULAR TRAFFIC.

N



TS SHT NO. 21

TS 7491
ECON 72

0 20 40 60
SCALE IN FEET

MODEL: Default
FILE NAME: D:\62F94-01-sht-13_SignalPlan_EB I-80.dgn

SINGH + ASSOCIATES, INC.
CONSULTING ENGINEERS

USER NAME = jturk	DESIGNED - GJG	REVISED -	
	DRAWN - GJG	REVISED -	
PLOT SCALE = 40.000 ' / in.	CHECKED - EEC	REVISED -	
PLOT DATE = 10/28/2025	DATE - 10/31/2025	REVISED -	

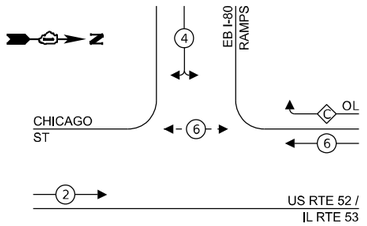
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION PLAN
US RTE 52 /IL RTE 53 (CHICAGO ST) AT EB I–80 RAMPS

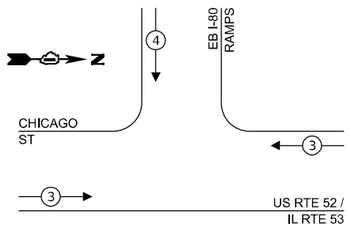
SCALE: 1" = 20' | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	552
		CONTRACT NO. 62F94		
	ILLINOIS FED. AID PROJECT			

PROPOSED CONTROLLER SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND:

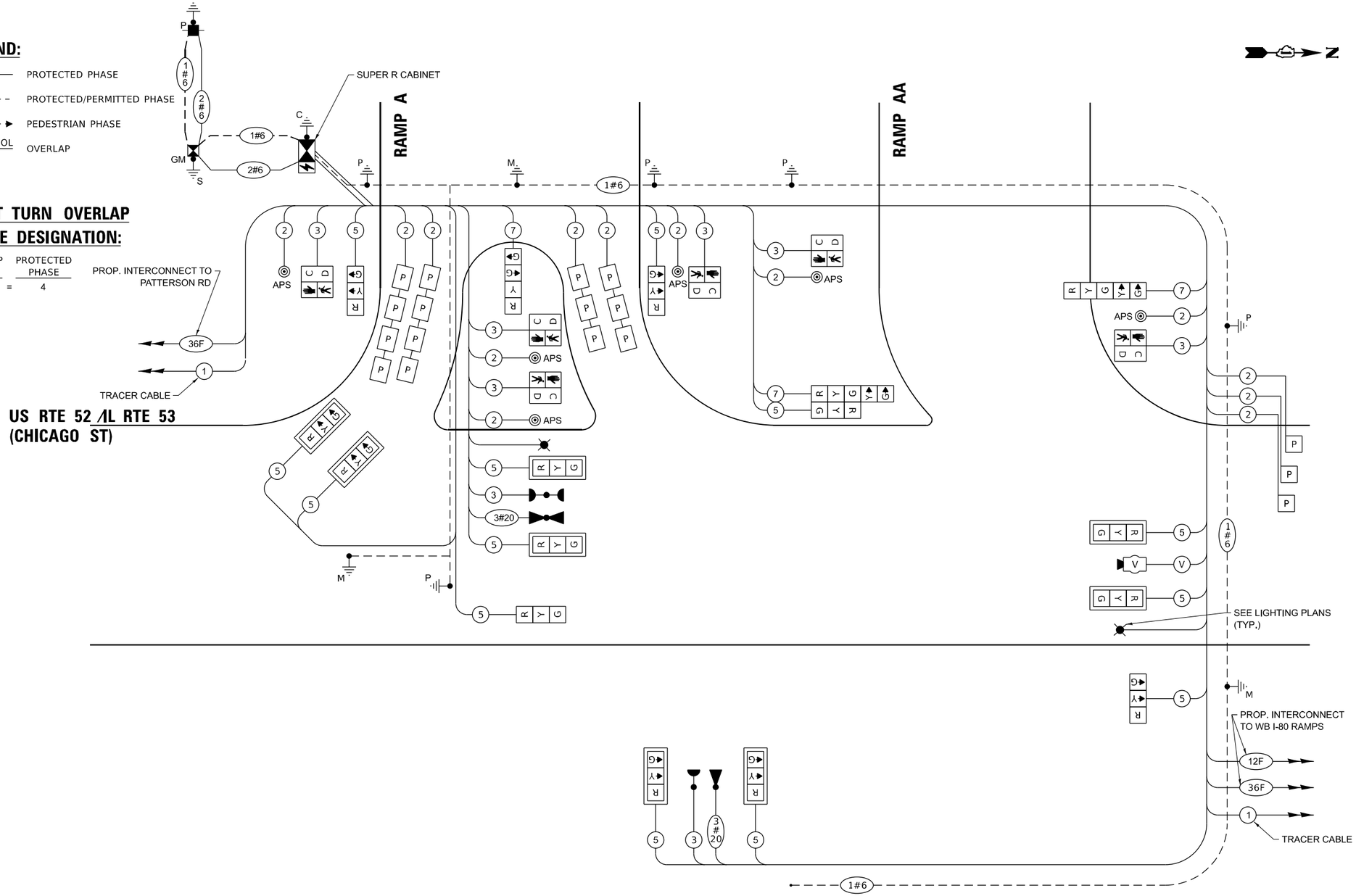
- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OL OVERLAP

RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER		PROTECTED PHASE
C	=	4

PROP. INTERCONNECT TO PATTERSON RD

TRACER CABLE



US RTE 52 /IL RTE 53 (CHICAGO ST)

CABLE PLAN
(NOT TO SCALE)

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

EQUIPMENT TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 1 OR 3-SECTION	13	11	143
4-SECTION	1	14	14
5-SECTION	2	13	26
PROGRAMMABLE 3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PEDESTRIAN SIGNAL	6	15	90
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTION RADAR OR VIDEO	1	20	20
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	-	35	-
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING			468
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING			1,073

ENERGY COSTS TO:
ILLINOIS DEPARTMENT OF TRANSPORTATION
202 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196-1096
ENERGY SUPPLY: CONTACT: NEW BUSINESS DEPT.
PHONE: (866) 639-3532
COMPANY: COMED
ACCOUNT NUMBER: 86931-62222
METER NUMBER: ---

NOTES

1. ALL RED INDICATIONS SHALL HAVE A LENS COVER.

TS SHT NO. 22

MODEL: Default
FILE NAME: D162F94-01-sht-14_CablePlan_EB_I-80.dgn

SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS

USER NAME = jturk	DESIGNED - GJG	REVISED -	
	DRAWN - GJG	REVISED -	
PLOT SCALE = 40.000 ' / in.	CHECKED - EEC	REVISED -	
PLOT DATE = 10/28/2025	DATE - 10/31/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
US RTE 52 /IL RTE 53 (CHICAGO ST) AT EB I-80 RAMPS

SCALE: NONE | SHEET OF SHEETS | STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	553
		CONTRACT NO. 62F94		
	ILLINOIS FED. AID PROJECT			

TS 7491
ECON 72

SIGN PANEL – TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE

DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY REQUIRED
D	16.25	2	ZZ	2

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL.

SCHEDULE OF QUANTITIES

	ITEM DESCRIPTION	UNITS	TOTAL QTY
	CHANGEABLE MESSAGE SIGN	CAL DA	56
	SIGN PANEL - TYPE 2	SQ FT	33
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	456
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	210
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	474
	CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC	FOOT	247
	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6" X 6" X 4"	EACH	2
	HANDHOLE	EACH	5
	DOUBLE HANDHOLE	EACH	2
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1,170
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	2,016
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3,256
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1,049
	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2,065
	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	457
	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1,092
	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	5
	STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	1
	STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	1
	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 30 FT.	EACH	1
	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 38 FT.	EACH	1
	CONCRETE FOUNDATION, TYPE A	FOOT	24
	CONCRETE FOUNDATION, TYPE C	FOOT	4
	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	24
	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	22
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	8
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	5
	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	1
	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	6
	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	8
	INDUCTIVE LOOP DETECTOR	EACH	7
	DETECTOR LOOP, TYPE III	FOOT	750
✳	LIGHT DETECTOR	EACH	2
✳	LIGHT DETECTOR AMPLIFIER	EACH	1
	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	2
✳	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	621
	SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
	FULL-ACTUATED CONTROLLER AND TYPE SUPER R CABINET (SPECIAL)	EACH	1
	UNINTERRUPTABLE POWER SUPPLY (SPECIAL)	EACH	1
	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	6
	LED SIGNAL FACE, LENS COVER	EACH	16
	VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	1
	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	2

✳ 100% COST TO THE CITY OF JOLIET

TS SHT NO. 23

MODEL: Default
FILE NAME: D1622F94-01-sht-15 Quantities_EB_I-80.dgn

TS 7491
ECON 72

SINGH + ASSOCIATES, INC.
CONSULTING ENGINEERS

USER NAME = jturk	DESIGNED - GJG	REVISED -	
	DRAWN - GJG	REVISED -	
PLOT SCALE = 40.000 ' / in.	CHECKED - EEC	REVISED -	
PLOT DATE = 10/28/2025	DATE - 10/31/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED STREET NAME SIGNS AND SCHEDULE OF QUANTITIES
US RTE 52 /IL RTE 53 (CHICAGO ST) AT EB I–80 RAMPS

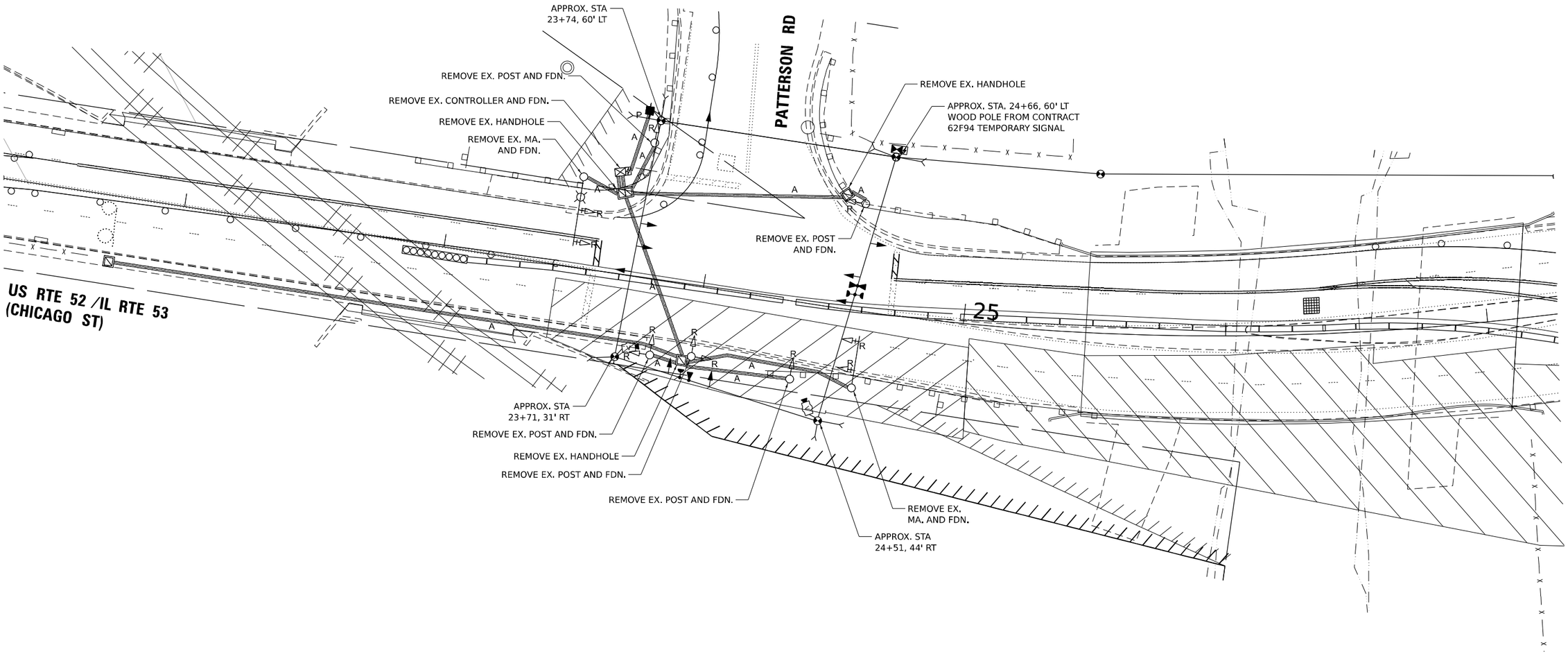
SCALE: NONE | SHEET OF SHEETS | STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	554
		CONTRACT NO. 62F94		
	ILLINOIS	FED. AID PROJECT		

REMOVAL AND RELOCATION NOTES:

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

1	EACH	CONTROLLER AND CABINET (COMPLETE)
2	EACH	STEEL MAST ARM ASSEMBLY AND POST
5	EACH	TRAFFIC SIGNAL POST
11	EACH	3-SECTION SIGNAL HEAD
1	EACH	SERVICE INSTALLATION
4	EACH	TRAFFIC SIGNAL BACKPLATE



TS 11950
ECON 72

0 20 40 60
SCALE IN FEET

TS SHT NO. 24

MODEL: Default
FILE NAME: D162F94-01-sht-16_Template_Patterson.dgn

SINGH + ASSOCIATES, INC.
CONSULTING ENGINEERS

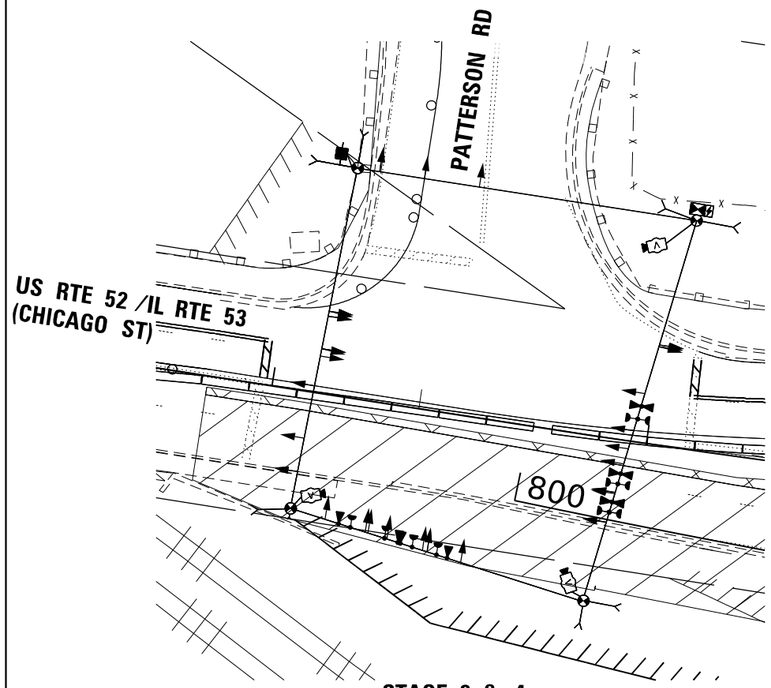
USER NAME = jturk	DESIGNED - GJG	REVISED -	
	DRAWN - GJG	REVISED -	
PLOT SCALE = 40.000 ' / in.	CHECKED - EEC	REVISED -	
PLOT DATE = 10/28/2025	DATE - 10/31/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

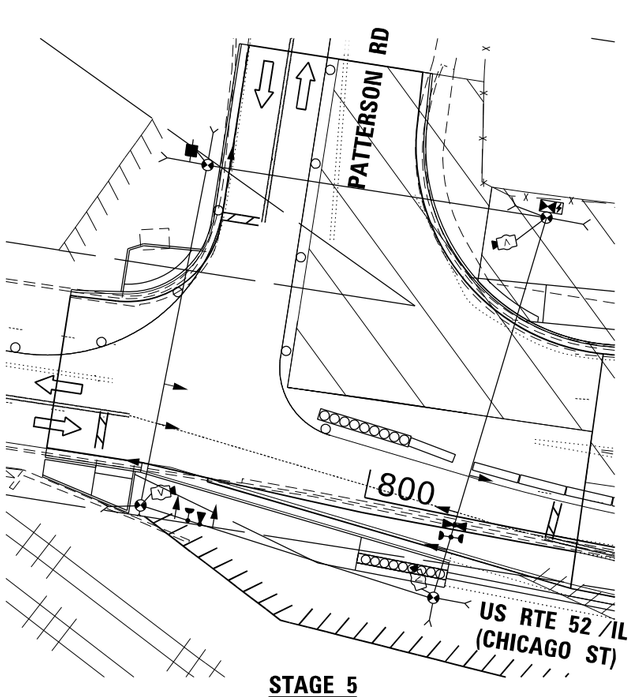
TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN
US RTE 52 /IL RTE 53 (CHICAGO ST) AT PATTERSON RD

SCALE: 1" = 20' | SHEET OF SHEETS | STA. TO STA.

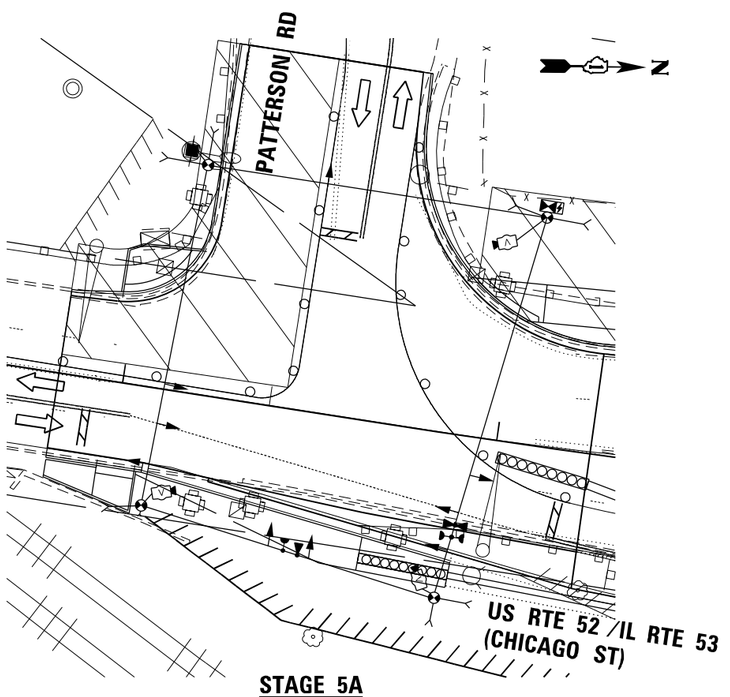
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	555
		CONTRACT NO. 62F94		
	ILLINOIS	FED. AID PROJECT		



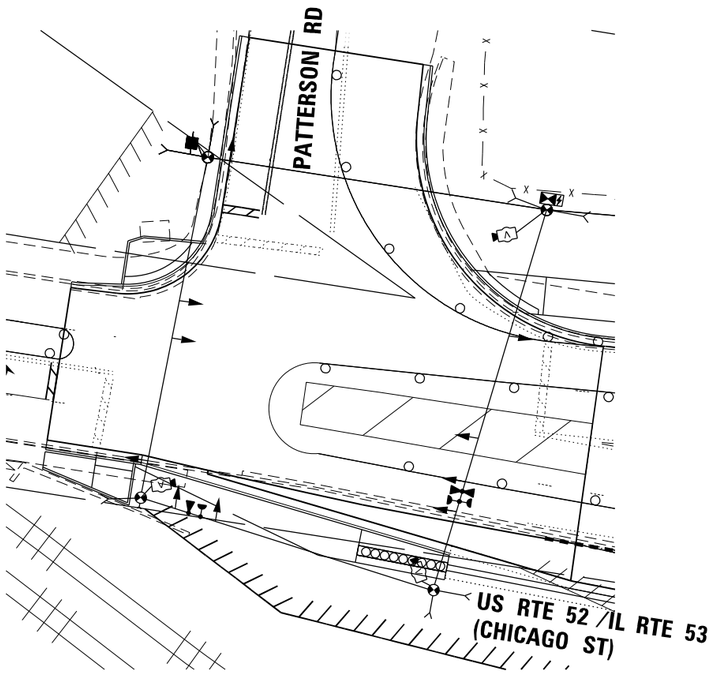
STAGE 3 & 4



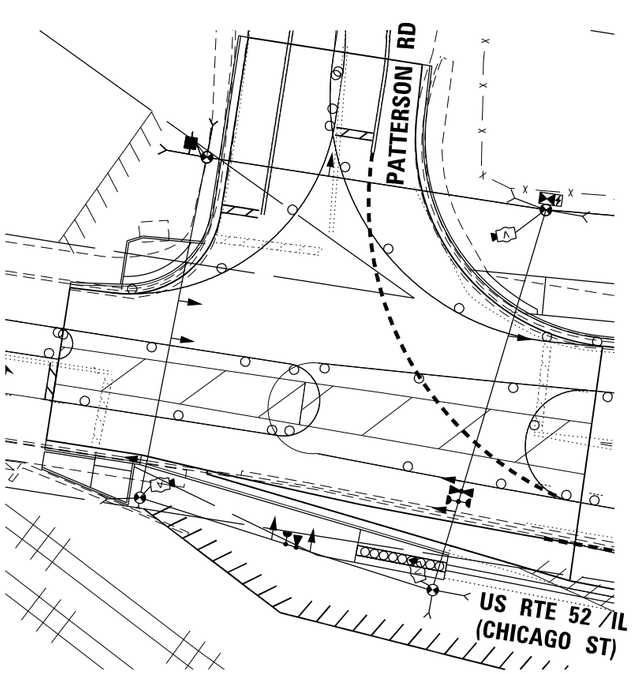
STAGE 5



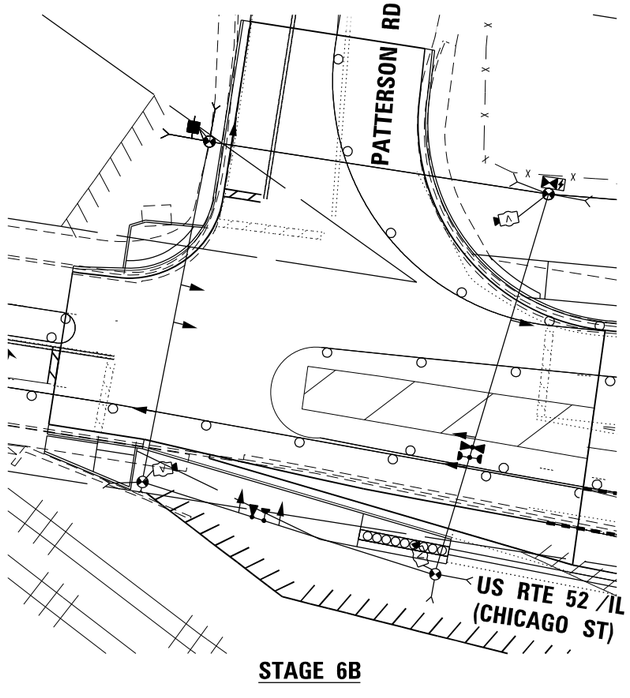
STAGE 5A



STAGE 6



STAGE 6A



STAGE 6B

TS 11950
ECON 72

0 20 40 60
SCALE IN FEET

TS SHT NO. 25

MODEL: Default
FILE NAME: D:\62F94-01-sht-17 TempRun_Patterson_2.dgn

SINGH + ASSOCIATES, INC.
CONSULTING ENGINEERS

USER NAME = jturk	DESIGNED - GJG	REVISED -	
	DRAWN - GJG	REVISED -	
PLOT SCALE = 40.000 ' / in.	CHECKED - EEC	REVISED -	
PLOT DATE = 10/28/2025	DATE - 10/31/2025	REVISED -	

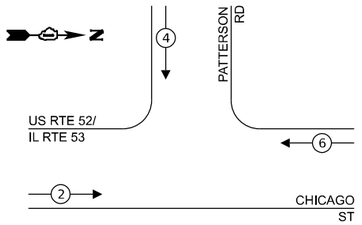
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
(STAGE 3, 4, 5, 5A, 6, 6A, 6B)
US RTE 52 /IL RTE 53 (CHICAGO ST) AT PATTERSON RD

SCALE: 1" = 20' | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	556
		CONTRACT NO. 62F94		
	ILLINOIS	FED. AID PROJECT		

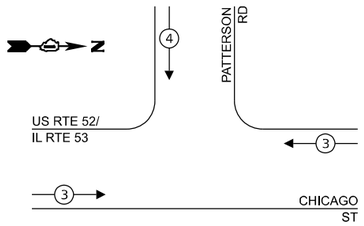
TEMPORARY CONTROLLER SEQUENCE
STAGE 3, 4, 5, 5A, 6, 6A, 6B

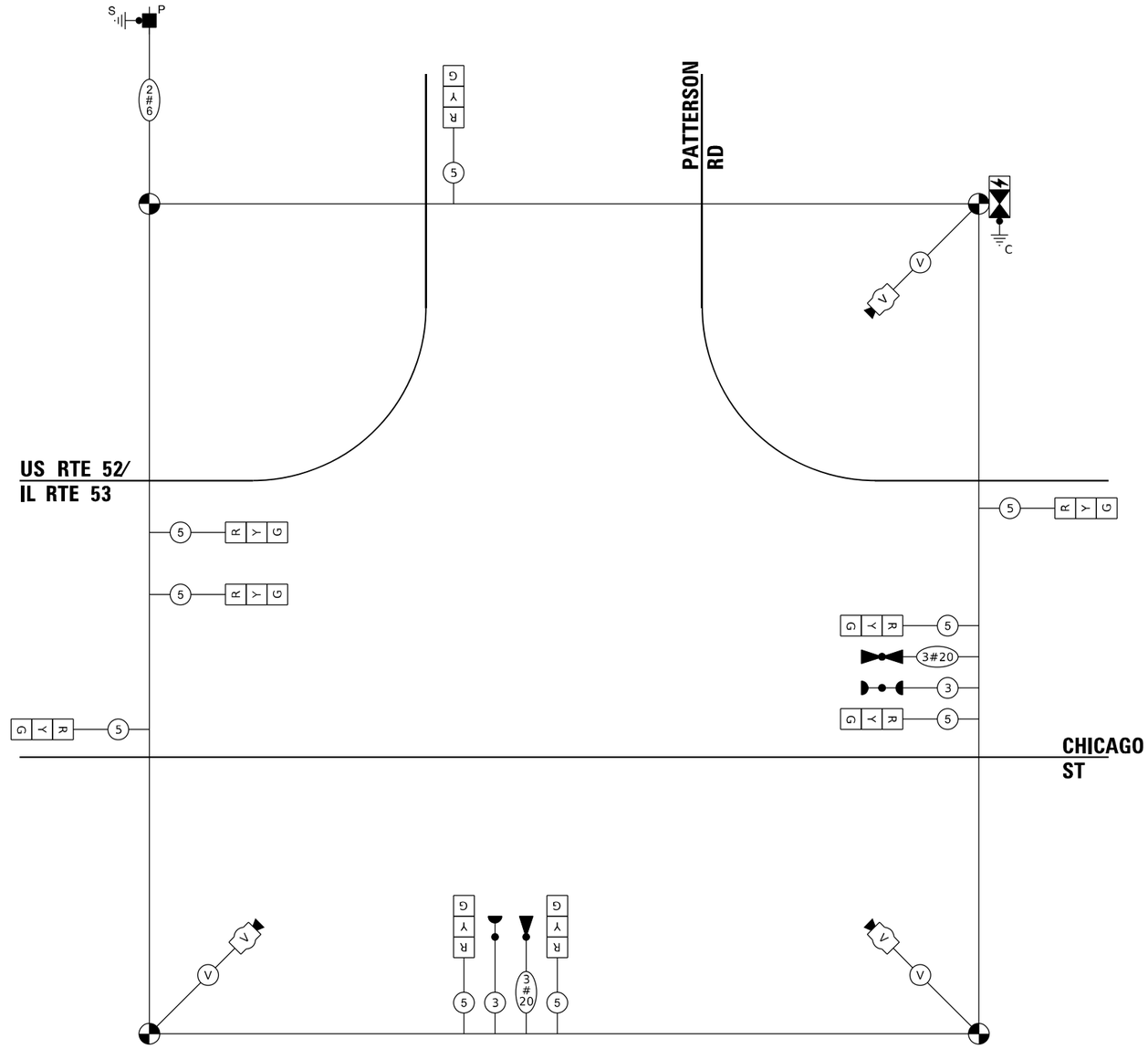


LEGEND:

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OL — OVERLAP

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE
STAGE 3, 4, 5, 5A, 6, 6A, 6B





CABLE PLAN
(NOT TO SCALE)

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

EQUIPMENT TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 1 OR 3-SECTION	9	11	99
4-SECTION	-	14	-
5-SECTION	-	13	-
PROGRAMMABLE 3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PEDESTRIAN SIGNAL	-	15	-
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTION RADAR OR VIDEO	3	20	60
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	-	35	-
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING			334
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING			939

ENERGY COSTS TO:
ILLINOIS DEPARTMENT OF TRANSPORTATION
202 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196-1096
ENERGY SUPPLY: CONTACT: NEW BUSINESS DEPT.
PHONE: (866) 639-3532
COMPANY: COMED
ACCOUNT NUMBER: 14311-22272
METER NUMBER: ---

TS SHT NO. 26

MODEL: Default
FILE NAME: D162F94-01-sht-18_TempCablePlan_Patterson.dgn

SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS

USER NAME = jturk	DESIGNED - GJG	REVISED -	
	DRAWN - GJG	REVISED -	
PLOT SCALE = 40.000 ' / in.	CHECKED - EEC	REVISED -	
PLOT DATE = 10/28/2025	DATE - 10/31/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE (ALL STAGES)
US RTE 52 /IL RTE 53 (CHICAGO ST) AT PATTERSON RD

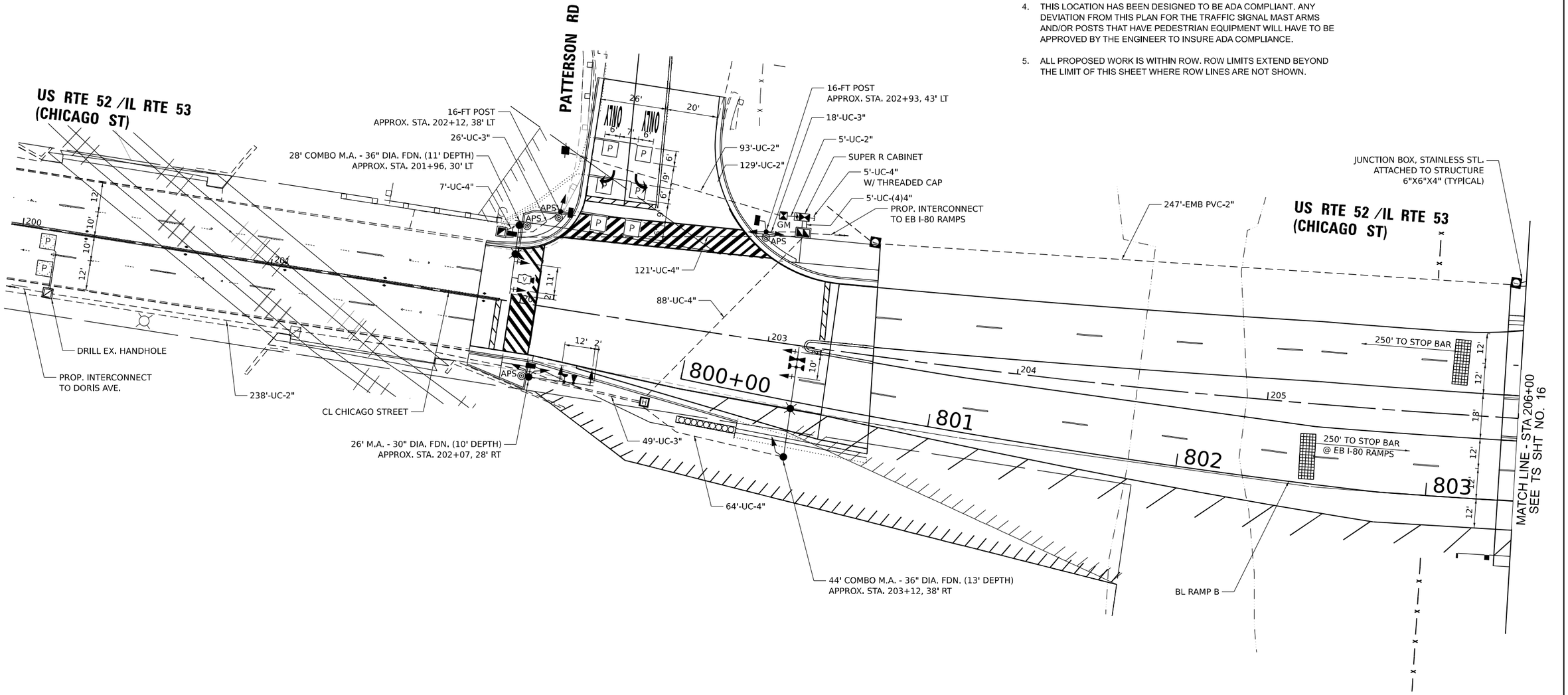
SCALE: NONE | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	557
		CONTRACT NO. 62F94		
	ILLINOIS	FED. AID PROJECT		

TS 11950
ECON 72

NOTES:

1. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.
2. TWO CHANGEABLE MESSAGE SIGNS ON CHICAGO STREET WILL NEED TO BE IN PLACE TWO WEEKS PRIOR AND TWO WEEKS AFTER THE TRAFFIC SIGNAL IS TURNED-ON. THIS IS REQUIRED FOR A NEW STOP CONDITION.
3. THE MOUNTING LOCATIONS OF THE RADAR DETECTORS WILL BE DETERMINED PER THE MANUFACTURER'S RECOMMENDATIONS.
4. THIS LOCATION HAS BEEN DESIGNED TO BE ADA COMPLIANT. ANY DEVIATION FROM THIS PLAN FOR THE TRAFFIC SIGNAL MAST ARMS AND/OR POSTS THAT HAVE PEDESTRIAN EQUIPMENT WILL HAVE TO BE APPROVED BY THE ENGINEER TO INSURE ADA COMPLIANCE.
5. ALL PROPOSED WORK IS WITHIN ROW. ROW LIMITS EXTEND BEYOND THE LIMIT OF THIS SHEET WHERE ROW LINES ARE NOT SHOWN.



