

SOUTH
INTERSTATE 55
 STA. 1005+00
 M3-3 (INTERSTATE) (36" X 18")
 M1-1 (INTERSTATE) (36" X 36")
 W/ METAL POST-TYPE B

EXIT 244
Arsenal Rd ↗

EXIT 50
 M.P.H.

EXIT 244 ↗

ADVANCE SIGNAGE

EXIT 244
Arsenal Rd
 1/2 MILE

GROUND MOUND (180" X 108")
 W/ STRUCTURAL STEEL SIGN SUPPORT-BREAKAWAY
 N 1,718,887.64 E 1,022,914.86

EXIT 244
Arsenal Rd
 1 MILE

GROUND MOUND (180" X 108")
 W/ STRUCTURAL STEEL SIGN SUPPORT-BREAKAWAY
 N 1,716,137.12 E 1,022,954.98

EXIT 244
Arsenal Rd
 2 MILES

GROUND MOUND (180" X 108")
 W/ STRUCTURAL STEEL SIGN SUPPORT-BREAKAWAY
 N 1,710,812.18 E 1,023,076.85

Abraham Lincoln National Cemetery
EXIT 244

(ABOUT 500' SOUTH OF ARSENAL Rd 1/2 MILE ADVANCE SIGN)
 GROUND MOUND (168" X 90")
 W/ STRUCTURAL STEEL SIGN SUPPORT-BREAKAWAY

ACCIDENT INVESTIGATION SITE
EXIT 244

(ABOUT 1000' SOUTH OF ARSENAL Rd 1/2 MILE ADVANCE SIGN)
 GROUND MOUND (120" X 72")
 W/ STRUCTURAL STEEL SIGN SUPPORT-BREAKAWAY

McDonough Associates Inc.
 Engineers / Architects
 130 East Randolph Street, Chicago, Illinois 60601

FILE NAME = D160F12-SHT-SIGN05.dgn

USER NAME = TKluegel
 PLOT SCALE = 1:100
 PLOT DATE = 3/8/2011

DESIGNED - ---
 DRAWN - ---
 CHECKED - ---
 DATE - 2/4/11

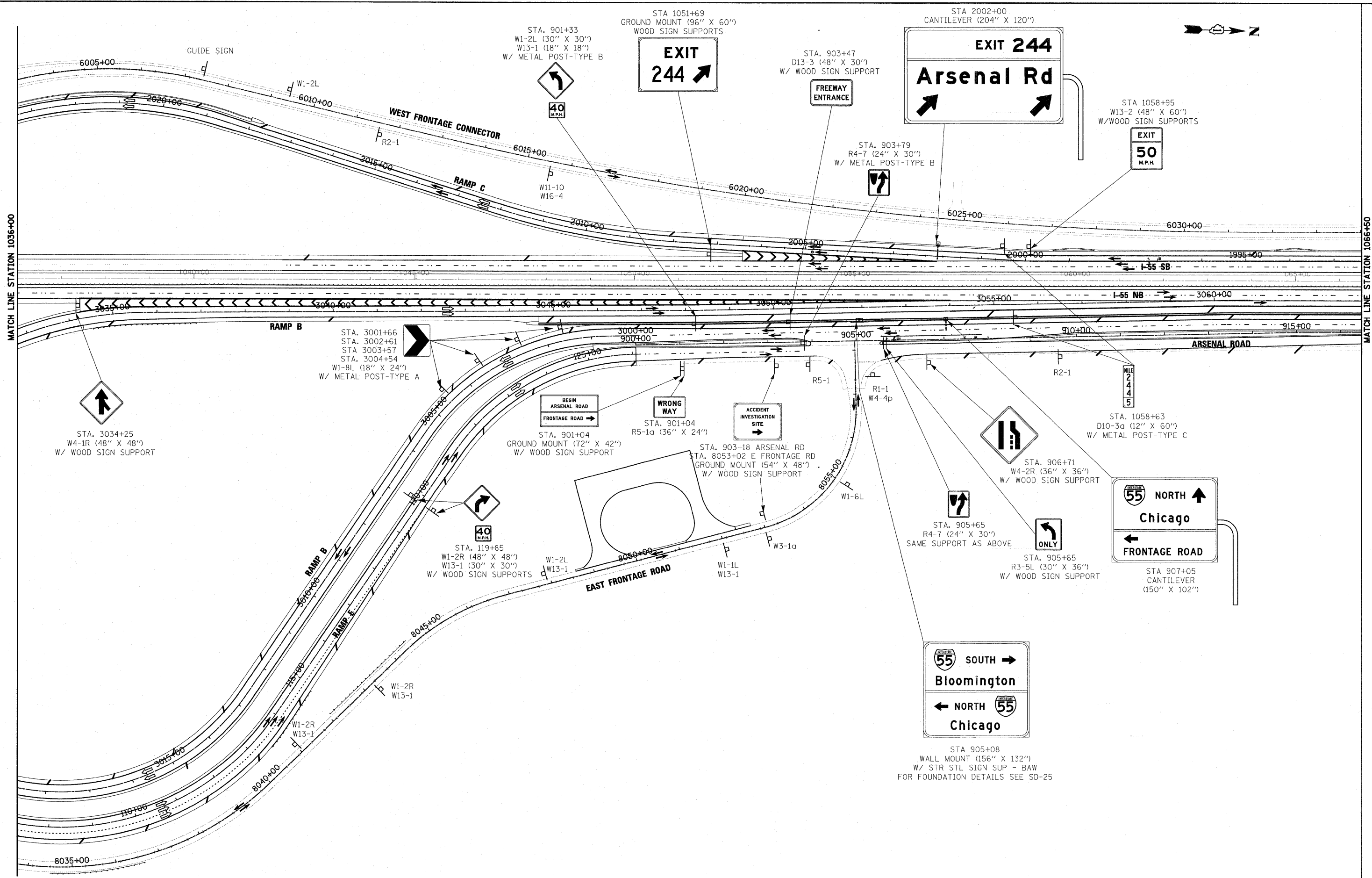
REVISED - ---
 REVISED - ---
 REVISED - ---
 REVISED - ---

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED SIGNING PLAN

SCALE: 1"=100' SHEET NO. 5 OF 8 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-2B-1	WILL	756	301
				CONTRACT NO. 60F12
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



FILE NAME = D:\60F12-SHT-SIGN06.dgn
 USER NAME = TKLuegel
 PLOT SCALE = 1:120
 PLOT DATE = 3/8/2011

DESIGNED -	---	REVISED -	---
DRAWN -	---	REVISED -	---
CHECKED -	---	REVISED -	---
DATE -	2/4/11	REVISED -	---

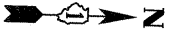
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PROPOSED SIGNING PLAN

SCALE: 1"=100' SHEET NO. 6 OF 8 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-2B-1	WILL	756	302
CONTRACT NO. 60F12			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	

McDonough Associates Inc.
 Engineers / Architects
 130 East Randolph Street, Chicago, Illinois 60601



STA 1086+26
CANTILEVER
(180" X 108")

EXIT 244
Arsenal Rd
1/2 MILE

STA 1091+26
GROUND MOUNT (168" X 90")
W/ STR STL SIGN SUP - BAW

**Abraham Lincoln
National
Cemetery**
EXIT 244

STA 1096+28
GROUND MOUNT (120" X 72")
W/ STR STL SIGN SUP - BAW

**ACCIDENT
INVESTIGATION
SITE**
EXIT 244

STA. 1075+00
R3-8 (48" X 48")



STA. 1079+46
R2-4a (48" X 72")
W/ WOOD SIGN SUPPORT

**SPEED
LIMIT**
65
MINIMUM
45

STA. 919+00
W4-2R (48" X 48")
W/ WOOD SIGN SUPPORT
(PLACED AT BACK OF RETAINING
WALL ALONG RAMP B)



STA. 1085+03
D10-3a (12" X 60")
W/ METAL POST-TYPE C

MILE
2
4
5
0

M4-5 (INTERSTATE)
M3-3 (INTERSTATE)
M1-1 (INTERSTATE)
M6-3 (INTERSTATE)

R1-1

WEST FRONTAGE CONNECTOR

MATCH LINE STATION 1066+50

MATCH LINE STATION 1097+00

6035+00 6040+00 6045+00 6050+00 6055+00 6060+00

1990+00 1015+00 1020+00 1025+00 1030+00 1035+00 1040+00 1045+00 1050+00

920+00 925+00 930+00 935+00 940+00 945+00

**FRONTAGE ROAD
NEXT LEFT**

STA. 919+37
GROUND MOUNT (54" X 24")
W/ WOOD SIGN SUPPORT

STA. 1085+03
D10-3a (12" X 60")
W/ METAL POST-TYPE C

MILE
2
4
5
0

TO
NORTH
INTERSTATE
55
↑

STA. 935+13
M4-5 (INTERSTATE) (24" X 12")
M3-1 (INTERSTATE) (24" X 12")
M1-1 (INTERSTATE) (24" X 24")
M6-3 (INTERSTATE) (21" X 15")
W/ METAL POST-TYPE B



STA. 1089+98
M3-1 (INTERSTATE) (36" X 18")
M1-1 (INTERSTATE) (36" X 36")
W/ METAL POST-TYPE B

McDonough Associates Inc.
Engineers / Architects
130 East Randolph Street Chicago, Illinois 60601

FILE NAME =	USER NAME = TKluegel
D160F12-SHT-SIGN07.dgn	
PLOT SCALE = 1:100	
PLOT DATE = 3/8/2011	

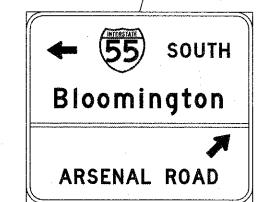
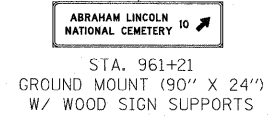
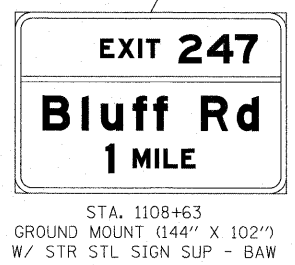
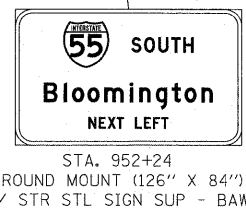
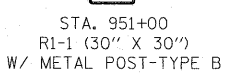
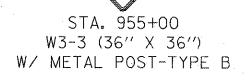
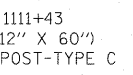
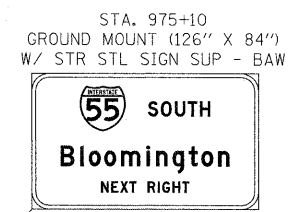
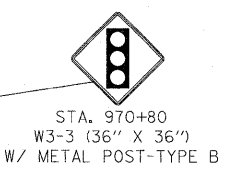
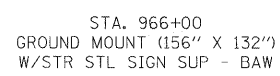
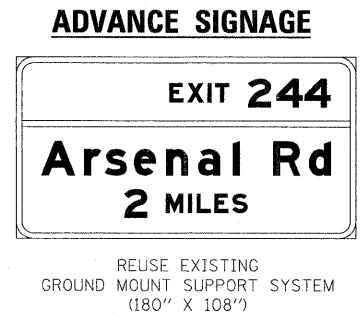
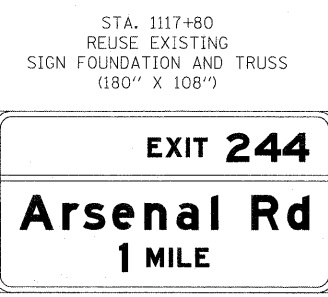
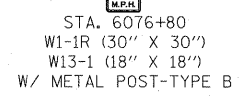
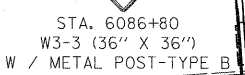
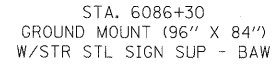
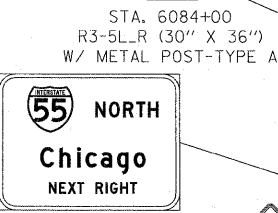
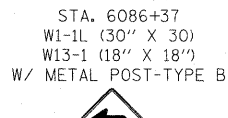
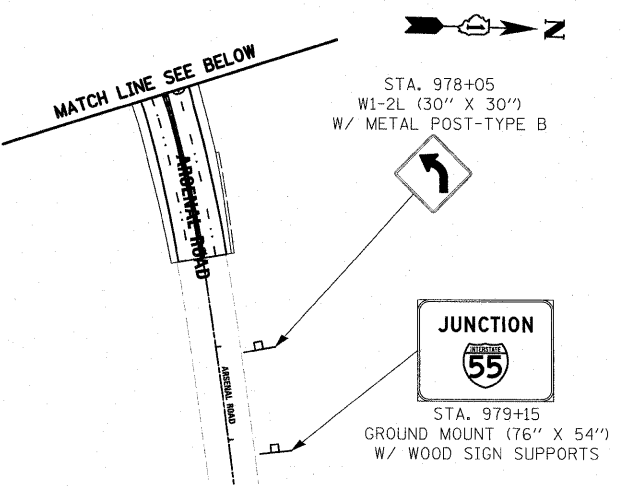
DESIGNED -	---	REVISED -	---
DRAWN -	---	REVISED -	---
CHECKED -	---	REVISED -	---
DATE -	2/4/11	REVISED -	---

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PROPOSED SIGNING PLAN

SCALE: 1"=100' SHEET NO. 7 OF 8 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-2B-1	WILL	756	303
CONTRACT NO. 60F12				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



MATCH LINE STATION 1097+00

MATCH LINE SEE ABOVE

McDonough Associates Inc.
Engineers / Architects
130 East Randolph Street Chicago, Illinois 60601

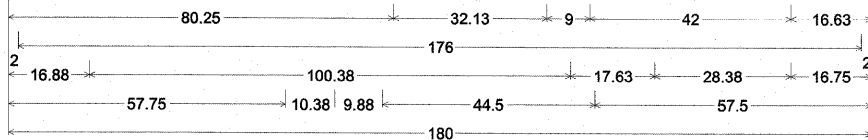
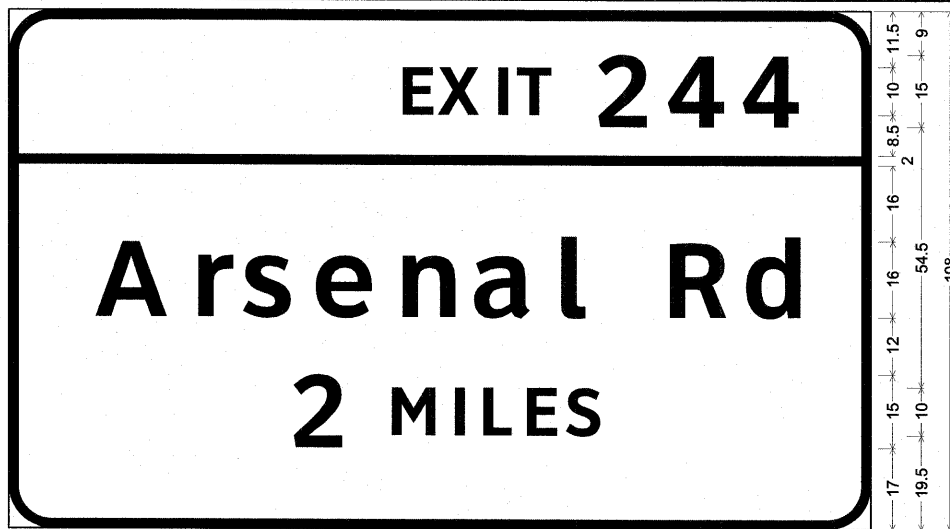
FILE NAME =	USER NAME = TKluegel	DESIGNED -	---	REVISED -	---
D160F12-SHT-SIGN08.dgn		DRAWN -	---	REVISED -	---
		CHECKED -	---	REVISED -	---
		DATE -	2/4/11	REVISED -	---

PLOT SCALE = 1:100					
PLOT DATE = 3/8/2011					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED SIGNING PLAN
SCALE: 1"=100' SHEET NO. 8 OF 8 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-2B-1	WILL	756	304
CONTRACT NO. 60F12			ILLINOIS FED. AID PROJECT	



9.00" Radius, 2.00" Border, White on Green;
 [] ClearviewHwy-5-W; [] ClearviewHwy-5-W; [EXIT 244] ClearviewHwy-5-W; [Arsenal Rd] ClearviewHwy-5-W;
 [2 MILES] ClearviewHwy-5-W;
 Table of widths and spaces.

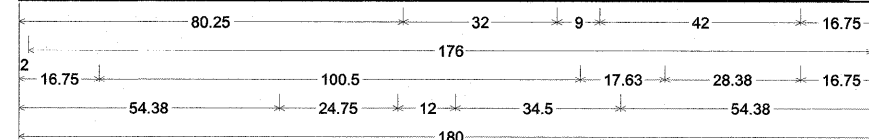
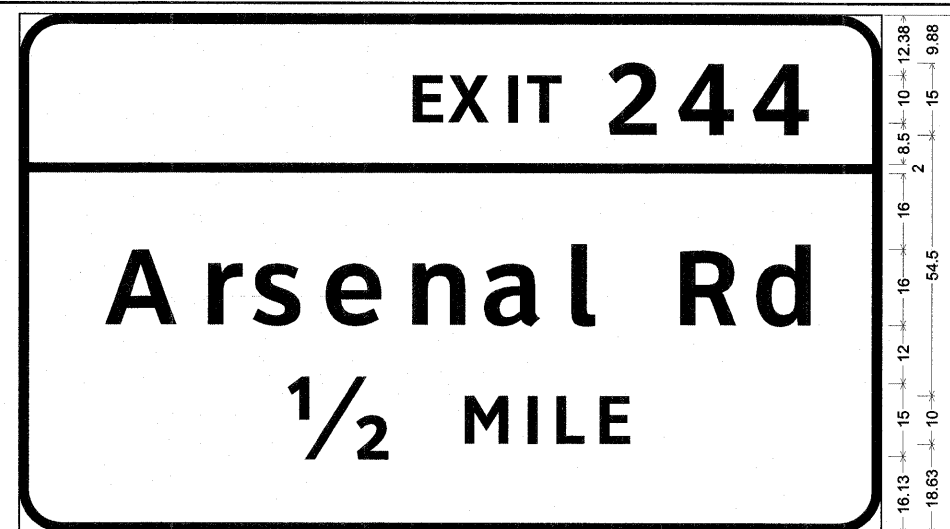
80.25	E	6.38	2.25	X	8.63	2.75	I	1.88	3.00	T	7.25	9.00	2	10.38	4.13	4	11.88	3.75	4	11.75	16.75
-------	---	------	------	---	------	------	---	------	------	---	------	------	---	-------	------	---	-------	------	---	-------	-------

2.00	176.00	2.00
------	--------	------

16.88	A	15.00	4.50	r	7.38	3.38	s	10.25	4.50	e	11.75	5.38	n	11.13	5.13	a	11.88	5.13	l	5.00	17.63	R	12.00	4.88	d	11.50	16.75
-------	---	-------	------	---	------	------	---	-------	------	---	-------	------	---	-------	------	---	-------	------	---	------	-------	---	-------	------	---	-------	-------

57.75	2	10.38	9.88	M	9.25	4.00	I	1.88	4.00	L	5.88	3.25	E	6.25	2.75	S	7.13	57.63
-------	---	-------	------	---	------	------	---	------	------	---	------	------	---	------	------	---	------	-------

- NOTE:
1. THE FINAL MOUNTING LOCATION OF SIGNS (OFFSET FROM EDGE OF PAVEMENT AND HEIGHT ABOVE PAVEMENT) SHALL BE DETERMINED BY THE ENGINEER. THE SIGNING QUANTITIES ARE ESTIMATES ONLY AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR ONCE THE FINAL SIGN LOCATIONS HAVE BEEN DETERMINED.
 2. USE CLEARVIEW FONT ON ALL TYPE 3 GUIDE SIGNS.
 3. ON TYPE 3 OVERHEAD GUIDE SIGNS LIGHT FIXTURES WILL NOT BE INSTALLED.



9.00" Radius, 2.00" Border, White on Green;
 [] ClearviewHwy-5-W; [] ClearviewHwy-5-W; [EXIT 244] ClearviewHwy-5-W; [Arsenal Rd] ClearviewHwy-5-W;
 [1/2 MILE] ClearviewHwy-5-W;
 Table of widths and spaces.

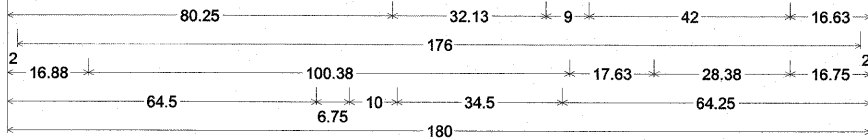
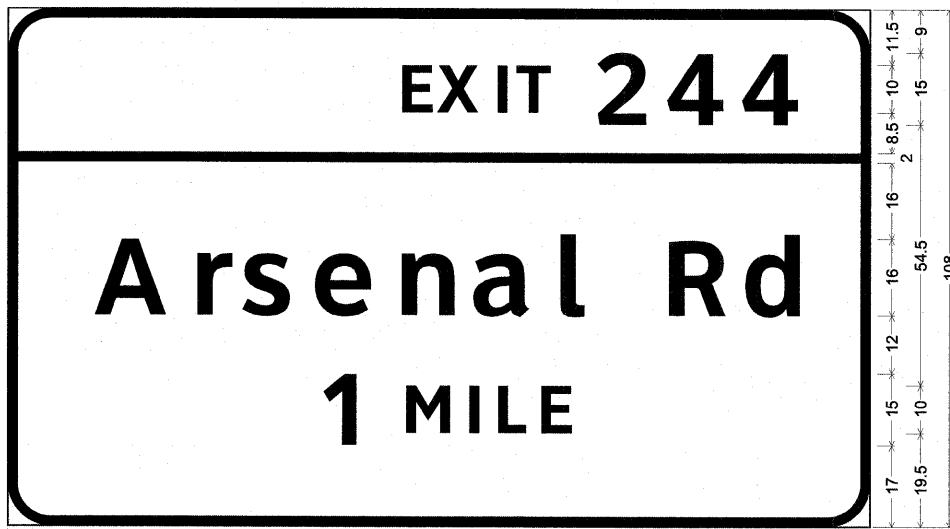
80.25	E	6.25	2.25	X	8.63	2.75	I	1.88	3.00	T	7.25	9.00	2	10.38	4.25	4	11.75	3.75	4	11.88	16.75
-------	---	------	------	---	------	------	---	------	------	---	------	------	---	-------	------	---	-------	------	---	-------	-------

2.00	176.00	2.00
------	--------	------

16.75	A	15.00	4.50	r	7.38	3.38	s	10.25	4.50	e	11.75	5.50	n	11.13	5.00	a	12.00	5.00	l	5.13	17.63	R	12.00	4.75	d	11.63	16.75
-------	---	-------	------	---	------	------	---	-------	------	---	-------	------	---	-------	------	---	-------	------	---	------	-------	---	-------	------	---	-------	-------

54.38	1/2	24.75	12.00	M	9.13	4.00	I	1.88	4.13	L	5.75	3.25	E	6.38	54.38
-------	-----	-------	-------	---	------	------	---	------	------	---	------	------	---	------	-------

NORTH BOUND I-55 ADVANCE SIGN (GROUND MOUNT)
 SOUTH BOUND I-55 - STA 1086+26 (CANTILEVER)



9.00" Radius, 2.00" Border, White on Green;
 [] ClearviewHwy-5-W; [] ClearviewHwy-5-W; [EXIT 244] ClearviewHwy-5-W; [Arsenal Rd] ClearviewHwy-5-W;
 [1 MILE] ClearviewHwy-5-W;
 Table of widths and spaces.