TS SHT NO. 27

TS 11950
ECON 72

MODEL: Default
FILE NAME: D162F94-01-sht-19 SignalPlan Patterson.dgn

SINGH + ASSOCIATES, INC.
CONSULTING ENGINEERS

USER NAME = jturk		DESIGNED - GJG		REVISED -	
		DRAWN - GJG		REVISED -	
PLOT SCALE = 40.000 ' / in.		CHECKED - EEC		REVISED -	
PLOT DATE = 10/28/2025		DATE - 10/31/2025		REVISED -	

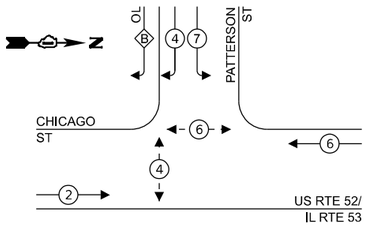
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION PLAN
US RTE 52 /IL RTE 53 (CHICAGO ST) AT PATTERSON RD

SCALE: 1" = 20' | SHEET OF SHEETS | STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	558
		CONTRACT NO. 62F94		
	ILLINOIS	FED. AID PROJECT		

PROPOSED CONTROLLER SEQUENCE



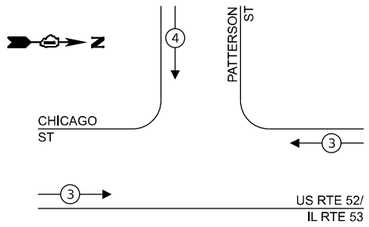
LEGEND:

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OL — OVERLAP

RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER		PERMITTED PHASE		PROTECTED PHASE
C	=	6	+	7

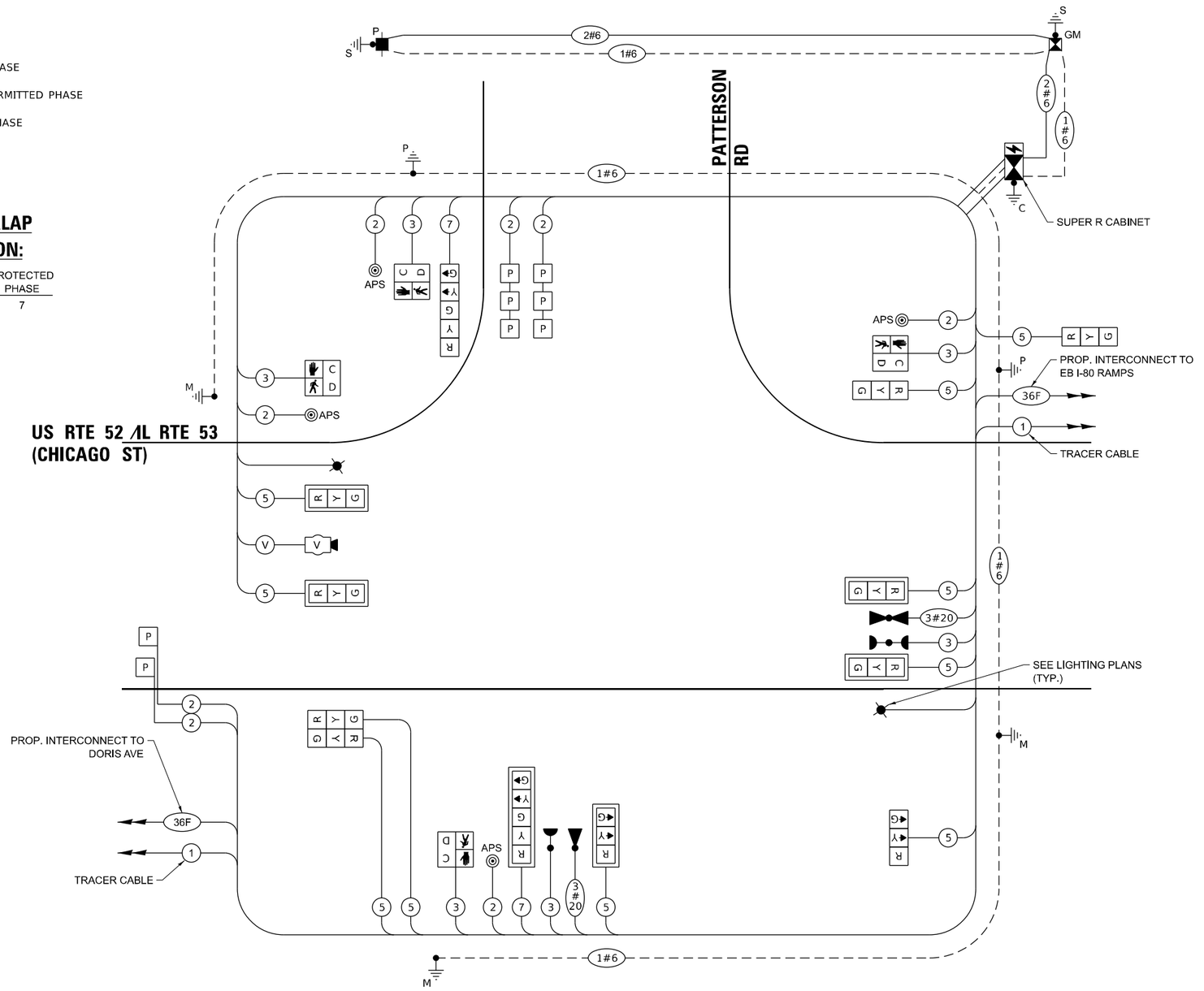
PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

EQUIPMENT TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 1 OR 3-SECTION	10	11	110
4-SECTION	-	14	-
5-SECTION	2	13	26
PROGRAMMABLE 3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PEDESTRIAN SIGNAL	4	15	60
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTION RADAR OR VIDEO	1	20	20
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	-	35	-
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING			385
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING			990

ENERGY COSTS TO:
ILLINOIS DEPARTMENT OF TRANSPORTATION
202 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196-1096
ENERGY SUPPLY: CONTACT: NEW BUSINESS DEPT.
PHONE: (866) 639-3532
COMPANY: COMED
ACCOUNT NUMBER: 86931-62222
METER NUMBER: ---



CABLE PLAN
(NOT TO SCALE)

NOTES

1. ALL RED INDICATIONS SHALL HAVE A LENS COVER.

TS SHT NO. 28

MODEL: Default
FILE NAME: D162F94-01-sht-20 CableRun Patterson.dgn

SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS

USER NAME = jturk	DESIGNED - GJG	REVISED -
	DRAWN - GJG	REVISED -
PLOT SCALE = 40.000 ' / in.	CHECKED - EEC	REVISED -
PLOT DATE = 10/28/2025	DATE - 10/31/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
US RTE 52 /IL RTE 53 (CHICAGO ST) AT PATTERSON RD

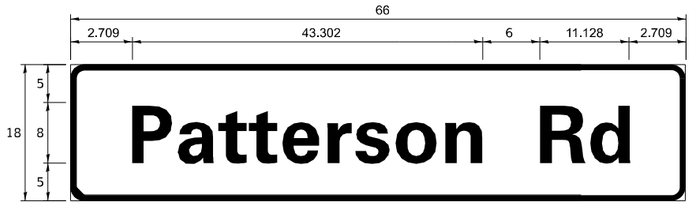
SCALE: NONE | SHEET OF SHEETS | STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	559
		CONTRACT NO. 62F94		
	ILLINOIS	FED. AID PROJECT		

TS 11950
ECON 72

SIGN PANEL – TYPE 1

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY REQUIRED
D	8.25	1	ZZ	2

SIGN PANEL – TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE

DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY REQUIRED
D	16.25	2	ZZ	1

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL.

SCHEDULE OF QUANTITIES

	ITEM DESCRIPTION	UNITS	TOTAL QTY
	SIGN PANEL - TYPE 1	SQ FT	17
	SIGN PANEL - TYPE 2	SQ FT	17
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	465
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	93
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	285
	HANDHOLE	EACH	2
	DOUBLE HANDHOLE	EACH	1
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	590
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1,072
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1,787
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	402
	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1,088
	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	137
	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	630
	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
	STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	1
	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 28 FT.	EACH	1
	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 44 FT.	EACH	1
	CONCRETE FOUNDATION, TYPE A	FOOT	12
	CONCRETE FOUNDATION, TYPE C	FOOT	4
	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	10
	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	24
	DRILL EXISTING HANDHOLE	EACH	1
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	5
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	5
	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	1
	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	6
	INDUCTIVE LOOP DETECTOR	EACH	4
	DETECTOR LOOP, TYPE III	FOOT	350
*	LIGHT DETECTOR	EACH	2
*	LIGHT DETECTOR AMPLIFIER	EACH	1
	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
	REMOVE EXISTING HANDHOLE	EACH	2
	REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
	REMOVE EXISTING CONCRETE FOUNDATION	EACH	8
*	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	458
	SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
	FULL-ACTUATED CONTROLLER AND TYPE SUPER R CABINET (SPECIAL)	EACH	1
	UNINTERRUPTABLE POWER SUPPLY (SPECIAL)	EACH	1
	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	4
	LED SIGNAL FACE, LENS COVER	EACH	12
	VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	1
	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

* 100% COST TO THE CITY OF JOLIET

TS SHT NO. 29

MODEL: Default
FILE NAME: D1622F94-01-sh-21 Quantities_Patterson.dgn

SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS

USER NAME = jturk	DESIGNED - GJG	REVISED -	
	DRAWN - GJG	REVISED -	
PLOT SCALE = 40.000 ' / in.	CHECKED - EEC	REVISED -	
PLOT DATE = 10/28/2025	DATE - 10/31/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED STREET NAME SIGNS AND SCHEDULE OF QUANTITIES
US RTE 52 /IL RTE 53 (CHICAGO ST) AT PATTERSON RD

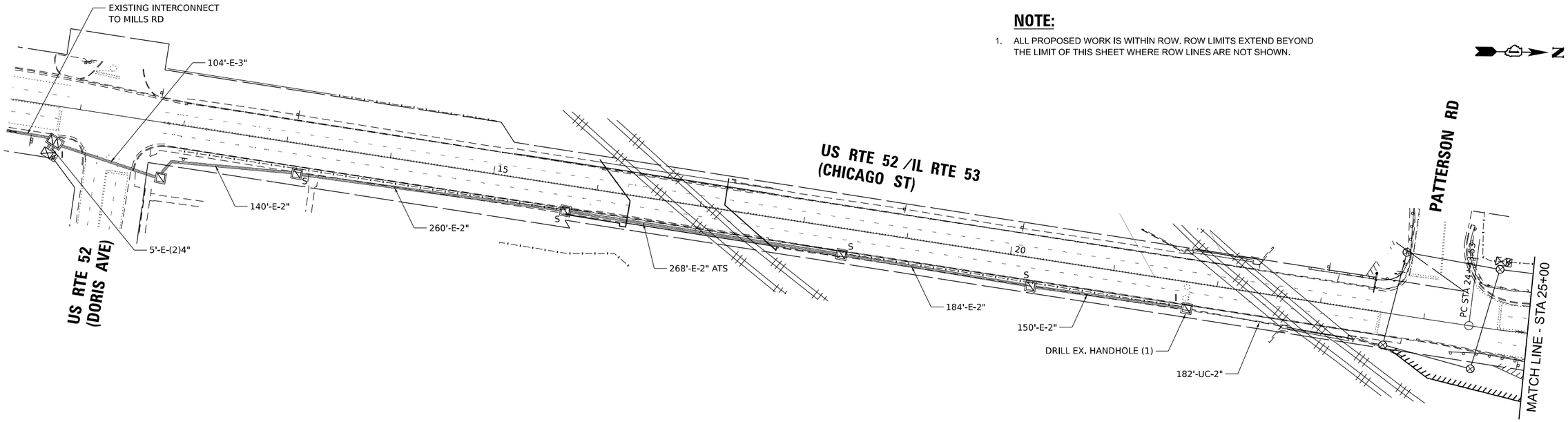
SCALE: NONE | SHEET OF SHEETS | STA. TO STA.

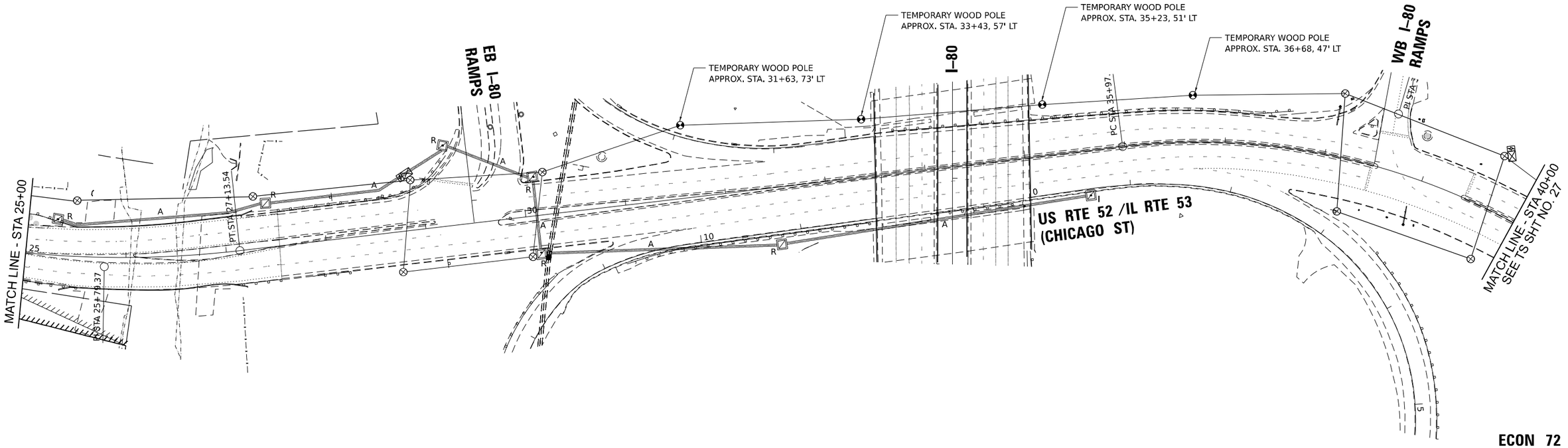
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	560
		CONTRACT NO. 62F94		
	ILLINOIS	FED. AID PROJECT		

TS 11950
ECON 72

NOTE:

1. ALL PROPOSED WORK IS WITHIN ROW. ROW LIMITS EXTEND BEYOND THE LIMIT OF THIS SHEET WHERE ROW LINES ARE NOT SHOWN.





ECON 72

0 50 100 150

SCALE IN FEET

TS SHT NO. 30

MODEL: Default
FILE NAME: D162F94-01-sht-22_Temp_Interconnect-Chicago.dgn

SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS

USER NAME = jturk	DESIGNED - GJG	REVISED -	
	DRAWN - GJG	REVISED -	
PLOT SCALE = 100.000 ' / in.	CHECKED - EEC	REVISED -	
PLOT DATE = 10/28/2025	DATE - 10/31/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

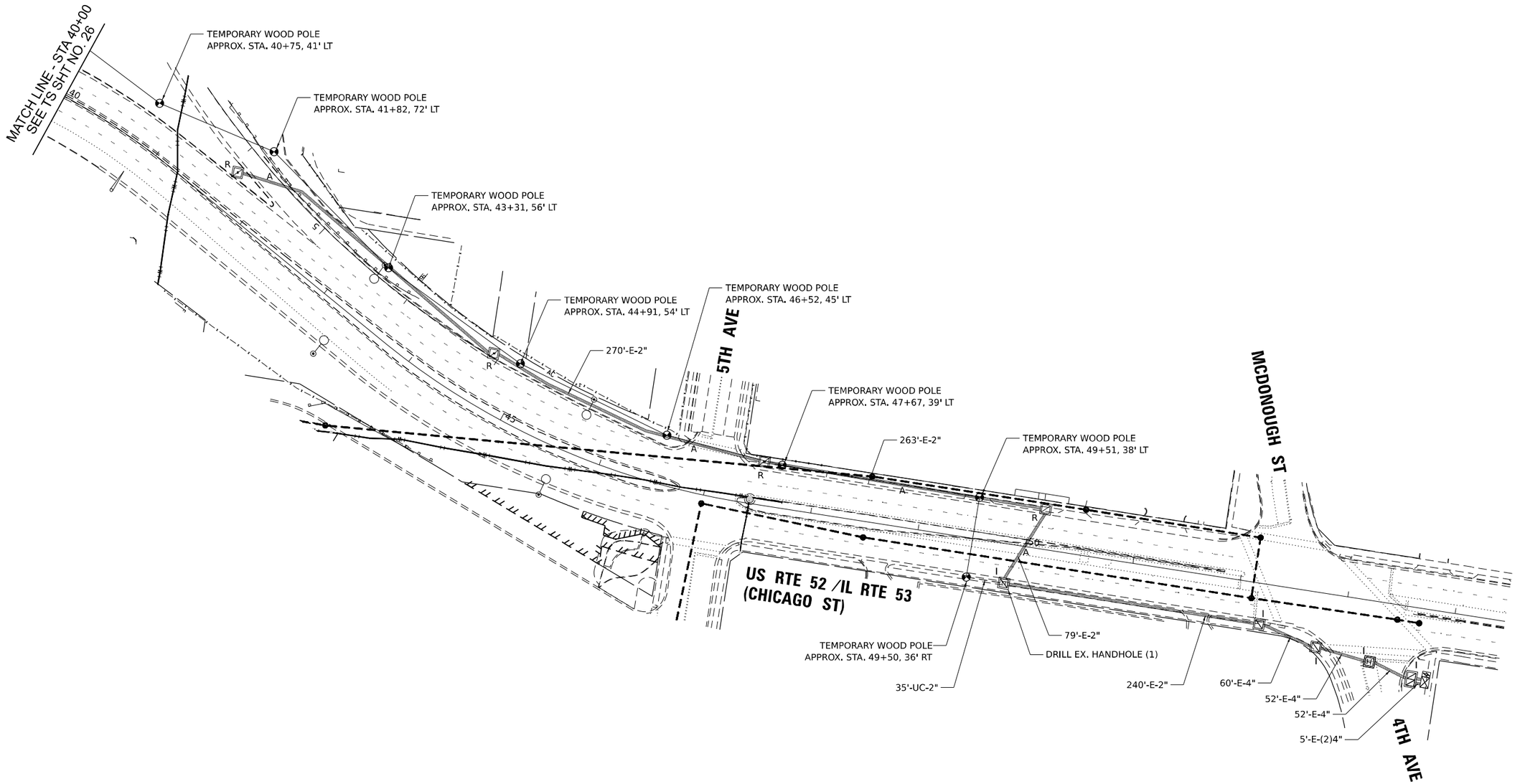
TEMPORARY INTERCONNECT PLAN (STAGE PRE A, PRE B, PRE C, 2A, 2B)
US RTE 52 /IL RTE 53 (CHICAGO ST) AT I-80

SCALE: 1" = 50' | SHEET 1 OF 2 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	561
		CONTRACT NO. 62F94		
	ILLINOIS FED. AID PROJECT			

NOTE:

1. ALL PROPOSED WORK IS WITHIN ROW. ROW LIMITS EXTEND BEYOND THE LIMIT OF THIS SHEET WHERE ROW LINES ARE NOT SHOWN.



ECON 72

0 50 100 150

SCALE IN FEET

TS SHT NO. 31

MODEL: Default
FILE NAME: D162F94-01-sht-23_Temp_Interconnect-Chicago_2.dgn

SINGH + ASSOCIATES, INC.
CONSULTING ENGINEERS

USER NAME = jturk	DESIGNED - GJG	REVISED -	
	DRAWN - GJG	REVISED -	
PLOT SCALE = 100.000 ' / in.	CHECKED - EEC	REVISED -	
PLOT DATE = 10/28/2025	DATE - 10/31/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY INTERCONNECT PLAN (STAGE PRE A, PRE B, PRE C, 2A, 2B)
US RTE 52 /IL RTE 53 (CHICAGO ST) AT I–80

SCALE: 1" = 50' | SHEET 2 OF 2 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	562
		CONTRACT NO. 62F94		
	ILLINOIS FED. AID PROJECT			

NOTE:

1. ALL PROPOSED WORK IS WITHIN ROW. ROW LIMITS EXTEND BEYOND THE LIMIT OF THIS SHEET WHERE ROW LINES ARE NOT SHOWN.

N

EXISTING INTERCONNECT TO MILLS RD

US RTE 52 (DORIS AVE)

104'-E-3"

5'-E-(2)4"

140'-E-2"

260'-E-2"

268'-E-2" ATS

US RTE 52 /IL RTE 53 (CHICAGO ST)

184'-E-2"

150'-E-2"

191'-UC-2"

PATTERSON RD

71'-E-2"

MATCH LINE - STA 801+00

EB I–80 RAMPS

MATCH LINE - STA 801+00

US RTE 52 /IL RTE 53 (CHICAGO ST)

TEMPORARY WOOD POLE
APPROX. STA. 806+84, 35' LT

TEMPORARY WOOD POLE
APPROX. STA. 808+47, 39' LT

TEMPORARY WOOD POLE
APPROX. STA. 810+17, 38' LT

TEMPORARY WOOD POLE
APPROX. STA. 811+83, 41' LT

TEMPORARY WOOD POLE
APPROX. STA. 813+66, 58' LT

TEMPORARY WOOD POLE
APPROX. STA. 815+75, 58' LT

I–80

MATCH LINE - STA 817+00
SEE TS SHT NO. 27

TS SHT NO. 32

ECON 72

0 50 100 150

SCALE IN FEET

MODEL: Default
FILE NAME: D162F94-01-sth-24 Temp Interconnect-Chicago-3.dgn

SINGH + ASSOCIATES, INC.
CONSULTING ENGINEERS

USER NAME = jturk	DESIGNED - GJG	REVISED -	
	DRAWN - GJG	REVISED -	
PLOT SCALE = 100.000 ' / in.	CHECKED - EEC	REVISED -	
PLOT DATE = 10/28/2025	DATE - 10/31/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

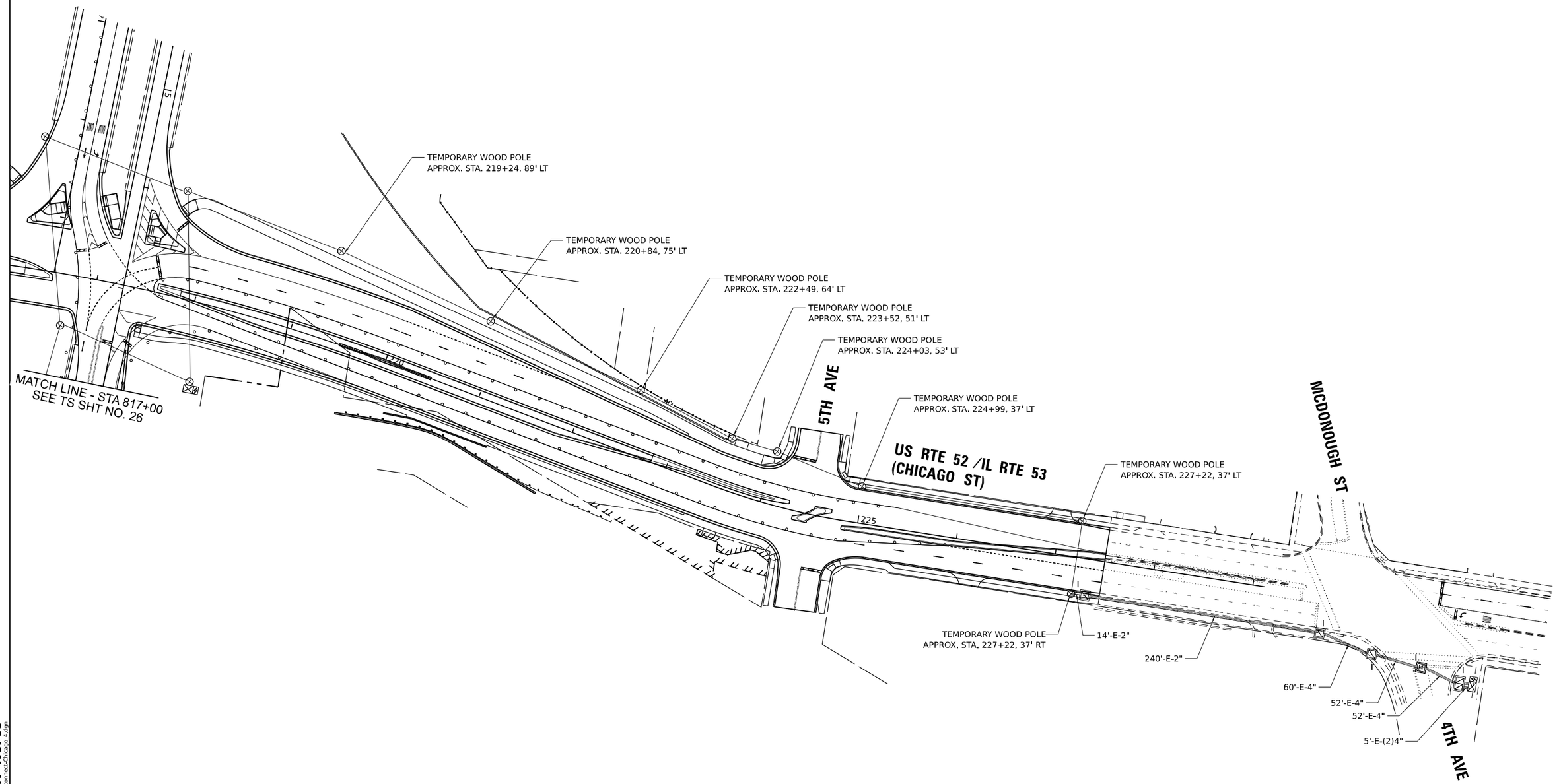
TEMPORARY INTERCONNECT PLAN (STAGE 3, 4, 5, 5A, 6, 6A, 6B)
US RTE 52 /IL RTE 53 (CHICAGO ST) AT I–80

SCALE: 1" = 50' | SHEET 1 OF 2 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	563
		CONTRACT NO. 62F94		
	ILLINOIS	FED. AID PROJECT		

NOTE:

1. ALL PROPOSED WORK IS WITHIN ROW. ROW LIMITS EXTEND BEYOND THE LIMIT OF THIS SHEET WHERE ROW LINES ARE NOT SHOWN.



ECON 72

0 50 100 150

SCALE IN FEET

TS SHT NO. 33

MODEL: Default
FILE NAME: D162F94-01-sht-25_Temp_Interconnect-Chicago_4.dgn

SINGH + ASSOCIATES, INC.
CONSULTING ENGINEERS

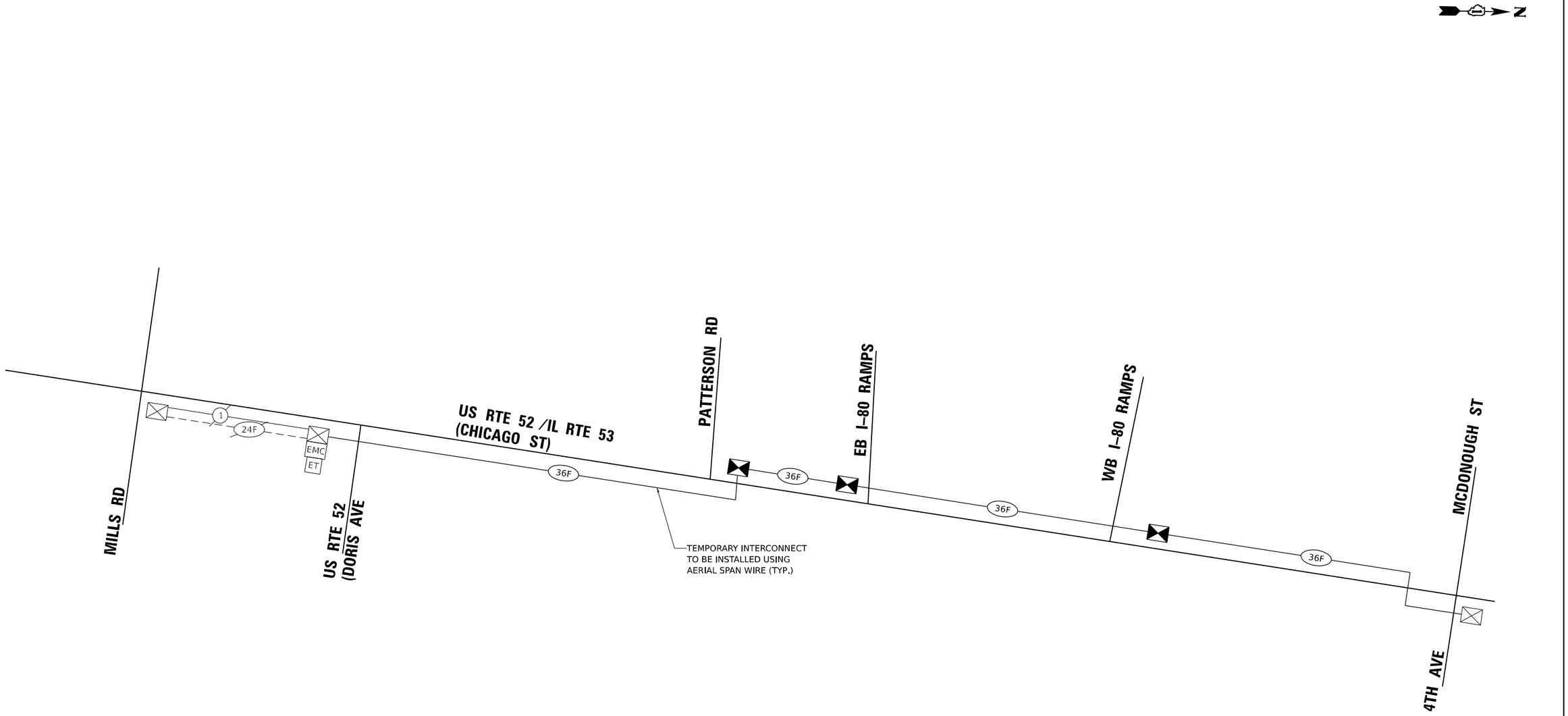
USER NAME = jturk	DESIGNED - GJG	REVISED -	
	DRAWN - GJG	REVISED -	
PLOT SCALE = 100.000 ' / in.	CHECKED - EEC	REVISED -	
PLOT DATE = 10/28/2025	DATE - 10/31/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY INTERCONNECT PLAN (STAGE 3, 4, 5, 5A, 6, 6A, 6B)
US RTE 52 /IL RTE 53 (CHICAGO ST) AT I–80

SCALE: 1" = 50' | SHEET 2 OF 2 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	564
		CONTRACT NO. 62F94		
	ILLINOIS	FED. AID PROJECT		



ECON 72

0 50 100 150

SCALE IN FEET

TS SHT NO. 34

MODEL: Default
FILE NAME: D162F94-01-sht-26_Temp_Schematic-Chicago.dgn

SINGH + ASSOCIATES, INC.
CONSULTING ENGINEERS

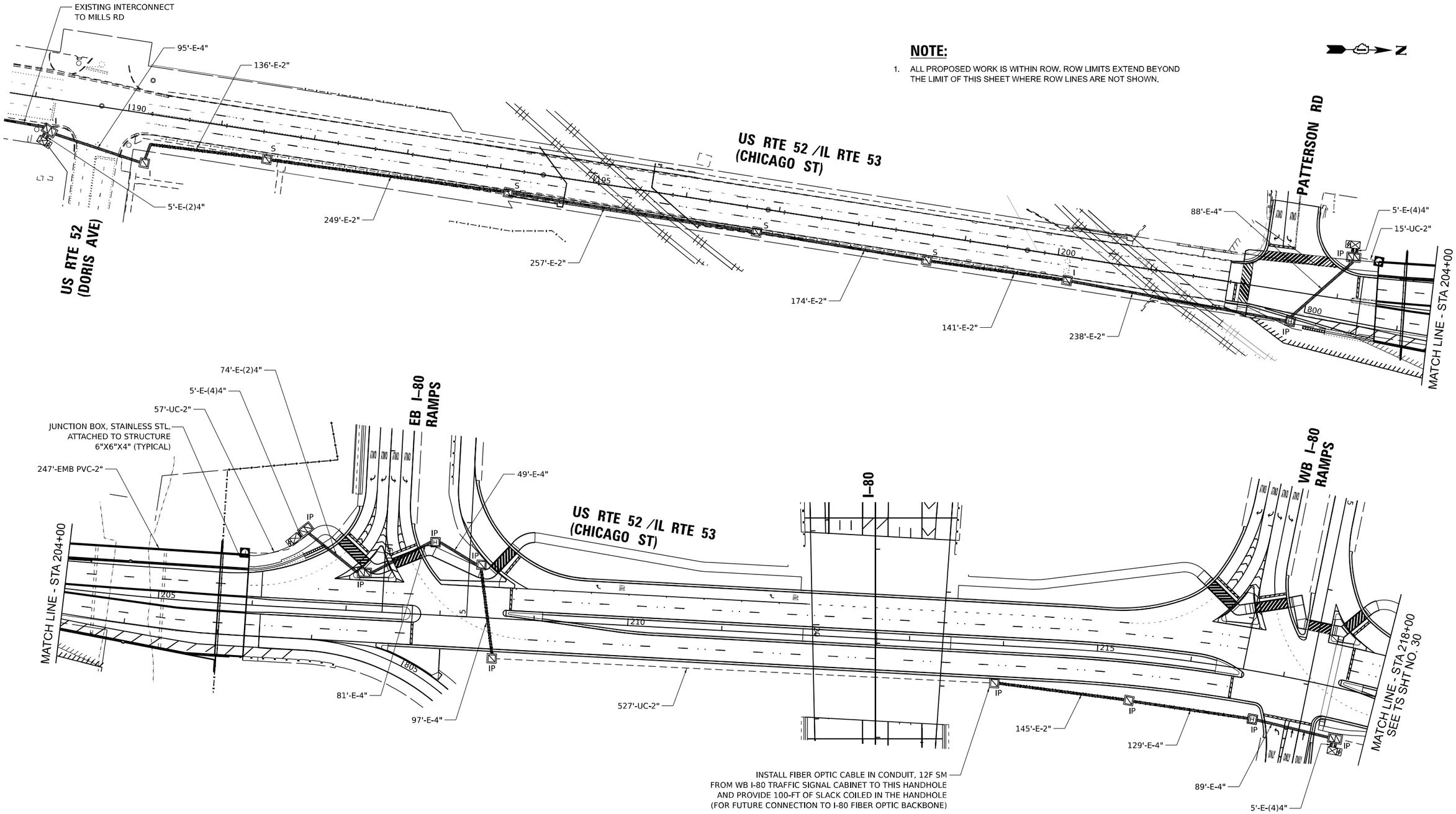
USER NAME = jturk	DESIGNED - GJG	REVISED -	
	DRAWN - GJG	REVISED -	
PLOT SCALE = 100.000 ' / in.	CHECKED - EEC	REVISED -	
PLOT DATE = 10/28/2025	DATE - 10/31/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY INTERCONNECT SCHEMATIC
US RTE 52 /IL RTE 53 (CHICAGO ST) AT I–80

SCALE: 1" = 20' | SHEET 2 OF 2 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	565
		CONTRACT NO. 62F94		
	ILLINOIS	FED. AID PROJECT		



TS SHT NO. 35

ECON 72

0 50 100 150

SCALE IN FEET

MODEL: Default
FILE NAME: D:\62F94-01-sht-27 Interconnect-Chicago.dgn

SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS

USER NAME = jturk	DESIGNED - GJG	REVISED -	
	DRAWN - GJG	REVISED -	
PLOT SCALE = 100.000 ' / in.	CHECKED - EEC	REVISED -	
PLOT DATE = 10/28/2025	DATE - 10/31/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

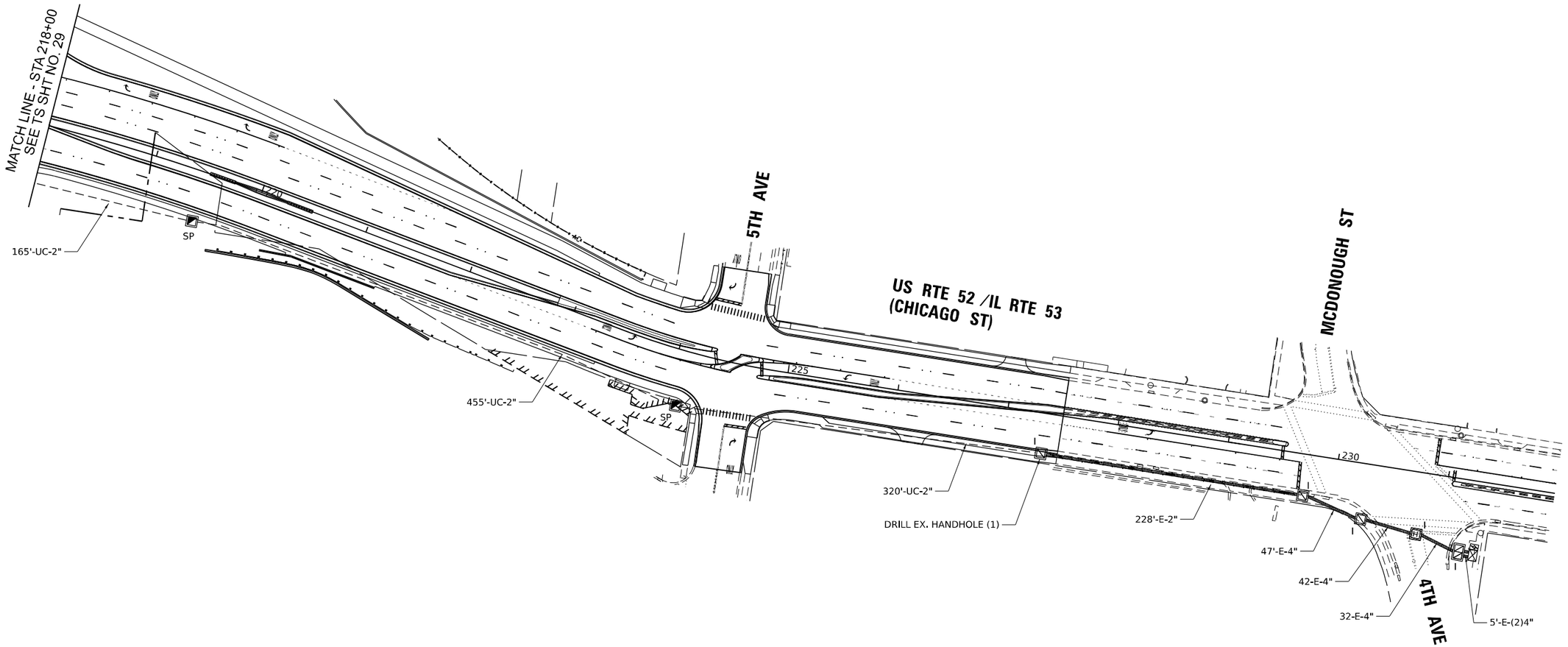
INTERCONNECT PLAN
US RTE 52 /IL RTE 53 (CHICAGO ST) AT I–80

SCALE: 1" = 50' | SHEET 1 OF 2 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	566
		CONTRACT NO. 62F94		
	ILLINOIS	FED. AID PROJECT		

NOTE:

1. ALL PROPOSED WORK IS WITHIN ROW. ROW LIMITS EXTEND BEYOND THE LIMIT OF THIS SHEET WHERE ROW LINES ARE NOT SHOWN.



ECON 72

0 50 100 150

SCALE IN FEET

TS SHT NO. 36

MODEL: Default
FILE NAME: D:\02F94-01-sht-28 Interconnect-Chicago_2.dgn

SINGH
SINGH + ASSOCIATES, INC.
CONSULTING ENGINEERS

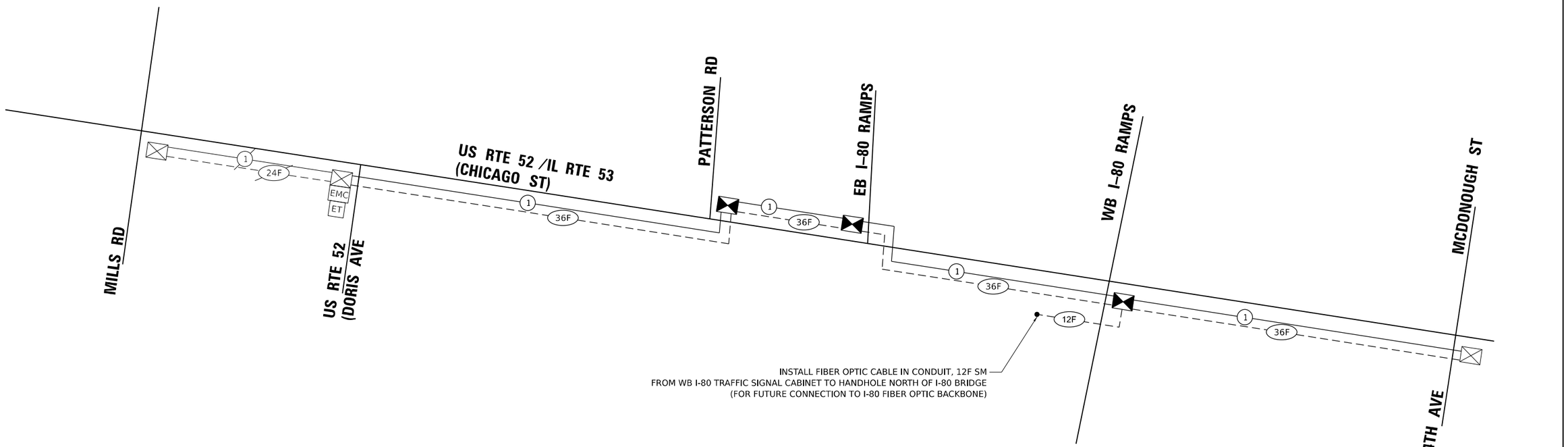
USER NAME = jturk	DESIGNED - GJG	REVISED -	
	DRAWN - GJG	REVISED -	
PLOT SCALE = 100.000 ' / in.	CHECKED - EEC	REVISED -	
PLOT DATE = 10/28/2025	DATE - 10/31/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT PLAN
US RTE 52 /IL RTE 53 (CHICAGO ST) AT I-80

SCALE: 1" = 50' | SHEET 2 OF 2 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	567
		CONTRACT NO. 62F94		
	ILLINOIS FED. AID PROJECT			



SCHEDULE OF QUANTITIES

	ITEM DESCRIPTION	UNITS	TOTAL QTY
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	1,539
	HANDHOLE	EACH	2
	TRANSCEIVER - FIBER OPTIC	EACH	3
	FIBER OPTIC CABLE 12 FIBERS, SINGLE MODE	FOOT	1,000
	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	4,450
	DRILL EXISTING HANDHOLE	EACH	3
	MODIFY EXISTING CONTROLLER	EACH	2
*	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1,500
	REMOVE EXISTING HANDHOLE	EACH	9
*	ROD AND CLEAN EXISTING CONDUIT	FOOT	1,500
	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12 SM24F	FOOT	4,450
	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	3

* NOMINAL QUANTITY TO BE USED AS NEEDED AND AS APPROVED BY THE ENGINEER

ECON 72

0 50 100 150
SCALE IN FEET

TS SHT NO. 37

MODEL: Default
FILE NAME: D102F94-01-sht-29 Schematic-Chicago.dgn

SINGH + ASSOCIATES, INC.
CONSULTING ENGINEERS

USER NAME = jturk	DESIGNED - GJG	REVISED -	
	DRAWN - GJG	REVISED -	
PLOT SCALE = 100.000 ' / in.	CHECKED - EEC	REVISED -	
PLOT DATE = 10/28/2025	DATE - 10/31/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT SCHEMATIC
US RTE 52 /IL RTE 53 (CHICAGO ST) AT I–80

SCALE: 1" = 20' | SHEET 2 OF 2 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	568
		CONTRACT NO. 62F94		
	ILLINOIS FED. AID PROJECT			

SYMBOLS FOR PROPOSED WORK

- HEAVY DUTY HANDHOLE (ELECTRICAL)
- COMMUNICATIONS VAULT (IDOT)
- COMMUNICATIONS VAULT (THIRD PARTY)
- CLOSED CIRCUIT TELEVISION CAMERA STRUCTURE FOUNDATION, 30" DIAMETER
- FUTURE CLOSED CIRCUIT TELEVISION CAMERA STRUCTURE FOUNDATION, 80 FT MOUNTING HEIGHT (BY OTHERS)
- CONCRETE FOUNDATION (SPECIAL) FOR FUTURE DISCONNECT

SYMBOLS FOR EXISTING CONDITIONS

- HEAVY DUTY HANDHOLE (ELECTRICAL)
- COMMUNICATIONS VAULT (IDOT)
- COMMUNICATIONS VAULT (THIRD PARTY)

LINESTYLES FOR PROPOSED WORK

- E E — CONDUIT FOR FUTURE ELECTRICAL CABLE*
- FO FO — MICRODUCT OR INNERDUCT FOR FUTURE FIBER OPTIC CABLE*
- FO FO — MICRODUCT TO REMAIN
- CONDUIT SLEEVE*

*TYPE AND SIZE AS INDICATED ON PLANS; IN 4" FRE CONDUIT ATS FOR BRIDGE CROSSING AS NOTED ON PLANS.

NON-ITS ELEMENTS LEGEND

- *EXISTING UNDERGROUND TELEPHONE*
- *EXISTING UNDERGROUND GAS*
- *EXISTING UNDERGROUND CABLE TV*
- *EXISTING UNDERGROUND WATER*
- *EXISTING UNDERGROUND OIL*
- *EXISTING ACCESS CONTROL AND ROW FENCE*
- *EXISTING AERIAL LINE*
- *EXISTING GUARDRAIL*
- *EXISTING STORM SEWER*
- *EXISTING SANITARY SEWER*
- *EXISTING LIGHTING*
- *EXISTING SIGNAGE*
- *PROPOSED ACCESS CONTROL AND ROW FENCE*
- *PROPOSED GUARDRAIL*
- *PROPOSED STORM SEWER*
- *PROPOSED UNDERDRAIN*
- *PROPOSED DRAINAGE*
- *PROPOSED DRAINAGE FLOW*
- *PROPOSED LIGHTING*
- *PROPOSED SIGNAGE*

ABBREVIATIONS

ATS	ATTACHED TO STRUCTURE
CNC	COILABLE NONMETALLIC CONDUIT
COMM	COMMUNICATIONS
(E)	EXISTING TO REMAIN
FRE	FIBERGLASS REINFORCED EPOXY (CONDUIT)
FT	FEET
GSC	GALVANIZED STEEL CONDUIT
HDHH	HEAVY-DUTY HANDHOLE
(I)	INSTALL
NTS	NOT TO SCALE
O.D.	OUTSIDE DIAMETER
OFF	OFFSET
STA	STATION

MODEL: Default
FILE NAME: D162F04-01-ahr-its-01.dgn

ATLAS TECHNICAL CONSULTANTS, LLC
100 S. WACKER DRIVE, SUITE 400
CHICAGO, IL 60606

USER NAME = dmeier	DESIGNED - DJM	REVISED -
	DRAWN - DJM	REVISED -
PLOT SCALE = 2.000 ' / In.	CHECKED - REL	REVISED -
PLOT DATE = 10/28/2025	DATE - 10/31/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ITS LEGEND & ABBREVIATIONS

SCALE: NTS | SHEET 1 OF 13 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	569
		CONTRACT NO. 62F94		
	ILLINOIS	FED. AID PROJECT		

ITS GENERAL NOTES

1. AFTER THE INITIAL LOCATE OF IDOT FACILITIES, THE CONTRACTOR WILL BE RESPONSIBLE FOR LOCATING EXISTING IDOT ELECTRICAL FACILITIES AT HIS/HER OWN EXPENSE. THE CONTRACTOR SHALL ALSO BE LIABLE FOR ANY DAMAGE TO IDOT FACILITIES RESULTING FROM INACCURATE LOCATING.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN IN THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER. THIS WORK WILL BE AT THE CONTRACTOR'S EXPENSE.

3. POTHOLING TO LOCATE EXISTING UNDERGROUND UTILITIES SHALL BE INCLUDED IN THE CONTRACT BID PRICE FOR THE UNDERGROUND CONDUIT/MICRODUCT/INNERDUCT PAY ITEMS.

4. THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF UNCOVERING OR HAND DIGGING AROUND UTILITIES AS NECESSARY. THIS COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICES FOR THE CONDUIT/MICRODUCT/INNERDUCT PAY ITEMS.

5. THE CONTRACTOR SHALL VERIFY ADEQUATE CLEARANCE OVER/UNDER EXISTING AND PROPOSED FACILITIES BEFORE INSTALLING DUCTS OR CONDUIT. WHERE THE CONTRACTOR'S EXCAVATION MEETS AN OBSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR DIRECTION IN WRITING PRIOR TO EXCAVATION.

6. CONDUIT OR MICRODUCT CROSSING OVER/UNDER OTHER UTILITIES OR DRAINAGE SHALL MAINTAIN A SEPERATION OF AT LEAST 18 INCHES OR AS SPECIFIED BY OWNING UTILITY.

7. CONDUITS AND MICRODUCTS SHALL BE INSTALLED AT A MINIMUM 42" DEPTH BELOW GRADE AND POSITIONED IN THE FIELD TO AVOID CONFLICT WITH ROADWAY UNDERDRAINS AND OTHER EXISTING AND PROPOSED UTILITIES.

8. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR PLACING CONDUIT AT GREATER THAN MINIMUM DEPTH SPECIFIED TO AVOID OBSTACLES SUCH AS UNDERGROUND UTILITIES, DRAIANGE PIPES, AND STRUCTURES OR TO ENTER COMMUNICATIONS VAULTS OR HANDHOLES.

9. THE CONTRACTOR SHALL AVOID TRENCHING THROUGH WETLAND AREA, ROADSIDE DITCHES AND RETENTION PONDS.

10. IDOT MICRODUCT SHALL ONLY ENTER IDOT COMMUNICATIONS VAULTS.

11. THIRD PARTY MICRODUCT SHALL ONLY ENTER THIRD PARTY COMMUNICATIONS VAULTS.

12. ALL EXCAVATED MATERIAL, WHICH INCLUDES DIGGING OR GRADING OF ANY SOIL OR FILL MATERIAL, WITH THE EXCEPTION OF AGGREGATE FILLS, MUST BE INCORPORATED WITHIN THE IDOT RIGHT OF WAY DUE TO ENVIRONMENTAL DOCUMENTATION REQUIREMENTS. EXCAVATED MATERIALS SHALL BE DISPOSED OF AT LOCATIONS DESIGNATED BY THE ENGINEER. ANY SUCH DISPOSAL SHALL BE COMPLETED IN SUCH A MANNER THAT PUBLIC OR PRIVATE PROPERTY WILL NOT BE DAMAGED OR ENDANGERED AND SHALL NOT CREATE AN UNSIGHTLY OR OBJECTIONABLE APPEARANCE OR DETRACT FORM THE NATURAL TOPOGRAPHIC FEATURES WITHOUT WRITTEN PERMISSION FROM THE ENGINEER.

13. ALL SURPLUS MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS.

14. ELECTRICAL WORK SHALL CONFORM WITH NATIONAL, STATE, AND LOCAL CODES.

15. ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER SHOWN IN THE LIST OF STANDARDS OR THE COPY INCLUDED IN THESE PLANS.

16. ELECTRICAL HANDHOLE COVER LEGEND SHALL BE "IDOT ITS".

17. ITS SYMBOLS ARE OVERSIZED ON THE PLANS FOR CLARITY. CONTRACTOR SHALL USE STATIONS AND OFFSETS TO ACCURATELY LOCATE EQUIPMENT.

BILL OF MATERIALS

ITEM	DESCRIPTION	UNIT	QTY	IDOT QTY*	THIRD PARTY QTY*
81024600	CONDUIT ENCASED, CONCRETE, 6" DIA., PVC 1 WIDE X 1 HIGH	FOOT	40	-	-
81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	1,477	1,219	258
81028750	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2" DIA.	FOOT	2,012	-	-
81101002	CONDUIT ATTACHED TO STRUCTURE, RIGID NON-METALLIC, 4" DIA.	FOOT	1,941	1,293	648
81400200	HEAVY-DUTY HANDHOLE	EACH	5	-	-
87300901	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 12 1C	FOOT	742	-	-
X0326949	CLOSED CIRCUIT TELEVISION CAMERA STRUCTURE FOUNDATION, 30" DIAMETER	FOOT	14	-	-
X8101102	UNDERGROUND CONDUIT, MULTI-DUCT, 7-18MM MICRODUCTS	FOOT	7,404	4,878	2,526
X8710318	FIBER OPTIC UTILITY MARKER	EACH	8	-	-
X8710402	FIBER OPTIC INNERDUCT 1 1/4" DIA.	FOOT	742	-	-
X8780107	CONCRETE FOUNDATION (SPECIAL)	FOOT	6	-	-
Z0033052	COMMUNICATIONS VAULT	EACH	9	6	3

*THESE COLUMNS ARE NOT ADDITIONAL QUANTITY. THEY PROVIDE THE QUANTITY SPLIT BETWEEN IDOT AND THIRD PARTY FOR THE ITEMS LISTED.

MODEL: Default
FILE NAME: D162F94-01-sht-its-02.dgn

ATLAS TECHNICAL CONSULTANTS, LLC
100 S. WACKER DRIVE, SUITE 400
CHICAGO, IL 60606

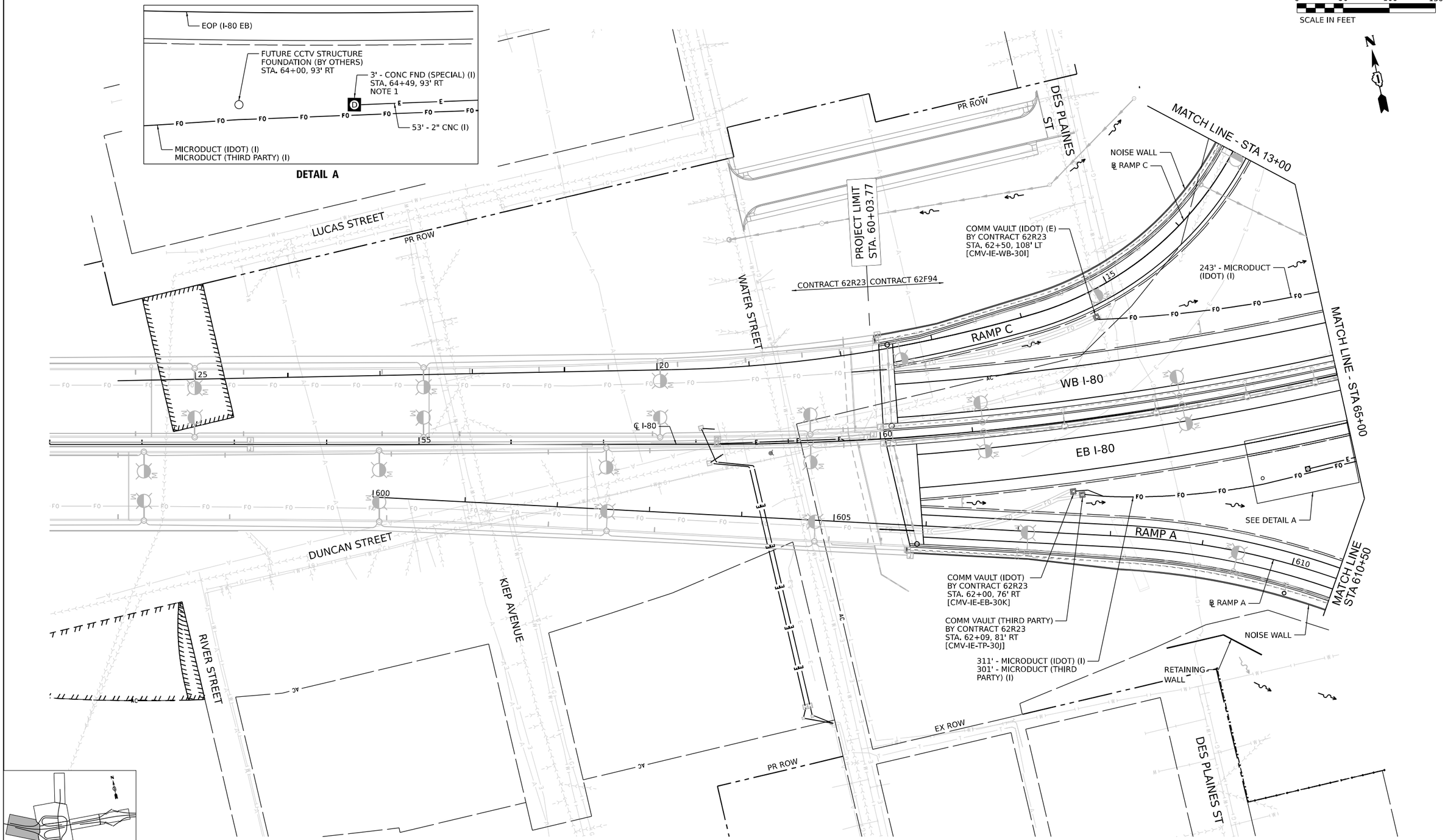
USER NAME = dmeier	DESIGNED - DJM	REVISED -	
	DRAWN - DJM	REVISED -	
PLOT SCALE = 2.000 ' / In.	CHECKED - REL	REVISED -	
PLOT DATE = 10/28/2025	DATE - 10/31/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

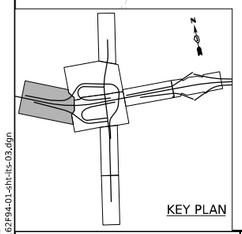
ITS NOTE AND BILL OF MATERIALS

SCALE: NTS | SHEET 2 OF 13 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	570
		CONTRACT NO. 62F94		
	ILLINOIS	FED. AID PROJECT		



NOTES:
1. THE 2" CNC CONDUITS SHALL BE COUPLED TO THE CONCRETE FOUNDATION (SPECIAL) CONDUIT STUB OUTS.