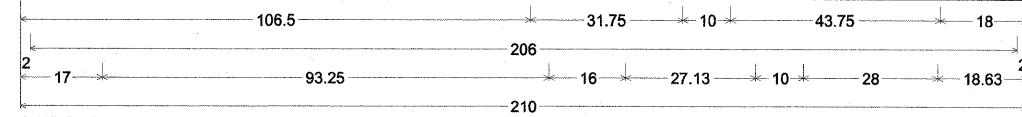
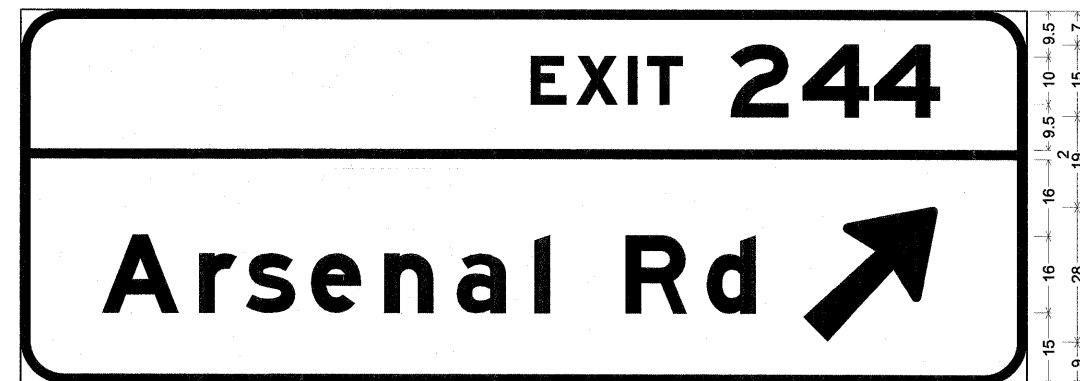
80.25	E	6.38	2.25	X	8.63	2.75	I	1.88	3.00	T	7.25	9.00	2	10.38	4.13	4	11.88	3.75	4	11.75	16.75
-------	---	------	------	---	------	------	---	------	------	---	------	------	---	-------	------	---	-------	------	---	-------	-------

2.00	176.00	2.00
------	--------	------

16.88	A	15.00	4.50	r	7.38	3.38	s	10.25	4.50	e	11.75	5.38	n	11.13	5.13	a	11.88	5.13	l	5.00	17.63	R	12.00	4.88	d	11.50	16.75
-------	---	-------	------	---	------	------	---	-------	------	---	-------	------	---	-------	------	---	-------	------	---	------	-------	---	-------	------	---	-------	-------

64.50	1	6.75	10.00	M	9.25	3.88	2.00	4.00	L	5.88	3.13	E	6.38	64.25
-------	---	------	-------	---	------	------	------	------	---	------	------	---	------	-------

NORTH BOUND I-55 ADVANCE SIGN (GROUND MOUNT)
 SOUTH BOUND I-55 STA 1117+80 (REUSE EX CANTILEVER TRUSS)



9.00" Radius, 2.00" Border, White on Green;
 [] Clearview; [] Clearview; [] Clearview; [EXIT 244] Clearview; [Arsenal Rd] Clearview; Arrow Custom - 35.63° 45°;
 Table of widths and spaces.

106.50	E	7.38	2.13	X	8.63	2.13	I	2.00	2.00	T	7.50	10.00	2	11.88	3.13	4	13.75	1.13	4	13.75	18.13
--------	---	------	------	---	------	------	---	------	------	---	------	-------	---	-------	------	---	-------	------	---	-------	-------

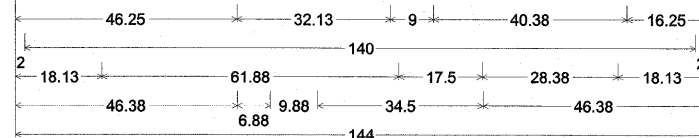
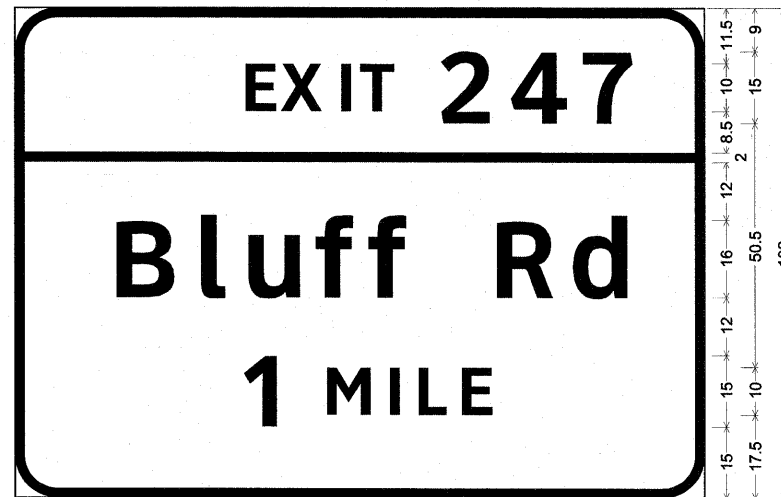
2.00	206.00	2.00
------	--------	------

17.00	A	16.00	4.25	r	7.88	2.00	s	10.13	3.50	e	10.13	5.00	n	10.25	4.88	a	10.13	6.13	l	3.00	16.00	R	12.75	4.13	d	10.25	10.00	28.00	18.63
-------	---	-------	------	---	------	------	---	-------	------	---	-------	------	---	-------	------	---	-------	------	---	------	-------	---	-------	------	---	-------	-------	-------	-------

NORTH BOUND I-55 - STA 7002+81.4 CANTILEVER

FILE NAME =	USER NAME = TKLuegel	DESIGNED - JTF	REVISED -
D:\60F12-SHT-SIGNDETAIL01.dgn		DRAWN - JTF	REVISED -
PLOT SCALE = 1:1		CHECKED - DLT	REVISED -
PLOT DATE = 3/8/2011		DATE - 2/4/11	REVISED -

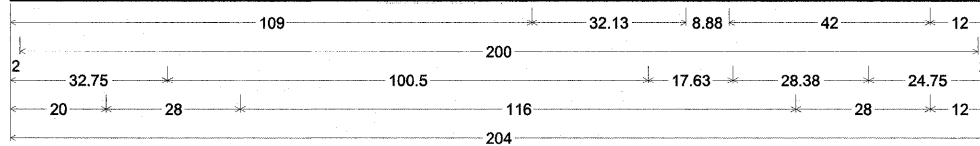
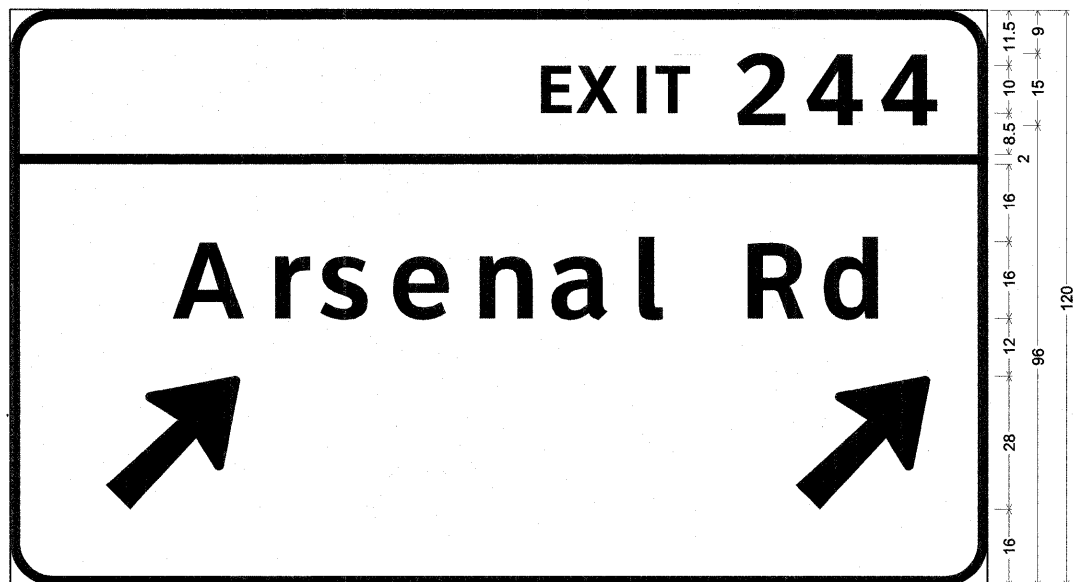
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-2B-1	WILL	756	305
CONTRACT NO. 60F12			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	



9.00" Radius, 2.00" Border, White on Green;
 [] E Mod; [EXIT 247] ClearviewHwy-5-W; [Bluff Rd] ClearviewHwy-5-W;
 [1 MILE] ClearviewHwy-5-W;
 Table of widths and spaces.

46.25	E	6.38	2.13	X	8.63	2.75	I	2.00	3.00	T	7.25	8.88	2	10.38	4.25	4	11.75	3.50	7	10.63	16.25	
2.00		140.00	2.00																			
18.13	B	12.25	5.38	l	5.00	4.88	u	10.88	4.75	f	7.75	3.25	f	7.75	17.50	R	12.00	4.75	d	11.63	18.13	
46.38	1	6.88	9.88	M	9.25	3.88	i	2.00	4.00	L	5.88	3.13	E	6.38	46.38							

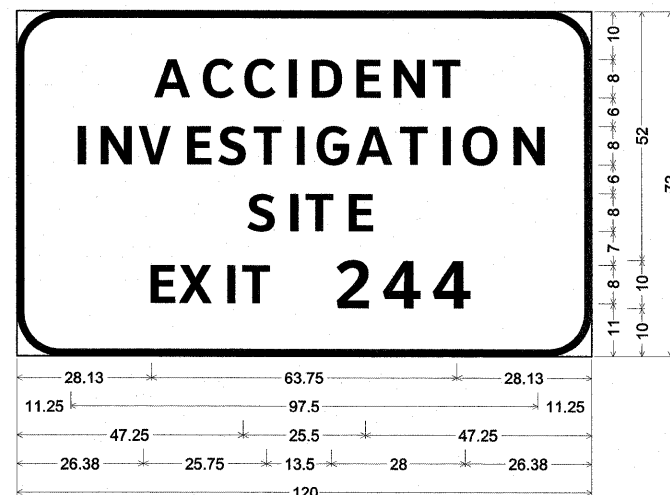
**NORTH BOUND I-55 - STA 1108+63
GROUND MOUNT**



9.00" Radius, 2.00" Border, White on Green;
 [EXIT 244] ClearviewHwy-5-W; [Arsenal Rd] ClearviewHwy-5-W; Arrow Custom - 35.63" 45"; Arrow Custom - 35.63" 45";
 Table of widths and spaces.

109.00	E	6.25	2.25	X	8.63	2.75	I	2.00	3.00	T	7.25	8.88	2	10.38	4.25	4	11.75	3.88	4	11.75	12.00				
2.00		200.00	2.00																						
32.75	A	15.00	4.50	r	7.38	3.38	s	10.25	4.50	e	11.75	5.50	n	11.13	5.00	a	12.00	5.00	l	5.13	17.63	12.00	4.75	11.63	24.75
20.00	2	28.00	116.00	28.00	12.00																				

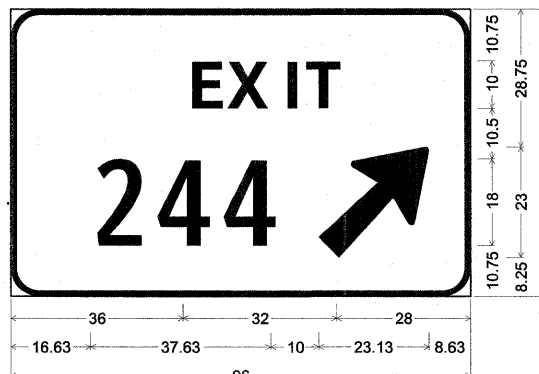
**SOUTH BOUND I-55/RAMP C - STA 2002+50
CANTILEVER**



9.00" Radius, 1.50" Border, White on Blue;
 [ACCIDENT] ClearviewHwy-5-W; [INVESTIGATION] ClearviewHwy-5-W;
 [SITE] ClearviewHwy-5-W; [EXIT 244] ClearviewHwy-5-W;
 Table of widths and spaces.

28.13	A	7.50	2.00	C	6.50	2.13	C	6.50	2.50	I	1.50	3.25	D	6.50	2.88	E	5.00	2.75	N	6.63	2.38	T	5.75	28.13													
11.25	I	1.50	3.25	N	6.50	2.38	V	6.75	2.38	E	5.00	2.13	S	5.88	1.75	T	5.75	2.38	I	1.50	2.88	G	7.00	2.00	A	7.50	1.50	5.75	2.38	1.63	2.88	7.38	2.88	6.63	11.25		
47.25	S	5.75	2.63	I	1.50	2.38	T	5.75	2.50	E	5.00	47.25																									
26.38	E	5.13	1.75	X	6.88	2.25	I	1.50	2.38	T	5.75																										
13.63	2	6.88	2.88	4	7.75	2.63	4	7.75	26.50																												

**SOUTH BOUND I-55 - STA 1096+28
NORTH BOUND I-55 - ADVANCE SIGNING
GROUND MOUNT**



6.00" Radius, 1.25" Border, White on Green;
 [EXIT] ClearviewHwy-5-W; [244] ClearviewHwy-2-W;
 Arrow Custom - 29.25" 45";
 Table of widths and spaces.

36.00	E	6.25	2.25	X	8.63	2.75	I	2.00	2.88	T	7.25	28.00
16.63	2	9.25	3.50	4	11.13	2.75	4	11.00	10.00	23.13	8.63	

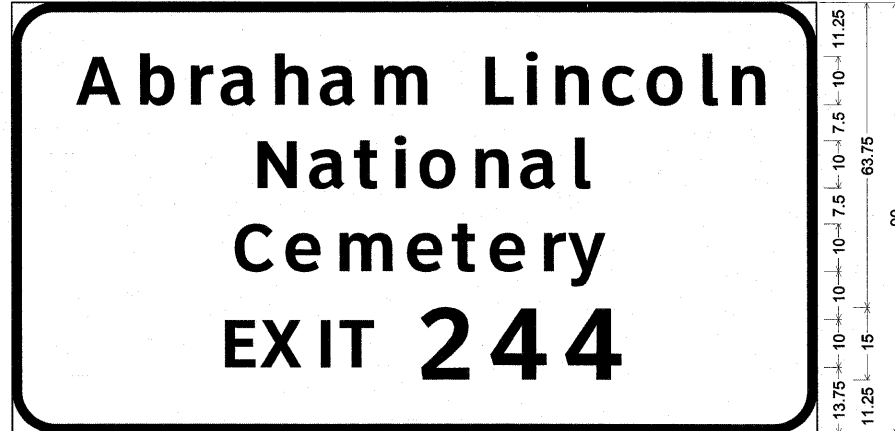
**NORTH BOUND I-55/RAMP A - STA 7007+49
SOUTH BOUND I-55/RAMP C - STA 1051+69
GROUND MOUNT**

FILE NAME = D:\6\F12-SHT-SIGNCETAIL02.dgn	USER NAME = TKluegel	DESIGNED - JTF	REVISED -
PLOT SCALE = 1:1	DATE = 2/4/11	DRAWN - JTF	REVISED -
PLOT DATE = 3/8/2011		CHECKED - DLT	REVISED -
		DATE - 2/4/11	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SIGN PANEL DETAILS	
SCALE: N.T.S.	SHEET NO. 1 OF 1 SHEETS
STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-2B-1	WILL	756	306
CONTRACT NO. 60F12			ILLINOIS FED. AID PROJECT	

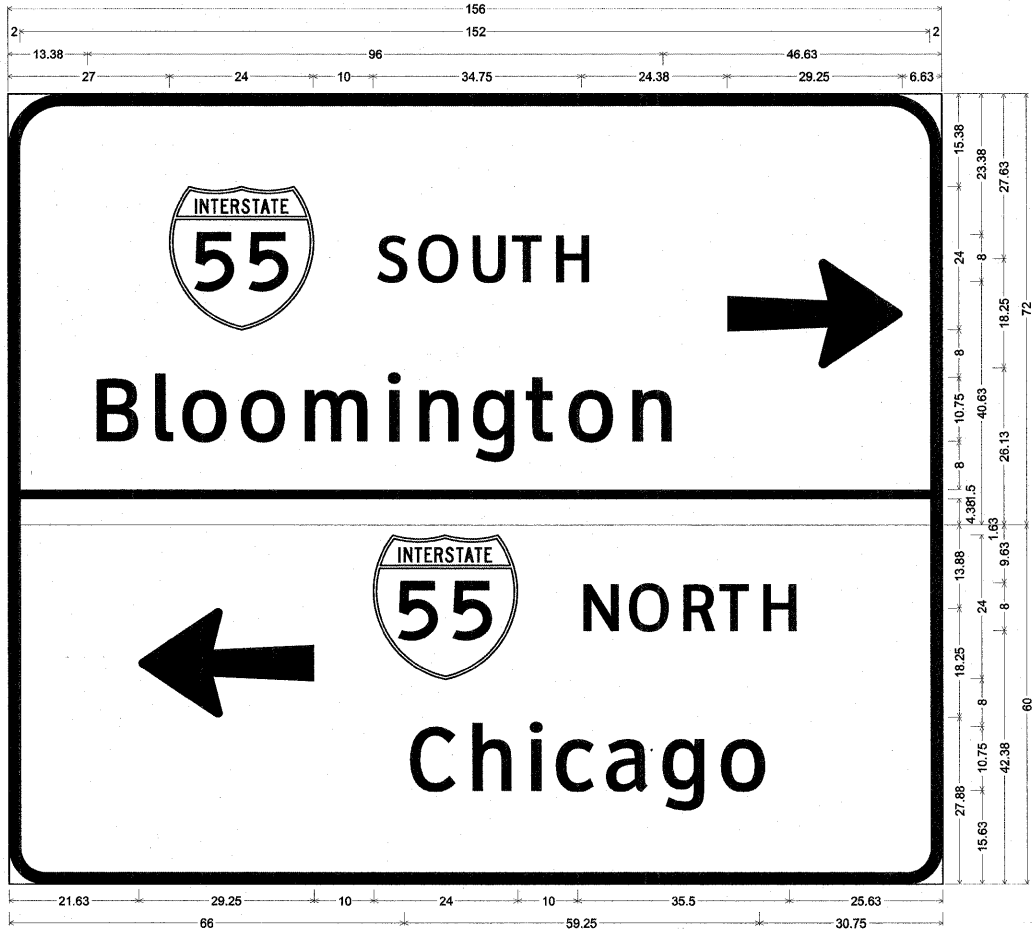


12.63	72.38	11.88	58.5	12.63
49.25	69.5	49.25		
44.88	78.25	44.88		
42.5	32.13	8.88	42	42.5
168				

9.00" Radius, 2.00" Border, White on Brown;
 [Abraham Lincoln] ClearviewHwy-5-W; [National] ClearviewHwy-5-W; [Cemetery] ClearviewHwy-5-W;
 [EXIT 244] ClearviewHwy-5-W;
 Table of widths and spaces.

12.63	A	9.38	b	2.88	7.25	3.38	r	4.50	2.38	a	7.38	3.25	h	6.88	3.13	a	7.50	3.13	m	11.38				
	L	5.75	2.88	i	2.38	3.63	n	6.88	3.38	c	6.75	2.50	o	7.75	3.38	l	3.25	3.00	n	6.88	12.63			
49.25	N	8.25	3.38	a	7.38	2.13	t	5.00	2.75	i	2.38	3.13	o	7.75	3.38	n	7.00	3.13	a	7.50	3.13	l	3.13	49.38
44.88	C	8.13	2.63	e	7.38	3.38	m	3.50	7.25	2.38	t	5.00	2.50	e	7.38	3.38	r	4.63	1.63	y	7.88	44.88		
42.50	E	6.38	2.13	X	8.63	2.75	I	2.00	3.00	T	7.25	8.88	2	10.38	4.25	4	11.75	3.88	4	11.75	42.50			

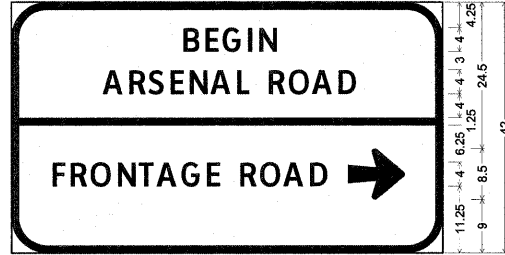
NORTH BOUND I-55 ADVANCE SIGN
SOUTH BOUND I-55 - STA 1091+26
GROUND MOUNT



9.00" Radius, 2.00" Border, White on Green;
 [SOUTH] ClearviewHwy-3-W; [Bloomington] ClearviewHwy-3-W; Arrow Custom - 29.25" 0";
 6.00" Radius, 2.00" Border, White on Green;
 Arrow Custom - 29.25" 180"; [NORTH] ClearviewHwy-3-W; [Chicago] ClearviewHwy-3-W;
 Table of widths and spaces.

27.00	24.00	10.00	S	5.13	1.63	6.63	2.13	U	5.38	1.75	5.00	1.75	H	5.38	24.38	29.25	6.63						
13.38	7.13	2.63	2.88	2.00	7.38	2.38	7.38	2.88	11.13	2.75	2.38	2.88	6.63	2.75	7.00	2.25	4.63	2.13	7.38	2.88	6.63	46.50	
2.00	152.00	2.00																					
21.63	29.25	10.00	24.00	10.00	5.88	2.13	6.63	2.13	R	5.25	1.25	5.13	1.63	5.38	25.75								
66.00	7.63	2.38	6.63	2.88	2.25	2.50	6.50	1.88	7.25	2.25	7.00	2.75	7.38	30.75									

ARSENAL RD / EAST FRONTAGE RD - STA 905+08
WALL MOUNT



28.25	15.5	28.25				
15	24.13	14.5	15			
6.38	27.88	3.38	14.5	4	9.5	6.38
72						

6.00" Radius, 1.25" Border, White on Green;
 [BEGIN] ClearviewHwy-3-W; [ARSENAL ROAD] ClearviewHwy-3-W;
 [FRONTAGE ROAD] ClearviewHwy-3-W; Arrow Custom - 9.50" 0";
 Table of widths and spaces.

28.25	B	2.63	1.00	E	2.25	0.75	G	3.00	1.13	I	0.63	1.25	N	2.88	28.25					
15.00	A	3.38	0.75	R	2.75	0.63	S	2.63	1.00	E	2.13	1.00	N	2.88	0.88	A	3.25	0.88	L	2.00
	R	3.25	2.75	0.75	O	3.38	0.63	A	3.38	0.88	D	2.75	15.13							
1.25	69.50	1.25																		
6.38	F	2.00	1.00	R	2.63	0.88	3.25	1.13	N	2.88	0.88	2.50	0.50	A	3.25	0.75	G	3.00	1.13	2.13
	R	3.38	2.63	0.88	3.25	0.75	3.25	0.88	D	2.88	4.00	9.50	6.25							

NORTH BOUND ARSENAL RD - STA 901+04
GROUND MOUNT



7	34	7
4.38	39.25	4.38
48		

3.75" Radius, 0.88" Border, 0.63" Indent, White on Green;
 [FREEWAY] ClearviewHwy-3-W specified length;
 [ENTRANCE] ClearviewHwy-3-W specified length;
 Table of widths and spaces.

7.00	F	3.13	0.75	R	4.00	0.75	E	3.38	0.75	E	3.25	0.63	W	0.50	A	5.00	0.38	Y	7.00
4.38	E	3.25	1.13	4.38	1.00	3.75	1.00	3.88	0.75	5.00	1.00	4.38	1.13	4.38	0.88	3.38	4.38		

SOUTH BOUND ARSENAL RD - STA 903+47
GROUND MOUNT

McDonough Associates Inc.
 Engineers / Architects
 130 East Randolph Street Chicago, Illinois 60601

FILE NAME = 0160F12-SHT-SIGNEDETAIL03.dgn	USER NAME = TKluegel	DESIGNED - JTF	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SIGN PANEL DETAILS			F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
PLOT SCALE = 1:1	CHECKED - DLT	DATE - 2/4/11	REVISED -		SCALE: N.T.S.	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	55	99-2HB-2B-1	WILL	756	307
PLOT DATE = 3/8/2011	DATE - 2/4/11	REVISED -	REVISED -					CONTRACT NO. 60F12		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			

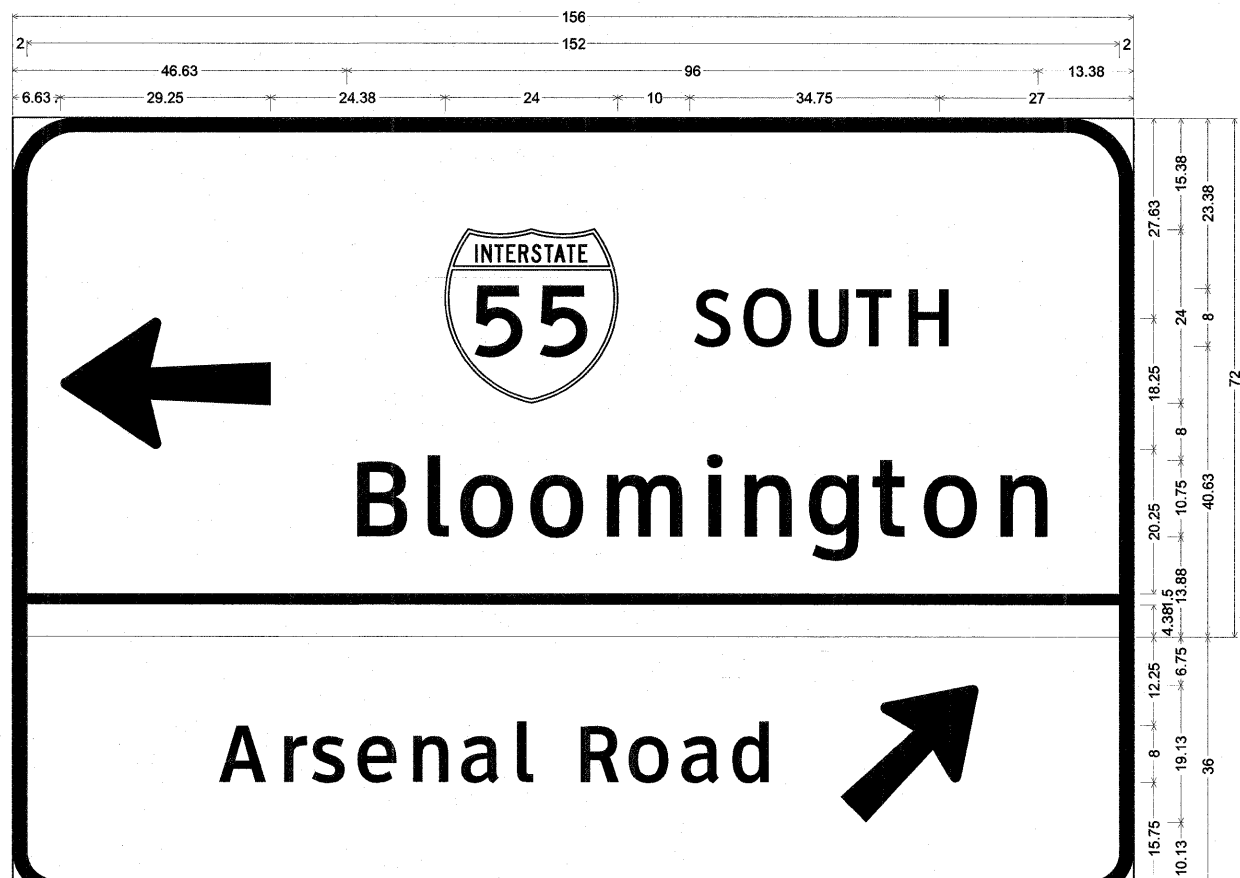


9.00" Radius, 2.00" Border, White on Green;
 Arrow Custom - 29.25" 90"; [NORTH] ClearviewHwy-3-W; [Chicago] ClearviewHwy-3-W;
 6.00" Radius, 2.00" Border, White on Green;
 Arrow Custom - 24.25" 180"; [FRONTAGE ROAD] ClearviewHwy-3-W;

Table of widths and spaces.

24.13	18.25	10.00	24.00	10.00	5.88	2.13	6.63	2.13	5.25	1.25	5.13	1.63	5.38	28.25												
57.50	7.63	2.38	6.63	2.88	2.25	2.50	6.50	1.88	7.25	2.25	7.00	2.75	7.38	33.25												
2.00	146.00	2.00																								
8.38	24.25	10.63	4.25	1.88	5.25	1.63	6.75	2.00	5.88	1.63	5.13	1.00	6.63	1.25	6.13	2.13	4.38	6.75	5.25	1.75	6.63	1.38	6.63	1.75	5.63	15.00

SOUTH BOUND ARSENAL RD - STA 907+05
CANTILEVER

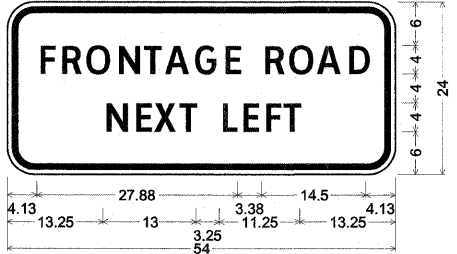


9.00" Radius, 2.00" Border, White on Green;
 Arrow Custom - 29.25" 180"; [SOUTH] ClearviewHwy-3-W; [Bloomington] ClearviewHwy-3-W;
 6.00" Radius, 2.00" Border, White on Green;
 [Arsenal Road] ClearviewHwy-3-W; Arrow Custom - 24.25" 45";

Table of widths and spaces.

6.63	29.25	24.38	24.00	10.00	5.13	1.63	6.63	2.13	5.38	1.75	5.00	1.75	5.38	27.00													
46.63	7.13	2.63	2.88	2.00	7.38	2.38	7.38	2.88	11.13	2.75	2.38	2.88	6.63	2.75	7.00	2.25	4.63	2.13	7.38	2.88	6.63	13.25					
2.00	152.00	2.00																									
28.25	6.63	1.63	3.25	1.25	4.63	1.63	5.38	2.00	5.00	2.00	5.38	2.13	2.25	6.63	5.25	1.63	5.63	1.75	5.38	1.75	5.13	10.63	19.25	21.50			

NORTH BOUND ARSENAL RD - STA 964+38
GROUND MOUNT



3.75" Radius, 0.88" Border, 0.63" Indent, White on Green;
 [FRONTAGE ROAD] ClearviewHwy-3-W;
 [NEXT LEFT] ClearviewHwy-3-W;

Table of widths and spaces.

4.13	2.00	1.00	2.63	0.88	3.25	1.13	2.88	0.88	2.50	0.50	3.25	0.75	3.00	1.13	2.13
3.38	2.63	0.88	3.25	0.75	3.25	0.88	2.88	4.00							
13.25	3.00	1.13	2.25	0.63	3.00	0.50	2.50								
3.25	2.00	0.88	2.13	1.00	2.13	0.50	2.63	13.25							

ARSENAL RD - STA 919+37
GROUND MOUNT

McDonough Associates Inc.
 Engineers / Architects
 730 East Randolph Street, Chicago, Illinois 60601

FILE NAME = D:\60F12-SHT-SIGNDETAIL\04.dgn	USER NAME = TKluegel	DESIGNED - JTF	REVISED -
		DRAWN - JTF	REVISED -
		CHECKED - DLT	REVISED -
		DATE - 2/4/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGN PANEL DETAILS	
SCALE: N.T.S.	SHEET NO. 1 OF 1 SHEETS
STA.	TO STA.

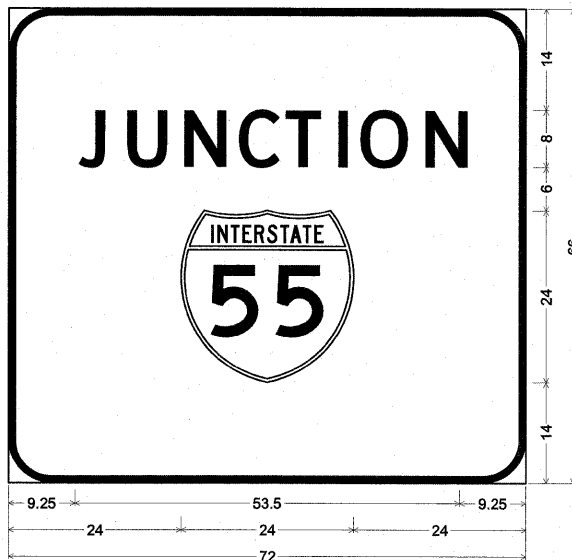
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-2B-1	WILL	756	308
CONTRACT NO. 60F12			ILLINOIS FED. AID PROJECT	



9.00" Radius, 2.00" Border, White on Green;
 [NORTH] ClearviewHwy-3-W; [Chicago] ClearviewHwy-3-W; Arrow Custom - 29.25" 0°;
 6.00" Radius, 2.00" Border, White on Green;
 Arrow Custom - 24.25" 180°; [Arsenal Road] ClearviewHwy-3-W; Arrow Custom - 24.25" 0°;
 Table of widths and spaces.

25.63	N	5.88	2.13	O	6.63	2.13	R	5.25	1.25	T	5.13	1.63	H	5.38	10.00	24.00	10.00	29.25	21.75											
30.75	C	7.63	2.38	h	6.63	2.88	i	2.25	2.50	c	6.50	1.88	a	7.25	2.25	g	7.00	2.75	7.38	66.00										
2.00	152.00	2.00																												
7.63	24.25	8.00	A	6.63	r	3.25	1.25	s	4.63	1.63	e	5.25	2.13	5.00	2.00	a	5.38	2.00	2.25	6.63	5.38	1.63	5.50	1.75	5.38	1.75	5.25	8.00	24.25	7.63

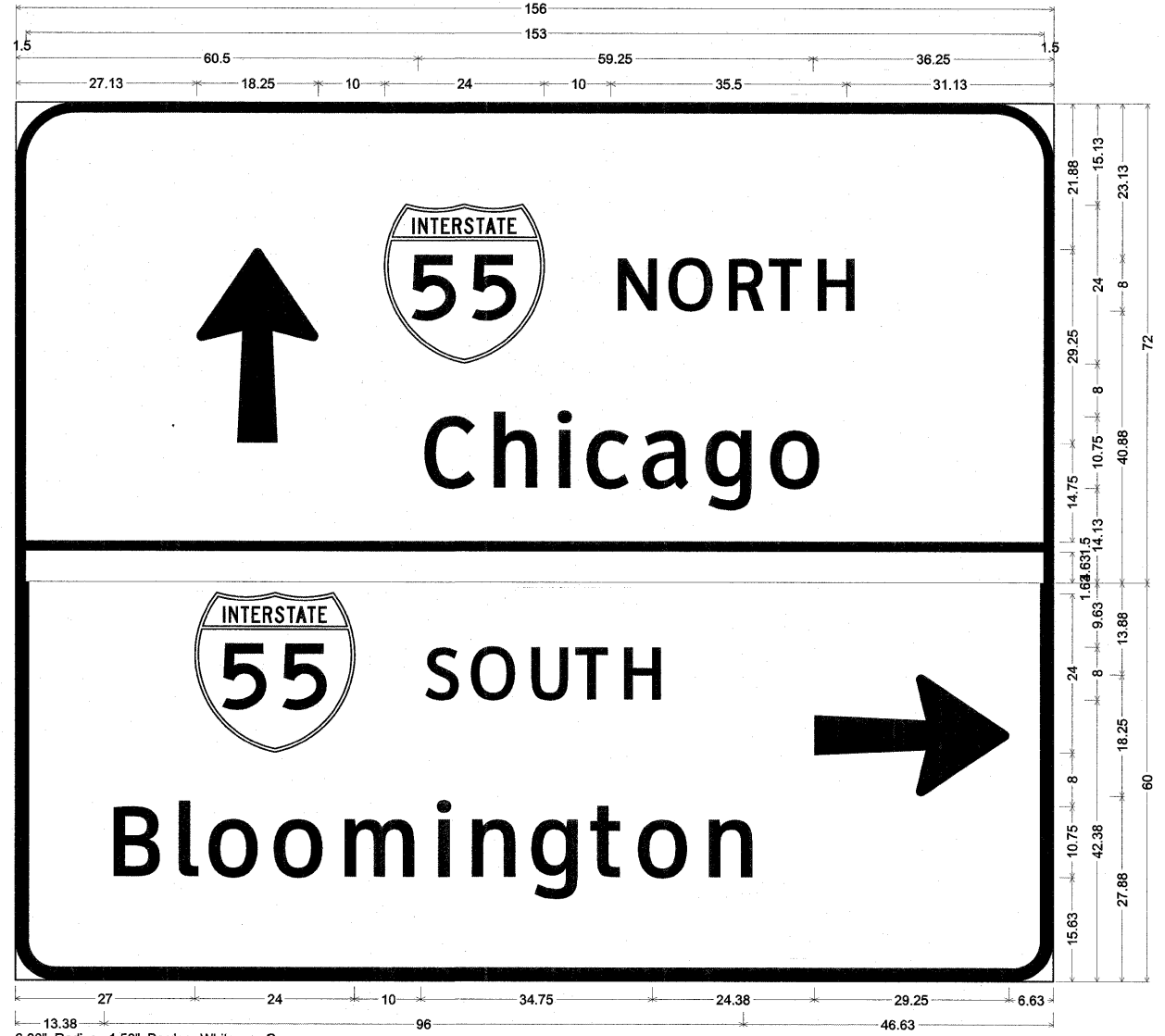
ARSENAL RD / WEST FRONTAGE CONNECTOR - STA 965+52
GROUND MOUNT



SOUTH BOUND ARSENAL RD - STA 979+15
GROUND MOUNT

6.00" Radius, 1.00" Border, White on Green;
 [JUNCTION] ClearviewHwy-3-W;
 Table of widths and spaces.

9.25	J	3.75	2.38	U	5.50	2.50	N	5.75	2.13	C	5.75	1.00	T	5.00	1.75	I	1.38	2.00	O	6.75	2.00	N	5.88	9.25
24.00	24.00	24.00																						



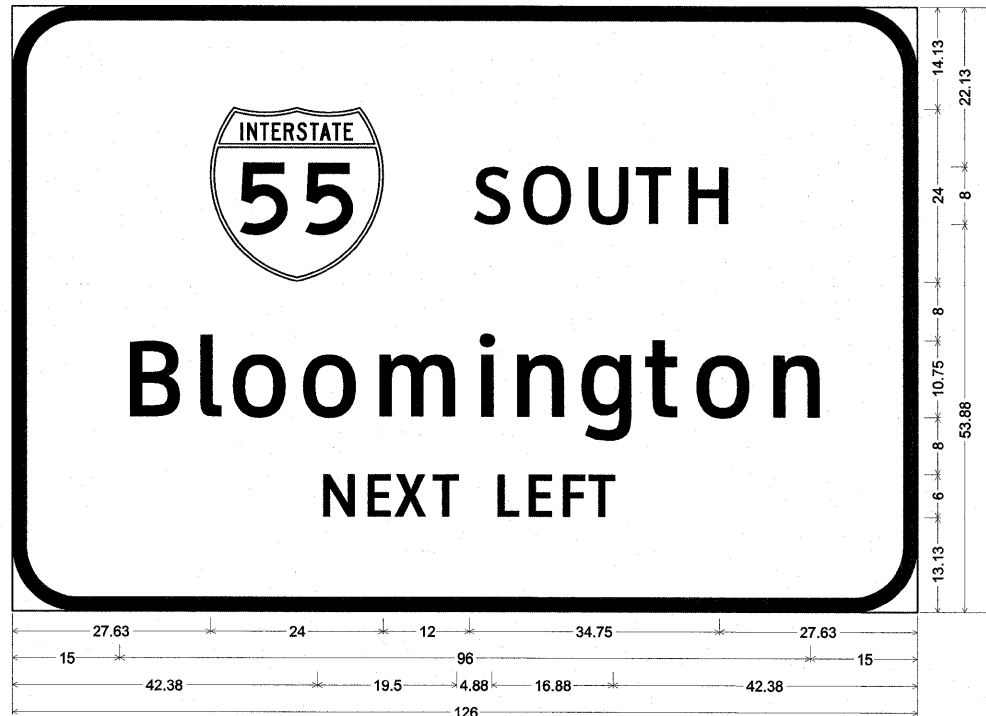
9.00" Radius, 1.50" Border, White on Green;
 Arrow Custom - 29.25" 90°; [NORTH] ClearviewHwy-3-W; [Chicago] ClearviewHwy-3-W;
 6.00" Radius, 2.00" Border, White on Green;
 [SOUTH] ClearviewHwy-3-W; [Bloomington] ClearviewHwy-3-W; Arrow Custom - 29.25" 0°;
 Table of widths and spaces.

27.13	↑	18.25	10.00	24.00	10.00	N	5.88	2.13	O	6.63	2.13	R	5.25	1.25	T	5.13	1.63	H	5.38	31.25			
60.50	C	7.63	2.38	h	6.63	2.88	i	2.25	2.50	c	6.50	1.88	a	7.25	2.25	g	7.00	2.75	7.38	36.25			
1.50	153.00	1.50																					
27.00	24.00	10.00	S	5.13	1.63	6.63	2.13	5.38	1.75	5.00	1.75	5.38	24.38	29.25	6.63								
13.38	B	7.13	2.63	2.88	2.00	7.38	2.38	7.38	2.88	11.13	2.75	2.38	2.88	6.63	2.75	7.00	2.25	4.63	2.13	7.38	2.88	6.63	46.50

SOUTH BOUND ARSENAL RD - STA 966+00
GROUND MOUNT

McDonough Associates Inc.
 Engineers / Architects
 130 East Randolph Street Chicago, Illinois 60601

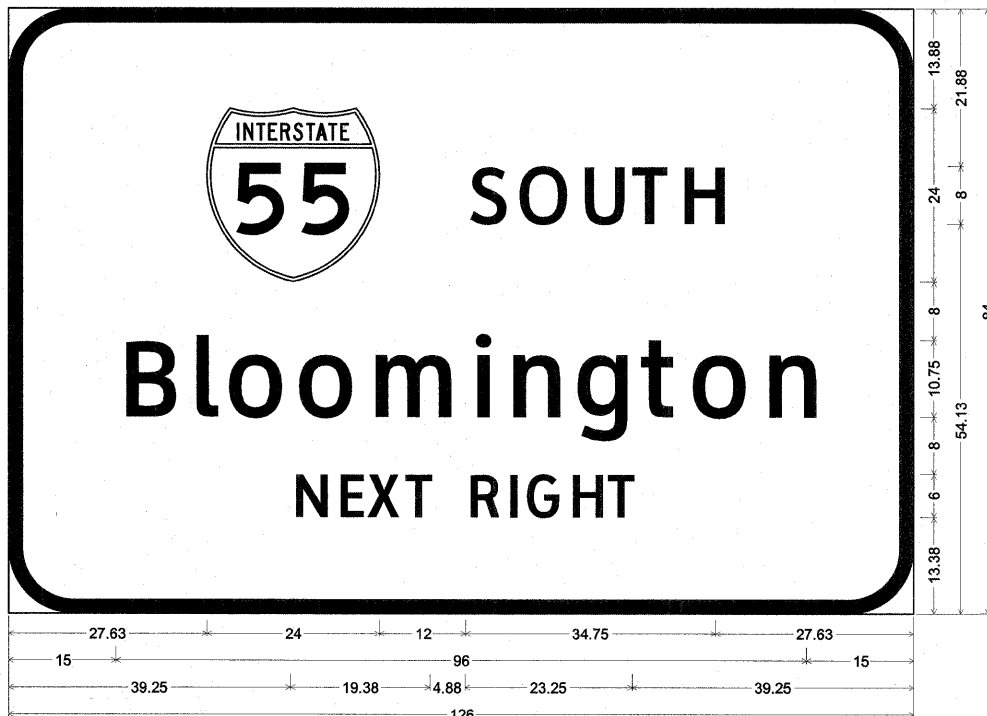
FILE NAME = D:\60F12-SHT-SIGNEDETAIL05.dgn	USER NAME = TKLuegel	DESIGNED - MJT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SIGN PANEL DETAILS			F.A.I. RTE. 55	SECTION 99-2HB-2B-1	COUNTY WILL	TOTAL SHEETS 756	SHEET NO. 309
PLOT SCALE = 1:1	CHECKED - DLT	REVISIONS -	SCALE: N.T.S. SHEET NO. 1 OF 1 SHEETS STA. TO STA.					CONTRACT NO. 60F12				
PLOT DATE = 3/8/2011	DATE - 2/4/11	REVISIONS -	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT									



9.00" Radius, 2.00" Border, White on Green;
 [SOUTH] ClearviewHwy-3-W; [Bloomington] ClearviewHwy-3-W; [NEXT LEFT] ClearviewHwy-3-W;
 Table of widths and spaces.

27.63	24.00	12.00	S	5.13	O	1.63	U	2.13	5.38	1.75	T	5.00	1.75	H	5.38	27.63																						
15.00	B	7.13	2.63	I	2.88	2.00	O	7.38	2.38	7.38	2.88	M	11.13	2.75	I	2.38	2.88	N	6.63	2.75	G	7.00	2.25	T	4.63	2.13	O	7.38	2.88	N	6.63	14.88						
42.38	N	4.38	1.88	E	3.25	1.00	X	4.50	0.63	3.88	4.88	L	3.00	1.25	E	3.38	1.38	F	3.13	0.88	T	3.75	42.50															

**NORTH BOUND I-55 STA 952+24
GROUND MOUNT**



9.00" Radius, 2.00" Border, White on Green;
 [SOUTH] ClearviewHwy-3-W; [Bloomington] ClearviewHwy-3-W; [NEXT RIGHT] ClearviewHwy-3-W;
 Table of widths and spaces.

27.63	24.00	12.00	S	5.13	O	1.63	U	2.13	5.38	1.75	T	5.00	1.75	H	5.38	27.63																						
15.00	B	7.13	2.63	I	2.88	2.00	O	7.38	2.38	7.38	2.88	M	11.13	2.75	I	2.38	2.88	N	6.63	2.75	G	7.00	2.25	T	4.63	2.13	O	7.38	2.88	N	6.63	14.88						
39.25	N	4.38	1.75	E	3.38	0.88	X	4.50	0.75	3.75	4.88	R	4.00	1.50	I	1.00	1.50	G	4.63	1.50	H	4.13	1.25	T	3.75	39.25												

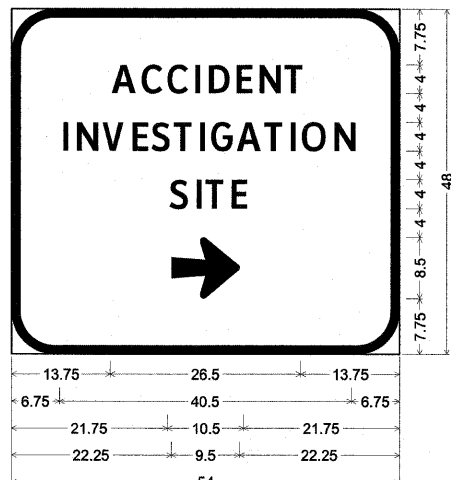
**SOUTH BOUND ARSENAL RD - STA 975+10
GROUND MOUNT**



9.00" Radius, 2.00" Border, White on Green;
 [NORTH] ClearviewHwy-3-W; [Chicago] ClearviewHwy-3-W;
 [NEXT RIGHT] ClearviewHwy-3-W;
 Table of widths and spaces.

12.25	24.00	12.00	S	5.13	O	1.63	U	2.13	5.38	1.75	T	5.00	1.75	H	5.38	12.25																						
18.38	C	7.63	2.38	h	6.63	2.88	2.25	2.50	c	6.50	1.88	a	7.13	2.38	g	7.00	2.75	o	7.38	18.38																		
24.25	N	4.38	1.75	E	3.38	0.88	X	4.50	0.75	3.75	4.88	R	4.00	1.50	I	1.00	1.50	G	4.63	1.50	H	4.13	1.25	T	3.75	24.25												

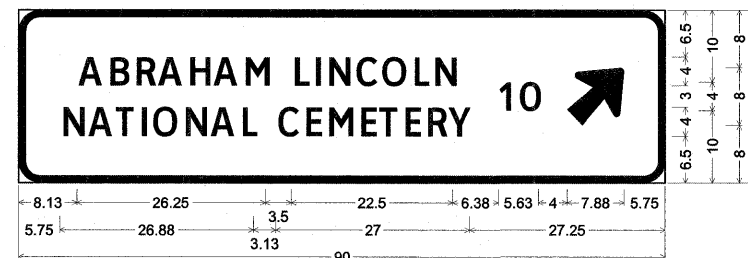
**WEST FRONTAGE CONNECTOR - STA 6086+30
GROUND MOUNT**



6.00" Radius, 1.25" Border, White on Blue;
 [ACCIDENT] ClearviewHwy-3-W;
 [INVESTIGATION] ClearviewHwy-3-W;
 [SITE] ClearviewHwy-3-W; Arrow Custom - 9.50" 0°;
 Table of widths and spaces.

13.75	A	3.25	0.75	C	2.88	0.63	C	2.88	0.88	I	0.75	1.13	D	2.88	1.00	E	2.25	1.00	N	2.88	0.88	T	2.50	13.75													
6.75	I	0.63	1.25	N	2.88	0.88	V	3.00	0.88	E	2.25	0.63	S	2.63	0.50	T	2.50	0.88	I	0.75	1.00	G	3.00	0.75	A	3.25	0.50	T	2.50	0.88	0.75	1.00	3.25	1.13	N	2.88	6.75
21.75	S	2.50	1.00	I	0.63	0.88	T	2.50	0.88	E	2.13	21.75																									
22.25	→	9.50	22.25																																		

**NORTH BOUND ARSENAL RD - STA 903+18
SOUTH BOUND EAST FRONTAGE RD - STA 8053+02
GROUND MOUNT**



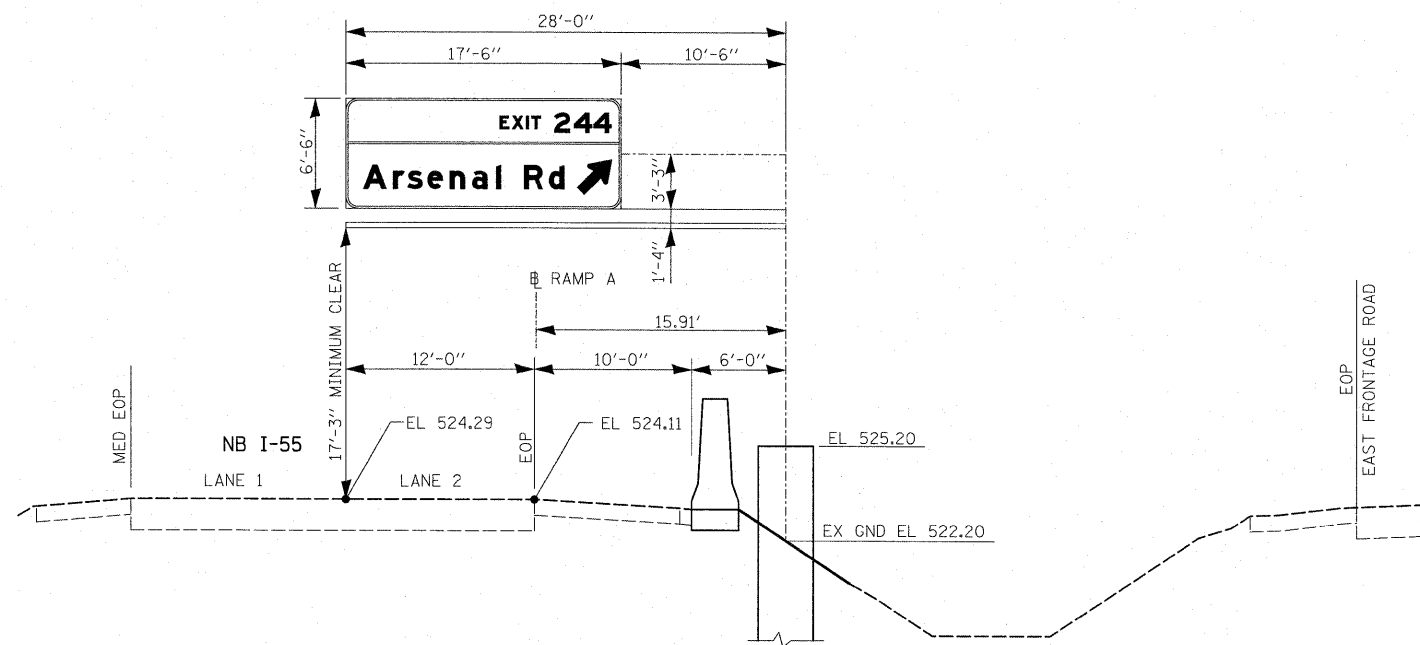
3.00" Radius, 1.00" Border, White on Brown;
 [ABRAHAM LINCOLN] ClearviewHwy-3-W; [NATIONAL CEMETERY] ClearviewHwy-3-W;
 [10] ClearviewHwy-3-W; Arrow Custom - 9.50" 45°;
 Table of widths and spaces.