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ATLAS TECHNICAL CONSULTANTS, LLC
100 S. WACKER DRIVE, SUITE 400
CHICAGO, IL 60606

USER NAME = dmeier	DESIGNED - DJM	REVISED -	
	DRAWN - DJM	REVISED -	
PLOT SCALE = 100.000 ' / in.	CHECKED - REL	REVISED -	
PLOT DATE = 10/28/2025	DATE - 10/31/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED ITS INFRASTRUCTURE PLAN
I-80

SCALE: 1" = 50' | SHEET 3 OF 13 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	571
		CONTRACT NO. 62F94		
	ILLINOIS	FED. AID PROJECT		

MATCH LINE STA 408+00

MATCH LINE - STA 214+50

MATCH LINE STA 813+00

MATCH LINE - STA 65+00

MATCH LINE - STA 712+00

MATCH LINE STA 610+50

COMM VAULT (IDOT) (I)
STA. 67+97, 173' LT
[CMV-IE-WB-30H]

443' - MICRODUCT
(IDOT) (I)

50' - 1-1/4" INNERDUCT (I)
TRACER WIRE (I)

42' - (2) 2" CNC (I)
ELEC HDHH (I)
STA. 706+19, 150' LT
NOTE 4

NOTE 4

172' - 4" GSC (I)
-MICRODUCT (IDOT) (I)

182' - MICRODUCT
(IDOT) (I)

COMM VAULT (IDOT) (I)
STA. 709+61, 102' LT
[CMV-IE-WB-30F]

52' - MICRODUCT
(IDOT) (I)

266' - MICRODUCT
(IDOT) (I)

℄ RAMP BB

70' - 4" GSC (I)
-MICRODUCT (IDOT) (I)

SEE DETAIL A

COMM VAULT (IDOT) (I)
STA. 706+10, 141' LT
[CMV-IE-WB-30G]

223' - 1-1/4" INNERDUCT (I)
-TRACER CABLE (I)
(TO CMV-IE-WB-30F)

WB I-80

20' - 6" PVC CONDUIT
ENCASED IN CONC (I)
NOTE 3

207' - 4" GSC (I)
-2" CNC (I)
NOTE 6

214' - 4" FRE ATS
214' - MICRODUCT (IDOT)
NOTE 1

℄ I-80

62' - 4" GSC (I)
-2" CNC (I)

EB I-80

20' - 6" PVC CONDUIT
ENCASED IN CONC (I)
NOTE 3

243' - (2) 4" FRE ATS
243' - MICRODUCT (IDOT)
243' - MICRODUCT (THIRD PARTY)
NOTE 5

235'
2" CNC (I)

225'
MICRODUCT (IDOT) (I)
MICRODUCT (THIRD PARTY) (I)

NOTE 4

461'
2" CNC (I)

ELEC HDHH (I)
STA. 705+59
OFF. 98' RT

54' - MICRODUCT (IDOT) (I)
45' - MICRODUCT (THIRD PARTY) (I)

COMM VAULT (THIRD PARTY) (I)
STA. 709+35, 95' RT
[CMV-IE-TP-30G]

70' - 4" GSC (I)
-MICRODUCT
(THIRD PARTY) (I)

511' - MICRODUCT (IDOT) (I)
523' - MICRODUCT (THIRD PARTY) (I)

NOTE 4, TYP.

188' - 4" GSC (I)
-MICRODUCT (IDOT) (I)

COMM VAULT (IDOT) (I)
STA. 709+25, 92' RT
[CMV-IE-EB-30H]

ELEC HH (I)
STA. 67+58
OFF. 166' RT

193' - MICRODUCT (IDOT) (I)
200' - MICRODUCT (THIRD PARTY) (I)

COMM VAULT (IDOT) (I)
STA. 67+53, 175' RT
[CMV-IE-EB-30J]

℄ RAMP B

℄ RAMP A

70' - 4" GSC (I)
-MICRODUCT (IDOT) (I)

COMM VAULT (IDOT) (I)
STA. 707+79, 211' RT
[CMV-IE-EB-30I]

COMM VAULT (THIRD PARTY) (I)
STA. 707+79, 218' RT
[CMV-IE-TP-30H]

RETAINING
WALL

COMM VAULT (THIRD PARTY) (I)
STA. 67+47, 184' RT
[CMV-IE-TP-30I]

188' - 4" GSC (I)
-MICRODUCT (THIRD PARTY) (I)

CHICAGO STREET

℄ CHICAGO STREET

℄ RAMP AA

RAMP B

RAMP AA

RAMP A

RETAINING
WALL

NOISE WALL

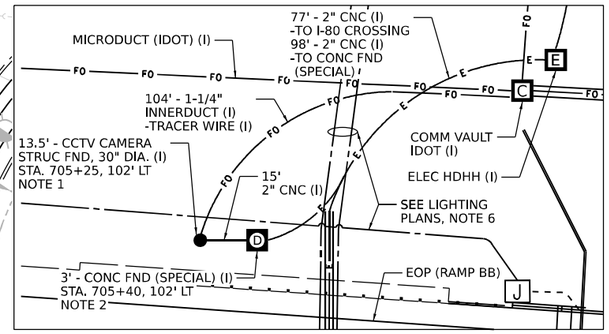
PR ROW

EX ROW

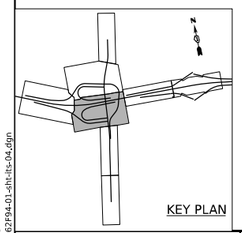
RETAINING
WALL

JOLIET STREET

CHICAGO STREET



DETAIL A



KEY PLAN

NOTES:
1. 2" CNC CONDUIT SHALL BE COUPLED TO THE 2" CONCRETE FOUNDATION STUB OUT. 1-1/4" INNERDUCT SHALL BE INSTALLED IN THE OTHER 2" CONCRETE FOUNDATION STUB OUT UP THROUGH THE TOP OF THE FOUNDATION.
2. THE 2" CNC CONDUITS SHALL BE COUPLED TO THE 2" CONCRETE FOUNDATION STUB OUTS.
3. COORDINATE INSTALLATION OF CONDUIT WITH PROPOSED GUARDRAIL. CENTER THE PVC CONDUIT ENCASED IN CONCRETE BETWEEN GUARDRAIL POSTS.
4. COORDINATE INSTALLATION WITH DRAINAGE OR LIGHTING. MAINTAIN MINIMUM 18" CLEARANCE BETWEEN ITS CONDUIT/MICRODUCT AND DRAINAGE PIPES/STRUCTURES/UNDERDRAIN OR LIGHTING CONDUITS, TYP.
5. FOR CONDUIT ATTACHED TO STRUCTURE DETAILS, SEE SHEETS 579 AND 580
6. COORDINATE ITS CROSSING WITH LIGHTING CONDUITS CROSSINGS.

N

0 50 100 150
SCALE IN FEET

MODEL: Default
FILE NAME: D162F94-01-sht-its-04.dgn

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ATLAS TECHNICAL CONSULTANTS, LLC
100 S. WACKER DRIVE, SUITE 400
CHICAGO, IL 60606

USER NAME = dmeier	DESIGNED - DJM	REVISED -
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PLOT DATE = 10/28/2025	DATE - 10/31/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED ITS INFRASTRUCTURE PLAN
I-80

SCALE: 1" = 50' | SHEET 4 OF 13 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	572
		CONTRACT NO. 62F94		
	ILLINOIS	FED. AID PROJECT		

0 50 100 150
SCALE IN FEET

N

JASPER ST

OTTAWA ST

JOLIET ST

SHELBY ST

CHICAGO STREET

MATCH LINE - STA 223+00

EX ROW

EX ROW

PR ROW

RETAINING WALL

RETAINING WALL

NOISE WALL

RETAINING WALL

RETAINING WALL

EASTERN AVE

℄ RAMP C

℄ RAMP BB

RAMP BB

RAMP C

RAMP B

EX ROW

℄ RAMP B

30' - (2) 2" CNC (I)

30' - 1-1/4" INNERDUCT (I)
-TRACER WIRE (I)

NOTE 1, TYP.

150' - 4" GSC (I)
-1-1/4" INNERDUCT (I)
-TRACER WIRE (I)

150' - (2) 4" GSC (I)
-(2) 2" CNC (I)

ELEC HDHH (I)
RAMP BB
STA. 416+23
53' RT

180' - (2) 2" CNC (I)

185' - 1-1/4"
INNERDUCT (I)
-TRACER WIRE (I)

MATCH LINE - STA 13+00

MATCH LINE
STA 408+00

MATCH LINE - STA 214+50

MATCH LINE - STA 813+00

KEY PLAN

NOTES:
1. COORDINATE INSTALLATION WITH DRAINAGE. MAINTAIN MINIMUM 18" CLEARANCE BETWEEN ITS MICRODUCT/CONDUIT AND DRAINAGE PIPES/STRUCTURES/UNDERDRAIN, TYP.

MODEL: Default
FILE NAME: D162F94-01-sht-its-05.dgn

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	DRAWN - DJM	REVISED -
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PLOT DATE = 10/28/2025	DATE - 10/31/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED ITS INFRASTRUCTURE PLAN
I–80

SCALE: 1" = 50' | SHEET 5 OF 13 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	573
		CONTRACT NO. 62F94		
	ILLINOIS FED. AID PROJECT			

SCALE IN FEET
0 50 100 150

N

MATCH LINE - STA 712+00

GARDNER STREET

431'
4" FRE ATS
-MICRODUCT (IDOT)
NOTE 1

NOISE WALL B27
(SEGMENT 1)

290' - MICRODUCT (IDOT)

MICRODUCT
BY CONTRACT
62R19

COMM VAULT (IDOT)
BY CONTRACT 62R19
NOTE 2, 3 & 5

PROJECT LIMITS
STA 719+40.00

EX ROW

HICKORY CREEK

℄ RICHARDS STREET RAMP D

NOISE WALL B27
(SEGMENT 2)

WB I-80

℄ I-80

EB I-80

715

720

100

105

RETAINING WALL
SN 099-W801

315' - MICRODUCT (IDOT)
326' - MICRODUCT (THIRD PARTY)

COMM VAULT (IDOT)
BY CONTRACT 62R19
NOTE 2 & 3

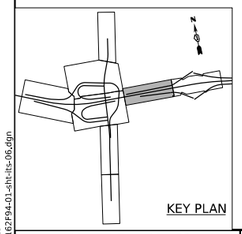
℄ RICHARDS STREET RAMP A

405'
(2) 4" FRE ATS
-MICRODUCT (IDOT)
-MICRODUCT (THIRD PARTY)
NOTE 1

EX ROW

COMM VAULT (THIRD PARTY)
BY CONTRACT 62R19
NOTE 2, 4 & 5

MICRODUCT
BY CONTRACT
62R19



KEY PLAN

NOTES:
1. FOR CONDUIT ATTACHED TO STRUCTURE DETAILS, SEE SHEETS 579 AND 580
2. CONTRACTOR SHALL NOT DRILL EXISTING COMMUNICATIONS VAULTS. ALL CONDUITS SHALL ENTER THE VAULT THROUGH THE BOTTOM.
3. IDOT MICRODUCT SHALL ONLY ENTER IDOT COMMUNICATIONS VAULTS.
4. THIRD PARTY MICRODUCT SHALL ONLY ENTER THIRD PARTY COMMUNICATIONS VAULTS.
5. THE TRACER WIRE SHALL BE CONNECTED TO THE EXISTING LOCATE POST NEAR THE EXISTING COMMUNICATIONS VAULTS.

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FILE NAME: D162F94-01-sht-its-06.dgn

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100 S. WACKER DRIVE, SUITE 400
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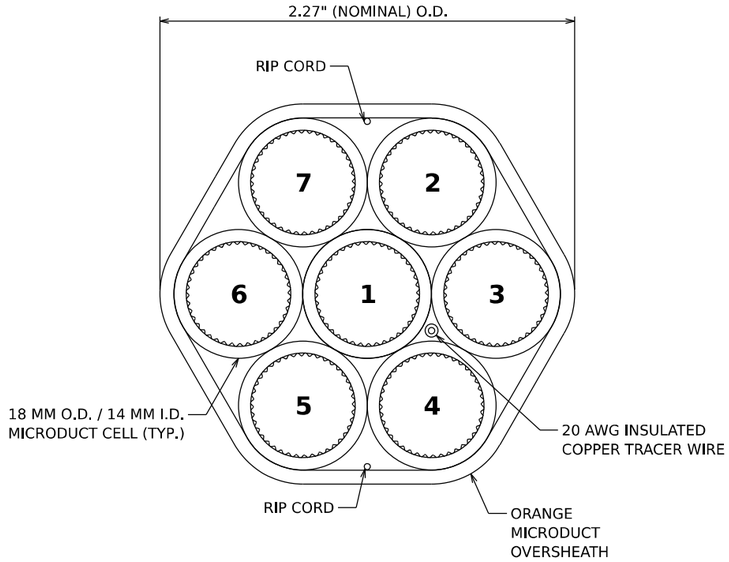
PLOT SCALE = 100.000 ' / in.	CHECKED - REL	REVISED -
PLOT DATE = 10/28/2025	DATE - 10/31/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED ITS INFRASTRUCTURE PLAN
I–80

SCALE: 1" = 50' | SHEET 6 OF 13 SHEETS | STA. | TO STA.

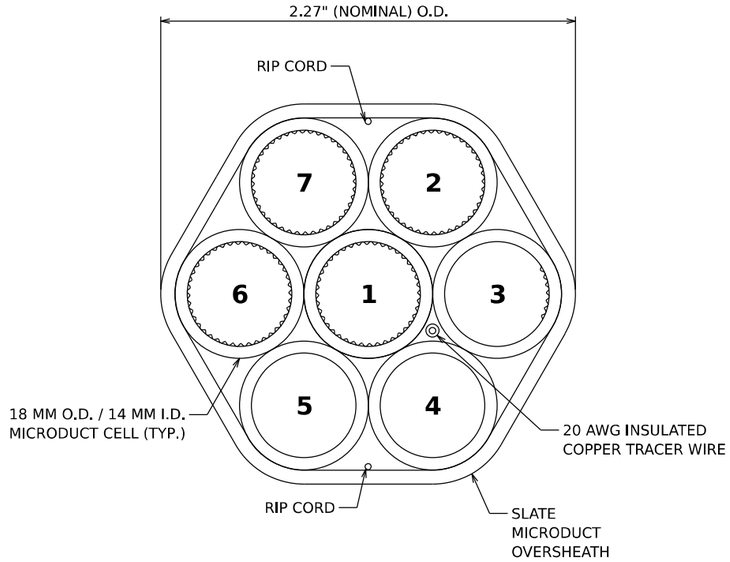
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	574
		CONTRACT NO. 62F94		
	ILLINOIS	FED. AID PROJECT		



IDOT MICRODUCT DETAIL

CELL NO.	CELL COLOR	CELL ALLOCATION
1	BLUE	FUTURE 144 IDOT (TCF)
2	ORANGE	FUTURE 144 IDOT (DCF)
3	GREEN	SPARE
4	BROWN	SPARE
5	GREY	SPARE
6	WHITE	SPARE
7	RED	SPARE

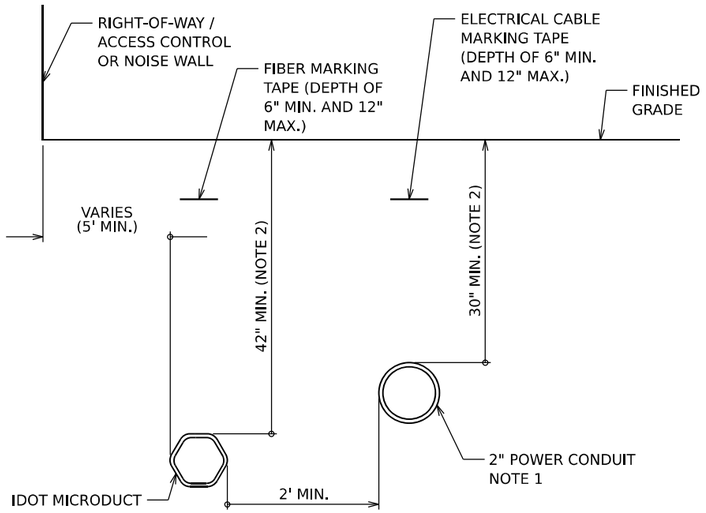
IDOT MICRODUCT CELL INFORMATION



THIRD PARTY MICRODUCT DETAIL

CELL NO.	CELL COLOR	CELL ALLOCATION
1	BLUE	FUTURE 144 THIRD PARTY
2	ORANGE	SPARE
3	GREEN	SPARE
4	BROWN	SPARE
5	GREY	SPARE
6	WHITE	SPARE
7	RED	SPARE

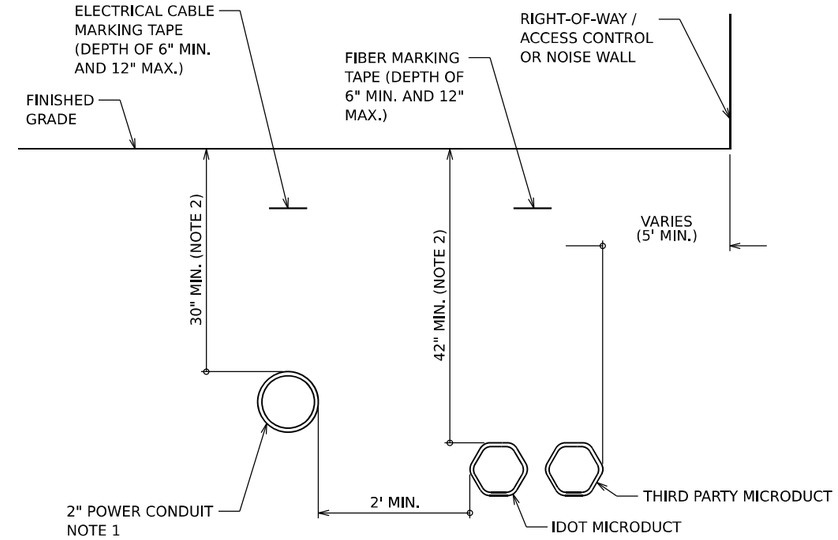
THIRD PARTY MICRODUCT CELL INFORMATION



I-80 WESTBOUND TYPICAL CONDUIT SECTION

NOTES

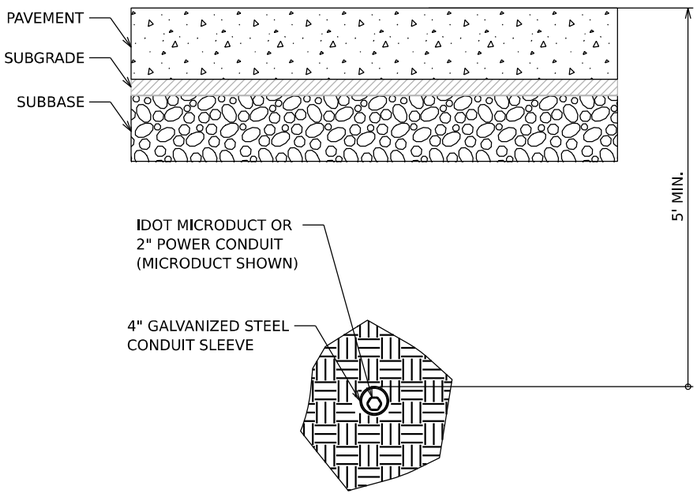
1. INSTALLATION CONFIGURATION/QUANTITY OF POWER CONDUITS VARIES BY LOCATION.
2. GREATER DEPTH MAY BE REQUIRED IN CERTAIN SITUATIONS, INCLUDING, BUT NOT LIMITED TO: ENTERING HANDHOLES/VAULTS, UTILITY AVOIDANCE, CROSSING BENEATH BOX CULVERTS.



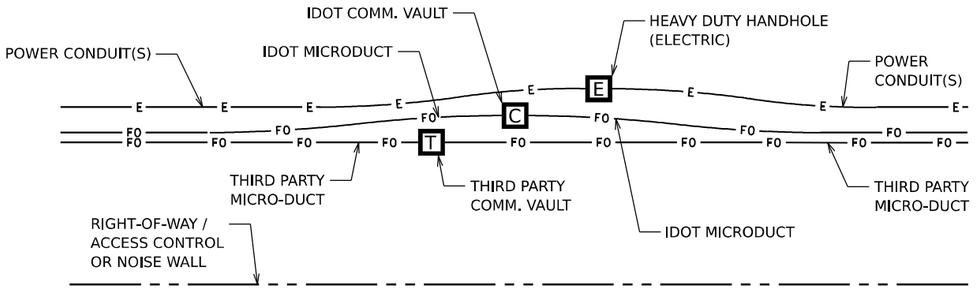
I-80 EASTBOUND TYPICAL CONDUIT SECTION

NOTES

1. INSTALLATION CONFIGURATION/QUANTITY OF POWER CONDUITS VARIES BY LOCATION.
2. GREATER DEPTH MAY BE REQUIRED IN CERTAIN SITUATIONS, INCLUDING, BUT NOT LIMITED TO: ENTERING HANDHOLES/VAULTS, UTILITY AVOIDANCE, CROSSING BENEATH BOX CULVERTS.



BORED CONDUIT UNDER ROADWAY



TYPICAL CONDUIT ROUTING AT HANDHOLES

NOTES

1. INSTALLATION CONFIGURATION/QUANTITY OF POWER CONDUITS VARIES BY LOCATION AND ROADWAY DIRECTION. EASTBOUND DIRECTION SHOWN ABOVE WITH POWER CONDUIT, IDOT MICRODUCT, AND THIRD PARTY MICRODUCT.
2. IDOT MICRODUCT SHALL ENTER IDOT COMMUNICATIONS VAULTS ONLY.
3. THIRD PARTY MICRODUCT SHALL ENTER THIRD PARTY COMMUNICATIONS VAULTS ONLY.

ATLAS TECHNICAL CONSULTANTS, LLC
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CHICAGO, IL 60606

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PLOT SCALE = 2.000 ' / in.	CHECKED - REL	REVISED -	
PLOT DATE = 10/28/2025	DATE - 10/31/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ITS INFRASTRUCTURE DETAILS
TYPICAL CONDUIT ROUTING

SCALE: NTS | SHEET 8 OF 13 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	576
		CONTRACT NO. 62F94		
		ILLINOIS	FED. AID PROJECT	

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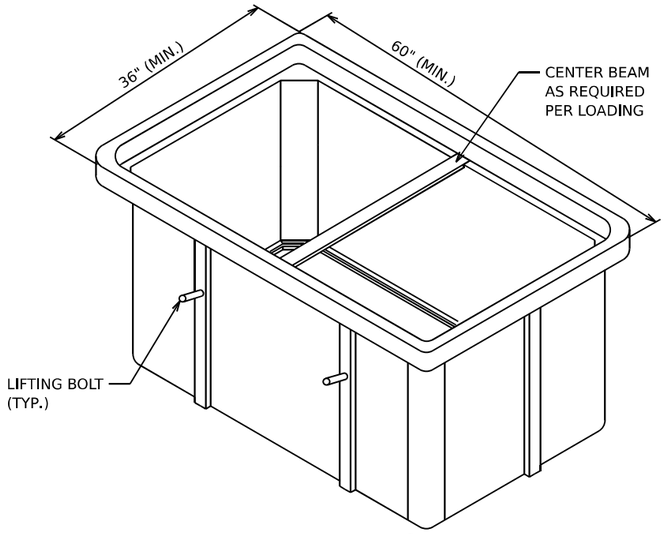
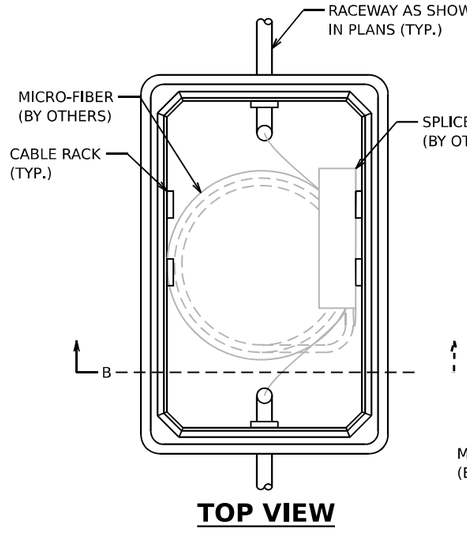
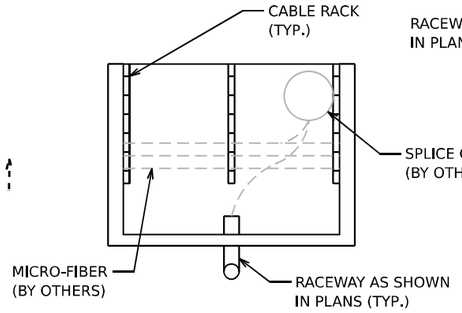


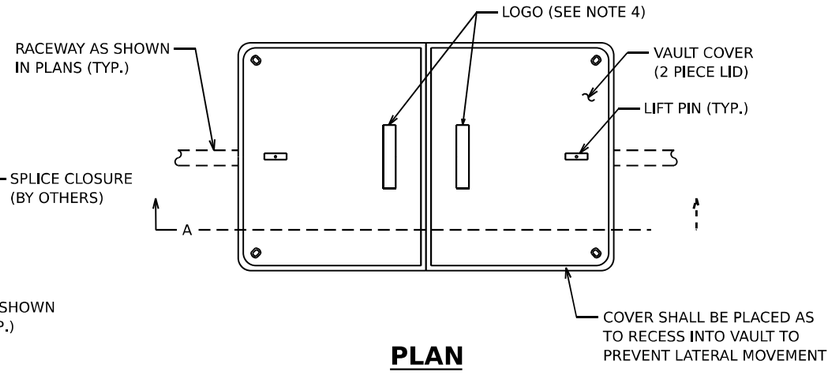
VAULT BOX
ISOMETRIC VIEW



TOP VIEW



SECTION B-B



PLAN

NOTES:

1. GROUND ROD, 1-1/2" CONDUIT, #6 AWG GROUND WIRE, LOCATE POST AND ASSOCIATED WORK ARE INCLUDED AS PART OF COMMUNICATIONS VAULT AND WILL NOT BE PAID FOR SEPARATELY. ALL MATERIALS FOR MECHANICAL CONNECTION SHALL BE UL LISTED AND INSTALLED PER NEC ARTICLE 250.

2. #20 AWG TRACER CABLE SHALL BE SPLICED TO THE #20 AWG TRACER CABLE IN THE MICRODUCT USING A WATERPROOF SPLICE KIT AS RECOMENDED BY THE MICRODUCT MANUFACTURER. THE #20 AWG WIRE, SPLICE KIT AND ASSOCIATED WORK ARE INCLUDED AS PART OF COMMUNICATIONS VAULT AND WILL NOT BE PAID FOR SEPARATELY.

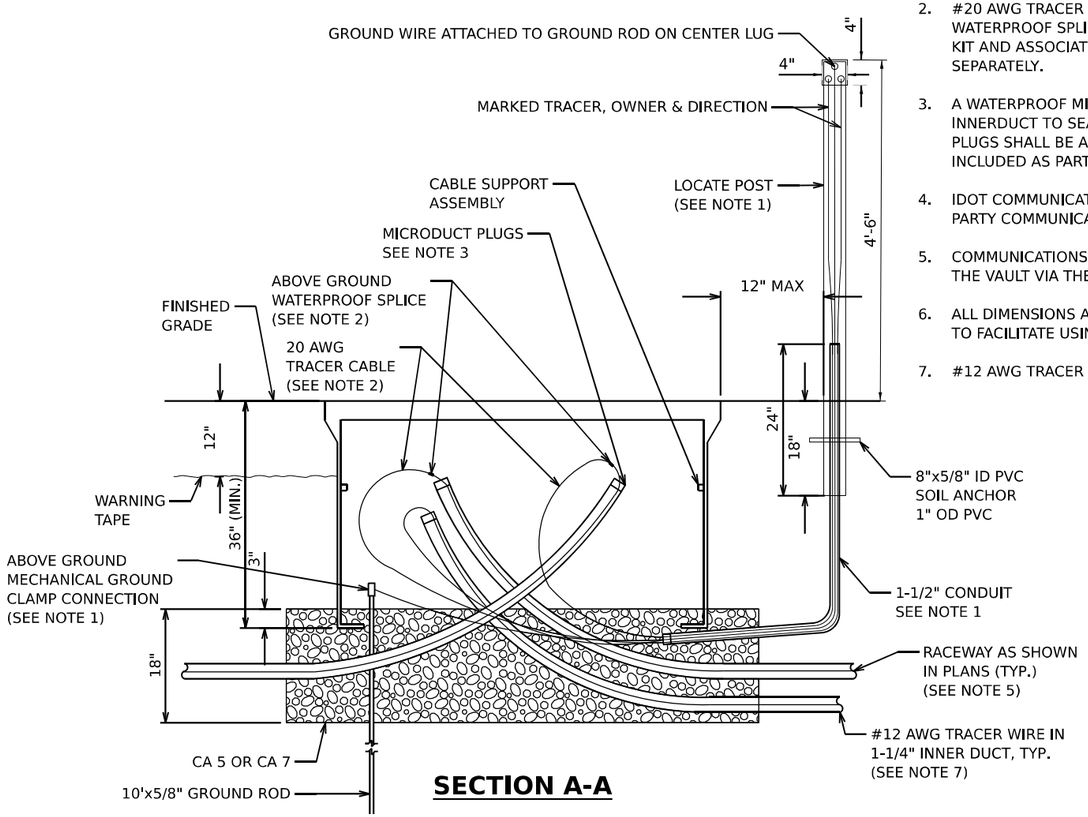
3. A WATERPROOF MICRODUCT PLUG(S) OR INNERDUCT PLUG SHALL BE INSTALLED AROUND EACH MICRODUCT OR INNERDUCT TO SEAL AROUND THE DUCT FOR ALL MICRODUCTS OR INNERDUCTS COMING INTO THE VAULT. THE PLUGS SHALL BE APPROPRIATELY SIZED AND INSTALLED AS RECOMMENDED BY THE MANUFACTURER AND IS INCLUDED AS PART OF THE MICRODUCT OR INNERDUCT PAY ITEM AND WILL NOT BE PAID SEPARATELY.