8.13	A	3.25	0.88	B	2.63	1.00	R	2.63	0.63	A	3.38	0.88	H	2.63	0.88	A	3.25	0.88	M	3.25							
3.63	L	2.00	0.88	I	0.75	1.13	N	2.88	1.13	2.88	0.63	3.38	1.00	2.00	0.88	N	3.00										
6.38	1	1.50	1.13	O	2.88	4.00	7.88	5.75																			
5.75	N	2.88	0.88	A	3.25	0.50	T	2.50	0.88	I	0.75	1.00	O	1.13	N	2.88	A	3.25	0.88	L	2.00						
3.13	C	2.88	0.88	E	2.13	1.00	3.25	1.25	E	2.13	0.63	T	2.50	0.88	E	2.25	0.88	R	2.75	0.50	Y	3.13	27.13				

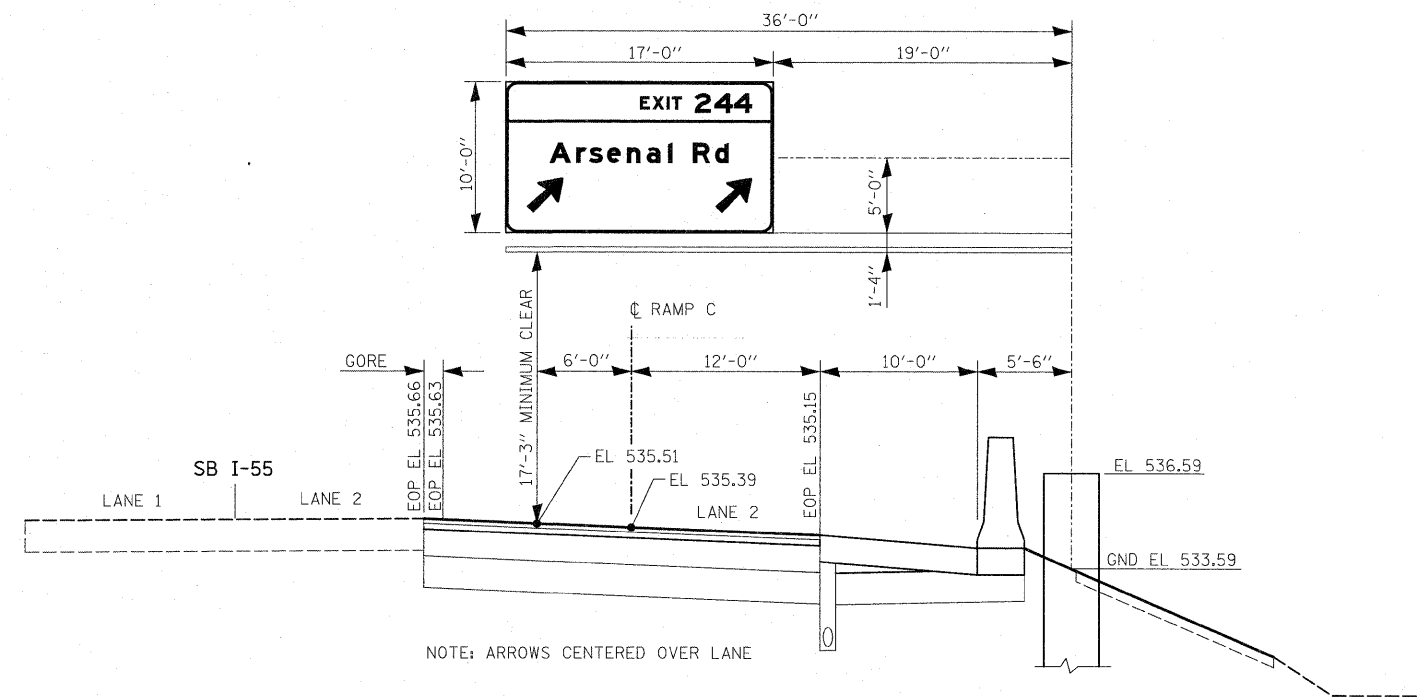
**SOUTH BOUND ARSENAL RD - STA 961+21
GROUND MOUNT**

FILE NAME = D:\60F12-SHT-SIGNDETAIL\86.dgn	USER NAME = TKJuegel	DESIGNED - MJT	REVISED -
PLDT SCALE = 1:1		DRAWN - MJT	REVISED -
PLDT DATE = 3/9/2011		CHECKED - DLT	REVISED -
		DATE - 2/4/11	REVISED -

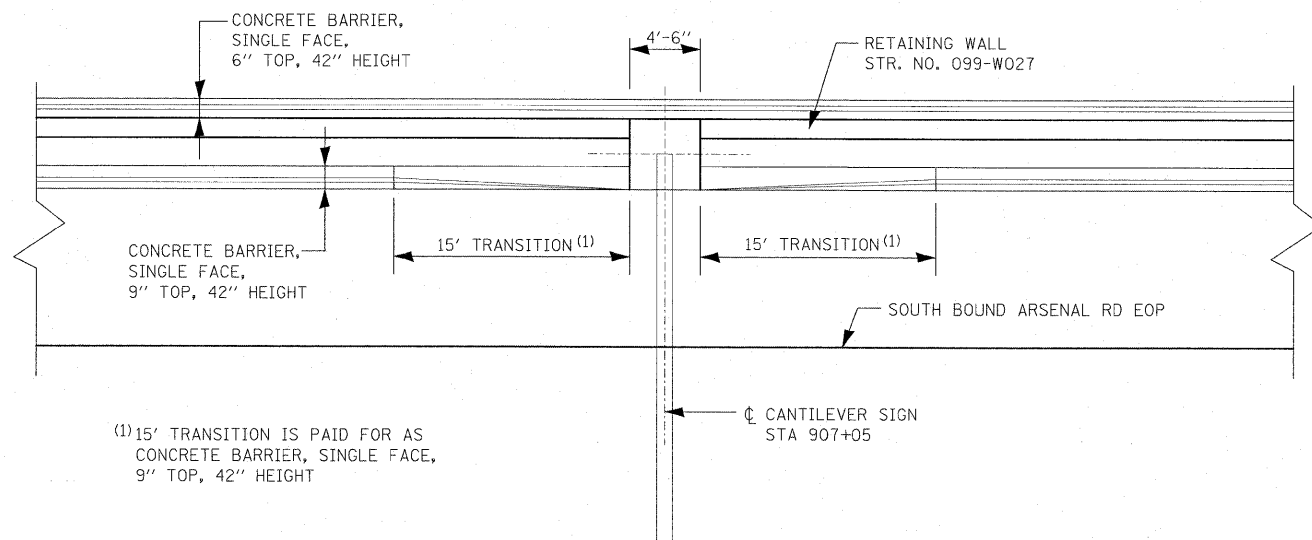
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-2B-1	WILL	756	310
CONTRACT NO. 60F12			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	



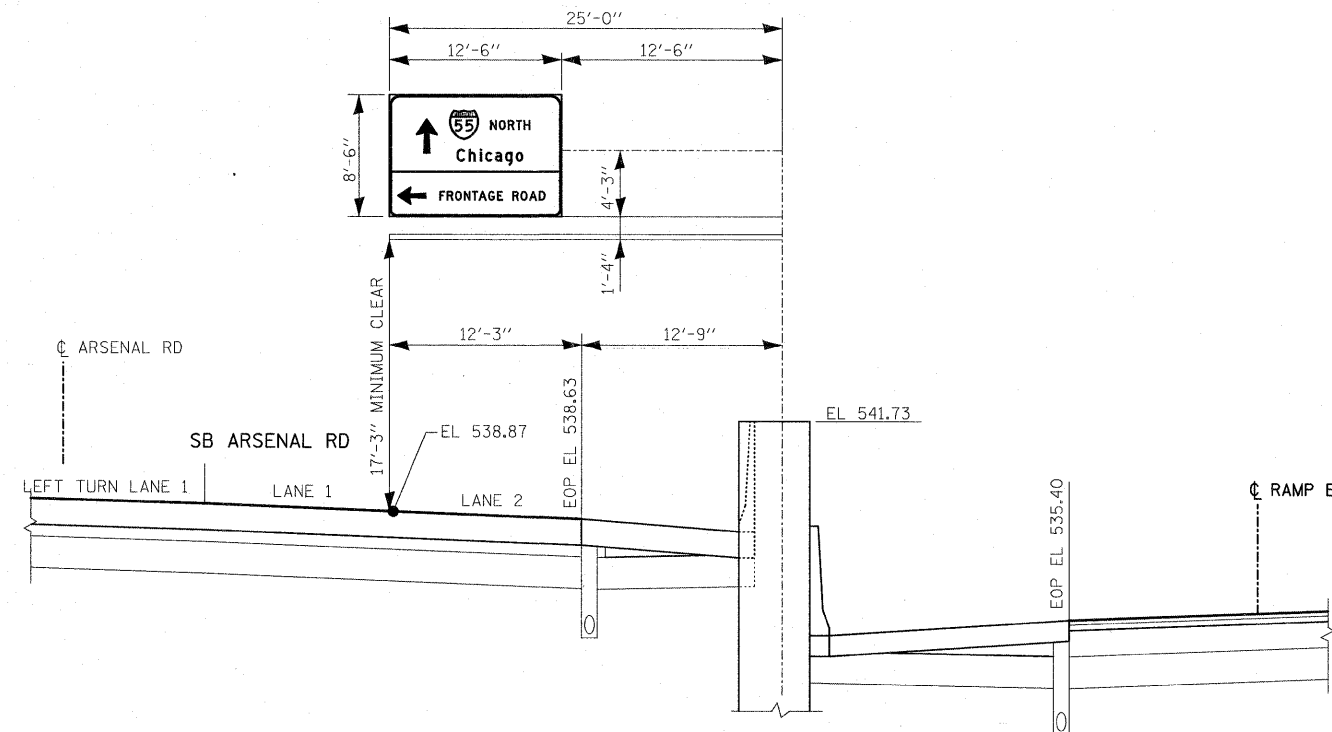
**NB I-55/RAMP A
STA 7002 + 81.4**



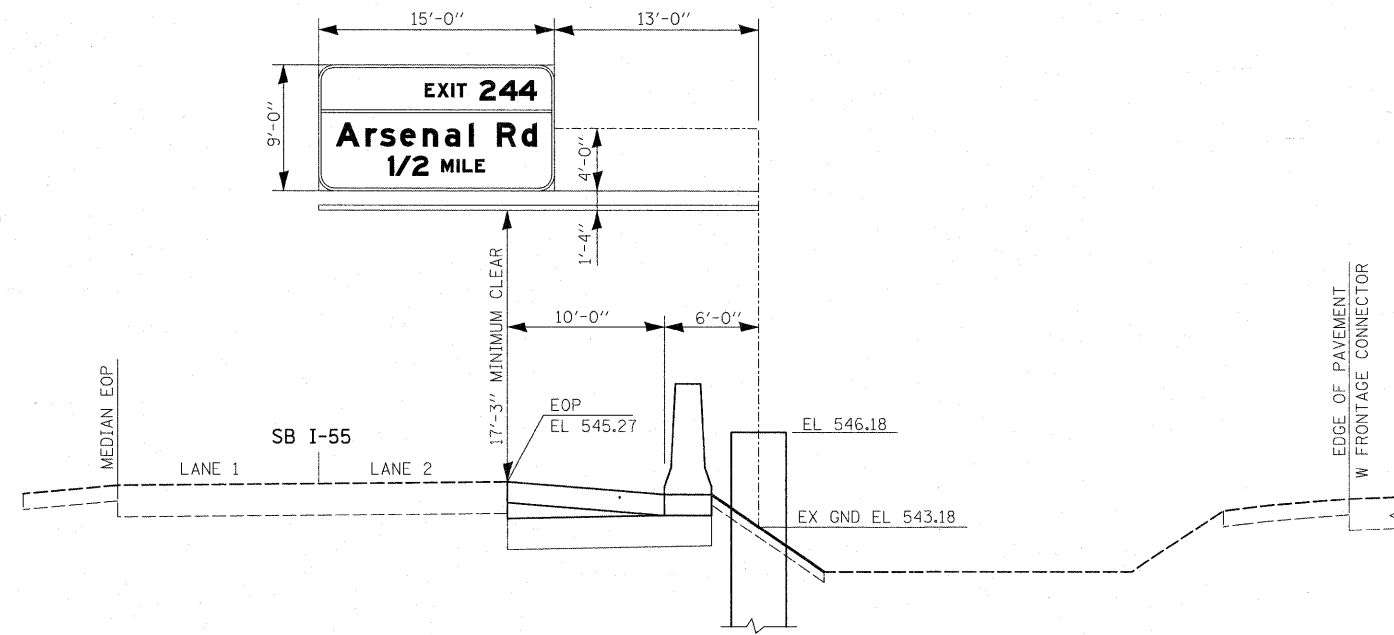
**SOUTH BOUND I-55/RAMP C
STA 2002 + 00**



BARRIER WALL TRANSITION AT STA 907+05



**SOUTH BOUND ARSENAL RD
STA 907+05**



SOUTH BOUND I-55 - STA 1086+26

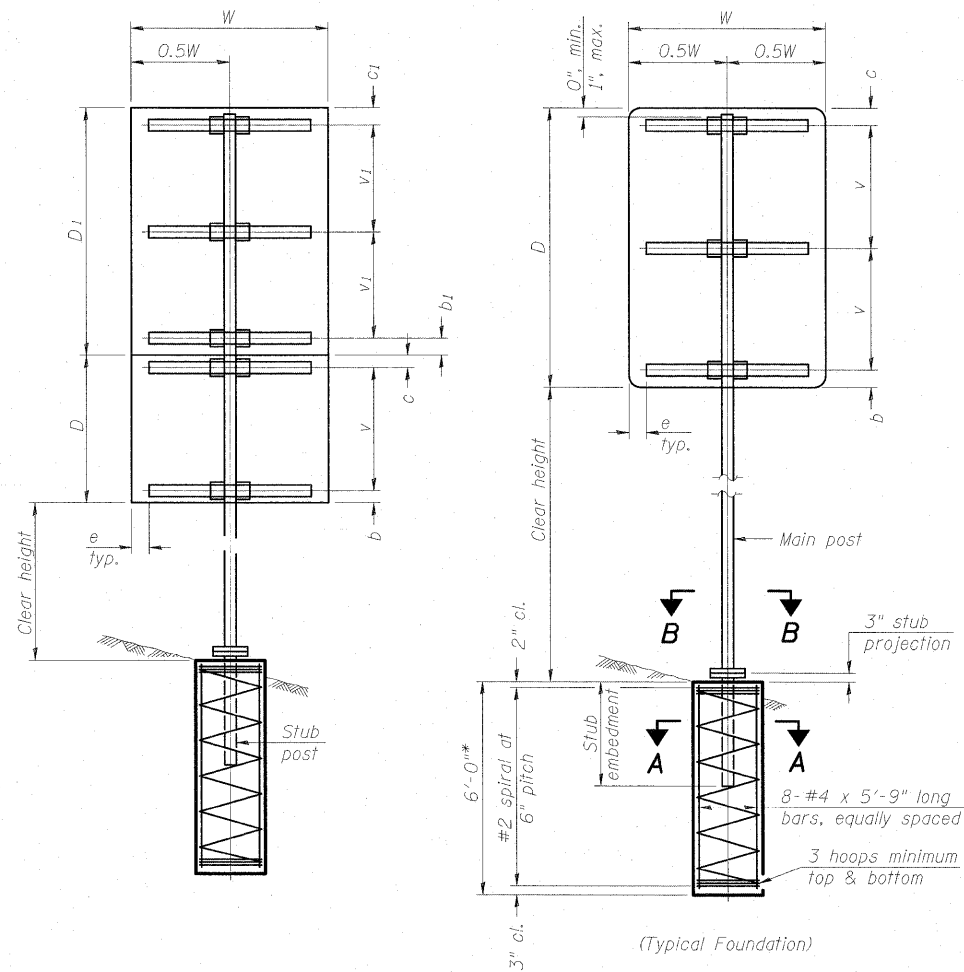
FILE NAME =	USER NAME = TK1uegel
D160F12-SHT-SIGNDETAIL08.dgn	
PLOT SCALE = 1/8"	
PLOT DATE = 3/8/2011	

DESIGNED - JTF	REVISED -
DRAWN - JTF	REVISED -
CHECKED - DLT	REVISED -
DATE - 2/4/11	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SIGN PANEL LAYOUT DETAIL				
SCALE:	SHEET NO.	OF	SHEETS	STA. TO STA.

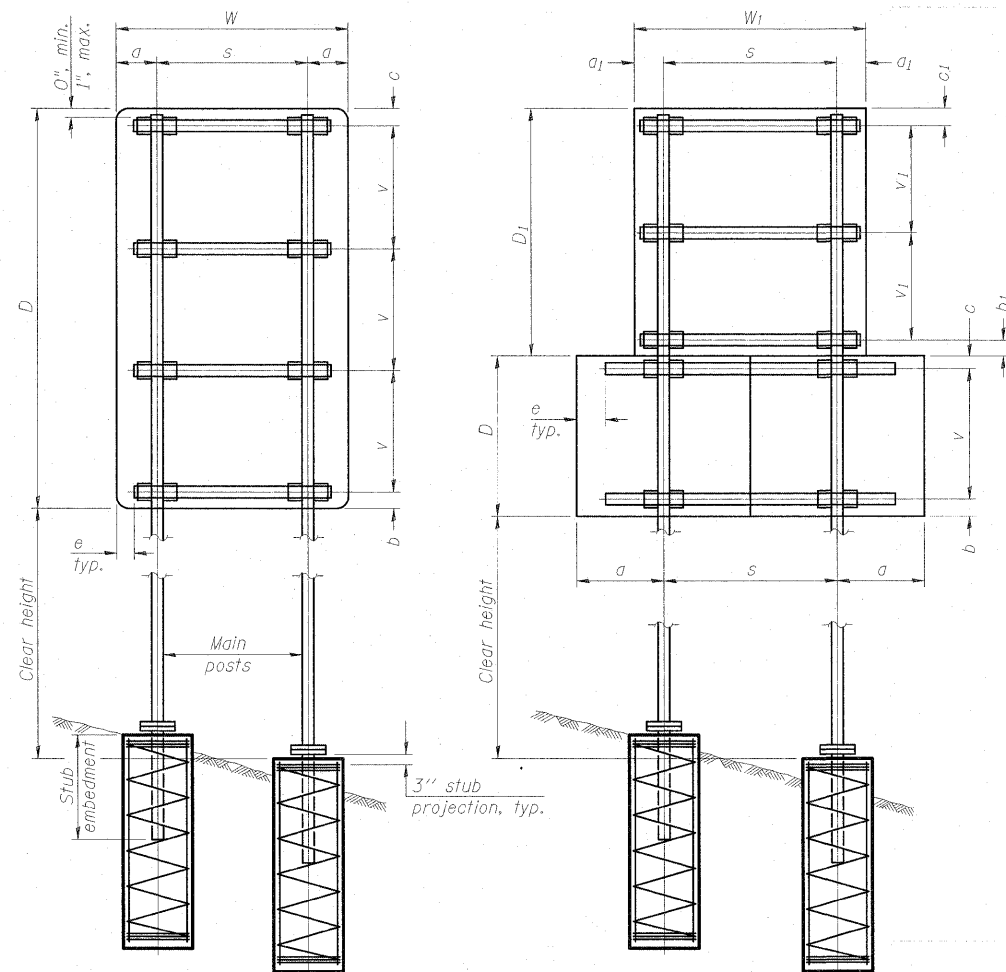
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-2B-1	WILL	756	312
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				CONTRACT NO. 60F12



SINGLE POST ASSEMBLY EXAMPLES

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

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



DUAL POST ASSEMBLY EXAMPLES

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

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

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

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

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

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

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

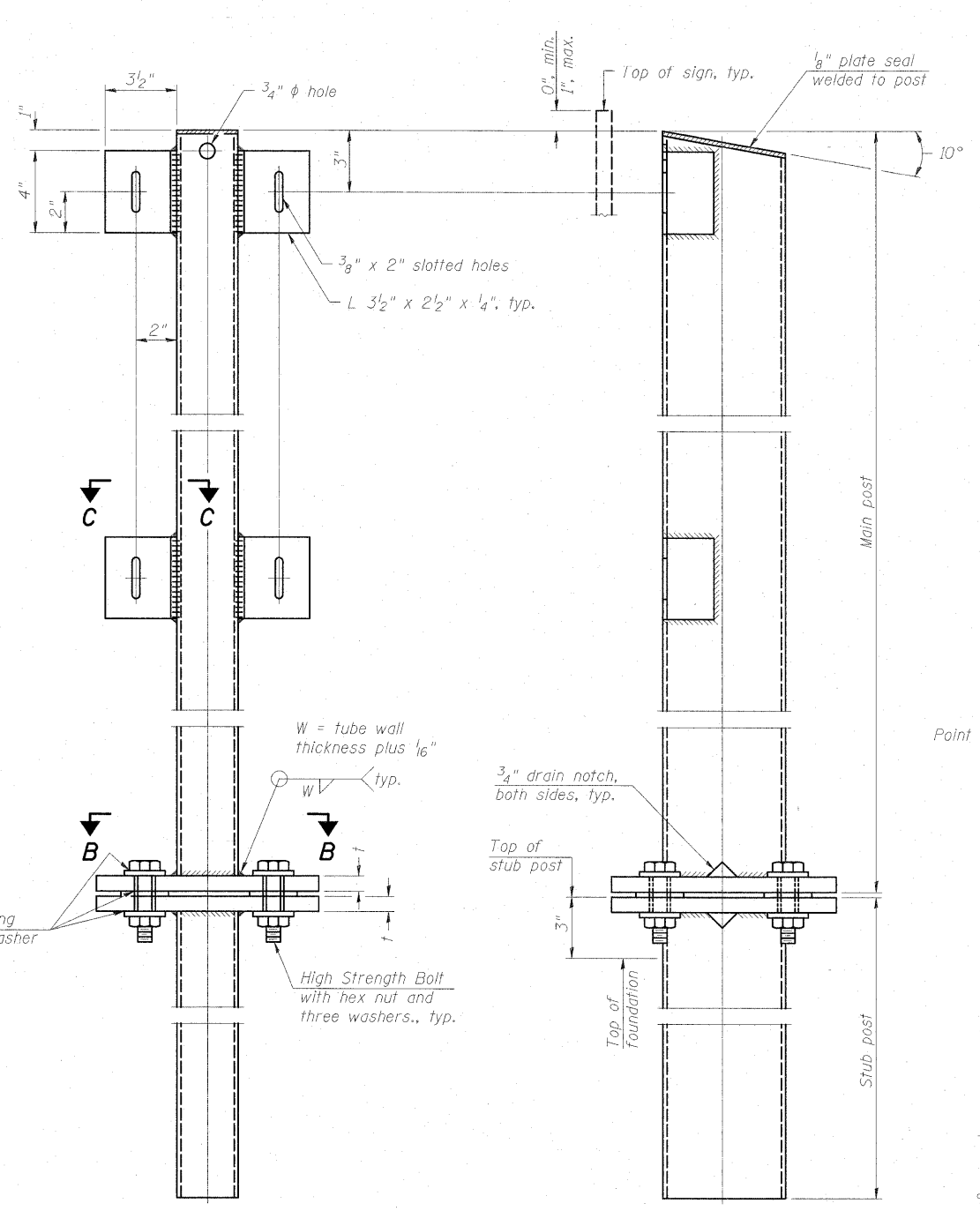
The measurement of the tubular steel shall be computed on the basis of the weight per foot of the support, multiplied by the combined length of the main posts and stub posts.