4. IDOT COMMUNICATIONS VAULTS SHALL HAVE A PERMANENTLY RECESSED LOGO THAT READS "IDOT" AND THIRD PARTY COMMUNICATIONS VAULTS SHALL HAVE A PERMANENTLY RECESSED LOGO THAT READS "IDOT - DoIT".

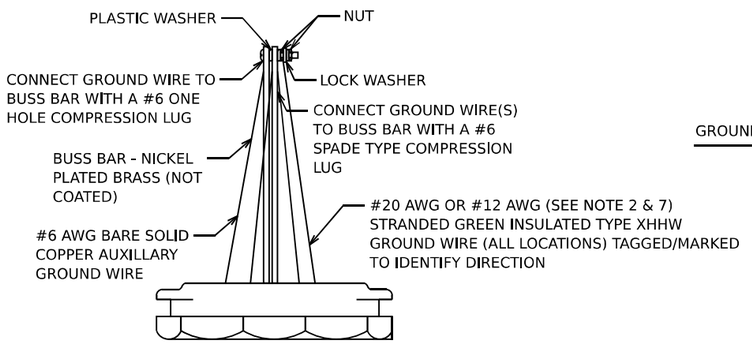
5. COMMUNICATIONS VAULT SHALL HAVE AN OPEN BASE. ALL CONDUITS AS SHOWN ON THE PLANS SHALL ENTER THE VAULT VIA THE OPEN BASE.

6. ALL DIMENSIONS ARE MINIMUM AND A LARGER SIZE VAULT MAY BE USED, WITH THE APPROVAL OF THE ENGINEER, TO FACILITATE USING A MANUFACTURER'S STANDARD PRODUCT.

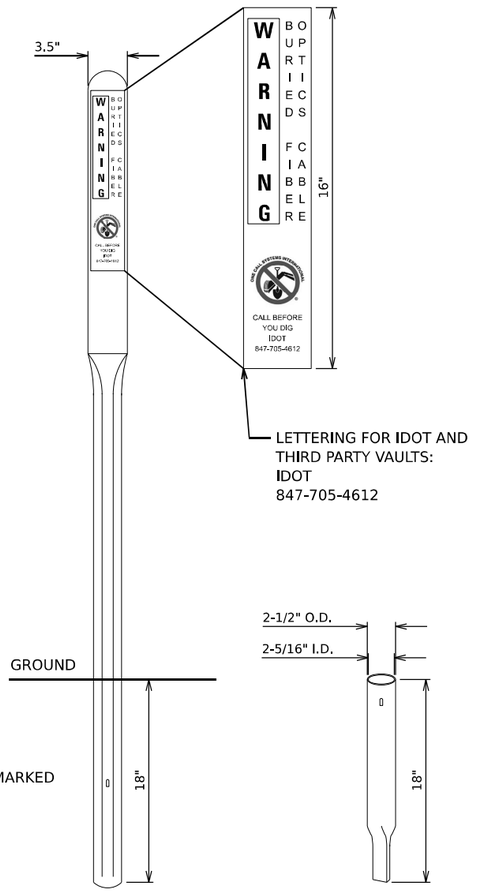
7. #12 AWG TRACER CABLE SHALL BE CONNECTED DIRECTLY TO LOCATE POST TOP HAT BOND PLATE.



SECTION A-A



LOCATE POST TOP HAT BOND PLATE
N.T.S.



POST

SOIL ANCHOR

MODEL: Default
FILE NAME: D162F94-01-sht-its-09.dgn

ATLAS TECHNICAL CONSULTANTS, LLC
100 S. WACKER DRIVE, SUITE 400
CHICAGO, IL 60606

USER NAME = dmeier	DESIGNED - DJM	REVISED -	
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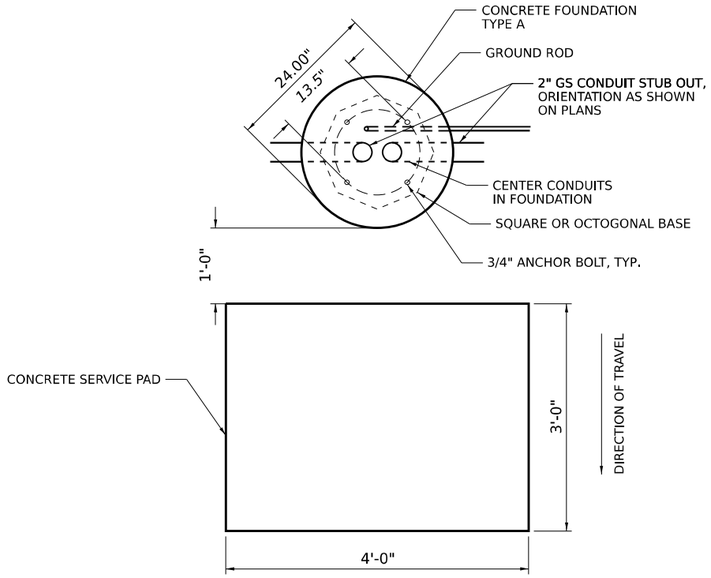
PLOT SCALE = 2.000 ' / in.	CHECKED - REL	REVISED -	
PLOT DATE = 10/28/2025	DATE - 10/31/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ITS INFRASTRUCTURE DETAILS
COMMUNICATION VAULT

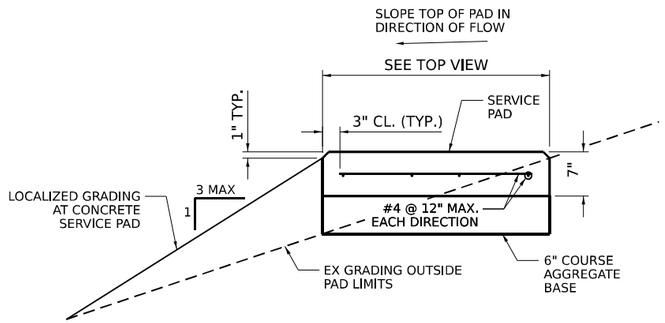
SCALE: NTS | SHEET 9 OF 13 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	577
		CONTRACT NO. 62F94		
	ILLINOIS	FED. AID PROJECT		



TOP VIEW
CONCRETE FOUNDATION (SPECIAL) FOR FUTURE SERVICE DISCONNECT

N.T.S. (SEE NOTE 1)



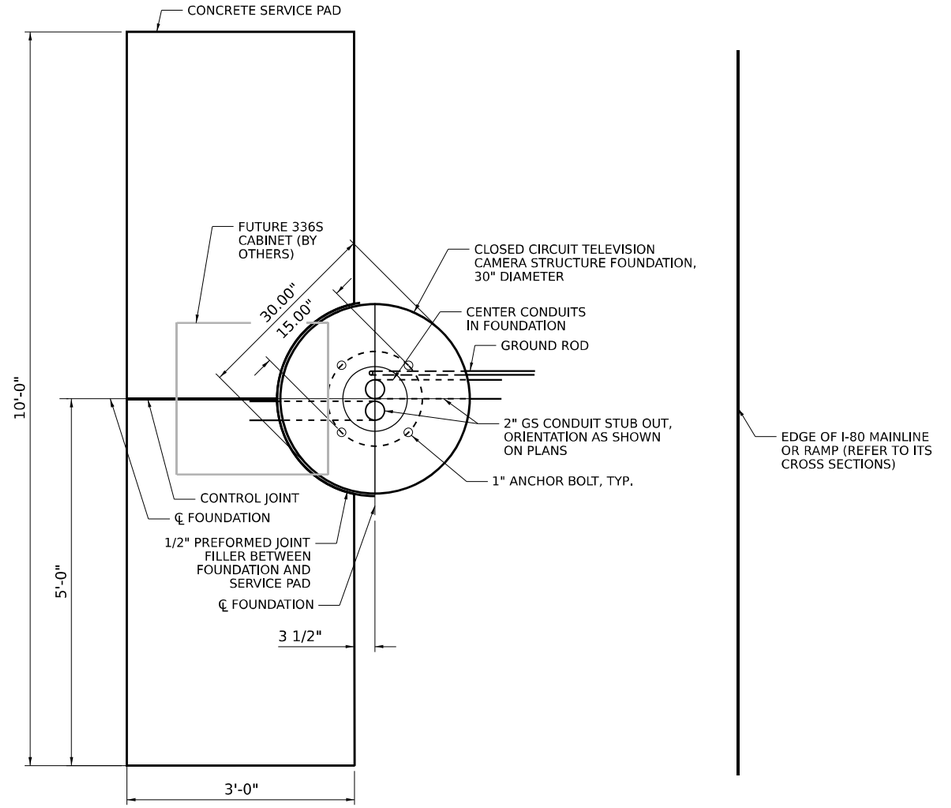
CONCRETE SERVICE PAD SECTION

N.T.S.

NOTES

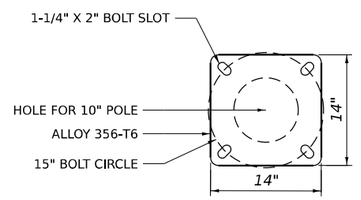
1. TOP VIEW SHOWN FOR INFORMATION ONLY ON CONDUITS ENERTING FOUNDATION, SERVICE PAD, AND ANOCHOR BOLT CIRCLE DIMENSIONS REQUIRED FOR FUTURE EQUIPMENT INSTALLATION. FOR FURTHER FOUNDATION DETAILS, SEE HIGHWAY STANDARD 878001-11, "TYPE A" FOUNDATION.

2. TOP VIEW SHOWN FOR INFORMATION ONLY ON CONDUITS ENERTING FOUNDATION, SERVICE PAD, AND ANOCHOR BOLT CIRCLE DIMENSIONS REQUIRED FOR FUTURE EQUIPMENT INSTALLATION. FOR FURTHER FOUNDATION DETAILS, SEE HIGHWAY STANDARD 878001-11, "TYPE E" FOUNDATION.



TOP VIEW
CLOSED CIRCUIT TELEVISION CAMERA STRUCTURE FOUNDATION, 30" DIAMETER FOR FUTURE CCTV POLE

N.T.S. (SEE NOTE 2)



FUTURE CCTV POLE BASE PLATE DETAIL 15" BOLT CIRCLE

N.T.S. (SHOWN FOR REFERENCE ONLY)

MODEL: Default
FILE NAME: D162F94-01-sht-its-10.dgn

ATLAS TECHNICAL CONSULTANTS, LLC
100 S. WACKER DRIVE, SUITE 400
CHICAGO, IL 60606

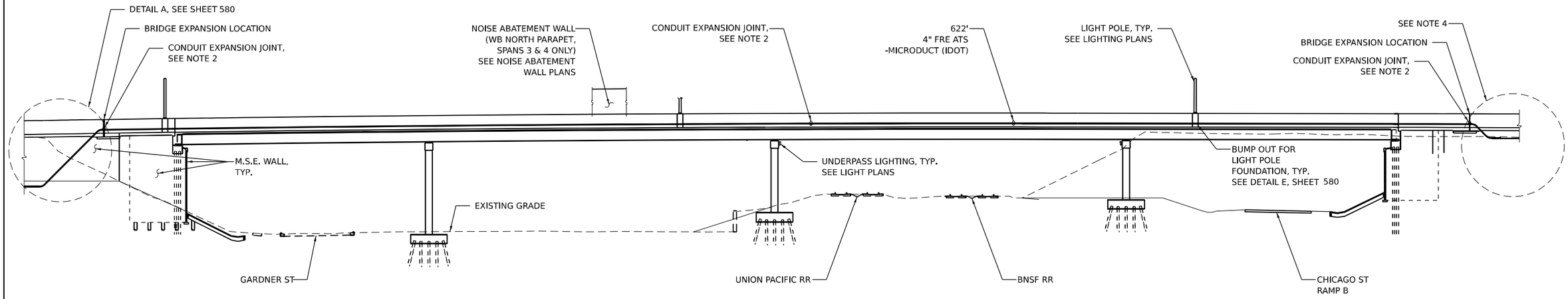
USER NAME = dmeier	DESIGNED - DJM	REVISED -	
	DRAWN - DJM	REVISED -	
PLOT SCALE = 2.000 ' / in.	CHECKED - REL	REVISED -	
PLOT DATE = 10/28/2025	DATE - 10/31/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

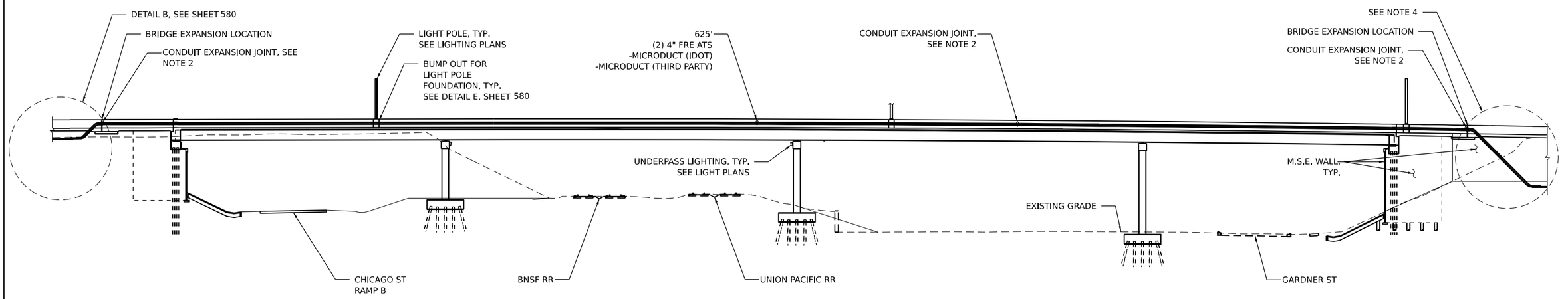
ITS INFRASTRUCTURE DETAILS
CONCRETE FOUNDATIONS

SCALE: NTS | SHEET 10 OF 13 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	578
		CONTRACT NO. 62F94		
	ILLINOIS	FED. AID PROJECT		



ITS CONDUIT ATTACHED TO STRUCTURE
I-80 WB OVER GARDNER ST
ELEVATION



ITS CONDUIT ATTACHED TO STRUCTURE
I-80 EB OVER GARDNER ST
ELEVATION

NOTES:

1. CONDUIT SUPPORTS,BRACKETS,COUPLERS AND EXPANSION JOINTS NOT SHOWN FOR CLARITY. SEE SHEET 575 FOR FURTHER CONDUIT SUPPORTS/BRACKETS DETAILS.
2. CONDUIT EXPANSION JOINTS SHALL BE INSTALLED AT EACH END OF THE BRIDGES AND AT A MAXIMUM SPACING OF 200' ALONG THE BRIDGE. CONDUIT EXPANSION JOINTS SHALL BE INSTALLED PER MANUFACTURER'S REQUIREMENTS.
3. THE MIRROR IMAGE OF DETAIL A IS APPLICABLE TO THIS END OF THE BRIDGE.
4. THE MIRROR IMAGE OF DETAIL B IS APPLICABLE TO THIS END OF THE BRIDGE.

MODEL: Default
FILE NAME: D162F94-01-ith-its-11.dgn

exp.

USER NAME = dmeier	DESIGNED - DJM	REVISED -	
	DRAWN - LS	REVISED -	
PLOT SCALE = 2.000 ' / In.	CHECKED - TH	REVISED -	
PLOT DATE = 10/28/2025	DATE - 10/31/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ITS INFRASTRUCTURE DETAILS
CONDUIT ATTACHED TO STRUCTURE

SCALE: NTS | SHEET 11 OF 13 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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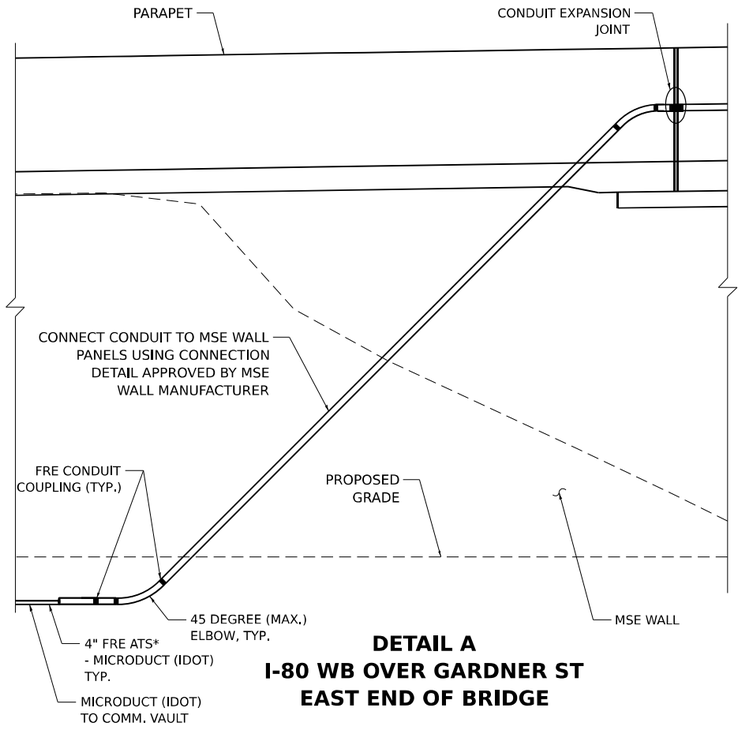
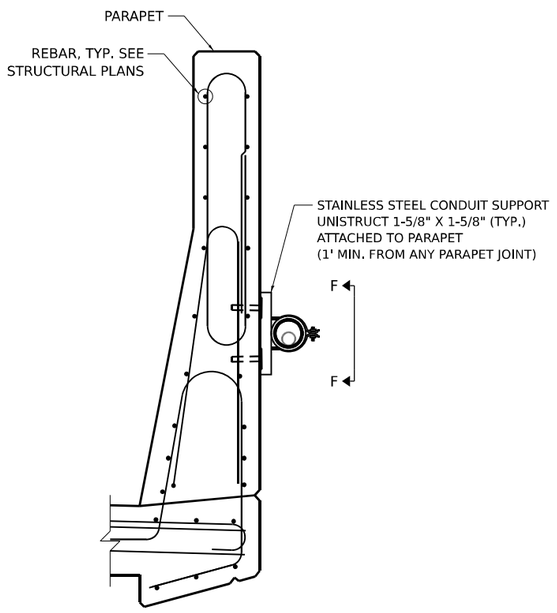
		CONTRACT NO. 62F94		
	ILLINOIS	FED. AID PROJECT		

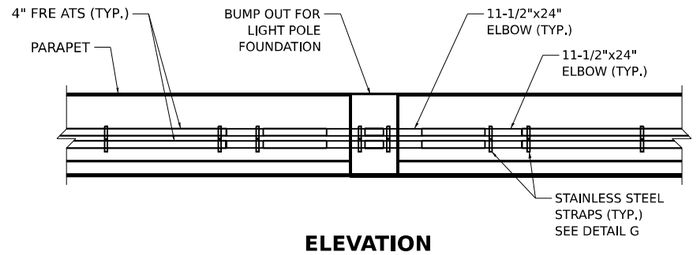


DETAIL A
I-80 WB OVER GARDNER ST
EAST END OF BRIDGE

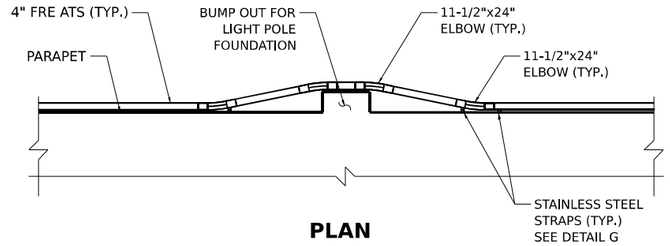


DETAIL C
I-80 WB OVER GARDNER ST
BRIDGE PARAPET CROSS SECTION

NOTE
NOISE ABATEMENT WALL NOT SHOWN FOR CLARITY.

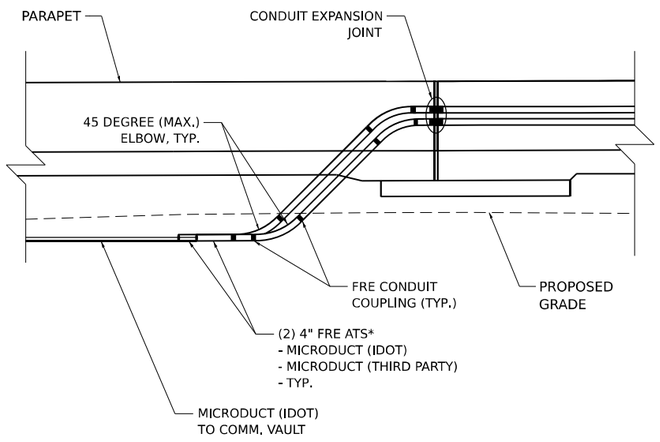


ELEVATION

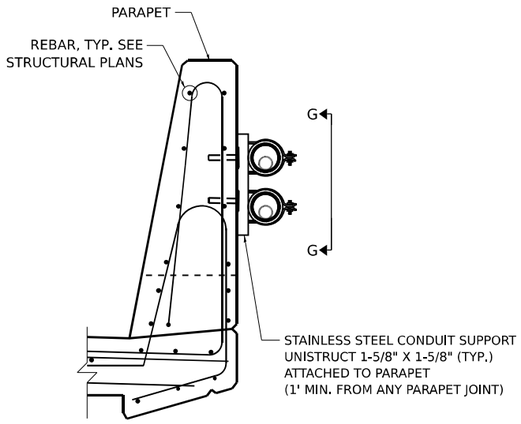


PLAN

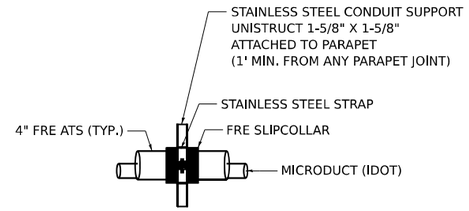
DETAIL E
CONDUIT ATS AT LIGHT POLE DETAIL
(EB SHOWN, WB SIMILAR)



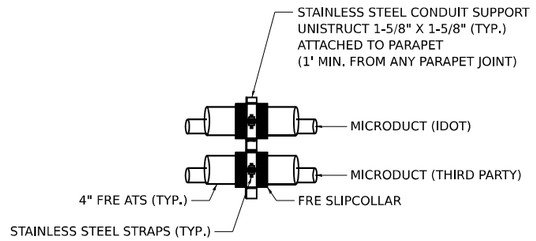
DETAIL B
I-80 EB OVER GARDNER ST
WEST END OF BRIDGE



DETAIL D
I-80 EB OVER GARDNER ST
BRIDGE PARAPET CROSS SECTION



DETAIL F
I-80 WB OVER GARDNER ST
TYPICAL CONDUIT SUPPORT DETAIL



DETAIL G
I-80 EB OVER GARDNER ST
TYPICAL JUNCTION BOX AND CONDUIT SUPPORT DETAIL

MODEL: Default
FILE NAME: D162F94-01-iht-its-12.dgn

exp.

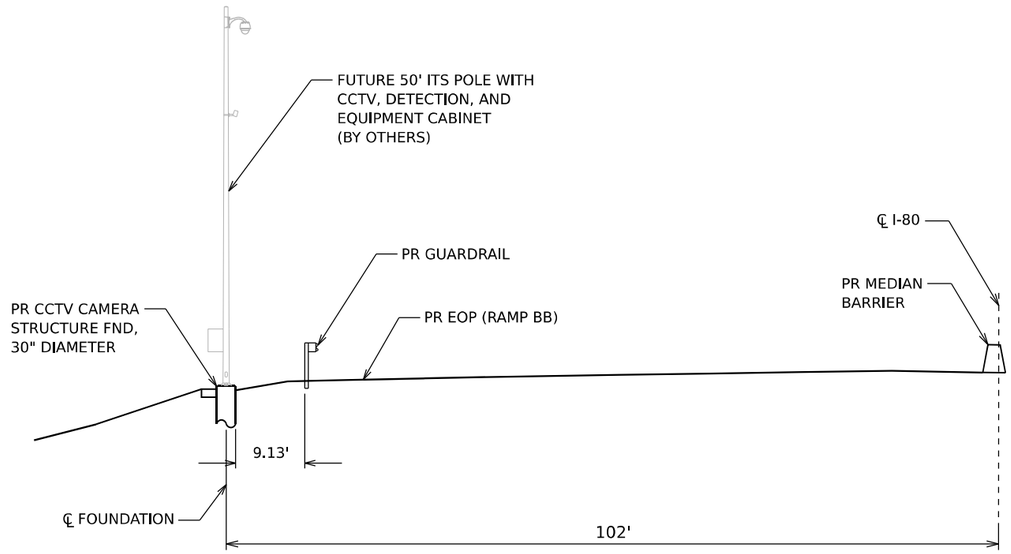
USER NAME = SalasL	DESIGNED - DJM	REVISED -
	DRAWN - LS	REVISED -
PLOT SCALE = 2.000 ' / In.	CHECKED - TH	REVISED -
PLOT DATE = 10/28/2025	DATE - 10/31/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ITS INFRASTRUCTURE DETAILS
CONDUIT ATTACHED TO STRUCTURE

SCALE: NTS | SHEET 12 OF 13 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	580
		CONTRACT NO. 62F94		
	ILLINOIS	FED. AID PROJECT		



STA 705+25
(LOOKING EAST)
CLOSED CIRCUIT TELEVISION CAMERA
STRUCTURE FOUNDATION, 30" DIAMETER

MODEL: Default
FILE NAME: D162F94-01-sht-its-13.dgn

exp.

USER NAME = dmeier	DESIGNED - CS	REVISED -	
	DRAWN - CS	REVISED -	
PLOT SCALE = 20.000 ' / in.	CHECKED - DJM	REVISED -	
PLOT DATE = 10/28/2025	DATE - 10/31/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ITS INFRASTRUCTURE DETAILS
CROSS SECTIONS

SCALE: NTS | SHEET 13 OF 13 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	581
		CONTRACT NO. 62F94		
	ILLINOIS	FED. AID PROJECT		

LIGHTING AND ELECTRICAL LEGEND

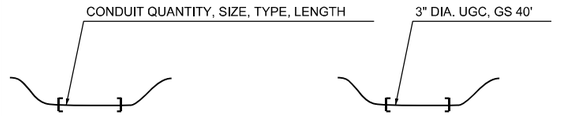
SYMBOL	DESCRIPTION
E	EXISTING LIGHTING UNIT TO REMAIN, AS NOTED
	PROPOSED IDOT LIGHTING UNIT MOUNTED ON BREAKAWAY DEVICE, CONCRETE FOUNDATION, 47.5 FT M.H. U.N.O., 15 FT MAST ARM, LUMINAIRE TO BE LED, HORIZONTAL MOUNT, OUTPUT DESIGNATION H, 30K LUMENS MINIMUM (240 VAC) U.N.O.
M	PROPOSED IDOT LIGHTING UNIT MOUNTED ON PROPOSED PARAPET OR BARRIER FOUNDATION, 47.5 FT M.H. U.N.O., 10 FT MAST ARM, LUMINAIRE TO BE LED, HORIZONTAL MOUNT, OUTPUT DESIGNATION H, 30K LUMENS MINIUMUM (240 VAC) U.N.O.
	PROPOSED IDOT LIGHTING UNIT MOUNTED ON PROPOSED MEDIAN FOUNDATION, 47.5 FT M.H. U.N.O., 6 FT TWIN ARM, LUMINAIRE TO BE LED, HORIZONTAL MOUNT, OUTPUT DESIGNATION I, 33K LUMENS MINIMUM (240 VAC) U.N.O.
	PROPOSED IDOT LIGHTING UNIT MOUNTED ON PROPOSED TRAFFIC SIGNAL POLE, 45 FT M.H. U.N.O., 15 FT MAST ARM, LUMINAIRE TO BE LED, HORIZONTAL MOUNT, OUTPUT DESIGNATION H, 30K LUMENS MINIMUM (120 VAC) U.N.O.
T	TEMPORARY LIGHTING UNIT, 60 FT WOOD POLE, 15 FT MAST ARM LED LUMINAIRE AT 50 FT MOUNTING HEIGHT, OUTPUT DESIGNATION H, 30K LUMENS MINIMUM, TYPE III (4000°K CCT)
TE	EXISTING TEMPORARY LIGHTING UNIT FROM PREVIOUS STAGE
T HM	TEMPORARY LIGHTING UNIT, 90 FT WOOD POLE, 15 FT MAST ARM HIGH MAST LED LUMINAIRE AT 80 FT MOUNTING HEIGHT, OUTPUT DESIGNATION K, 124K LUMENS MINIMUM, TYPE II (4000°K CCT)
TE HM	EXISTING TEMPORARY HIGH MAST LIGHTING UNIT FROM PREVIOUS STAGE
	TEMPORARY WOOD POLE, CLASS 4, 60 FT
	EXISTING TEMPORARY WOOD POLE, TYPE AND SIZE AS NOTED
J	PROPOSED JUNCTION BOX, SIZE AND TYPE AS NOTED
	PROPOSED IDOT LIGHTING CONTROLLER
	PROPOSED ELECTRIC UTILITY SERVICE
	PROPOSED UNDERPASS LUMINAIRE, WALL MOUNTED, LED, OUTPUT DESIGNATION AS INDICATED IN UNDERPASS LIGHTING PLANS (240 VAC)
	PROPOSED UNDERPASS LUMINAIRE, SUSPENDED, LED, OUTPUT DESIGNATION AS INDICATED IN UNDERPASS LIGHTING PLANS (240 VAC)
	EXISTING LIGHTING CONTROLLER TO REMAIN
	EXISTING UTILITY SERVICE TO REMAIN
E	EXISTING COMBINATION LIGHTING UNIT
L	EXISTING CITY OF JOLIET POLE TO REMAIN
RL	EXISTING CITY OF JOLIET POLE TO BE RELOCATED
TR	TEMPORARY LIGHTING UNIT TO BE REMOVED. IF THE LUMINAIRE AND MAST ARM ARE MOUNTED ON A TEMPORARY TRAFFIC SIGNAL WOOD POLE, ONLY THE LUMINAIRE AND MAST ARM SHALL BE REMOVED.
TR HM	TEMPORARY HIGH MAST LIGHTING UNIT TO BE REMOVED
R	EXISTING LIGHTING FOUNDATION TO BE REMOVED, EXISTING POLE, MAST ARM, AND T-BASE TO BE REMOVED AND DISPOSED OF. EXISTING LUMINAIRE SHALL BE SALVAGED.
J E	EXISTING JUNCTION BOX,TO REMAIN
J R	EXISTING JUNCTION BOX, TO BE REMOVED
R	EXISTING IDOT LIGHTING CONTROLLER TO BE REMOVED
R	EXISTING ELECTRIC UTILITY SERVICE TO BE REMOVED
O R	EXISTING UNDERPASS LUMINAIRE TO BE REMOVED

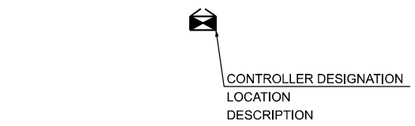
ABBREVIATIONS

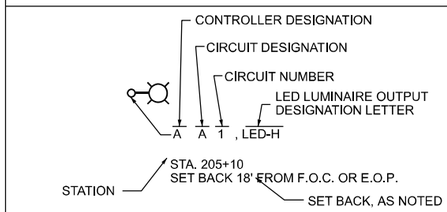
ABBREVIATION	DESCRIPTION
AC	ALTERNATING CURRENT
A/C	AERIAL CABLE
ATS	ATTACHED TO STRUCTURE
B.O.C.	BACK OF CURB
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CM	CENTIMETER
COMED	COMMONWEALTH EDISON COMPANY
CP	CONTROL PANEL
CT	CURRENT TRANSFORMER
DA	DAVIT ARM
DC	DIRECT CURRENT
DIA	DIAMETER
DP	DISTRIBUTION PANEL
E	EXISTING UNIT TO REMAIN
EX.	EXISTING
ECA	ELECTRIC CABLE ASSEMBLY
EIS	EMBEDDED IN STRUCTURE
E.O.P.	EDGE OF PAVEMENT
F.O.C.	FACE OF CURB
FT	FEET OR FOOT
FU	FUSE
GND	GROUND
HID	HIGH INTENSITY DISCHARGE
JB	JUNCTION BOX
KVA	KILOVOLT-AMPERE
KW	KILOWATTS
LED	LIGHT EMITTING DIODE
LP	LIGHT POLE
M	METER
MA	MAST ARM
MC	MULTI-CONDUCTOR
MM	MILLIMETER
M.H.	MOUNTING HEIGHT
MW	MESSENGER WIRE
NESC	NATIONAL ELECRIC SAFETY CODE
NO. #	NUMBER
N.T.S.	NOT TO SCALE
P	PROPOSED
PB	PUSH BUTTON
PNL	PANEL
PVC	POLYVINYL CHLORIDE
PVCC RGC	PVC COATED RIGID GALVANIZED CONDUIT
PT	POTENTIAL TRANSFORMER
R	EXISTING UNIT TO BE REMOVED (OWNER SALVAGED U.N.O.)
RR	EXISTING UNIT TO BE REMOVED AND REINSTALLED
RECP	RECEPTACLE
RGC	RIGID GALVANIZED CONDUIT
SEL SW	SELECTOR SWITCH
SPARE	SPARE
SPACE	SPACE
SS	STAINLESS STEEL
STA	STATION
T/F	TOP OF FOUNDATION
UD	UNIT DUCT
U.N.O.	UNLESS NOTED OTHERWISE
UGC, GS	UNDERGROUND CONDUCT, GALVANIZED STEEL
VAC	VOLTS, ALTERNATING CURRENT
W	WATTS
WP	WOOD POLE
XFMR	TRANSFORMER
HPS	HIGH PRESSURE SODIUM
LPS	LOW PRESSURE SODIUM
LTFM	LIQUID TIGHT FLEXIBLE METALLIC

CALL–OUT SAMPLE

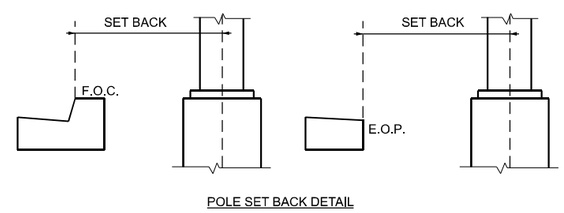
DEFINITION AND EXAMPLE







PROPOSED LIGHTING UNIT



POLE SET BACK DETAIL

LIGHTING AND ELECTRICAL LEGEND (CONT)

SYMBOL	DESCRIPTION
R	EXISTING CIRCUIT TO BE REMOVED OR ABANDONED IN PLACE
R	TEMPORARY AERIAL CABLE TO BE REMOVED
E	EXISTING UNIT DUCT
	EXISTING ELECTRICAL CABLES IN EXISTING EMBEDDED CONDUIT
A	EXISTING AERIAL CABLE
A	PROPOSED AERIAL CABLE, SIZE AND TYPE AS NOTED
	PROPOSED CABLE IN CONDUIT, EMBEDDED IN STRUCTURE, SIZE AND TYPE AS NOTED
	PROPOSED UNIT DUCT, SIZE AND TYPE AS NOTED
	PROPOSED UNIT DUCT IN UNDERGROUND CONDUIT, SIZE AND TYPE AS NOTED

GENERAL NOTES

1. THE ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST CODES, STANDARDS AND THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED JANUARY 1, 2022, AND SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS.
2. THE CONTRACTOR SHALL CONTACT MEADE ELECTRIC CO. DISTRICT ONE ELECTRICAL MAINTENANCE CONTRACTOR TO LOCATE IDOT ELECTRICAL EQUIPMENT AND UNDERGROUND CABLES 773-287-7672.
3. MINIMUM CLEARANCE OF AERIAL LIGHTING CABLES OVER TRAVELED LANES SHALL BE 18 FEET FROM ROADWAY SURFACE TO LOWEST POINT OF CABLE UNDER MAXIMUM SAG CONDITIONS.

CITY OF JOLIET STANDARDS:

PUBLIC WORKS CONSTRUCTION STANDARDS STREET LIGHT REQUIREMENTS (STREET LIGHT POLE FOUNDATION AND MISC)

IDOT–D1 STANDARDS:

STANDARD NO.	TITLE
BE-206	LIGHTING CONTROLLER, BASE MOUNTED. 480VOLT, 200AMP (DUAL) RADIO SCADA - FIBER OPTIC PROVISION
BE-220	ELECTRIC SERVICE INSTALLATION AERIAL, REMOTE DISCONNECT
BE-240	COMBINATION LIGHTING, TRAFFIC SIGNAL SCHEMATIC
BE-301	LIGHT POLE FOUNDATION 40' TO 47 1/2' M.H. 15" BOLT CIRCLE
BE-400	ALUMINUM LIGHT POLE 47'-6" (14.478 m) MOUNTING HEIGHT
BE-701	LUMINAIRE SAFETY CABLE ASSEMBLY
BE-702	MISC. ELECTRICAL DETAILS SHEET A
BE-703	MISC. ELECTRICAL DETAILS SHEET B
BE-800	TEMPORARY LIGHT POLE DETAILS
BE-801	TEMPORARY AERIAL CABLE INSTALLATION
BE-901	SUSPENDED MOUNT LED UNDERPASS LUMINAIRE INSTALLATION DETAILS
BE-903	PIER/ABUTMENT MOUNTED LED UNDERPASS LUMINAIRE INSTALLATION DETAILS

I–80 CORRIDOR DETAILS:

TITLE
24" (610 mm) DIA. LIGHT POLE FOUNDATION INTEGRAL WITH DOUBLE FACE BARRIER WALL
LIGHT POLE MOUNTED ON CONCRETE PARAPET WALL 15" (381 mm) BOLT CIRCLE

IDOT HIGHWAY STANDARDS:

STANDARD NO.	TITLE
812001-01	RACEWAYS EMBEDDED IN STRUCTURE

PROJECT COMED REPRESENTATIVE:

COMED REPRESENTATIVE CONTACT:

ARIEL HUGHES - OFFICE 779-231-0442
CELL 779-208-0795

LT–01

MODEL: Default
FILE NAME: D1\62F94-01-sht-light01.dgn

SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS

USER NAME = mgarvida	DESIGNED - VG	REVISED -	
	DRAWN - VN/MAG	REVISED -	
PLOT SCALE = 2.000 ' / in.	CHECKED - MG	REVISED -	
PLOT DATE = 10/28/2025	DATE - 10/31/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING LEGEND AND GENERAL NOTES

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	582
		CONTRACT NO. 62F94		
	ILLINOIS FED. AID PROJECT			

ITEM	UNIT	TOTAL QUANTITY
ELECTRIC SERVICE INSTALLATION	EACH	1
ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	150
UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	1,160
CONDUIT ATTACHED TO STRUCTURE, 1" DIA., PVC COATED GALVANIZED STEEL	FOOT	1,050
CONDUIT ATTACHED TO STRUCTURE, 3" DIA., PVC COATED GALVANIZED STEEL	FOOT	190
CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC	FOOT	9,065
CONDUIT EMBEDDED IN STRUCTURE, 4" DIA., PVC	FOOT	605
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6" X 6" X 4"	EACH	24
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 10" X 6"	EACH	12
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18" X 12" X 6"	EACH	7
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18" X 18" X 8"	EACH	4
UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE	FOOT	9,175
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	5,935
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 4	FOOT	9,144
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 2	FOOT	27,432
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C 350MCM	FOOT	510
AERIAL CABLE, 3-1/C NO. 2 WITH MESSENGER WIRE	FOOT	9,735
LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H	EACH	78
LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION I	EACH	2
LUMINAIRE, LED, HIGHMAST, OUTPUT DESIGNATION K	EACH	10
LUMINAIRE, LED, UNDERPASS, WALLMOUNT, OUTPUT DESIGNATION D	EACH	8
LUMINAIRE, LED, UNDERPASS, SUSPENDED, OUTPUT DESIGNATION D	EACH	4
LUMINAIRE, LED, UNDERPASS, SUSPENDED, OUTPUT DESIGNATION E	EACH	12
LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 10 FT. MAST ARM	EACH	34
LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 15 FT. MAST ARM	EACH	37
LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 2-6 FT. MAST ARMS	EACH	1
LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	342
BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH	37
REMOVAL OF TEMPORARY LIGHTING UNIT	EACH	17
REMOVAL OF LIGHTING UNIT, NO SALVAGE	EACH	72
REMOVAL OF POLE FOUNDATION	EACH	72
RELOCATE EXISTING LIGHTING UNIT	EACH	1
REMOVAL OF LIGHTING CONTROLLER	EACH	1
REMOVAL OF ELECTRIC SERVICE INSTALLATION	EACH	1
REMOVAL OF LIGHTING CONTROLLER FOUNDATION	EACH	1
REMOVAL OF HIGH MAST LUMINAIRES, SALVAGE	EACH	10
REMOVAL OF LUMINAIRE, SALVAGE	EACH	105
LIGHTING CONTROLLER, BASE MOUNTED, 480VOLT, 200AMP (DUAL), RADIO SCADA, FIBER OPTIC	EACH	1
MAINTENANCE OF LIGHTING SYSTEM	CAL MO	24
JUNCTION BOX, NON-METALLIC, EMBEDDED IN STRUCTURE, 20" X 13" X 12"	EACH	4
TEMPORARY LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H	EACH	33
COMBINATION LIGHTING CONTROLLER	EACH	3
MAST ARM, ALUMINUM, 15 FT.	EACH	26
REMOVE TEMPORARY WOOD POLE	EACH	3
TEMPORARY WOOD POLE,90 FT.,CLASS 2, 15 FT. MAST ARM	EACH	10
TEMPORARY WOOD POLE, 60 FT., CLASS 4	EACH	3
TEMPORARY WOOD POLE, 60 FT., CLASS 4, 15 FT. MAST ARM	EACH	7
LIGHT POLE FOUNDATION, INTEGRAL WITH BARRIER WALL	EACH	1
LIGHT POLE FOUNDATION, INTEGRAL WITH BARRIER WALL, 24" DIAMETER	FOOT	9
REMOVAL OF UNDERPASS LIGHTING UNIT, NO SALVAGE	EACH	24
LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	80

MODEL: Default
FILE NAME: D162F94-01-sht-light02.dgn

SINGH + ASSOCIATES, INC.
CONSULTING ENGINEERS

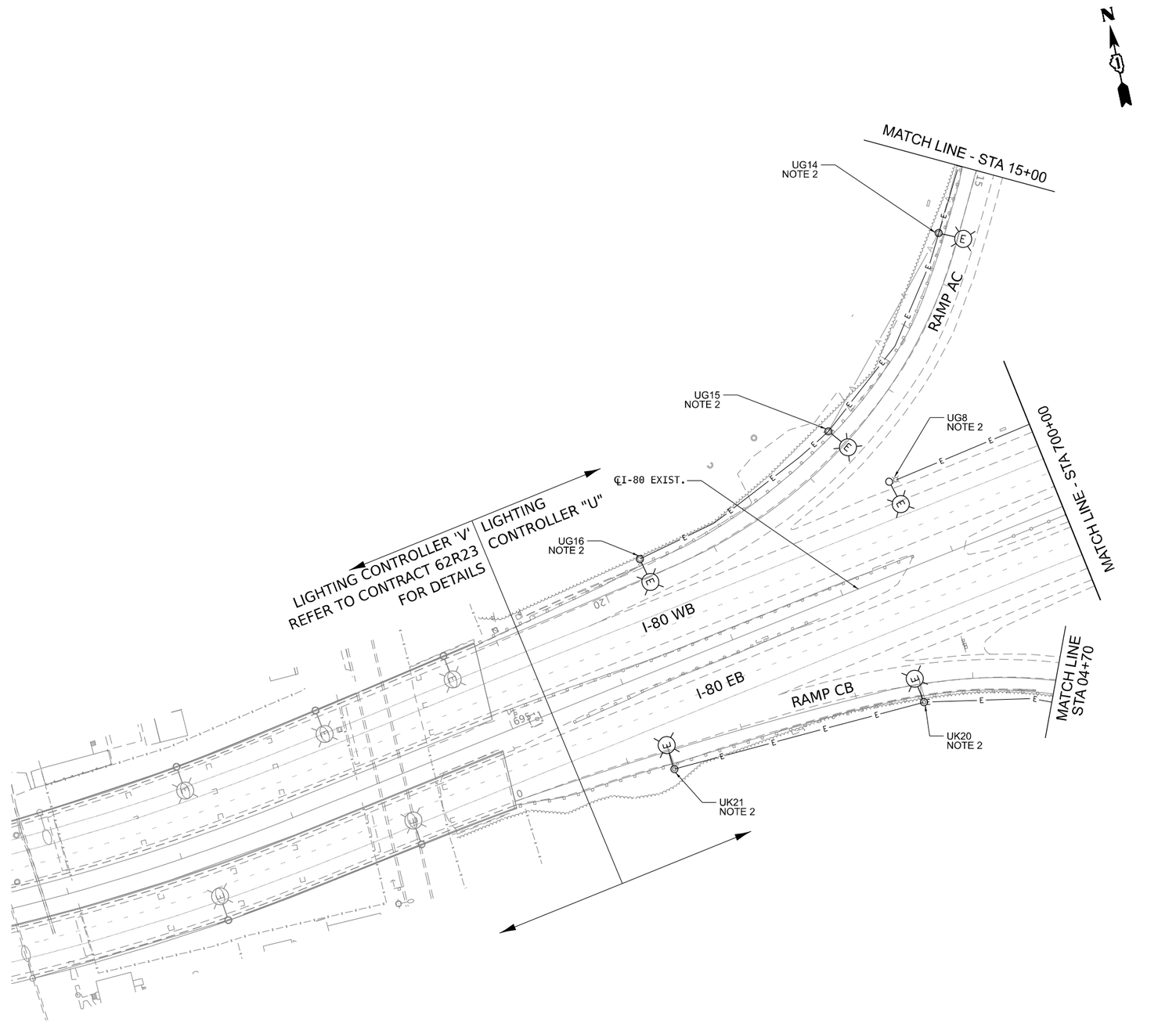
USER NAME = mgarvida	DESIGNED - VG	REVISED -
	DRAWN - VN/MAG	REVISED -
PLOT SCALE = 0.167 ' / in.	CHECKED - MG	REVISED -
PLOT DATE = 10/28/2025	DATE - 10/31/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BILL OF MATERIALS

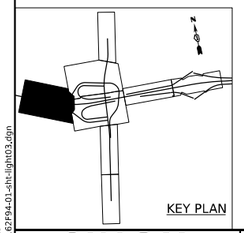
SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	583
		CONTRACT NO. 62F94		
	ILLINOIS	FED. AID PROJECT		



NOTES:

1. SEE SHEET LT-01 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
2. EXISTING LIGHTING UNIT SHALL REMAIN OPERATIONAL DURING PRESTAGE A.



0 50 100 150
SCALE IN FEET

LT–03

MODEL: Default
FILE NAME: D162F94-01-sht-light03.dgn

SINGH + ASSOCIATES, INC.
CONSULTING ENGINEERS

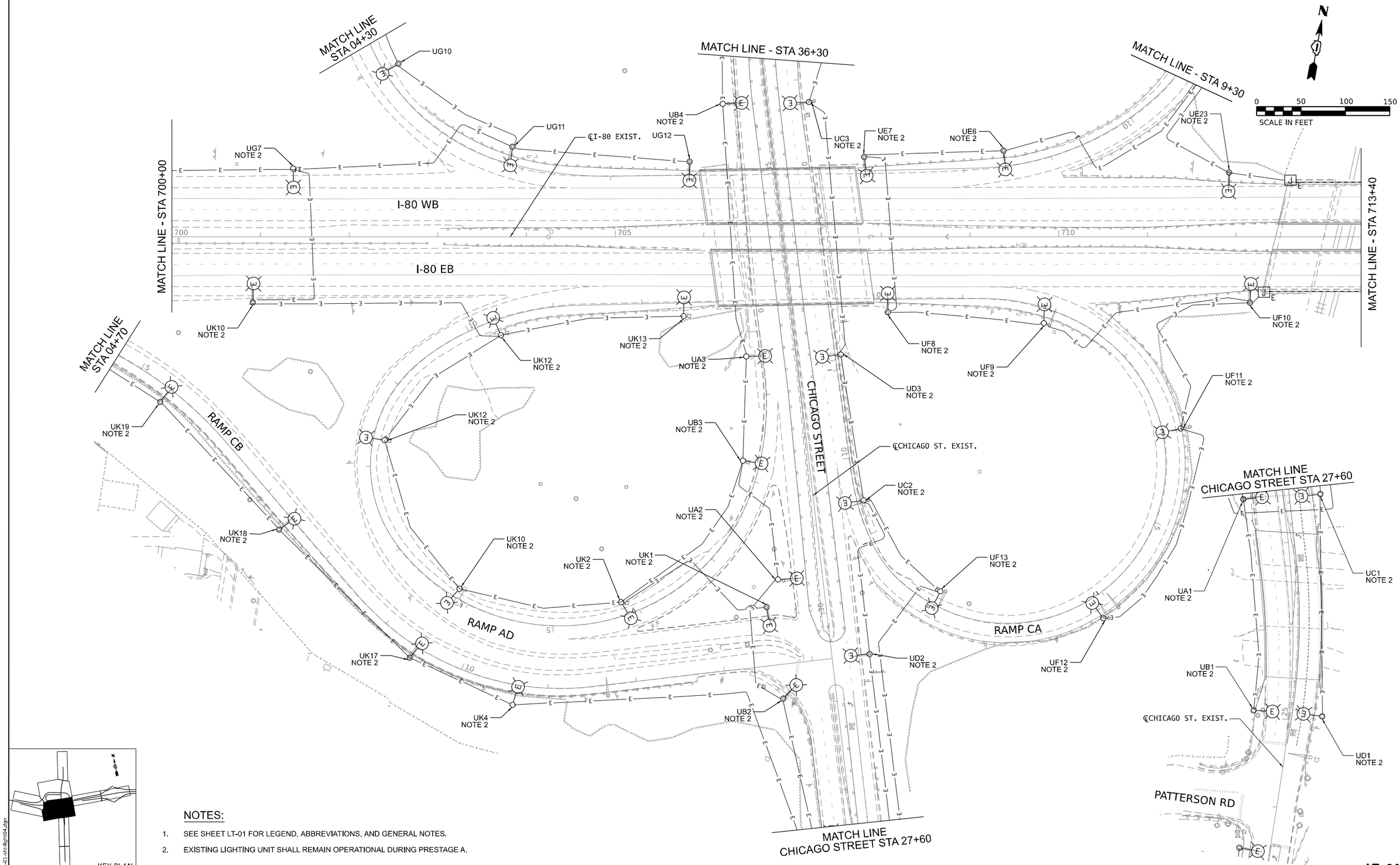
USER NAME = mgarvida	DESIGNED - VG	REVISED -
	DRAWN - VN/MAG	REVISED -
PLOT SCALE = 100.000 ' / in.	CHECKED - MG	REVISED -
PLOT DATE = 10/28/2025	DATE - 10/31/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY AND REMOVAL LIGHTING PLAN I–80 – PRESTAGE A

SCALE: 1"=50' | SHEET 1 OF 5 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	584
		CONTRACT NO. 62F94		
	ILLINOIS	FED. AID PROJECT		



KEY PLAN

NOTES:

1. SEE SHEET LT-01 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
2. EXISTING LIGHTING UNIT SHALL REMAIN OPERATIONAL DURING PRESTAGE A.

MODEL: Default
FILE NAME: D:\62F94-01-sht-light04.dgn

SINGH + ASSOCIATES, INC.
CONSULTING ENGINEERS

USER NAME = mgarvida	DESIGNED - VG	REVISED -	
	DRAWN - VN/MAG	REVISED -	
PLOT SCALE = 100.024 ' / in.	CHECKED - MG	REVISED -	
PLOT DATE = 10/28/2025	DATE - 10/31/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY AND REMOVAL LIGHTING PLAN I-80 – PRESTAGE A

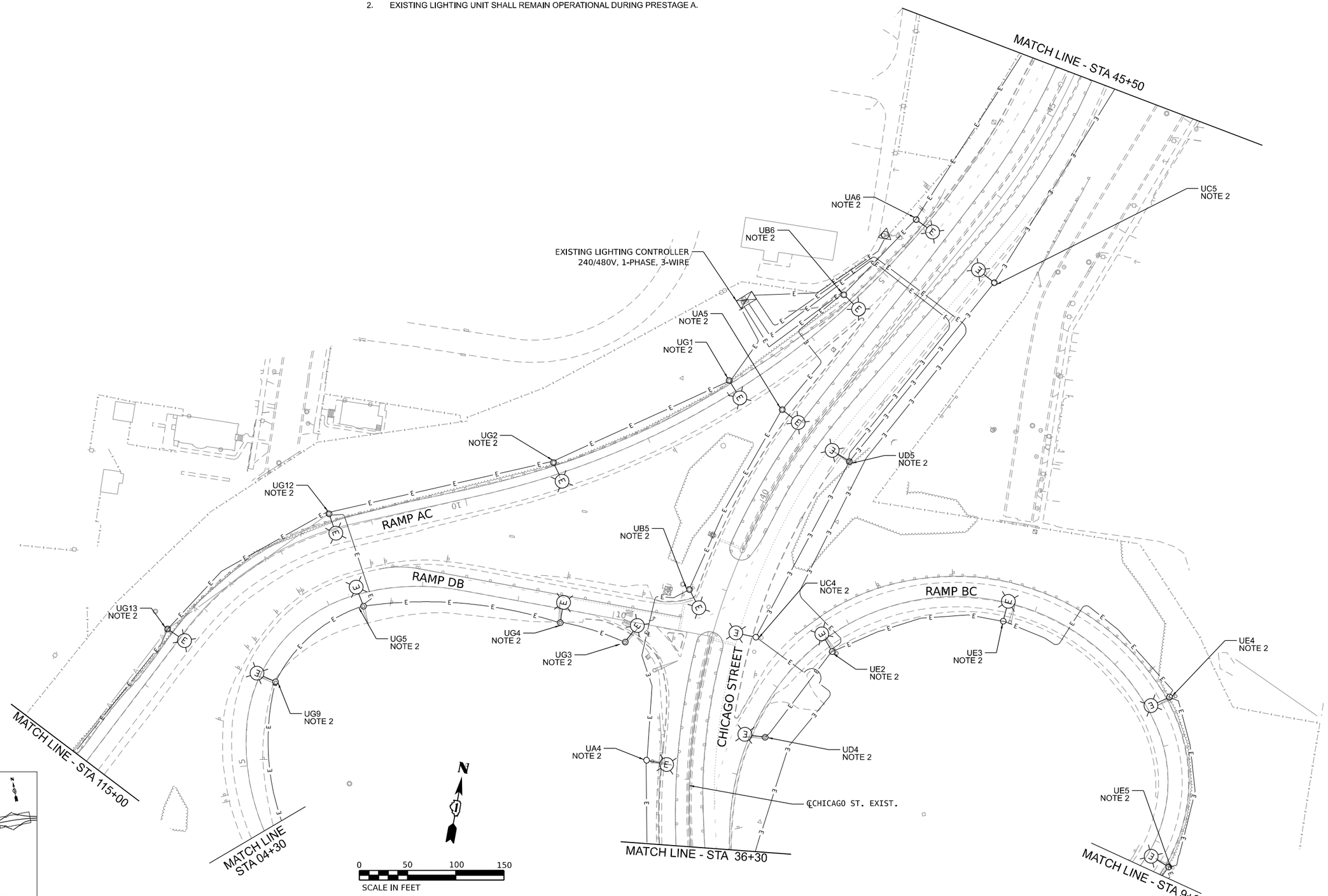
SCALE: 1"=50' | SHEET 2 OF 5 SHEETS | STA. | TO STA.

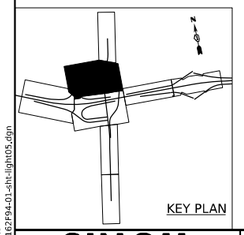
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	585
		CONTRACT NO. 62F94		
	ILLINOIS FED. AID PROJECT			

LT–04

NOTES:

1. SEE SHEET LT-01 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
2. EXISTING LIGHTING UNIT SHALL REMAIN OPERATIONAL DURING PRESTAGE A.





LT–05

MODEL: Default
FILE NAME: D:\62F94-01-sht-light05.dgn

SINGH + ASSOCIATES, INC.
CONSULTING ENGINEERS

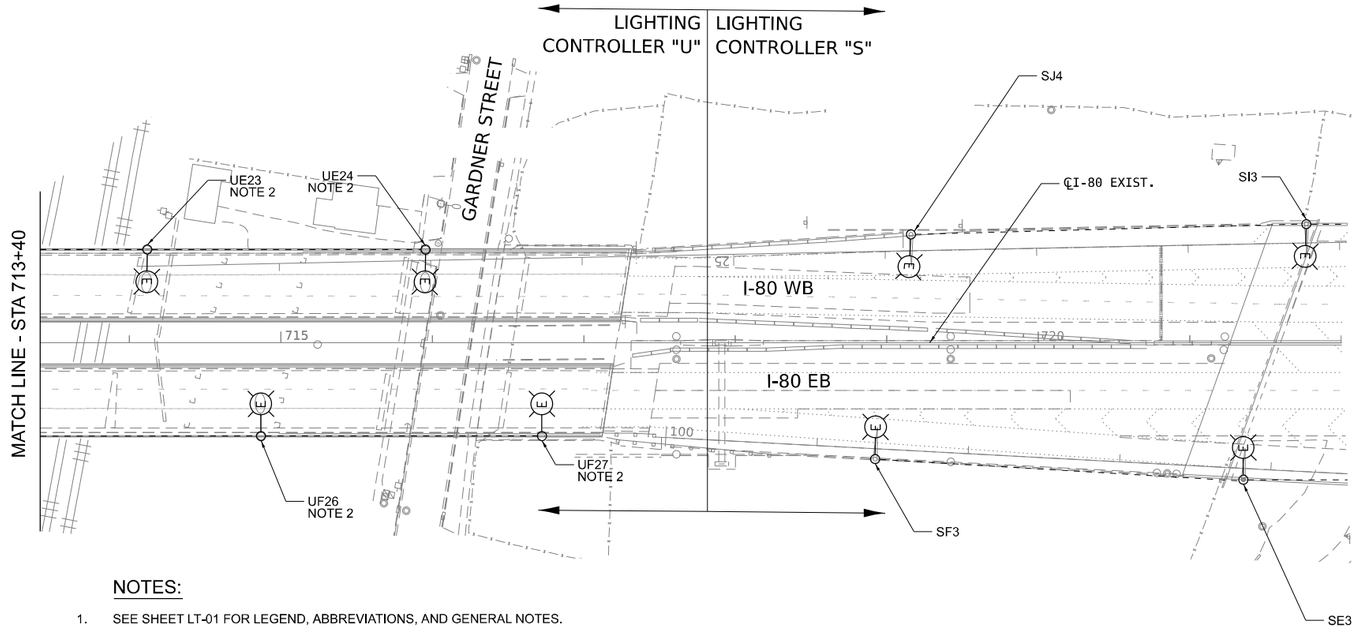
USER NAME = mgarvida	DESIGNED - VG	REVISED -	
	DRAWN - VN/MAG	REVISED -	
PLOT SCALE = 100.000 ' / in.	CHECKED - MG	REVISED -	
PLOT DATE = 10/28/2025	DATE - 10/31/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY AND REMOVAL LIGHTING PLAN I–80 – PRESTAGE A

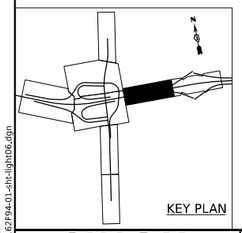
SCALE: 1"=50' | SHEET 3 OF 5 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	586
		CONTRACT NO. 62F94		
	ILLINOIS FED. AID PROJECT			



NOTES:

1. SEE SHEET LT-01 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
2. EXISTING LIGHTING UNIT SHALL REMAIN OPERATIONAL DURING PRESTAGE A.