MAIN POST STEEL TUBING	WEIGHT PER FOOT (POUND)	STUB POST TABLE		MAIN POST TABLE				
		Stub Embedment	Stub Post Length	Bolt Size	A	f	R	Bolt Circle
3" x 2" x 1/4"	7.11	2'-0"	2'-3"	1/2" x 2 3/4"	8 1/4"	5/8"	9/32"	6 1/2"
4" x 2" x 1/4"	8.81	2'-0"	2'-3"	1/2" x 2 3/4"	8 1/4"	5/8"	9/32"	6 1/2"
4" x 3" x 1/4"	10.51	2'-3"	2'-6"	5/8" x 3 1/4"	10"	3/4"	11/32"	8"
5" x 3" x 1/4"	12.21	2'-3"	2'-6"	5/8" x 3 1/4"	10"	3/4"	11/32"	8"
6" x 3" x 1/4"	13.91	2'-3"	2'-6"	5/8" x 3 1/4"	11 1/2"	3/4"	11/32"	9 1/2"
6" x 4" x 1/4"	15.62	2'-3"	2'-6"	3/4" x 3 1/2"	11 1/2"	3/4"	11/32"	9 1/2"
6" x 4" x 5/16"	19.08	2'-3"	2'-6"	3/4" x 3 1/2"	11 1/2"	3/4"	11/32"	9 1/2"
7" x 5" x 1/4"	19.02	2'-6"	2'-9"	3/4" x 3 1/2"	1'-2"	3/4"	11/32"	1'-0"
8" x 4" x 1/4"	19.02	2'-6"	2'-9"	3/4" x 3 1/2"	1'-2"	3/4"	11/32"	1'-0"
8" x 6" x 1/4"	22.42	2'-6"	2'-9"	7/8" x 3 1/2"	1'-2"	3/4"	11/32"	1'-0"

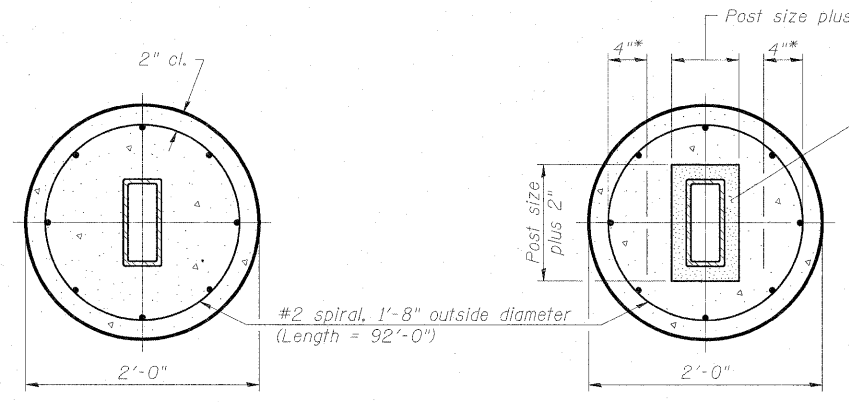
NUMBER	REVISION	DATE

BREAK-AWAY TUBULAR STEEL SIGN POSTS AND FOUNDATIONS

(Sheet 1 of 2)

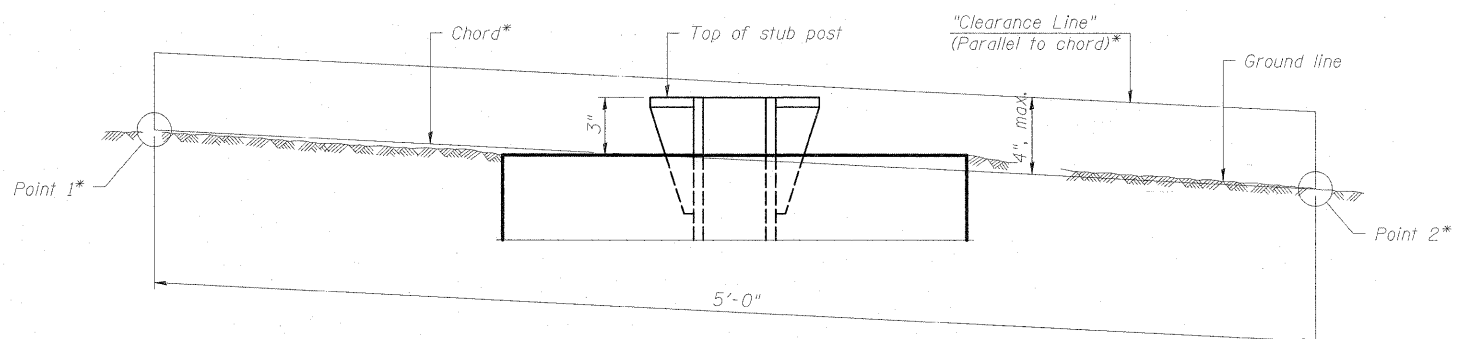


FRONT ELEVATION **SIDE ELEVATION**
MAIN POST & STUB POST



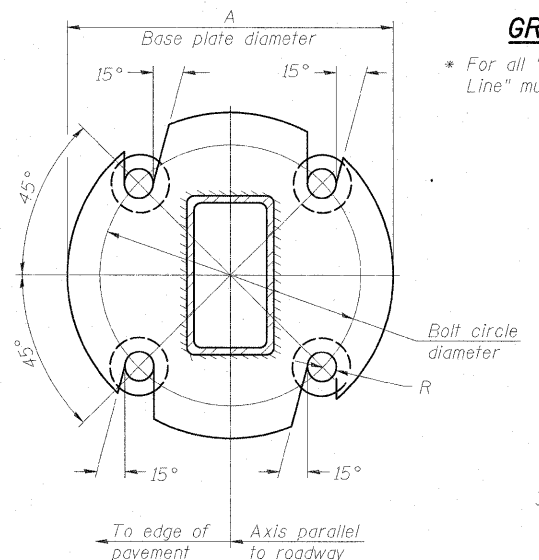
SECTION A-A (CAST-IN-PLACE) OR **SECTION A-A (PRECAST)**

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

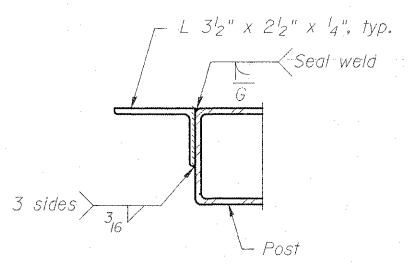


ELEVATION GROUND LINE & STUB POST

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

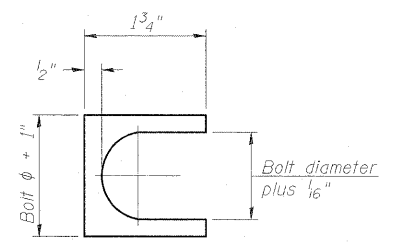


SECTION B-B



SECTION C-C

Weld continuously around corners.



SHIM DETAIL

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

NUMBER	REVISION	DATE

BREAK-AWAY TUBULAR STEEL SIGN POSTS AND DETAILS

(Sheet 2 of 2)

McDonough Associates Inc.
 Engineers / Architects
 130 East Randolph Street, Chicago, Illinois 60601

BAT-A-2 12-1-08

FILE NAME = U160F12-SHT-SIGNDTAIL10.dgn	USER NAME = TKluengel	DESIGNED - IDOT CELL	REVISED -
PLOT SCALE = 1:1	DATE = 2/4/11	DRAWN - IDOT CELL	REVISED -
PLOT DATE = 3/9/2011		CHECKED - IDOT CELL	REVISED -
		DATE = 2/4/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:	SHEET NO. OF SHEETS	STA. TO STA.
--------	---------------------	--------------

F.A.I. RTE. 55	SECTION 99-2HB-2B-1	COUNTY WILL	TOTAL SHEETS 756	SHEET NO. 314
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60F12	

BAW-A-1

12-1-08

FILE NAME = D:\60F12-SHT-SIGDETAIL11.dgn
USER NAME = TKluegel
PLOT SCALE = 1:1
PLOT DATE = 3/8/2011

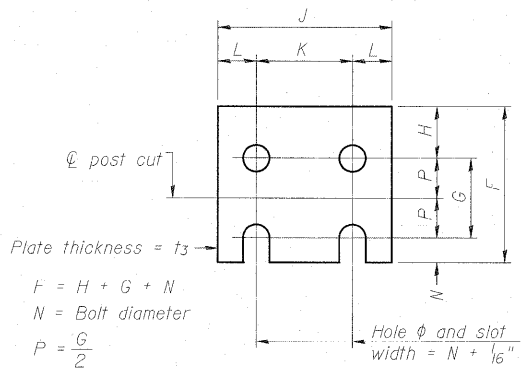
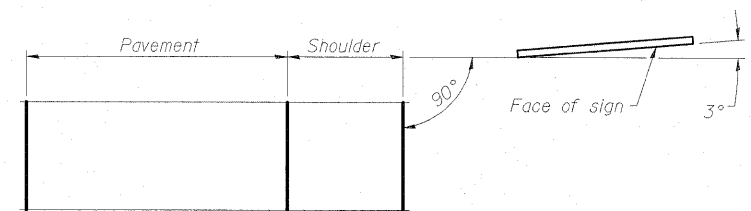
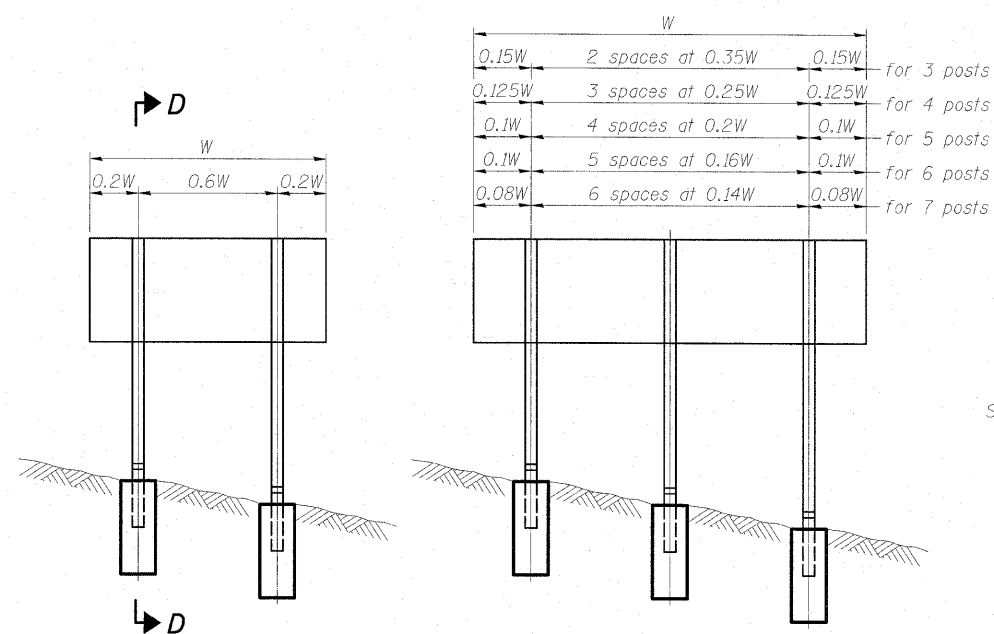
DESIGNED - IDOT CELL
DRAWN - IDOT CELL
CHECKED - IDOT CELL
DATE - 2/4/11

REVISED -
REVISED -
REVISED -
REVISED -

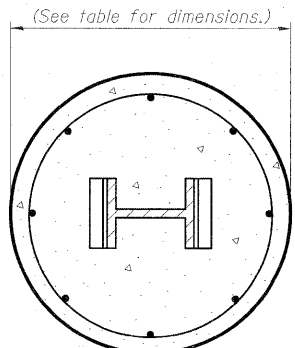
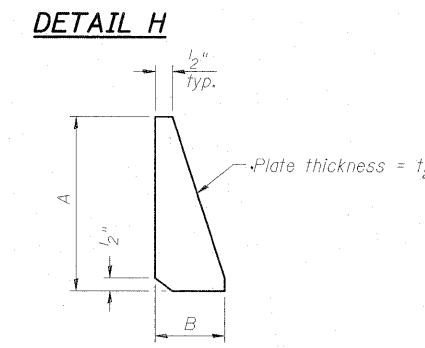
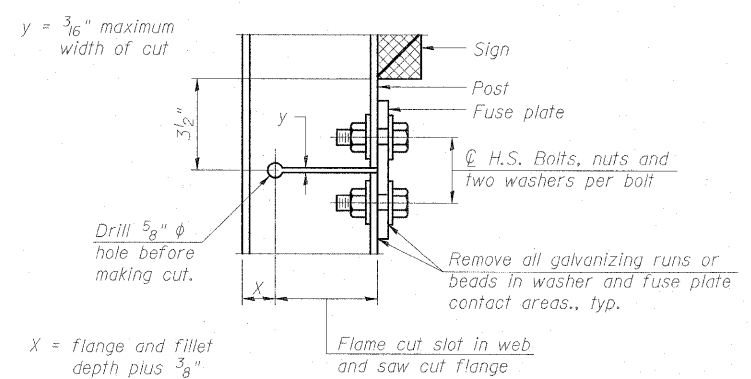
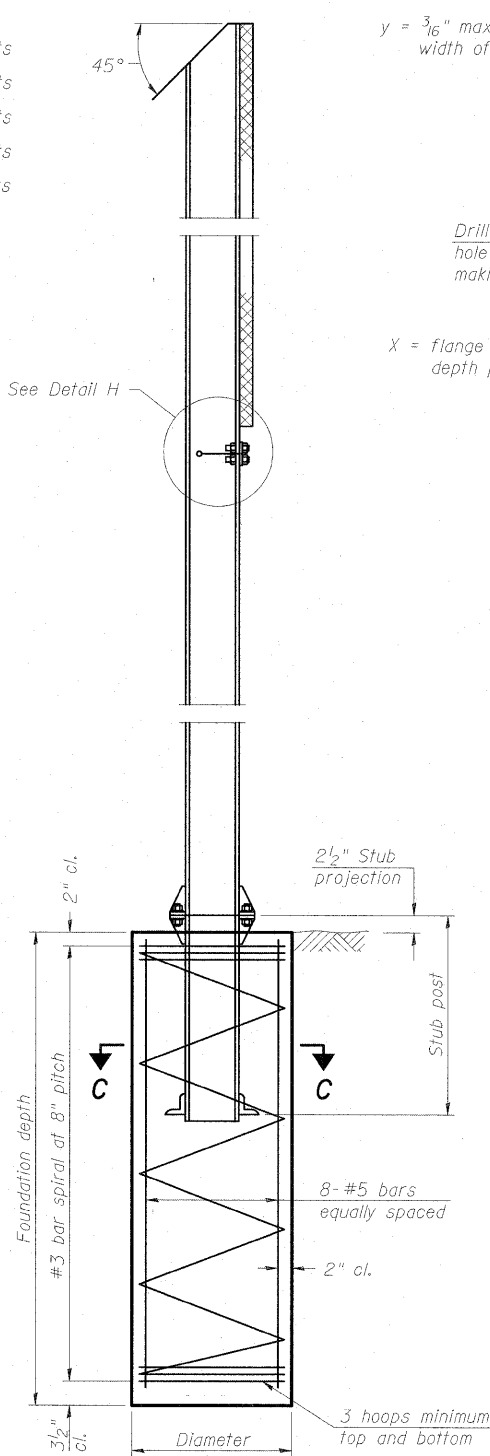
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-2B-1	WILL	756	315
CONTRACT NO. 60F12				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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



GENERAL NOTES

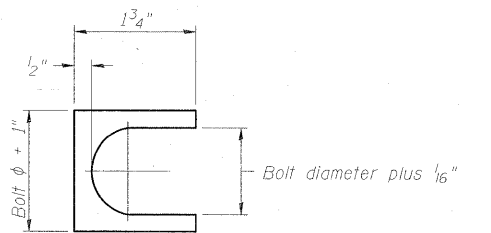
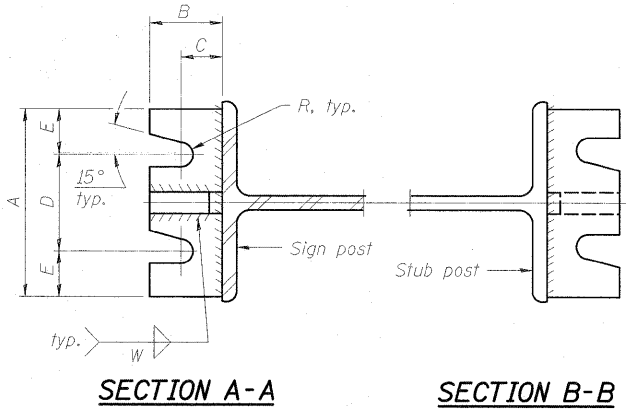
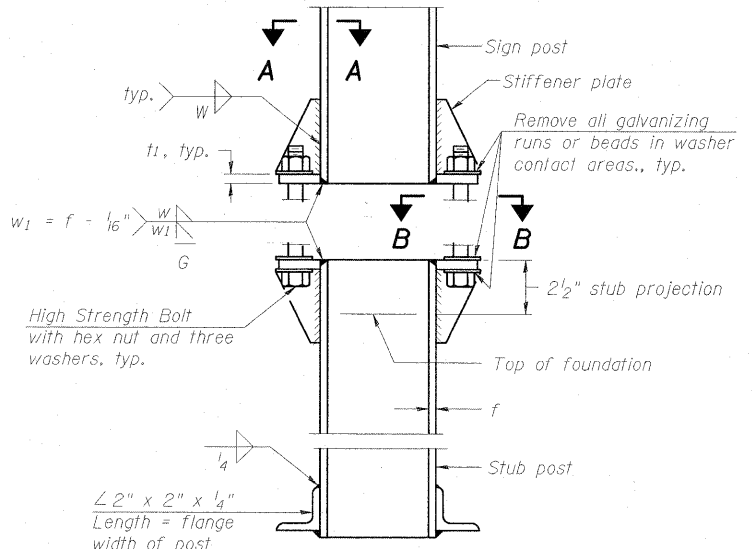
Posts shall be plumbed by using shims with post-to-stub post connection bolts snug tight only. Final tightening of all High Strength Bolts shall be in accordance with Article T27.05 and threads at the junction of the bolt and nut shall be burred or center punched to prevent the nut from loosening.

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.



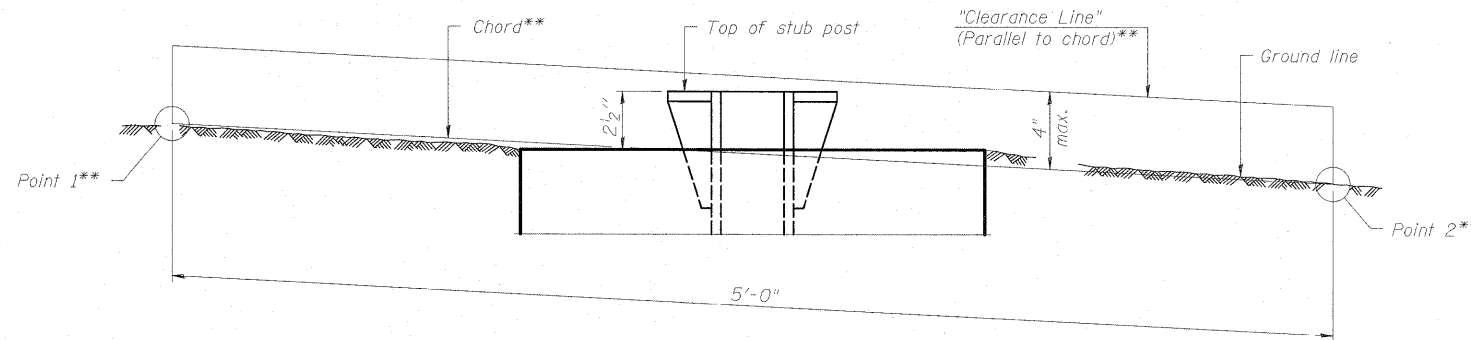
BREAK-AWAY WIDE FLANGE
STEEL SIGN POST DETAILS

(Sheet 1 of 2)

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

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

POST	FUSE PLATE BOLT SIZE																					
	Sign Height																					
	4'-0"	5'-0"	6'-0"	7'-0"	8'-0"	9'-0"	10'-0"	11'-0"	12'-0"	13'-0"	14'-0"	15'-0"	16'-0"	17'-0"	18'-0"	19'-0"	20'-0"	21'-0"	22'-0"	23'-0"	24'-0"	
W6x9	1/2" x 1 1/2"	1/2" x 1 1/2"	1/2" x 1 1/2"	1/2" x 1 1/2"	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
W6x15	1/2" x 1 3/4"	1/2" x 1 3/4"	1/2" x 1 3/4"	1/2" x 1 3/4"	5/8" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	---	---	---	---	---	---	---	---	---	---	---	
W8x18	1/2" x 1 3/4"	1/2" x 1 3/4"	1/2" x 1 3/4"	1/2" x 1 3/4"	5/8" x 2"	5/8" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	---	---	---	---	---	---	---	---	---	---	---	
W10x22	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2"	5/8" x 2"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	---	---	---	---	---	---	---	---	
W10x26	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2 1/4"	5/8" x 2 1/4"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	---	---	---	---	---	---	---	
W12x26	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2 1/4"	5/8" x 2 1/4"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	---	---	---	---	---	---	
W14x30	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2"	5/8" x 2"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	---	---	---	---	---	
W14x38	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2 1/4"	5/8" x 2 1/4"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"
W16x45	---	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2 1/4"	5/8" x 2 1/4"	5/8" x 2 1/4"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"



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.

NUMBER	REVISION	DATE

(Sheet 2 of 2)

BREAK-AWAY WIDE FLANGE
STEEL SIGN POST TABLES

BAW-A-2

12-1-08

FILE NAME = D:\60F12-SHT-SIGNDETAIL12.dgn	USER NAME = TKluegel	DESIGNED - IDOT CELL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	F.A.I. RTE. 55	SECTION 99-2HB-2B-1	COUNTY WILL	TOTAL SHEETS 756	SHEET NO. 316	CONTRACT NO. 60F12
PLOT SCALE = 1:1	CHECKED - IDOT CELL	REVISED -							FED. ROAD DIST. NO. 1	ILLINOIS FED. AID PROJECT			
PLOT DATE = 3/6/2011	DATE - 2/4/11	REVISED -											

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

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

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

LOADING: 90 M.P.H. WIND VELOCITY

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

DESIGN STRESSES:
Field Units
f_c = 3,500 p.s.i.
f_y = 60,000 p.s.i. (reinforcement)

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

MATERIALS: Aluminum Alloys as shown throughout plans. All Structural Steel Pipe shall be ASTM A53 Grade B or A500 Grade B or C. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53.
All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 or Gr. 50W*. Stainless steel for shims, sleeves and handhole covers shall be ASTM A240, Type 302 or 304, or another alloy suitable for exterior exposure and acceptable to the Engineer.
The steel pipe and stiffening ribs at the base plate for the column shall have a minimum longitudinal Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F. (Zone 2) before galvanizing.

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

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

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

ANCHOR RODS: Shall conform to AASHTO M314 Gr. 105 with a minimum Charpy V-Notch (CVN) energy of 15 lb.-ft. at 10° F.

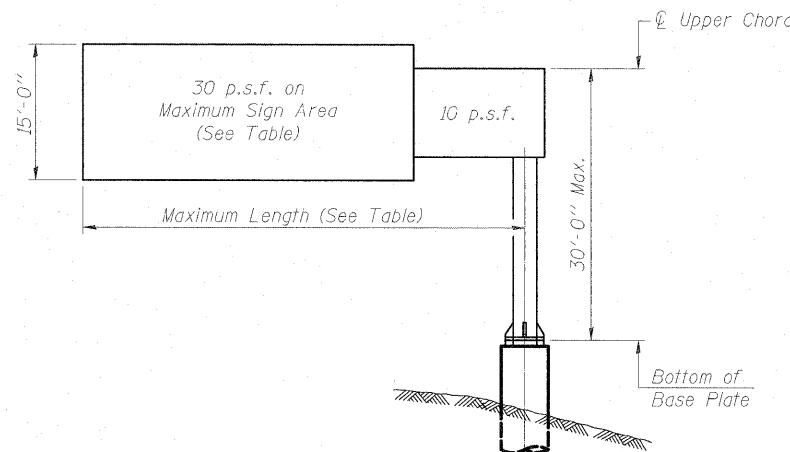
CONCRETE SURFACES: All concrete surfaces above an elevation 6" below the lowest final ground line at each foundation shall be cleaned and coated with Bridge Seat Sealer in accordance with the Standard Specifications.

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

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

Structure Number	Station	Design Truss Type	Cantilever Length (L)	Elev. A	Dim. D	D _s	Total Sign Area
IC0991055R243.6	7002+81.4 RT	II-C-A	28'-0"	524.29	15'-11"	6'-6"	113.8 SQ FT
IC099L017R244.5	907+05 LT	I-C-A	25'-0"	538.87	12'-9"	8'-6"	102.0 SQ FT
IC0991055R244.5	2002+00 RT	III-C-A	36'-0"	535.51	16'-0"	10'-0"	170.0 SQ FT
IC0991055R245.0	1086+26 LT	II-C-A	28'-0"	545.27	16'-0"	9'-0"	130.5 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.