0 50 100 150
SCALE IN FEET

LT–06

MODEL: Default
FILE NAME: D162F94-01-lht-light06.dgn

SINGH + ASSOCIATES, INC.
CONSULTING ENGINEERS

USER NAME = mgarvida	DESIGNED - VG	REVISED -
	DRAWN - VN/MAG	REVISED -
PLOT SCALE = 100.000 ' / in.	CHECKED - MG	REVISED -
PLOT DATE = 10/28/2025	DATE - 10/31/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

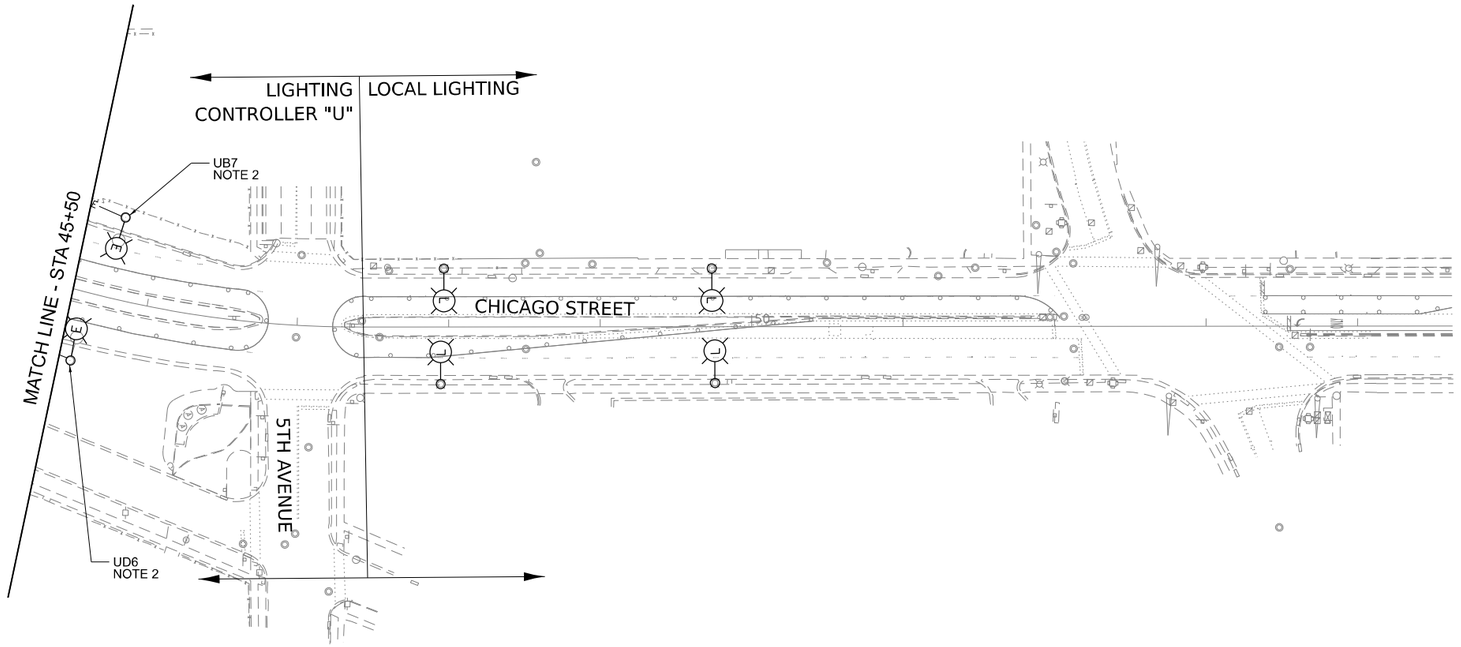
TEMPORARY AND REMOVAL LIGHTING PLAN I–80 – PRESTAGE A

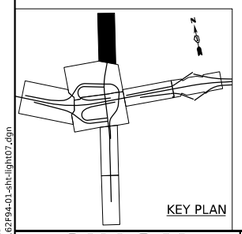
SCALE: 1"=50' | SHEET 4 OF 5 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	587
		CONTRACT NO. 62F94		
	ILLINOIS	FED. AID PROJECT		

NOTES:

1. SEE SHEET LT-01 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
2. EXISTING LIGHTING UNIT SHALL REMAIN OPERATIONAL DURING PRESTAGE A.





0 50 100 150
SCALE IN FEET

LT–07

MODEL: Default
FILE NAME: D:\02F94-01-sht-light07.dgn

SINGH + ASSOCIATES, INC.
CONSULTING ENGINEERS

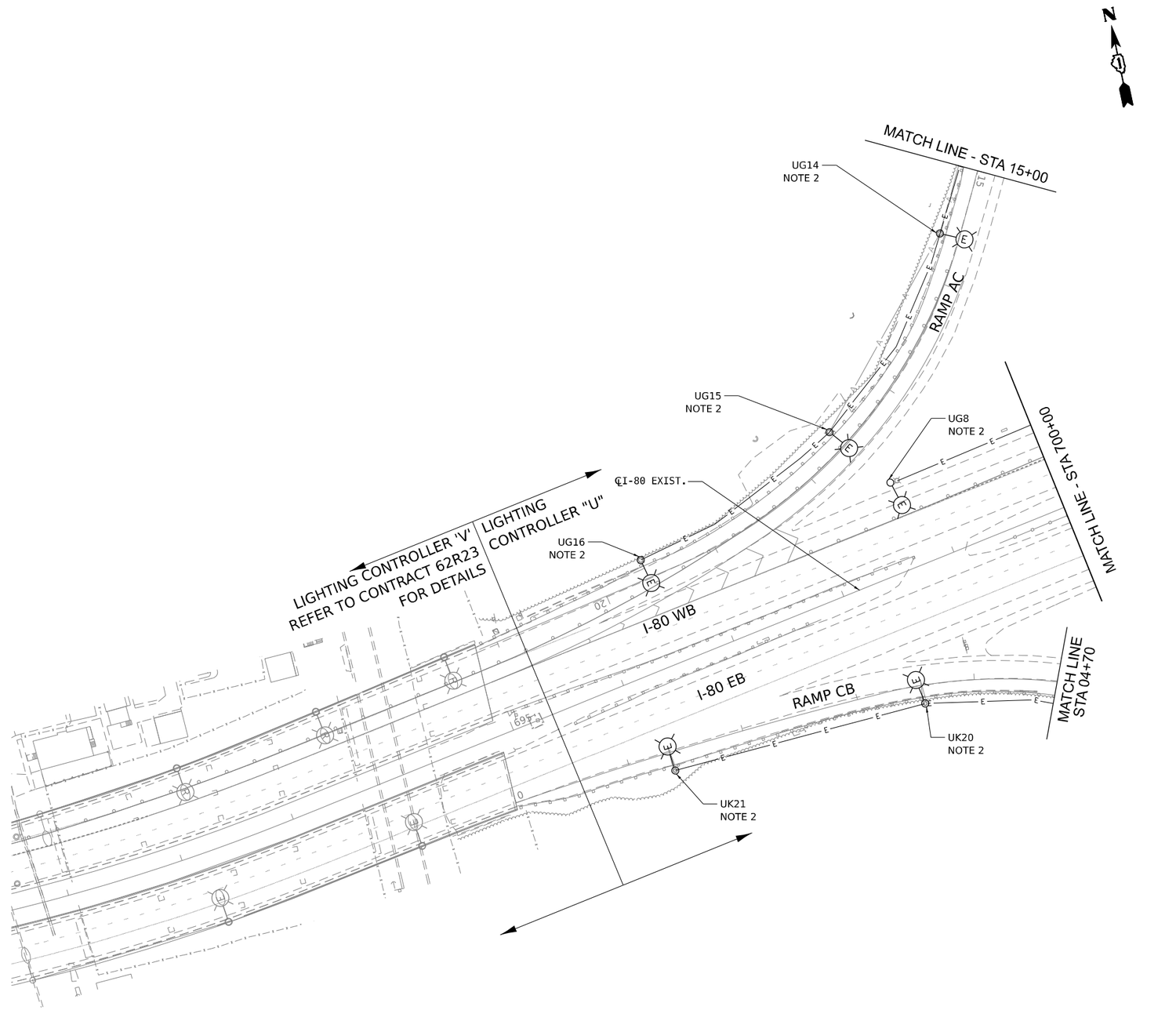
USER NAME = mgarvida	DESIGNED - VG	REVISED -
	DRAWN - VN/MAG	REVISED -
PLOT SCALE = 100.000 ' / in.	CHECKED - MG	REVISED -
PLOT DATE = 10/28/2025	DATE - 10/31/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY AND REMOVAL LIGHTING PLAN CHICAGO ST. – PRESTAGE A

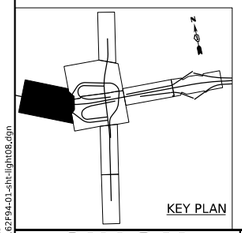
SCALE: 1"=50' | SHEET 5 OF 5 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	588
		CONTRACT NO. 62F94		
	ILLINOIS FED. AID PROJECT			



NOTES:

1. SEE SHEET LT-01 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
2. EXISTING LIGHTING UNIT SHALL REMAIN OPERATIONAL DURING PRESTAGE B.



LT–08

MODEL: Default
FILE NAME: D:\62F94-01-sht-light08.dgn

SINGH
SINGH + ASSOCIATES, INC.
CONSULTING ENGINEERS

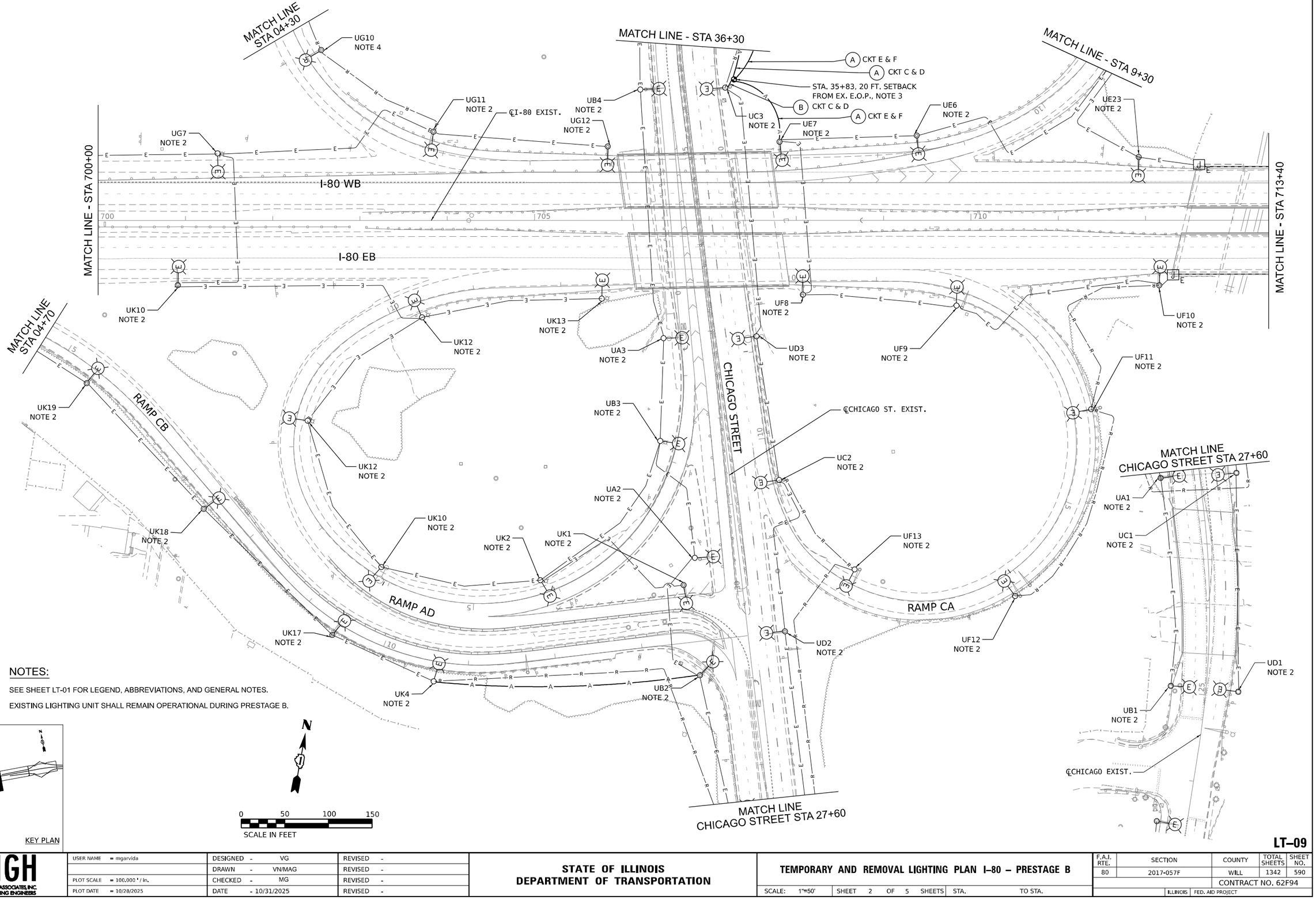
USER NAME = mgarvida	DESIGNED - VG	REVISED -	
	DRAWN - VN/MAG	REVISED -	
PLOT SCALE = 100.000 ' / in.	CHECKED - MG	REVISED -	
PLOT DATE = 10/28/2025	DATE - 10/31/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY AND REMOVAL LIGHTING PLAN I–80 – PRESTAGE B

SCALE: 1"=50' | SHEET 1 OF 5 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	589
		CONTRACT NO. 62F94		
	ILLINOIS	FED. AID PROJECT		



NOTES:

1. SEE SHEET LT-01 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
2. EXISTING LIGHTING UNIT SHALL REMAIN OPERATIONAL DURING PRESTAGE B.

LT–09

MODEL: Default
FILE NAME: D162F94-01-sht-light09.dgn

SINGH + ASSOCIATES, INC.
CONSULTING ENGINEERS

USER NAME = mgarvida	DESIGNED - VG	REVISED -	
	DRAWN - VN/MAG	REVISED -	
PLOT SCALE = 100.000 ' / in.	CHECKED - MG	REVISED -	
PLOT DATE = 10/28/2025	DATE - 10/31/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

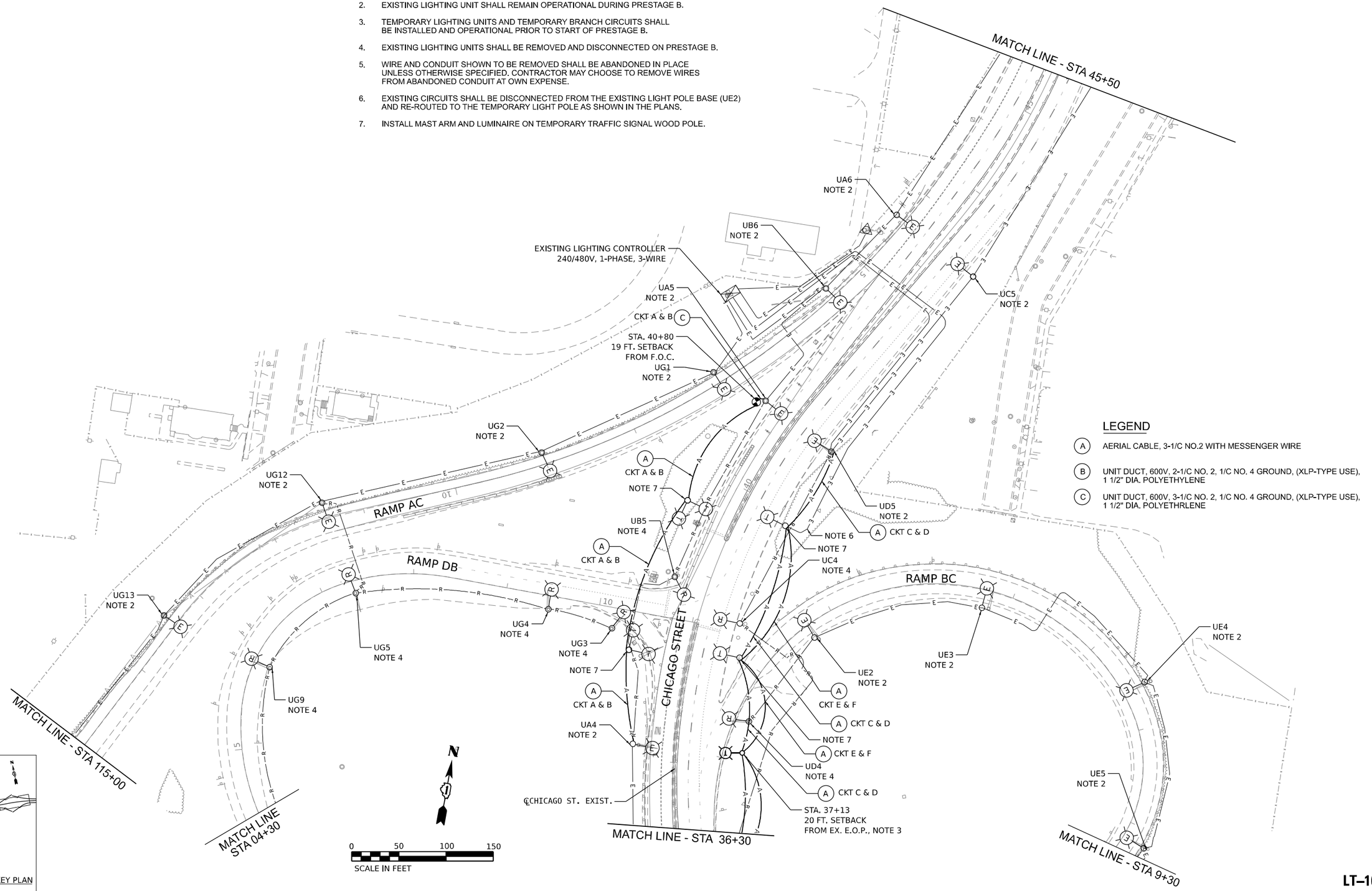
TEMPORARY AND REMOVAL LIGHTING PLAN I–80 – PRESTAGE B

SCALE: 1"=50' | SHEET 2 OF 5 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	590
		CONTRACT NO. 62F94		
	ILLINOIS	FED. AID PROJECT		

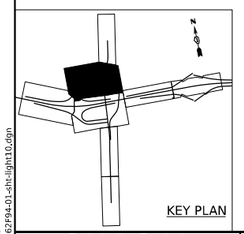
NOTES:

1. SEE SHEET LT-01 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
2. EXISTING LIGHTING UNIT SHALL REMAIN OPERATIONAL DURING PRESTAGE B.
3. TEMPORARY LIGHTING UNITS AND TEMPORARY BRANCH CIRCUITS SHALL BE INSTALLED AND OPERATIONAL PRIOR TO START OF PRESTAGE B.
4. EXISTING LIGHTING UNITS SHALL BE REMOVED AND DISCONNECTED ON PRESTAGE B.
5. WIRE AND CONDUIT SHOWN TO BE REMOVED SHALL BE ABANDONED IN PLACE UNLESS OTHERWISE SPECIFIED. CONTRACTOR MAY CHOOSE TO REMOVE WIRES FROM ABANDONED CONDUIT AT OWN EXPENSE.
6. EXISTING CIRCUITS SHALL BE DISCONNECTED FROM THE EXISTING LIGHT POLE BASE (UE2) AND RE-ROUTED TO THE TEMPORARY LIGHT POLE AS SHOWN IN THE PLANS.
7. INSTALL MAST ARM AND LUMINAIRE ON TEMPORARY TRAFFIC SIGNAL WOOD POLE.



LEGEND

- (A) AERIAL CABLE, 3-1/C NO.2 WITH MESSENGER WIRE
- (B) UNIT DUCT, 600V, 2-1/C NO. 2, 1/C NO. 4 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE
- (C) UNIT DUCT, 600V, 3-1/C NO. 2, 1/C NO. 4 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHRLENE



LT–10

MODEL: Default
FILE NAME: D162F94-01-sht-light10.dgn

SINGH + ASSOCIATES, INC.
CONSULTING ENGINEERS

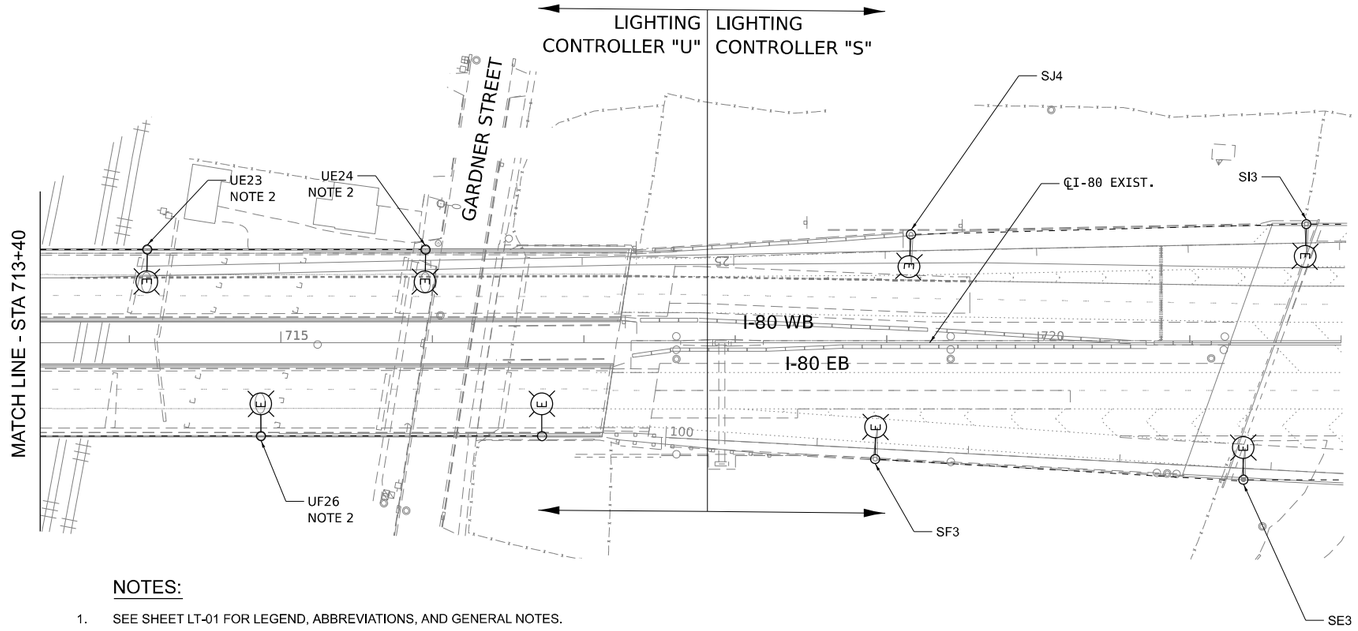
USER NAME = mgarvida	DESIGNED - VG	REVISED -	
	DRAWN - VN/MAG	REVISED -	
PLOT SCALE = 100.000 ' / in.	CHECKED - MG	REVISED -	
PLOT DATE = 10/28/2025	DATE - 10/31/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY AND REMOVAL LIGHTING PLAN I–80 – PRESTAGE B

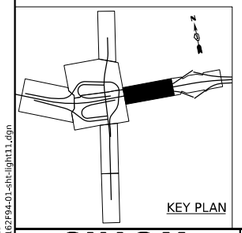
SCALE: 1"=50' | SHEET 3 OF 5 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	591
		CONTRACT NO. 62F94		
		ILLINOIS	FED. AID PROJECT	



NOTES:

1. SEE SHEET LT-01 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
2. EXISTING LIGHTING UNIT SHALL REMAIN OPERATIONAL DURING PRESTAGE B.



0 50 100 150
SCALE IN FEET

LT–11

MODEL: Default
FILE NAME: D:\02F94-01-sht-light11.dgn

SINGH + ASSOCIATES, INC.
CONSULTING ENGINEERS

USER NAME = mgarvida	DESIGNED - VG	REVISED -
	DRAWN - VN/MAG	REVISED -
PLOT SCALE = 100.000 ' / in.	CHECKED - MG	REVISED -
PLOT DATE = 10/28/2025	DATE - 10/31/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

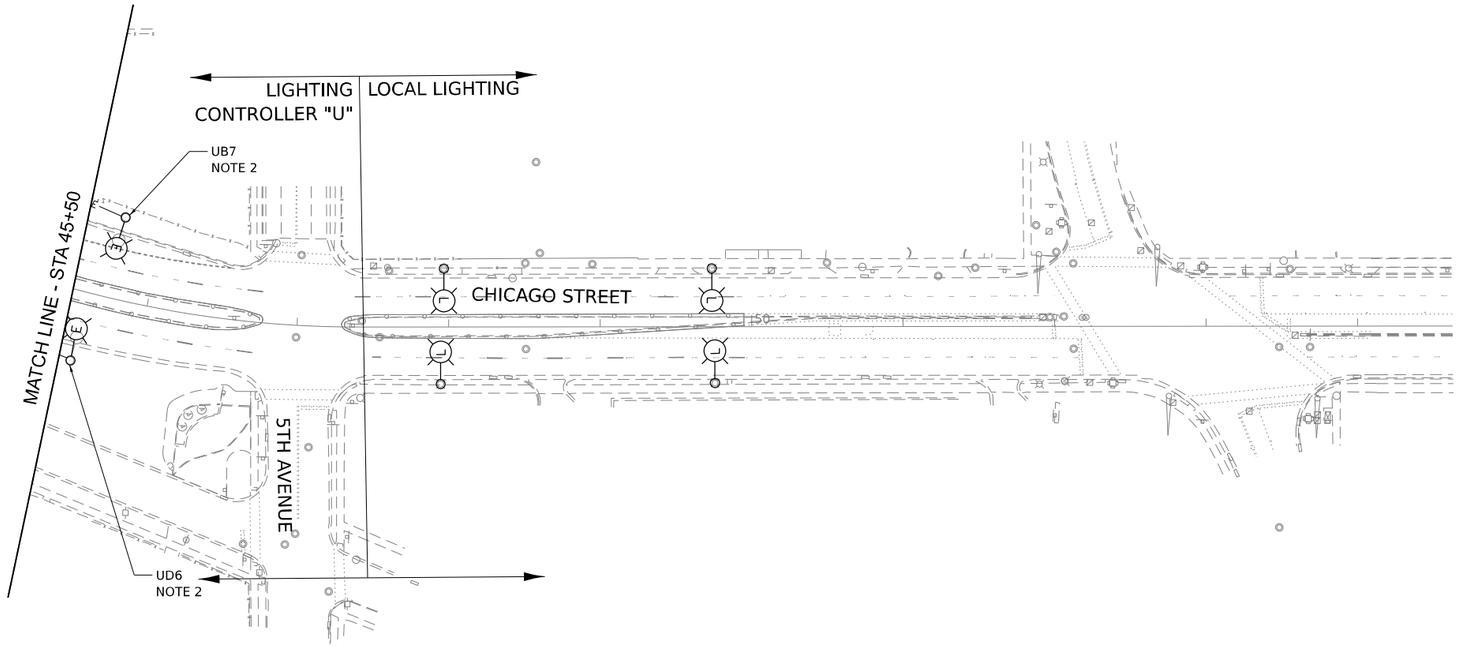
TEMPORARY AND REMOVAL LIGHTING PLAN I–80 – PRESTAGE B

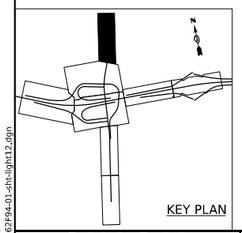
SCALE: 1"=50' | SHEET 4 OF 5 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	592
		CONTRACT NO. 62F94		
	ILLINOIS	FED. AID PROJECT		

NOTES:

1. SEE SHEET LT-01 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
2. EXISTING LIGHTING UNIT SHALL REMAIN OPERATIONAL DURING PRESTAGE B.





0 50 100 150
SCALE IN FEET

LT–12

MODEL: Default
FILE NAME: D:\02F94-01-sht-light12.dgn

SINGH + ASSOCIATES, INC.
CONSULTING ENGINEERS

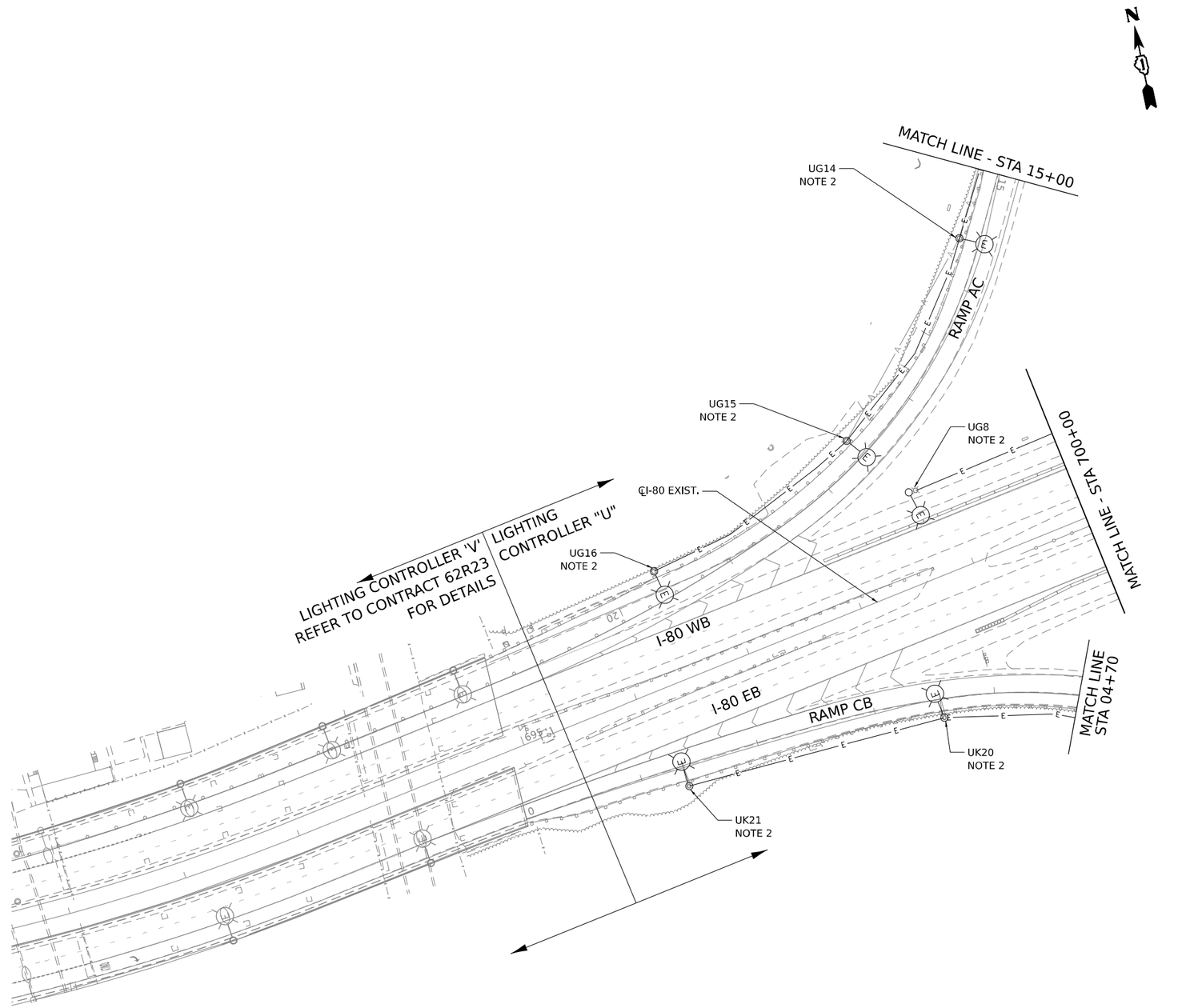
USER NAME = mgarvida	DESIGNED - VG	REVISED -	
	DRAWN - VN/MAG	REVISED -	
PLOT SCALE = 100.000 ' / in.	CHECKED - MG	REVISED -	
PLOT DATE = 10/28/2025	DATE - 10/31/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY AND REMOVAL LIGHTING PLAN CHICAGO ST. – PRESTAGE B

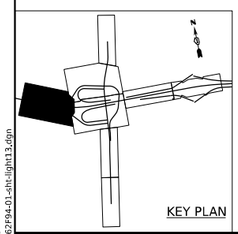
SCALE: 1"=50' | SHEET 5 OF 5 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	593
		CONTRACT NO. 62F94		
	ILLINOIS FED. AID PROJECT			



NOTES:

1. SEE SHEET LT-01 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
2. EXISTING LIGHTING UNIT SHALL REMAIN OPERATIONAL DURING PRESTAGE C.