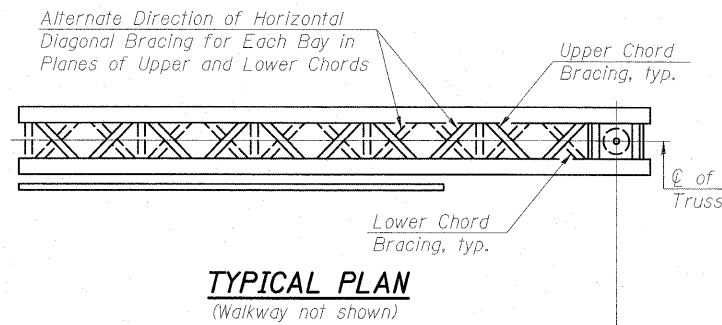
- ① After adjustments to level truss and insure adequate vertical clearance, all top and leveling nuts shall be tightened against the base plate with a minimum torque of 200 lb.-ft. Stainless steel mesh shall then be placed around the perimeter of the base plate. Secure to base plate with stainless steel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

TOTAL BILL OF MATERIAL

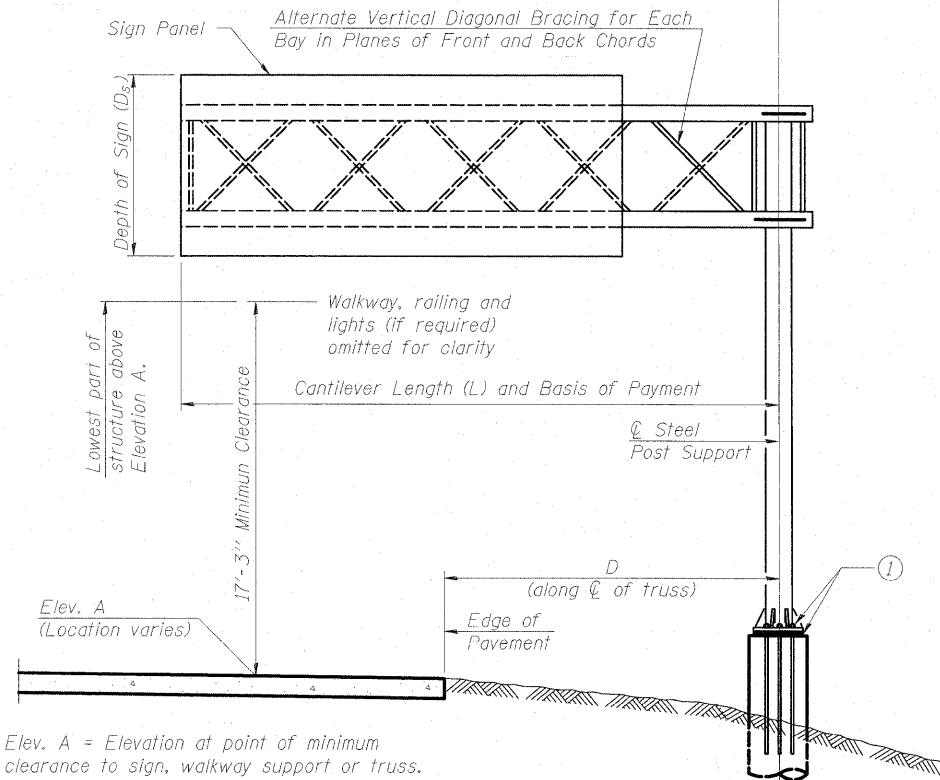
ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE CANTILEVER TYPE I-C-A (24"x4'-6")	Foot	25.0
OVERHEAD SIGN STRUCTURE CANTILEVER TYPE II-C-A (36"x5'-6")	Foot	56.0
OVERHEAD SIGN STRUCTURE CANTILEVER TYPE III-C-A (36"x7'-0")	Foot	36.0
ROCK EXCAVATION	Cu. Yds.	21.0
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yds.	36.2

* 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.

CANTILEVER SIGN STRUCTURES
GENERAL PLAN & ELEVATION
ALUMINIUM TRUSS & ELEVATION
F.A.I. RT. 55 - SEC. (99-1&2)R-6
WILL COUNTY



TYPICAL PLAN
(Walkway not shown)



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.

Note:

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

NUMBER	REVISION	DATE

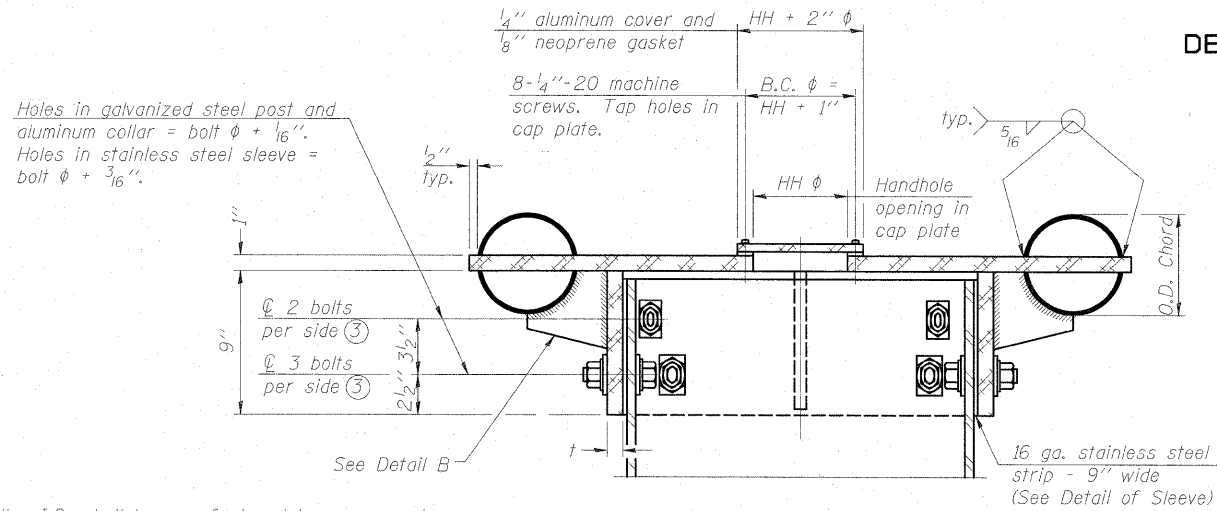
DESIGNED
CHECKED
DRAWN
CHECKED
OSC-A-1

12-1-08

McDonough Associates Inc.
Engineers / Architects
130 East Randolph Street
Chicago, Illinois 60601
(312) 946-8600

SHEET NO.	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SD-14	55	(99-1&2) R-6	WILL	756	318
SHEETS					
CONTRACT NO. 60F12					
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

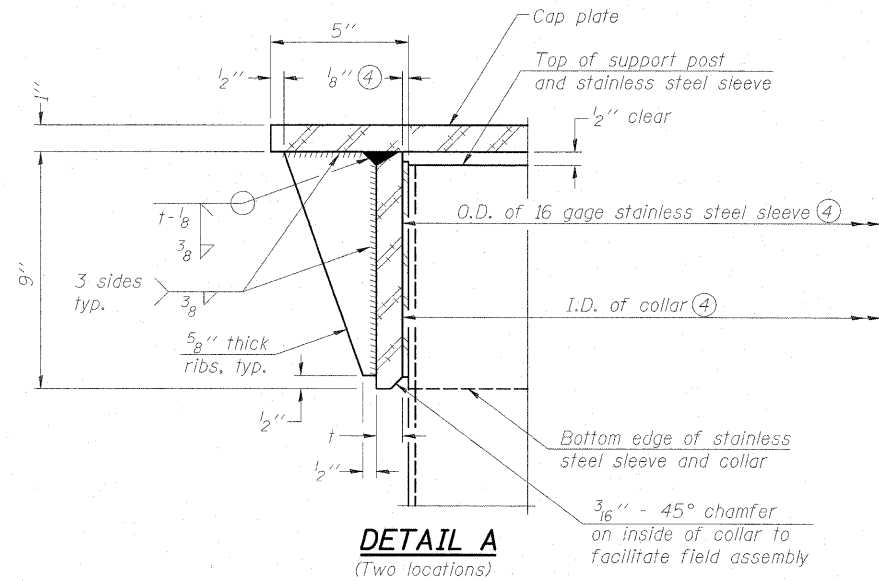
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



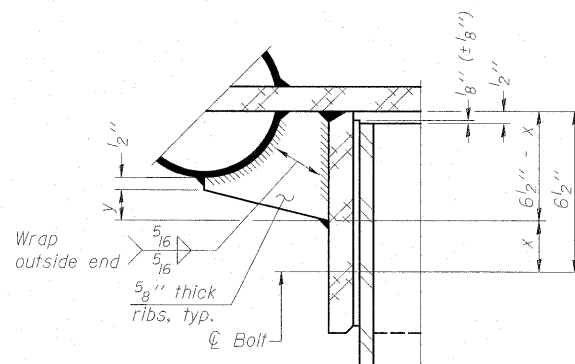
④ Collar I.D. shall be manufactured to correspond to O.D. of actual galvanized post and stainless steel sleeve plus 1/8" (±1/16"). Maximum gap between post and collar at any location equals 1/8" before tightening bolts.

SECTION B-B

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

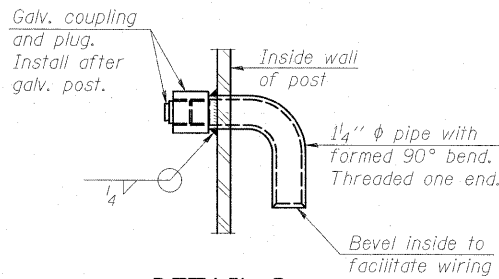


DETAIL A
(Two locations)

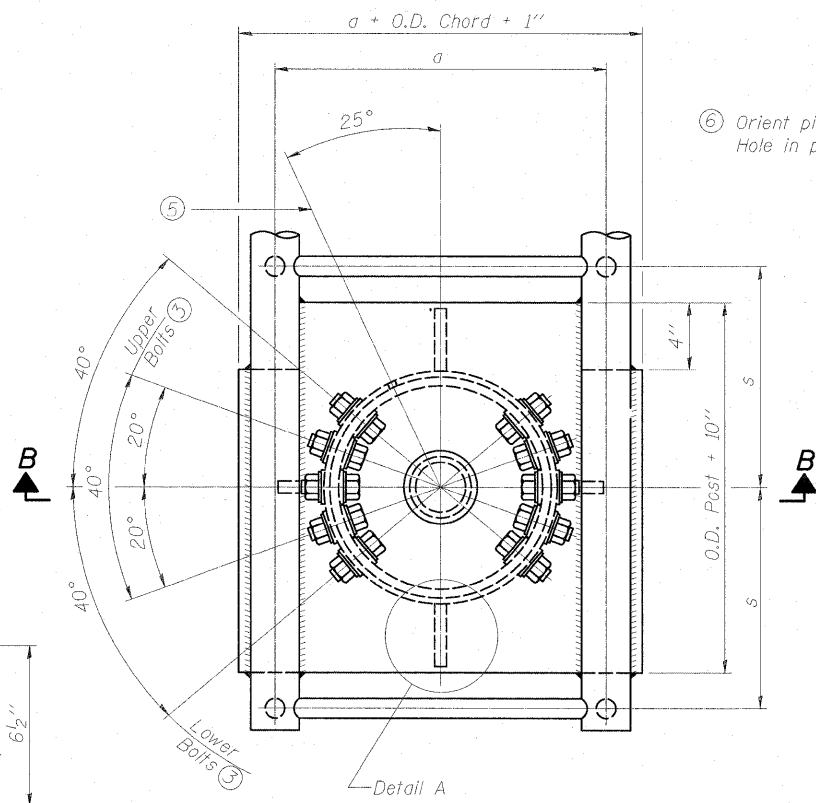


DETAIL B

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

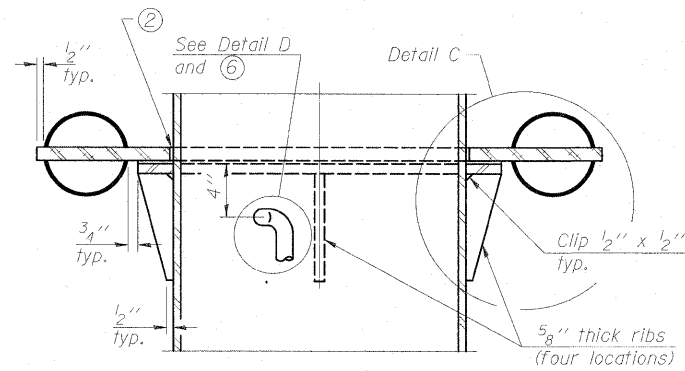


DETAIL D

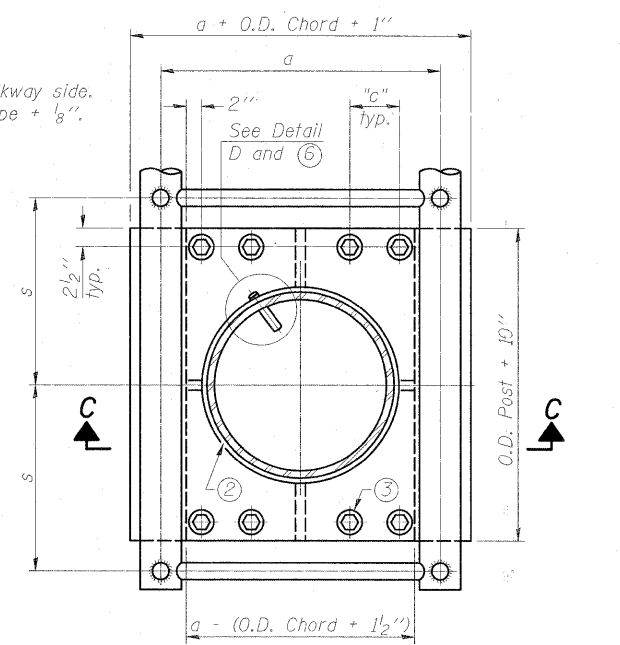


PLAN VIEW - TOP OF COLUMN

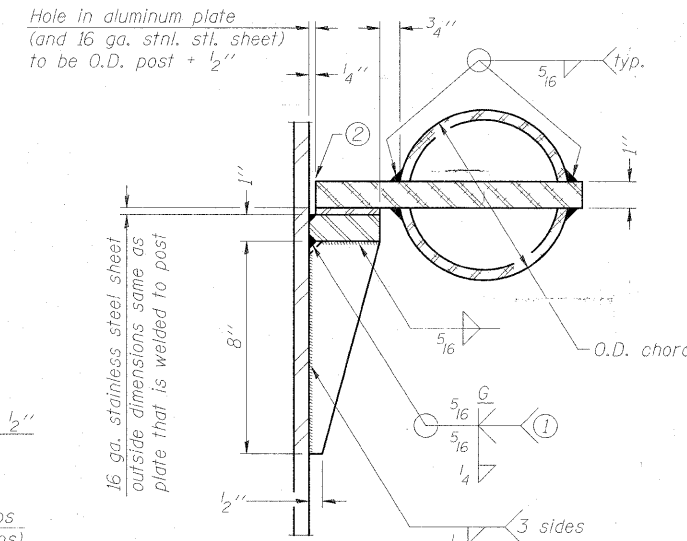
⑤ Optional full penetration weld in collar.
(Two locations maximum... (180° apart)... X-ray or UT 100%)



SECTION C-C



SECTION THRU POST ABOVE LOWER CHORDS



DETAIL C

- ① Grind top if required to fully seat aluminum plate and stainless steel sheet.
- ② After tightening lower connection bolts, fill gap with non-hardening, silicone caulk suitable for exterior exposure and acceptable to the Engineer. Cost is included in Overhead Sign Structure Cantilever.

CONTOURED WASHERS

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

DETAIL OF STAINLESS STEEL SLEEVE

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

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

③ Upper and lower connection bolts in collar and bolts at lower chord connection shall be high strength with matching locknuts. Connection bolts shall have 2 stainless steel flat washers each.



McDonough Associates Inc.
Engineers / Architects
130 East Randolph Street
Chicago, Illinois 60601
(312) 946-8600

DESIGNED	
CHECKED	
DRAWN	
CHECKED	

OSC-A-3

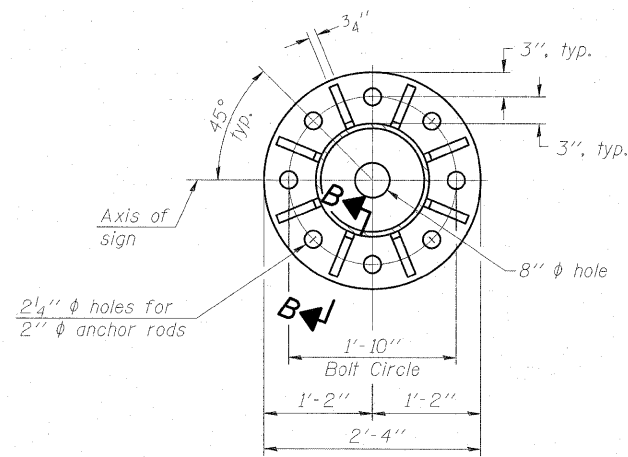
12-1-08

NUMBER	REVISION	DATE

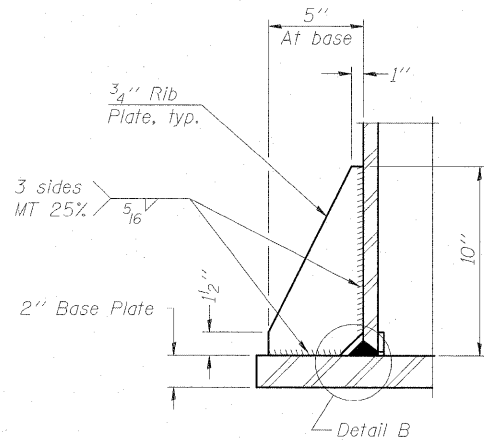
SHEET NO. SD-16 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	55	(99-1&2) R-6	WILL	756	320
CONTRACT NO. 60F12					
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

CANTILEVER SIGN STRUCTURES
JUNCTURE DETAILS
ALUMINIUM TRUSS & STEEL POST
F.A.I. RT. 55 - SEC. (99-1&2)R-6
WILL COUNTY

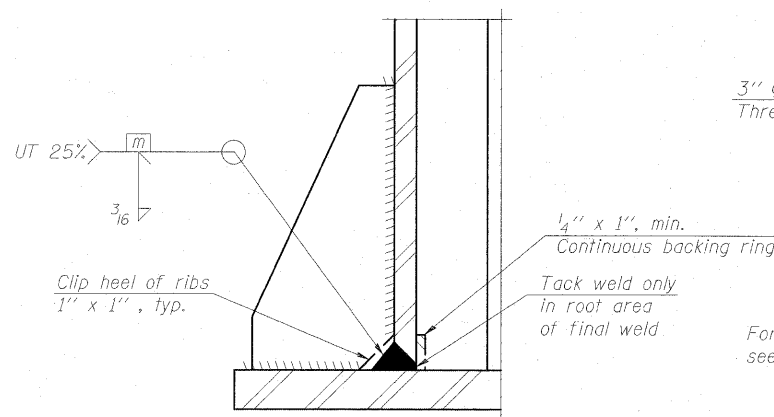
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



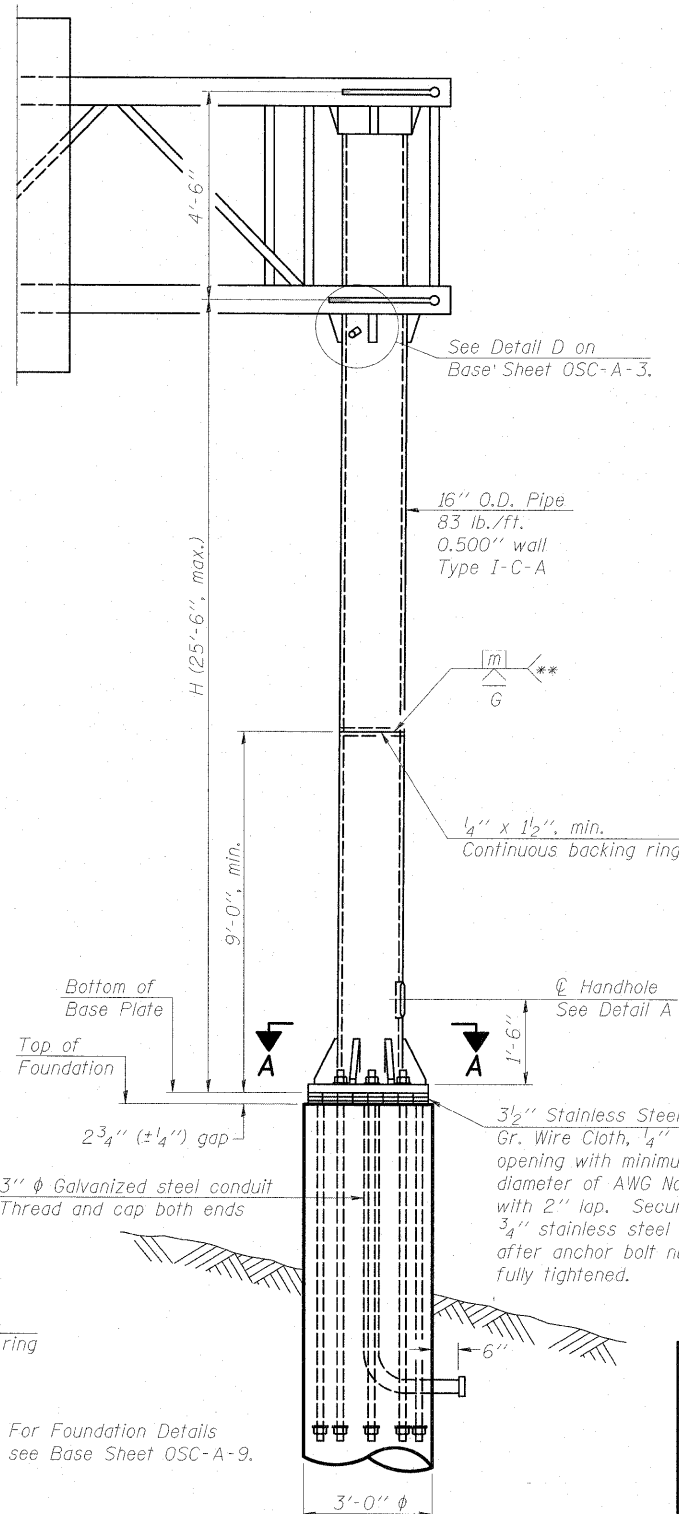
SECTION A-A



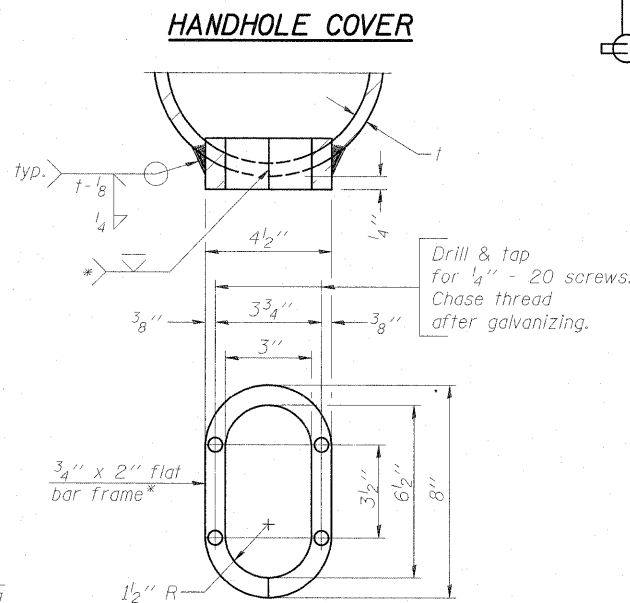
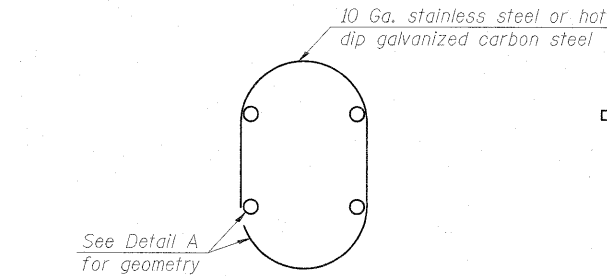
SECTION B-B



DETAIL B
(Typical rib)



FRONT ELEVATION



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

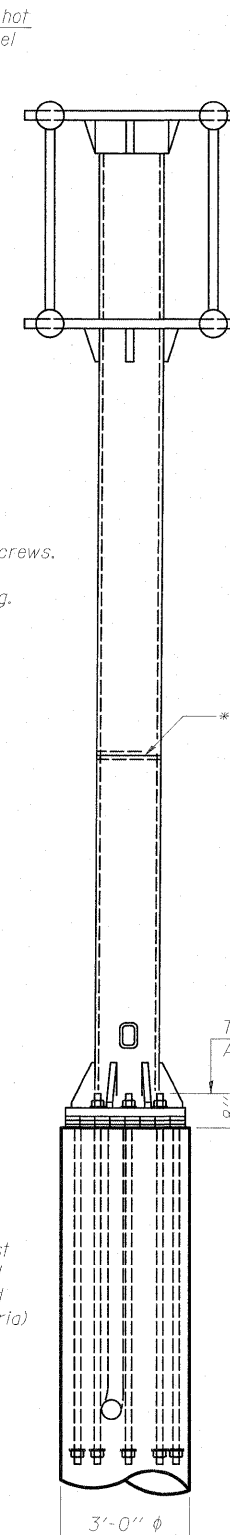
DETAIL A

* 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 500 μin or less.