LT–13

MODEL: Default
FILE NAME: D162F94-01-sht-light13.dgn

SINGH
SINGH + ASSOCIATES, INC.
CONSULTING ENGINEERS

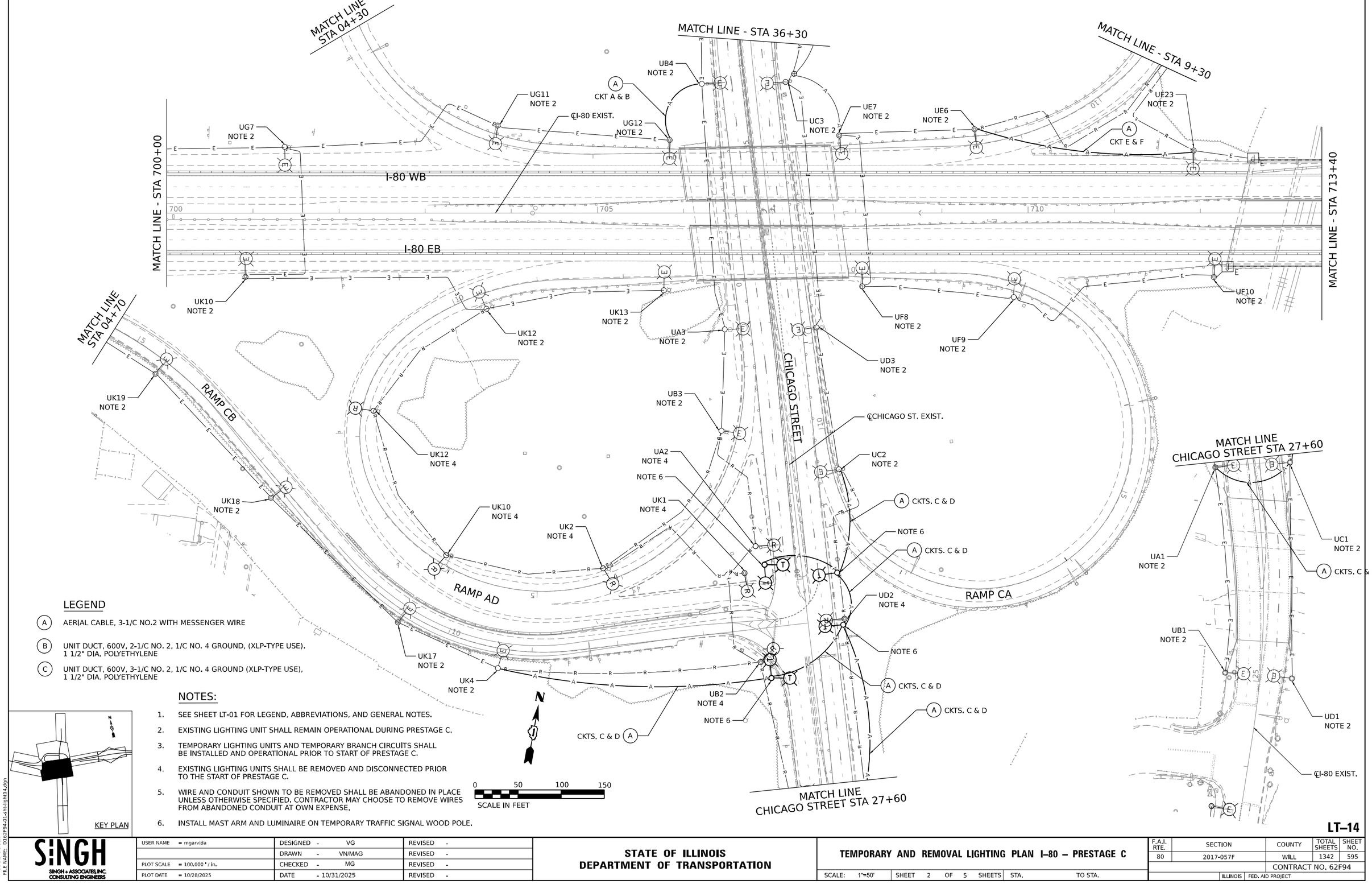
USER NAME = mgarvida	DESIGNED - VG	REVISED -	
	DRAWN - VN/MAG	REVISED -	
PLOT SCALE = 100.000 ' / in.	CHECKED - MG	REVISED -	
PLOT DATE = 10/28/2025	DATE - 10/31/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY AND REMOVAL LIGHTING PLAN I–80 – PRESTAGE C

SCALE: 1"=50' | SHEET 1 OF 5 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	594
		CONTRACT NO. 62F94		
	ILLINOIS FED. AID PROJECT			



LEGEND

- (A) AERIAL CABLE, 3-1/C NO.2 WITH MESSENGER WIRE
- (B) UNIT DUCT, 600V, 2-1/C NO. 2, 1/C NO. 4 GROUND, (XLP-TYPE USE). 1 1/2" DIA. POLYETHYLENE
- (C) UNIT DUCT, 600V, 3-1/C NO. 2, 1/C NO. 4 GROUND (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE

NOTES:

1. SEE SHEET LT-01 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
2. EXISTING LIGHTING UNIT SHALL REMAIN OPERATIONAL DURING PRESTAGE C.
3. TEMPORARY LIGHTING UNITS AND TEMPORARY BRANCH CIRCUITS SHALL BE INSTALLED AND OPERATIONAL PRIOR TO START OF PRESTAGE C.
4. EXISTING LIGHTING UNITS SHALL BE REMOVED AND DISCONNECTED PRIOR TO THE START OF PRESTAGE C.
5. WIRE AND CONDUIT SHOWN TO BE REMOVED SHALL BE ABANDONED IN PLACE UNLESS OTHERWISE SPECIFIED. CONTRACTOR MAY CHOOSE TO REMOVE WIRES FROM ABANDONED CONDUIT AT OWN EXPENSE.
6. INSTALL MAST ARM AND LUMINAIRE ON TEMPORARY TRAFFIC SIGNAL WOOD POLE.

LT–14

MODEL: Default
FILE NAME: D:\62F94-01-sht-light14.dgn

SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS

USER NAME	= mgarvida	DESIGNED	- VG	REVISED	-
		DRAWN	- VN/MAG	REVISED	-
PLOT SCALE	= 100.000 ' / in.	CHECKED	- MG	REVISED	-
PLOT DATE	= 10/28/2025	DATE	- 10/31/2025	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

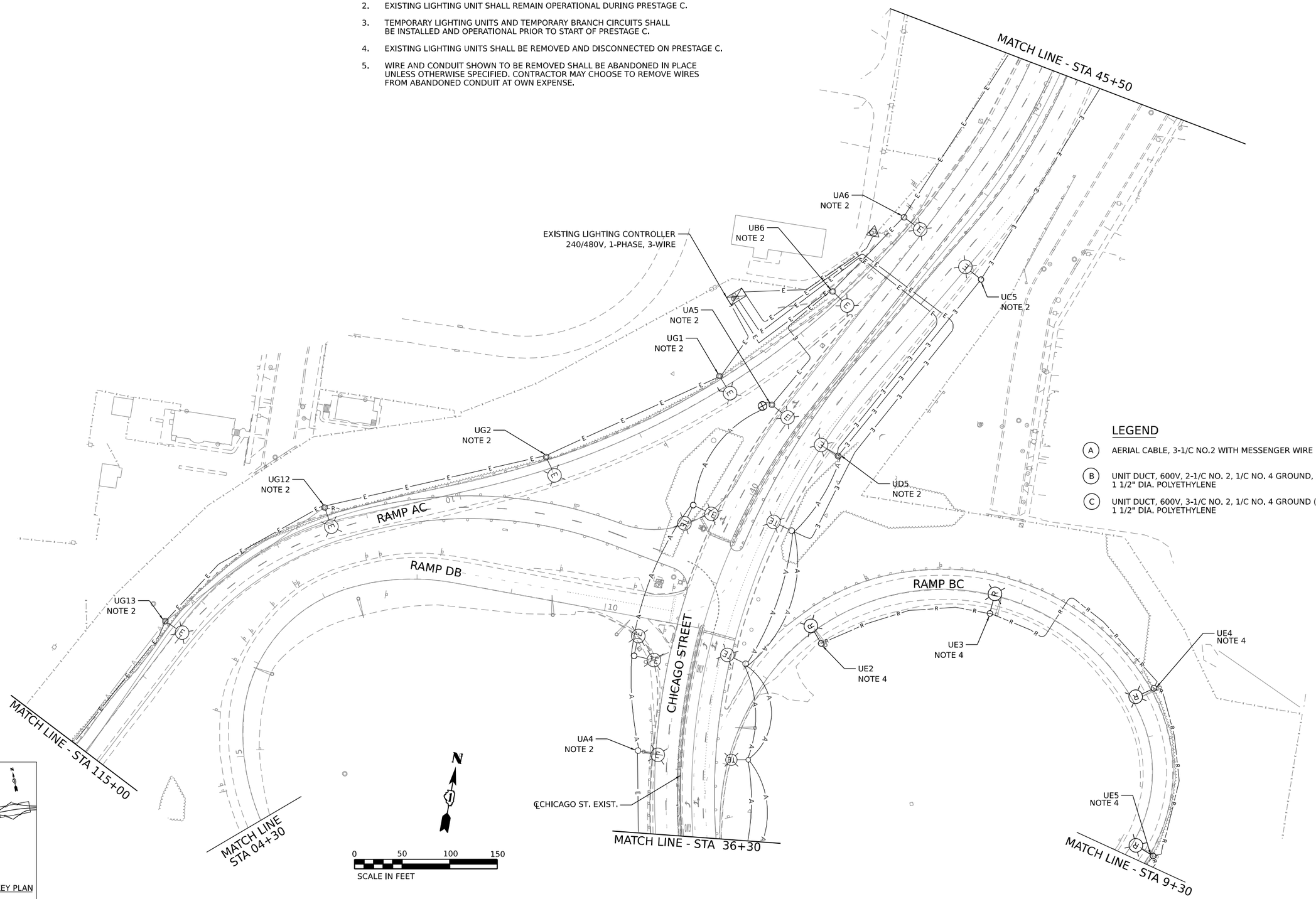
TEMPORARY AND REMOVAL LIGHTING PLAN I–80 – PRESTAGE C

SCALE: 1"=50' | SHEET 2 OF 5 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	595
		CONTRACT NO. 62F94		
	ILLINOIS FED. AID PROJECT			

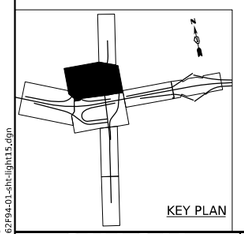
NOTES:

1. SEE SHEET LT-01 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
2. EXISTING LIGHTING UNIT SHALL REMAIN OPERATIONAL DURING PRESTAGE C.
3. TEMPORARY LIGHTING UNITS AND TEMPORARY BRANCH CIRCUITS SHALL BE INSTALLED AND OPERATIONAL PRIOR TO START OF PRESTAGE C.
4. EXISTING LIGHTING UNITS SHALL BE REMOVED AND DISCONNECTED ON PRESTAGE C.
5. WIRE AND CONDUIT SHOWN TO BE REMOVED SHALL BE ABANDONED IN PLACE UNLESS OTHERWISE SPECIFIED. CONTRACTOR MAY CHOOSE TO REMOVE WIRES FROM ABANDONED CONDUIT AT OWN EXPENSE.



LEGEND

- (A) AERIAL CABLE, 3-1/C NO.2 WITH MESSENGER WIRE
- (B) UNIT DUCT, 600V, 2-1/C NO. 2, 1/C NO. 4 GROUND, (XLP-TYPE USE). 1 1/2" DIA. POLYETHYLENE
- (C) UNIT DUCT, 600V, 3-1/C NO. 2, 1/C NO. 4 GROUND (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE



LT–15

MODEL: Default
FILE NAME: D162F94-01-tlt-light15.dgn

SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS

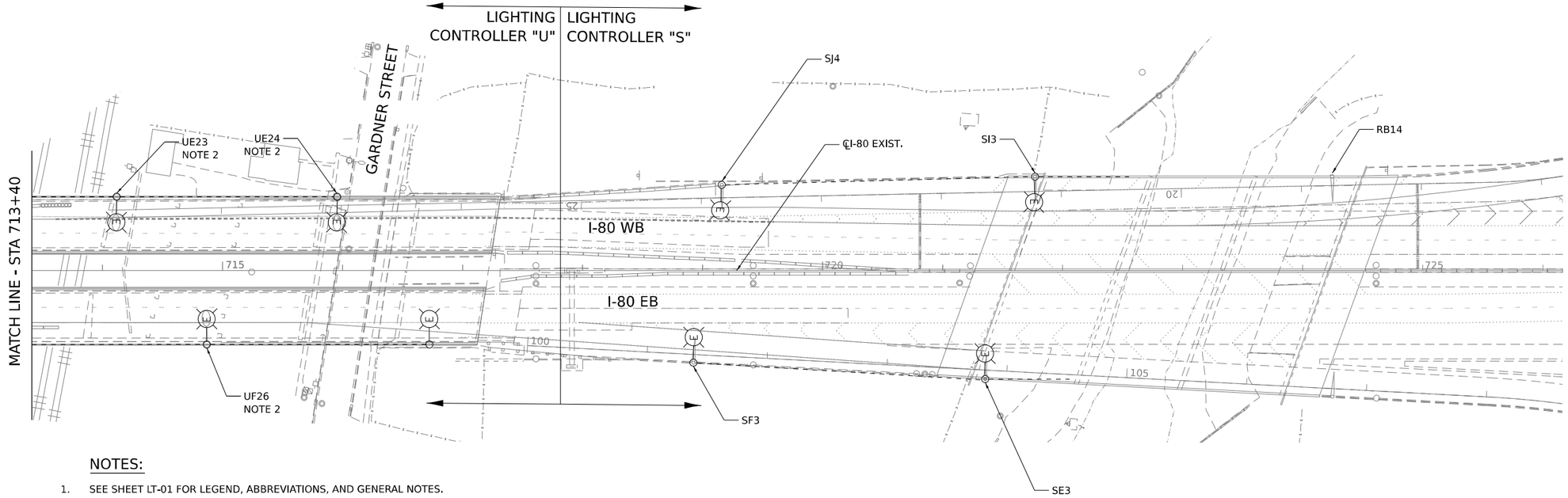
USER NAME = mgarvida	DESIGNED - VG	REVISED -	
	DRAWN - VN/MAG	REVISED -	
PLOT SCALE = 100.000 ' / in.	CHECKED - MG	REVISED -	
PLOT DATE = 10/28/2025	DATE - 10/31/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY AND REMOVAL LIGHTING PLAN I–80 – PRESTAGE C

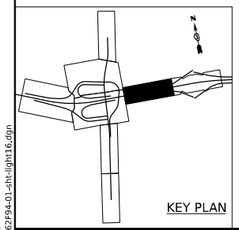
SCALE: 1"=50' | SHEET 3 OF 5 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	596
		CONTRACT NO. 62F94		
	ILLINOIS	FED. AID PROJECT		



NOTES:

1. SEE SHEET LT-01 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
2. EXISTING LIGHTING UNIT SHALL REMAIN OPERATIONAL DURING PRESTAGE C.



0 50 100 150
SCALE IN FEET

LT–16

MODEL: Default
FILE NAME: D162F94-01-sht-light16.dgn

SINGH
SINGH + ASSOCIATES, INC.
CONSULTING ENGINEERS

USER NAME = mgarvida	DESIGNED - VG	REVISED -	
	DRAWN - VN/MAG	REVISED -	
PLOT SCALE = 100.000 ' / in.	CHECKED - MG	REVISED -	
PLOT DATE = 10/28/2025	DATE - 10/31/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

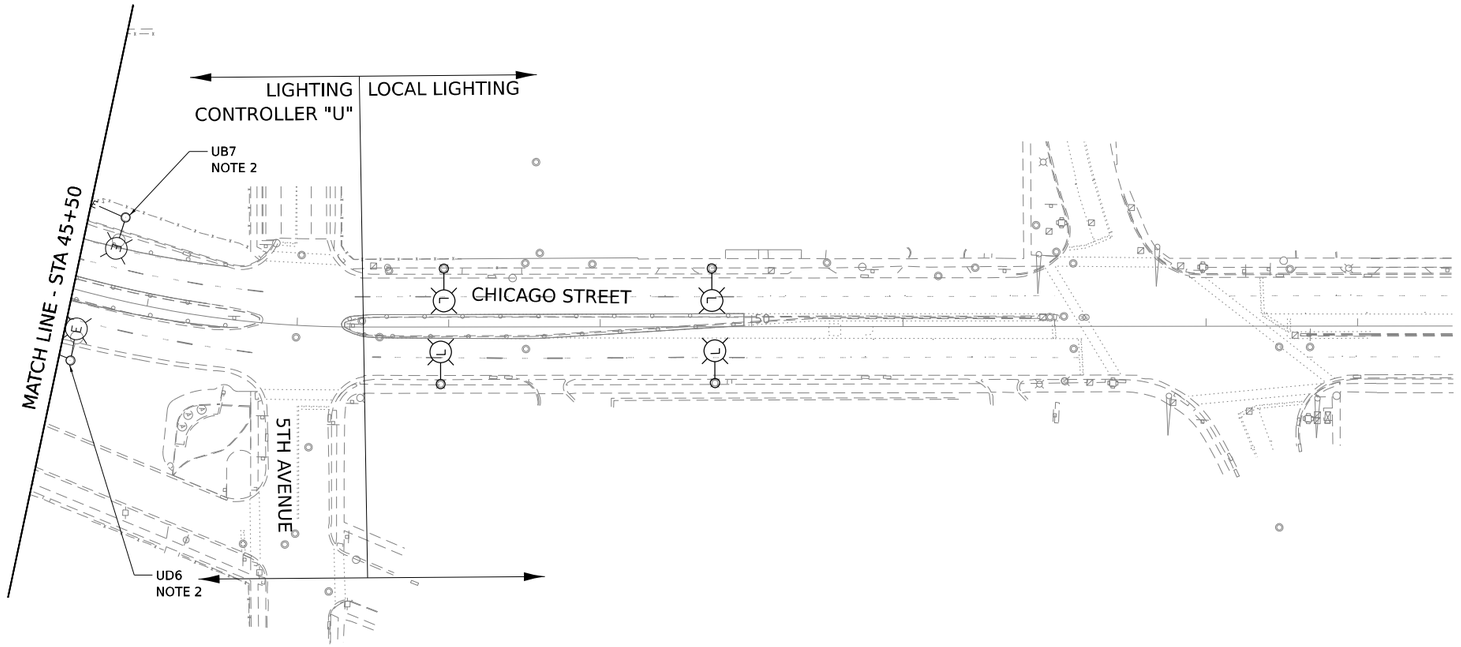
TEMPORARY AND REMOVAL LIGHTING PLAN I–80 – PRESTAGE C

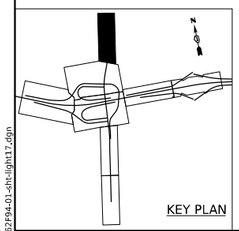
SCALE: 1"=50' | SHEET 4 OF 5 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	597
		CONTRACT NO. 62F94		
	ILLINOIS	FED. AID PROJECT		

NOTES:

1. SEE SHEET LT-01 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
2. EXISTING LIGHTING UNIT SHALL REMAIN OPERATIONAL DURING PRESTAGE C.





0 50 100 150
SCALE IN FEET

LT–17

MODEL: Default
FILE NAME: D162F94-01-4th-light17.dgn

SINGH + ASSOCIATES, INC.
CONSULTING ENGINEERS

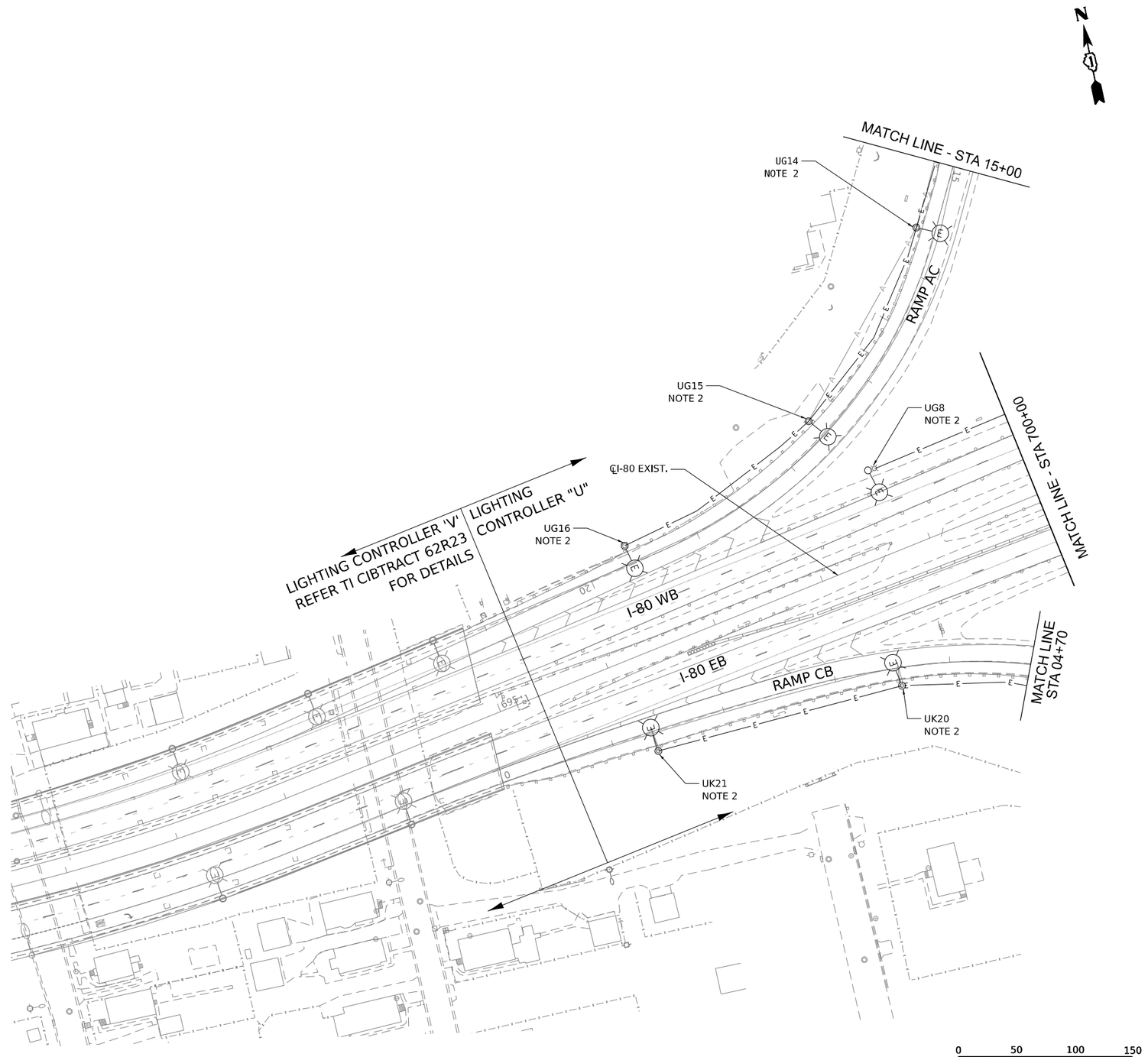
USER NAME = mgarvida	DESIGNED - VG	REVISED -	
	DRAWN - VN/MAG	REVISED -	
PLOT SCALE = 100.000 ' / in.	CHECKED - MG	REVISED -	
PLOT DATE = 10/28/2025	DATE - 10/31/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY AND REMOVAL LIGHTING PLAN CHICAGO ST. – PRESTAGE C

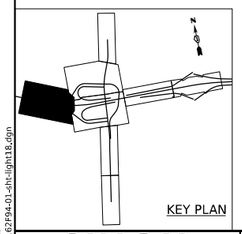
SCALE: 1"=50' | SHEET 5 OF 5 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	598
		CONTRACT NO. 62F94		
	ILLINOIS	FED. AID PROJECT		



NOTES:

1. SEE SHEET LT-01 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
2. EXISTING LIGHTING UNIT SHALL REMAIN OPERATIONAL DURING STAGE 2A.
3. WIRE AND CONDUIT SHOWN TO BE REMOVED SHALL BE ABANDONED IN PLACE UNLESS OTHERWISE SPECIFIED. CONTRACTOR MAY CHOOSE TO REMOVE WIRES FROM ABANDONED CONDUIT AT OWN EXPENSE.



KEY PLAN

LT–18

MODEL: Default
FILE NAME: D162F94-01-sht-light18.dgn

SINGH
SINGH + ASSOCIATES, INC.
CONSULTING ENGINEERS

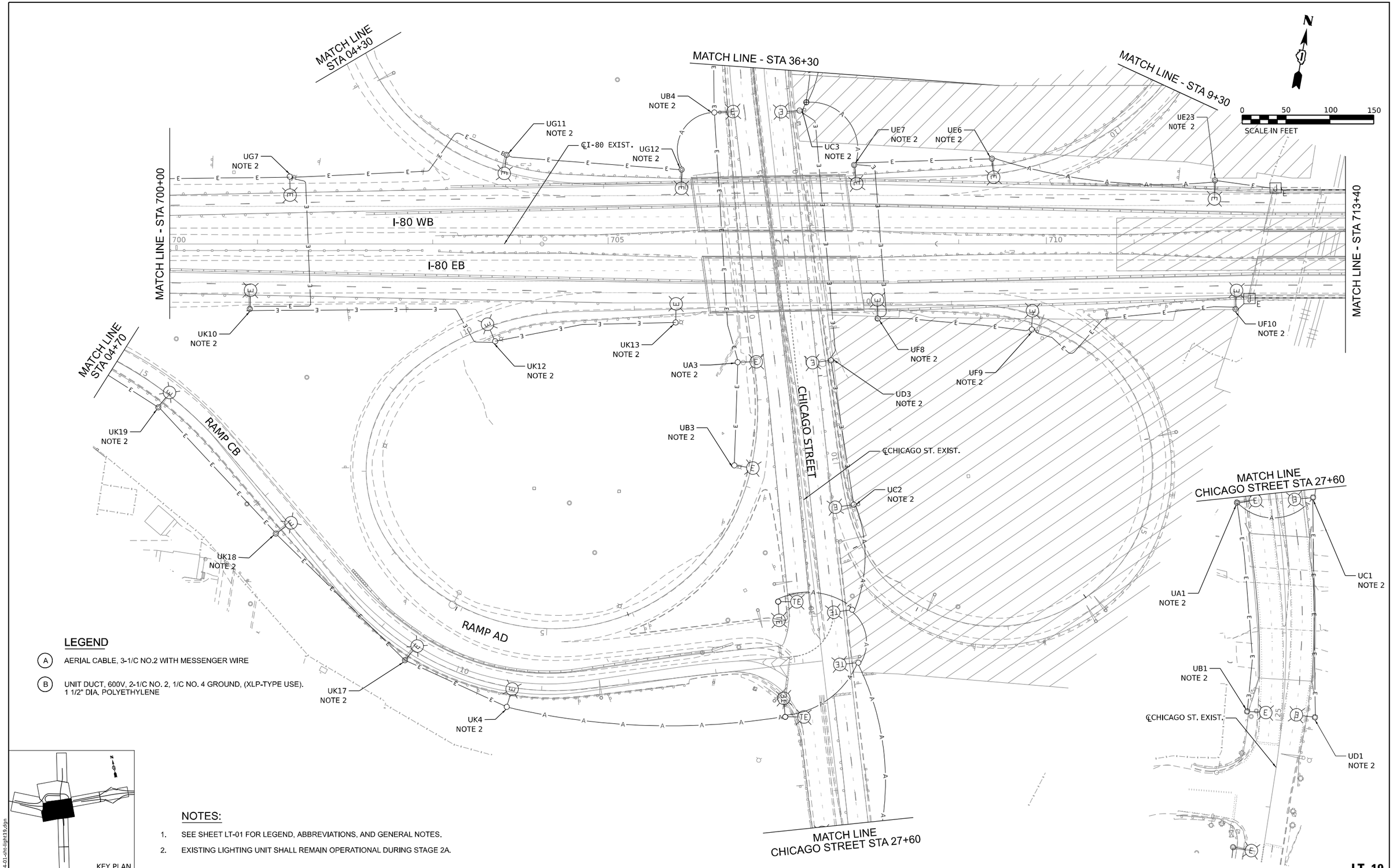
USER NAME = mgarvida	DESIGNED - VG	REVISED -	
	DRAWN - VN/MAG	REVISED -	
PLOT SCALE = 100.000 ' / in.	CHECKED - MG	REVISED -	
PLOT DATE = 10/28/2025	DATE - 10/31/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY AND REMOVAL LIGHTING PLAN I–80 – STAGE 2A

SCALE: 1"=50' | SHEET 1 OF 5 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	599
		CONTRACT NO. 62F94		
	ILLINOIS	FED. AID PROJECT		



LEGEND

(A) AERIAL CABLE, 3-1/C NO.2 WITH MESSENGER WIRE

(B) UNIT DUCT, 600V, 2-1/C NO. 2, 1/C NO. 4 GROUND, (XLP-TYPE USE). 1 1/2" DIA. POLYETHYLENE

KEY PLAN

NOTES:

1. SEE SHEET LT-01 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
2. EXISTING LIGHTING UNIT SHALL REMAIN OPERATIONAL DURING STAGE 2A.

LT–19

MODEL: Default
FILE NAME: D:\62F94-01-sht-light19.dgn

SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS

USER NAME = mgarvida	DESIGNED - VG	REVISED -	
	DRAWN - VN/MAG	REVISED -	
PLOT SCALE = 100.000 ' / in.	CHECKED - MG	REVISED -	
PLOT DATE = 10/28/2025	DATE - 10/31/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY AND REMOVAL LIGHTING PLAN I–80 – STAGE 2A

SCALE: 1"=50' | SHEET 2 OF 5 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2017-057F	WILL	1342	600
		CONTRACT NO. 62F94		
	ILLINOIS FED. AID PROJECT			