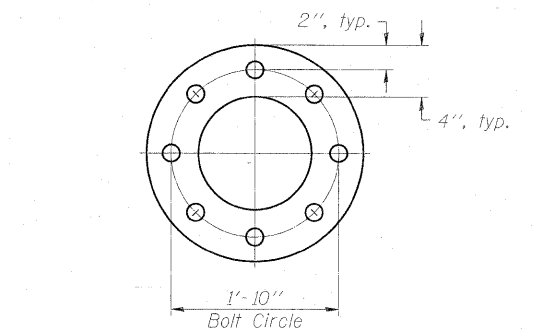
** Butt welded joint in post is only allowed for post heights (H) over 20 ft. in length. If used, weld procedure must be preapproved by Engineer and joint shall receive 100% RT or UT (tension criteria) at Contractor's expense.

Structure Number	Station	H
1C099L017R244.5	907+05 LT	20'-7 1/8"

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



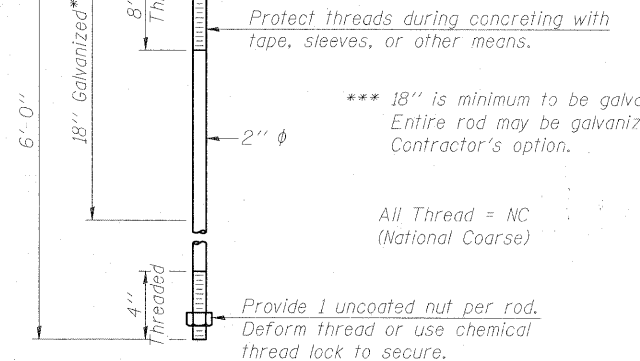
SIDE ELEVATION



SUGGESTED POSITIONING PLATE

For UT, grind top of rod square and smooth before galvanizing.

Utilize positioning plate and temporary nuts with leveling nuts or other Engineer approved methods to maintain anchor bolts' alignment during concrete placement. Plate, extra nuts and other positioning aids become Contractor's property. Cost included in Drilled Shaft Concrete Foundations.



ANCHOR ROD DETAIL

Anchor rods shall conform to AASHTO M314 Grade 105 and meet Charpy V-Notch (CVN) energy of 15 lb.-ft. at 10° F. before galvanizing. Galvanize the upper 18" (minimum***) and associated M291, Grade A, C or DH heavy hex nuts and hardened washers per AASHTO M232. No welding shall be permitted on rods. Provide an unfinished nut at bottom, a hexagon locknut and washer above base plate and a leveling nut and washer below base plate. Nuts shall each be tightened with 200 lb.-ft. minimum torque against base plate. Before or after threading, but before galvanizing, each anchor rod shall be ultrasonically tested (UT) by a Level II or III inspector, qualified in accord with ANSI guidelines, using a straight beam, 1/2" φ 3.5 mhz. transducer, to insure no rejectable flaws exist in the upper 18" (tension criteria). Cost of testing included in Drilled Shaft Concrete Foundations.

CANTILEVER SIGN STRUCTURES
TYPE I-C-A TRUSS SUPPORT POST
ALUMINUM TRUSS & STEEL POST
F.A.I. RT. 55 - SEC. (99-1&2)R-6
WILL COUNTY

DESIGNED
CHECKED
DRAWN
CHECKED

OSC-A-4

12-1-08

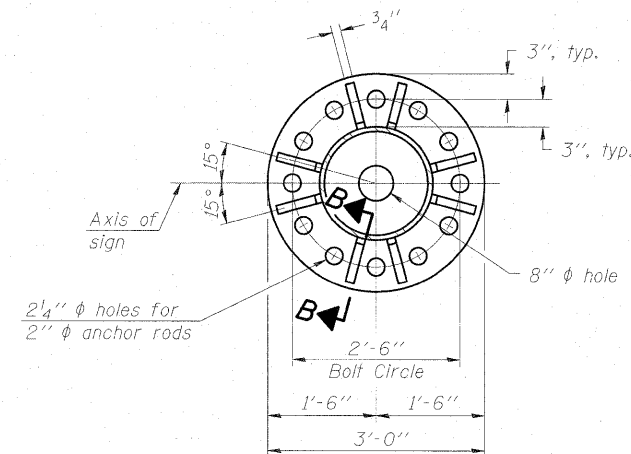
NUMBER	REVISION	DATE



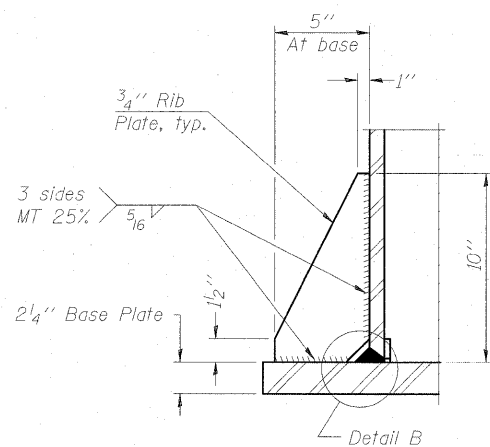
McDonough Associates Inc.
Engineers / Architects
130 East Randolph Street
Chicago, Illinois 60601
(312) 946-8600

SHEET NO. SD-17 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	55	(99-1&2) R-6	WILL	756	321
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT		
CONTRACT NO. 60F12					

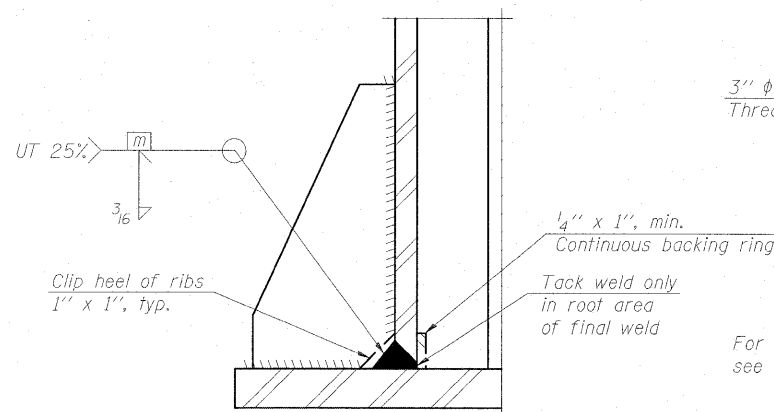
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



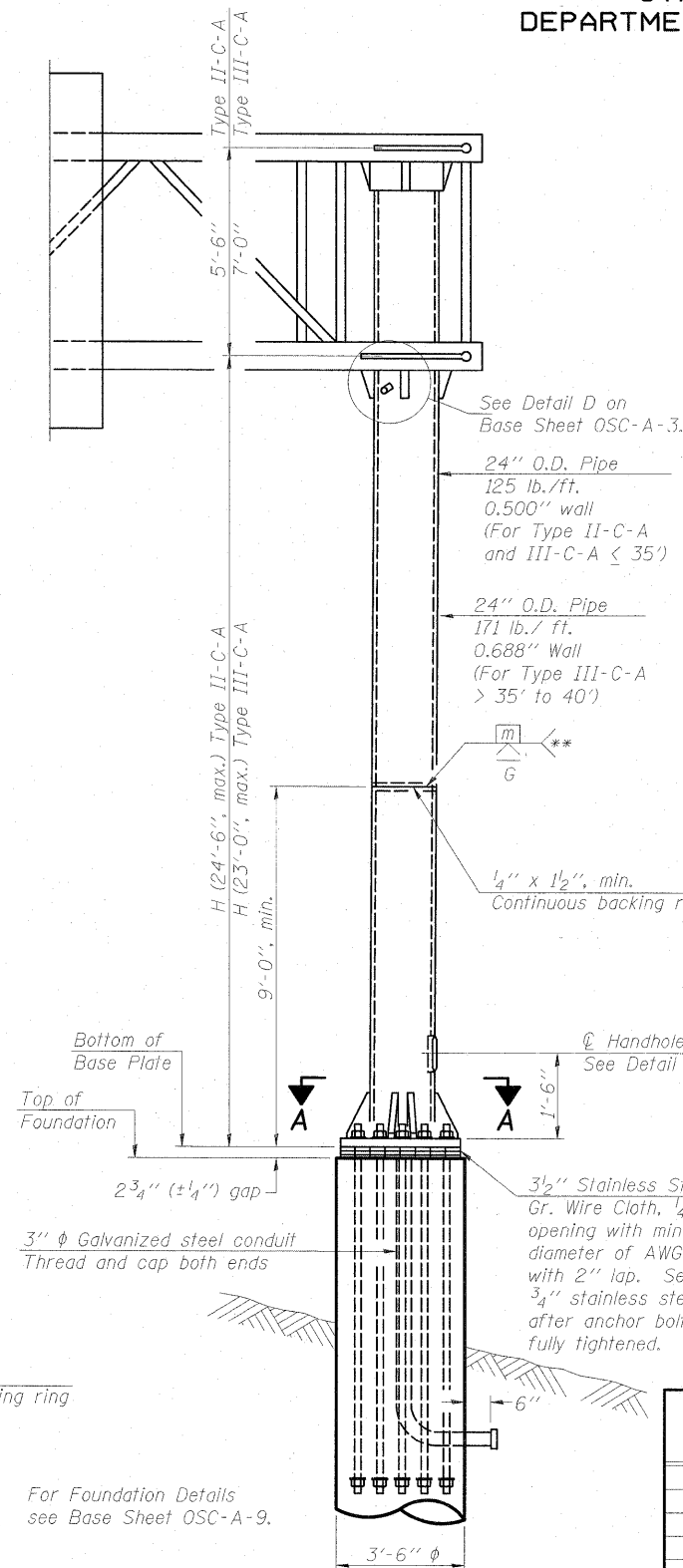
SECTION A-A



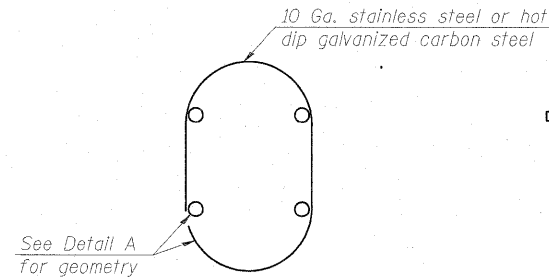
SECTION B-B



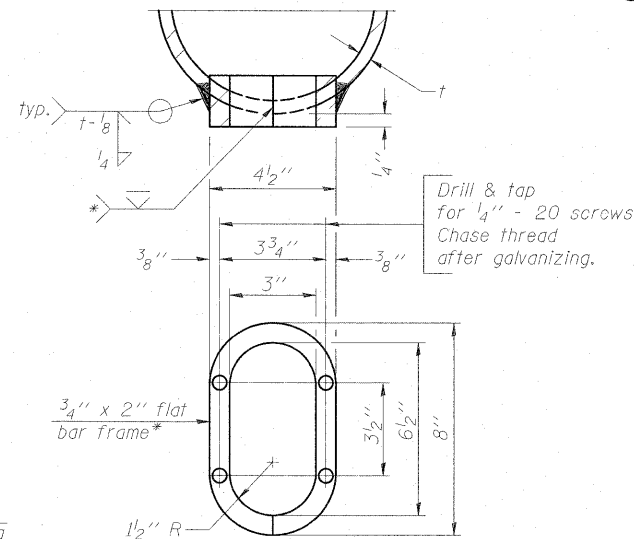
DETAIL B
(Typical rib)



FRONT ELEVATION



HANDHOLE COVER



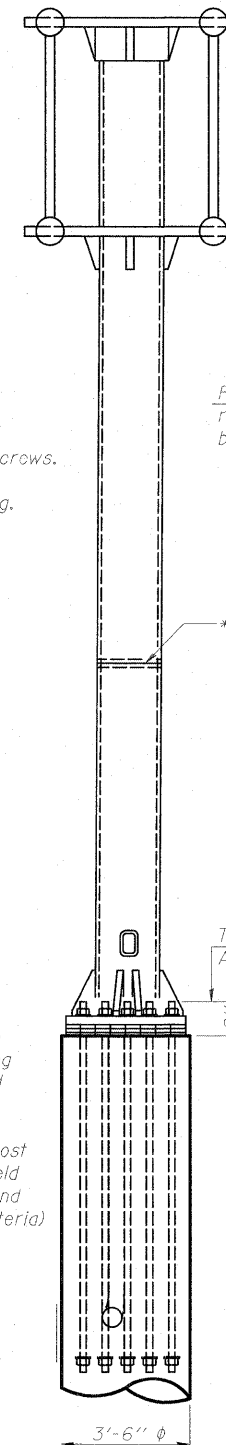
DETAIL A

* 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 500 μ in or less.

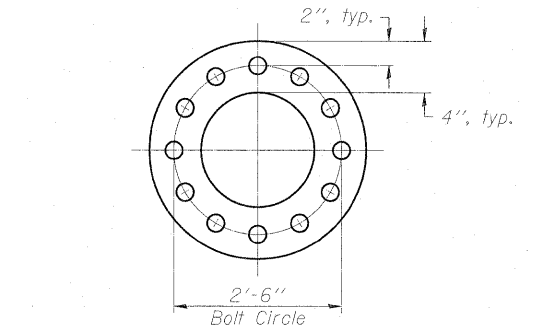
** Butt welded joint in post is only allowed for post heights (H) over 20 ft. in length. If used, weld procedure must be preapproved by Engineer and joint shall receive 100% RT or UT (tension criteria) at Contractor's expense.

Structure Number	Station	H
IC0991055R243.6	7002+81.4 RT	22'-1 3/8"
IC0991055R244.5	2002+00 RT	21'-2 1/4"
IC0991055R245.0	1086+26 LT	22'-1 3/8"

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



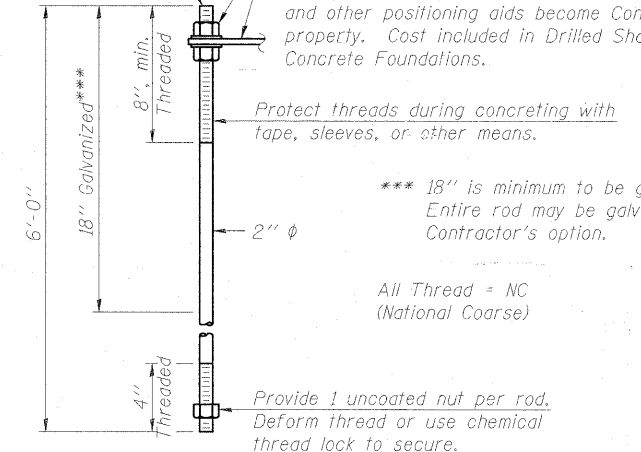
SIDE ELEVATION



SUGGESTED POSITIONING PLATE

For UT, grind top of rod square and smooth before galvanizing.

Utilize positioning plate and temporary nuts with leveling nuts or other Engineer approved methods to maintain anchor bolts' alignment during concrete placement. Plate, extra nuts and other positioning aids become Contractor's property. Cost included in Drilled Shaft Concrete Foundations.



*** 18" is minimum to be galvanized. Entire rod may be galvanized at Contractor's option.

All Thread = NC (National Coarse)

Provide 1 uncoated nut per rod. Deform thread or use chemical thread lock to secure.

ANCHOR ROD DETAIL

Anchor rods shall conform to AASHTO M314 Grade 105 and meet Charpy V-Notch (CVN) energy of 15 lb.-ft. at 10° F. before galvanizing. Galvanize the upper 18" (minimum***), and associated M291, Grade A, C or DH heavy hex nuts and hardened washers per AASHTO M232. No welding shall be permitted on rods. Provide an unfinished nut at bottom, a hexagon locknut and washer above base plate and a leveling nut and washer below base plate. Nuts shall each be tightened with 200 lb.-ft. minimum torque against base plate. Before or after threading, but before galvanizing, each anchor rod shall be ultrasonically tested (UT) by a Level II or III inspector, qualified in accord with ANSI guidelines, using a straight beam, 1/2" ϕ 3.5 mhz. transducer, to insure no rejectable flaws exist in the upper 18" (tension criteria). Cost of testing included in Drilled Shaft Concrete Foundations.

CANTILEVER SIGN STRUCTURES
TYPE II-C-A & III-C-A TRUSS SUPPORT POST
ALUMINUM TRUSS & STEEL POST
F.A.I. RT. 55 - SEC. (99-1&2)R-6
WILL COUNTY

DESIGNED
CHECKED
DRAWN
CHECKED

OSC-A-5

12-1-08

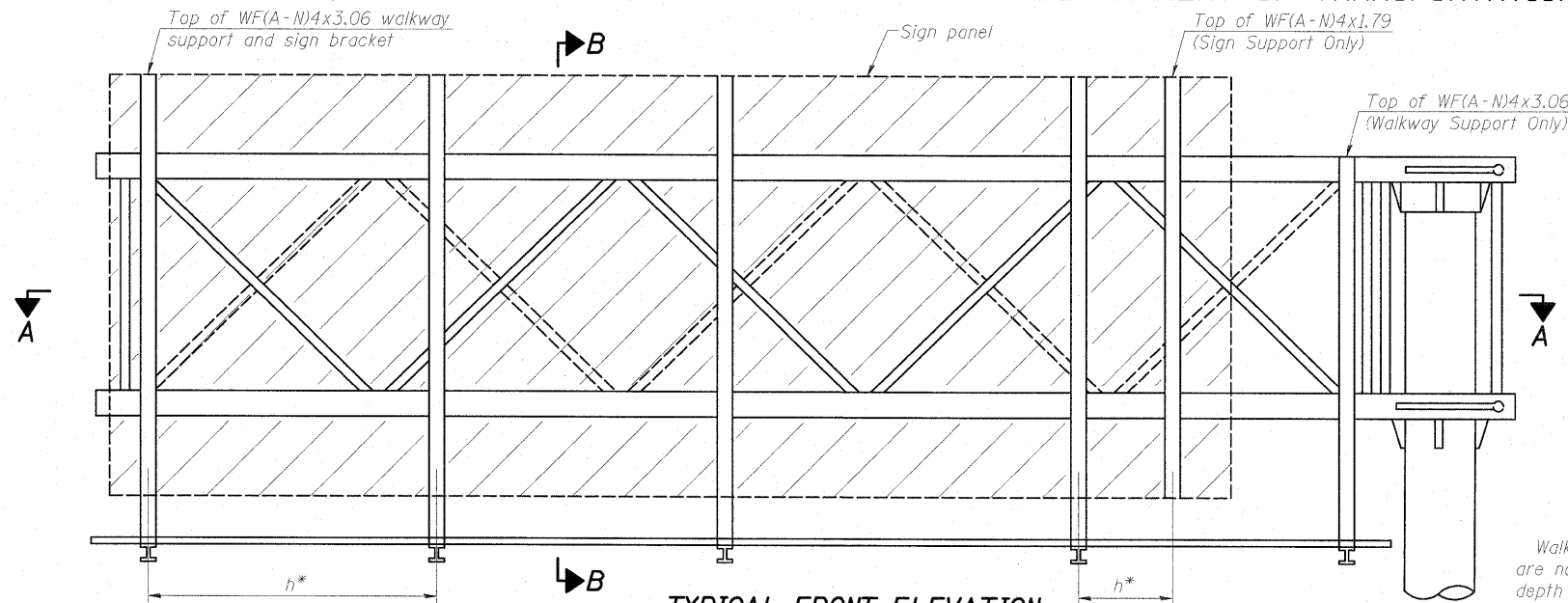
NUMBER	REVISION	DATE



McDonough Associates Inc.
Engineers / Architects
130 East Randolph Street
Chicago, Illinois 60601
(312) 946-8600

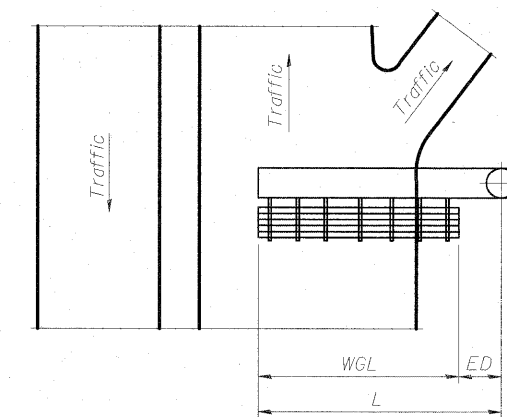
SHEET NO. SD-18 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	55	(99-1&2) R-6	WILL	756	322
CONTRACT NO. 60F12					
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

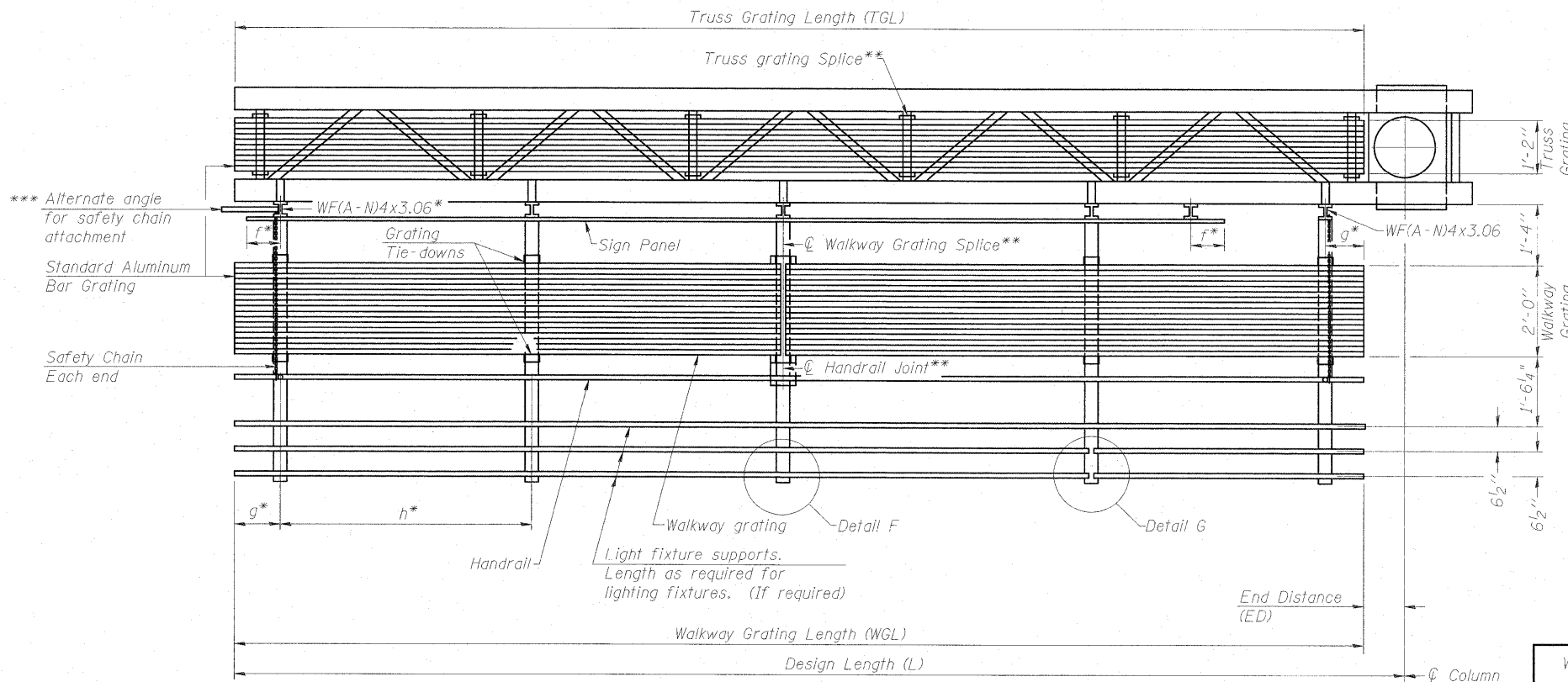


TYPICAL FRONT ELEVATION
With lights and handrail omitted for clarity.

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



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



*** Alternate angle for safety chain attachment
Standard Aluminum Bar Grating
Safety Chain Each end

Structure Number	Station	WGL	ED	TGL

Notes:
Space walkway brackets WF(A-N)4x3.06 and sign brackets WF(A-N)4x1.79 for efficiency and within limits shown:
f = 12" maximum, 4" minimum (End of sign to center of nearest bracket)
g = 12" maximum, 4" minimum (End of walkway to center of nearest bracket)
h = 6'-0" maximum (center to center sign and/or walkway support brackets, WF(A-N)4x1.79 or WF(A-N)4x3.06)
*** If walkway bracket at safety chain location is behind sign, add angle to bracket. See alternate safety chain attachment on base sheet OSC-A-8.
For details of sign placement, sign/walkway brackets, truss and walkway gratings, grating splices and Section B-B, see Base Sheet OSC-A-7.
For details of handrail, handrail joint, safety chain and Details F and G, see Base Sheet OSC-A-8.

BRACKET TABLE

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

WALKWAY, GRATING, HANDRAIL, AND LIGHT FIGURE ARE NOT REQUIRED

**CANTILEVER SIGN STRUCTURES
ALUMINUM WALKWAY DETAILS
ALUMINUM TRUSS & STEEL POST
F.A.I. RT. 55 - SEC. (99-1&2)R-6
WILL COUNTY**

Truss grating to facilitate inspection shall run full length of cantilevers. Cost of truss grating is included in Overhead Sign Structure Cantilever.
Handrail and walkway grating shall span a minimum of three brackets between splices.
** Use and location of handrail joints or grating splices are optional, based on lengths needed and material availability.
$$TGL = L - \left(\frac{\text{Post O.D.}}{2} + 6'' \right)$$

DESIGNED
CHECKED
DRAWN
CHECKED

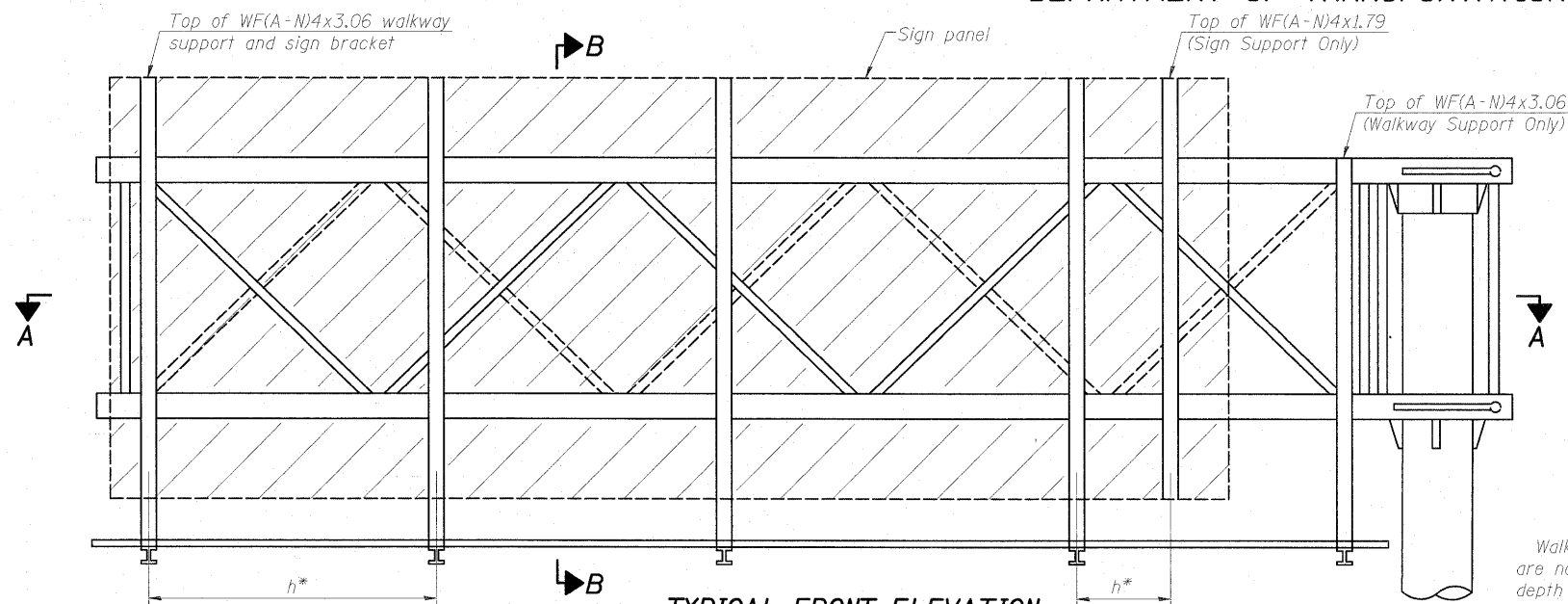
NUMBER	REVISION	DATE

OSC-A-6 12-1-08

McDonough Associates Inc.
Engineers / Architects
130 East Randolph Street
Chicago, Illinois 60601
(312) 946-8600

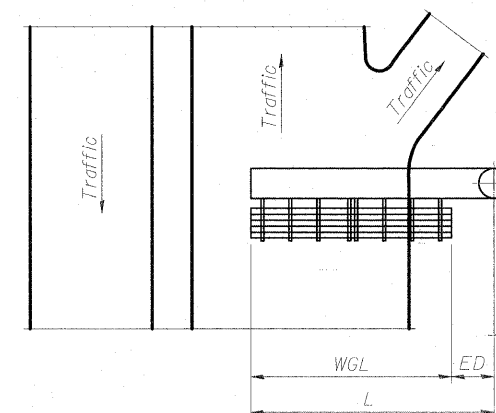
SHEET NO. SD-19 SHEETS	F.A.I. RTE. 55	SECTION (99-1&2) R-6	COUNTY WILL	TOTAL SHEETS 756	SHEET NO. 323
	CONTRACT NO. 60F12				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

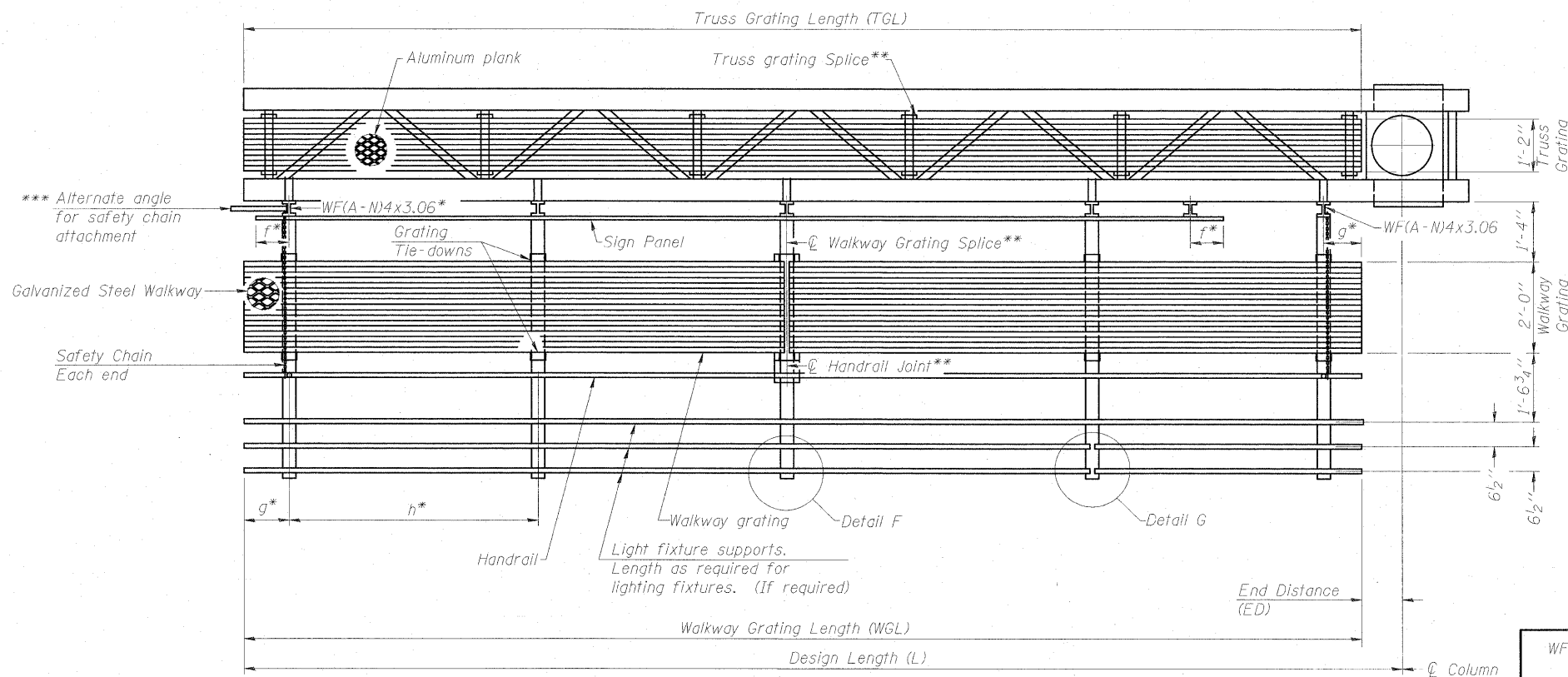


TYPICAL FRONT ELEVATION
With lights and handrail omitted for clarity.

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



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



SECTION A-A

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

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

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

NUMBER	REVISION	DATE

Structure Number	Station	WGL	ED	TGL

Notes:
Space walkway brackets WF(A-N)4x3.06 and sign brackets WF(A-N)4x1.79 for efficiency and within limits shown:
f = 12" maximum, 4" minimum (End of sign to C of nearest bracket)
g = 12" maximum, 4" minimum (End of walkway to C of nearest bracket)
h = 6'-0" maximum (C to C sign and/or walkway support brackets, WF(A-N)4x1.79 or WF(A-N)4x3.06)

*** If walkway bracket at safety chain location is behind sign, add angle to bracket. See alternate safety chain attachment on base sheet OSC-A-8.

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

BRACKET TABLE

Sign Width		Number Brackets Required
Greater Than	Less Than or Equal To	
8'-0"	14'-0"	2
14'-0"	20'-0"	3
20'-0"	26'-0"	4
26'-0"	32'-0"	5
32'-0"	38'-0"	6

**WALKWAY, GRATING, HANDRAIL,
AND LIGHT FIGTURE ARE NOT REQUIRED**

**CANTILEVER SIGN STRUCTURES
ALTERNATE STEEL WALKWAY DETAILS
ALUMINUM TRUSS & STEEL POST
F.A.I. RT. 55 - SEC. (99-1&2)R-6
WILL COUNTY**

DESIGNED
CHECKED
DRAWN
CHECKED

OSC-A-6S

12-1-08

McDonough Associates Inc.
Engineers / Architects
130 East Randolph Street
Chicago, Illinois 60601
(312) 946-8600

SHEET NO. SD-20 SHEETS	F.A.I. RTE. 55	SECTION (99-1&2) R-6	COUNTY WILL	TOTAL SHEETS 756	SHEET NO. 324
	CONTRACT NO. 60F12				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

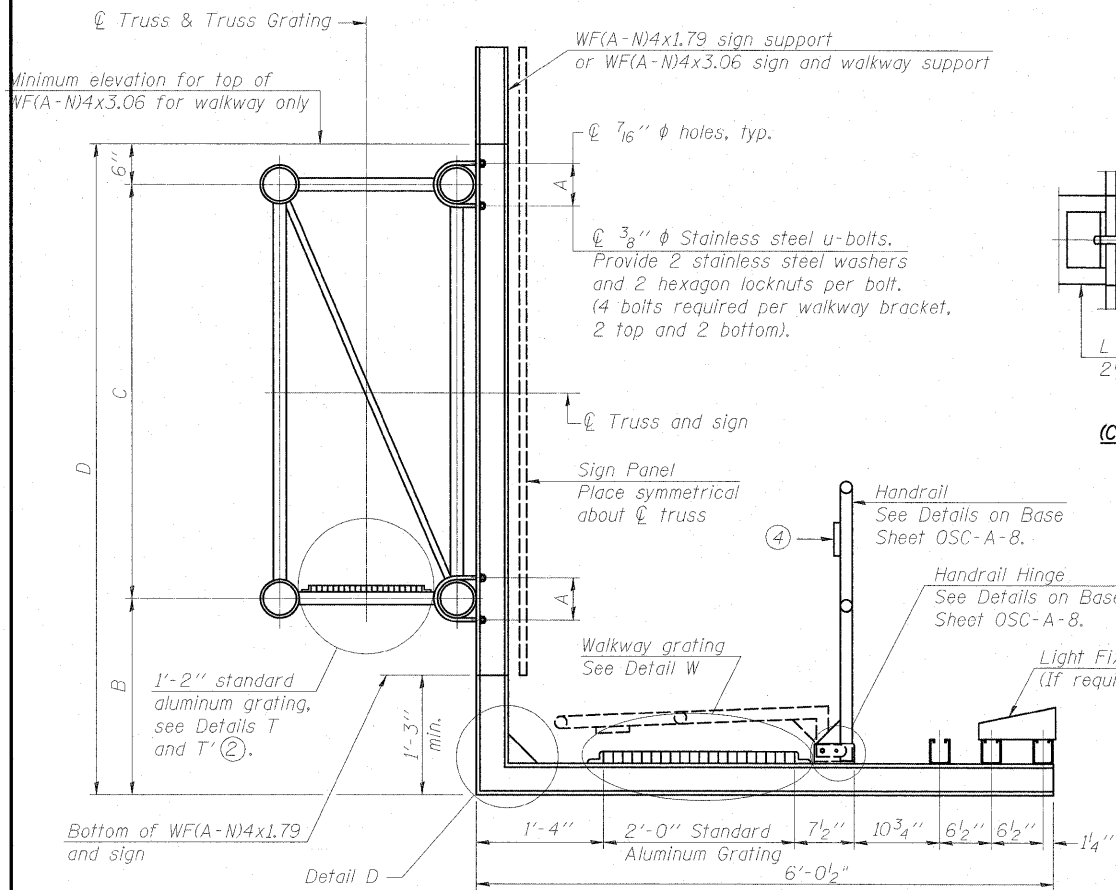
SPECIFICATIONS FOR STANDARD ALUMINUM GRATING

Main Bearing Bars (MBB) shall be $\frac{3}{16}$ " x $\frac{1}{2}$ " on $1\frac{3}{16}$ " centers and conform to ASTM B211 Alloy 6061-T6.
Cross bars (CB) shall be $\frac{3}{16}$ " x $\frac{1}{2}$ " on 4" centers and conform to ASTM B221 Alloy 6063-T5 or 6061-T6.

OR

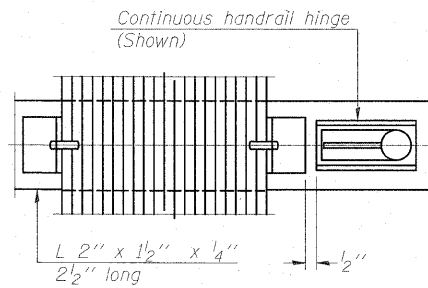
Aluminum Grating with modified "T" sections for main bearing bars shall meet the following requirements:

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 $\frac{1}{2}$ ", spaced on $1\frac{3}{16}$ " centers.
Cross bars shall conform to ASTM B221 Alloy 6063-T5 or T-42 and spaced on 4" centers.



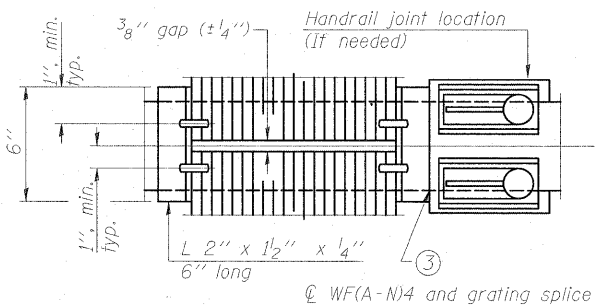
SECTION B-B

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

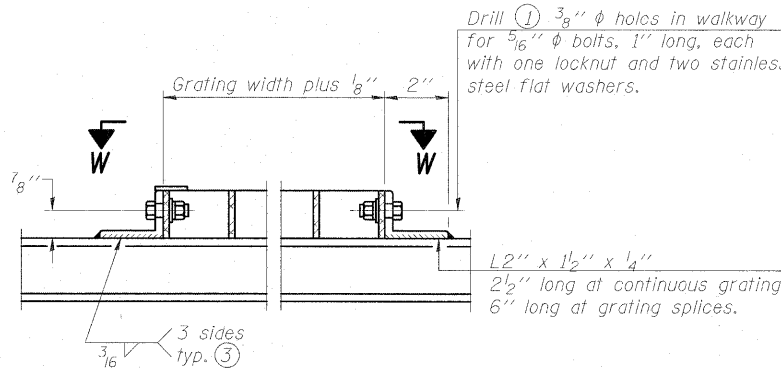


(CONTINUOUS WALKWAY GRATING)

SECTION W-W

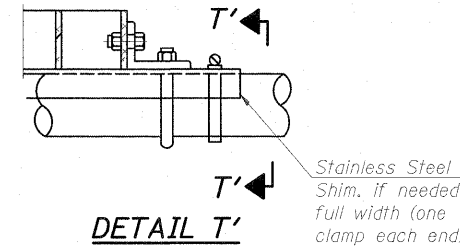


(AT WALKWAY GRATING SPLICE)



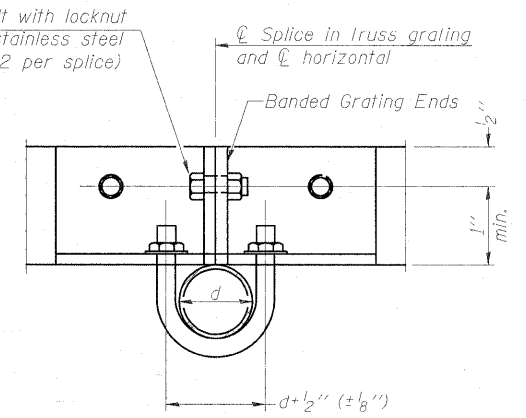
DETAIL W

(Walkway grating)



DETAIL T'

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

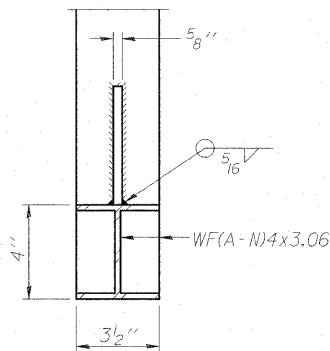


SECTION T'-T'

ELEVATION

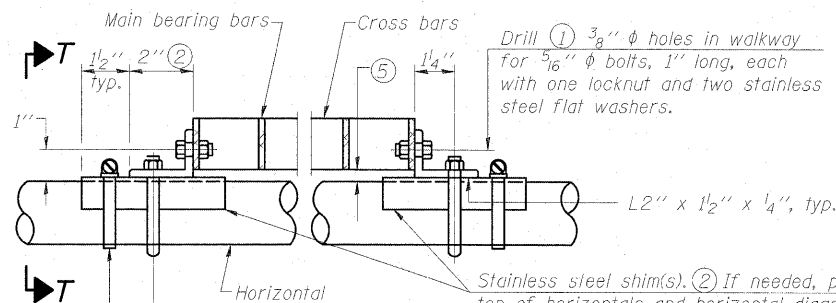
END VIEW

SHIM DETAIL



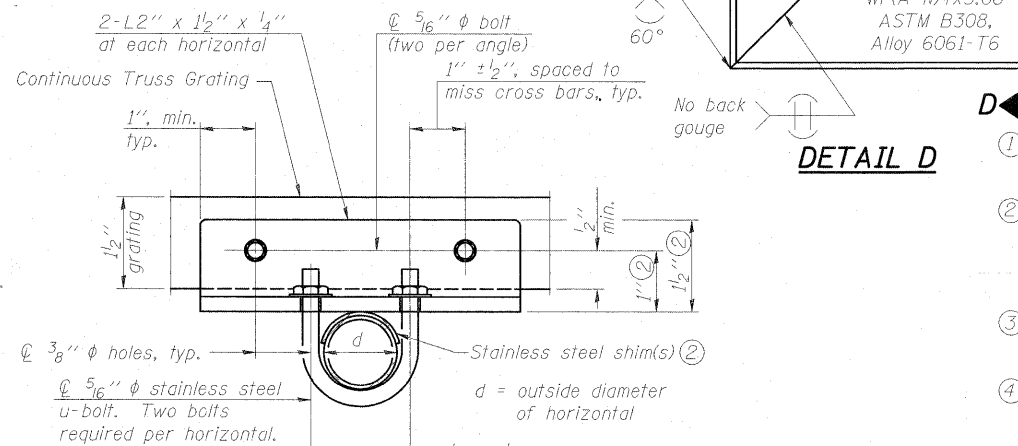
SECTION D-D

Screw type stainless steel tube clamp at shim location



DETAIL T

(Continuous Truss grating)



SECTION T-T

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

NUMBER	REVISION	DATE

Structure Number	Station	A	(6) B	C	(6) D

**WALKWAY, GRATING, HANDRAIL,
AND LIGHT FIXTURE ARE NOT REQUIRED**

**CANTILEVER SIGN STRUCTURES
WALKWAY DETAILS
ALUMINUM TRUSS & STEEL
F.A.I. RT. 55 - SEC. (99-1&2)R-6
WILL COUNTY**

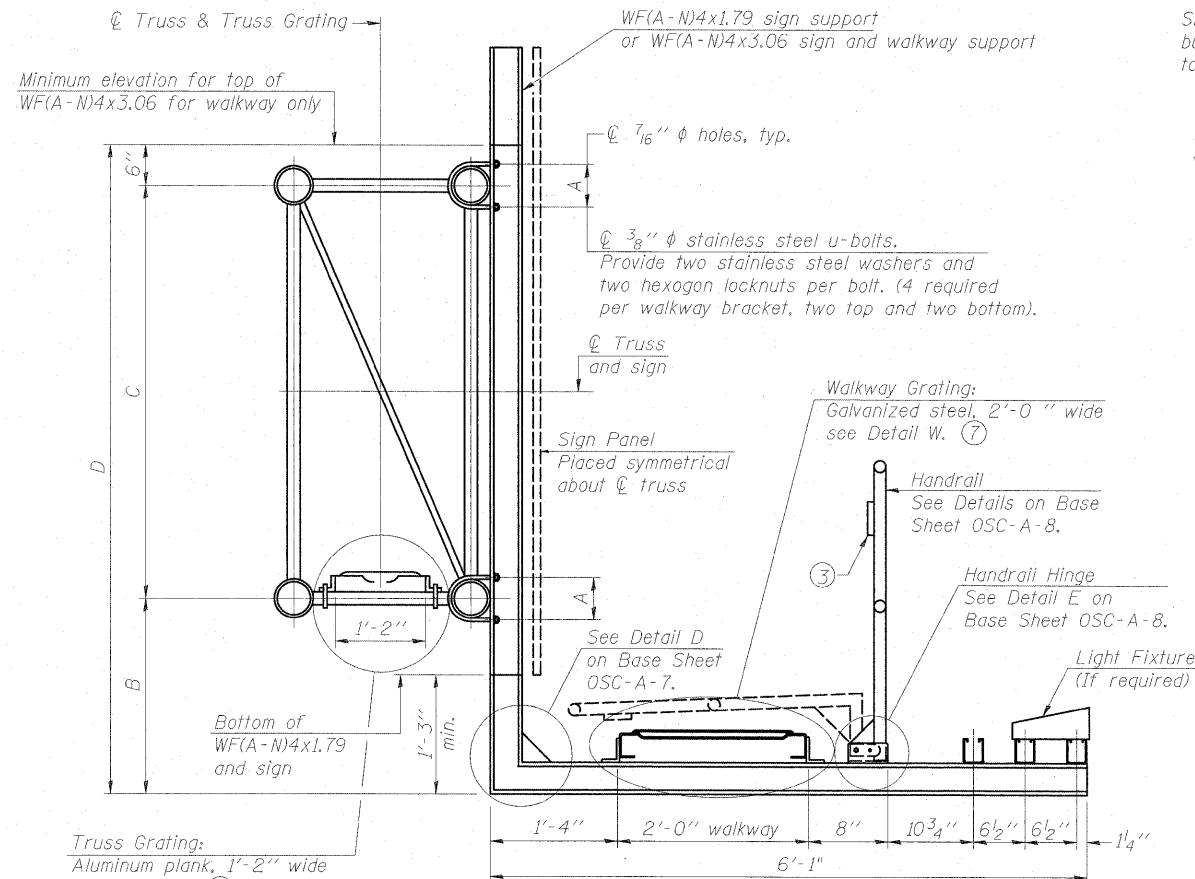
DESIGNED
CHECKED
DRAWN
CHECKED



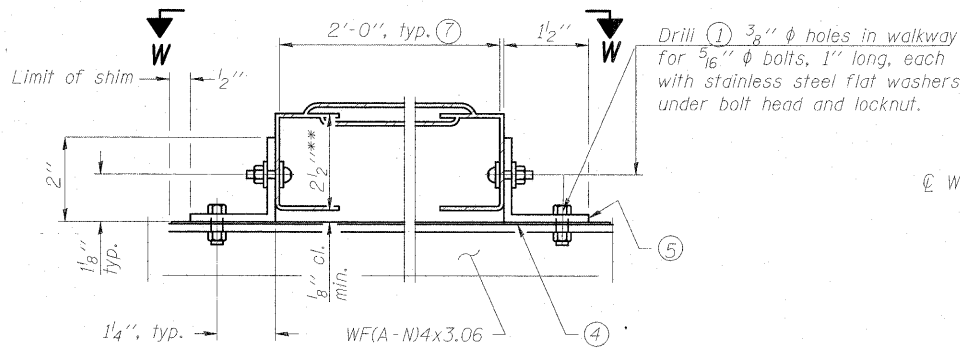
SHEET NO. SD-21 SHEETS	F.A.I. RTE. 55	SECTION (99-1&2) R-6	COUNTY WILL	TOTAL SHEETS 756	SHEET NO. 325
	CONTRACT NO. 60F12			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

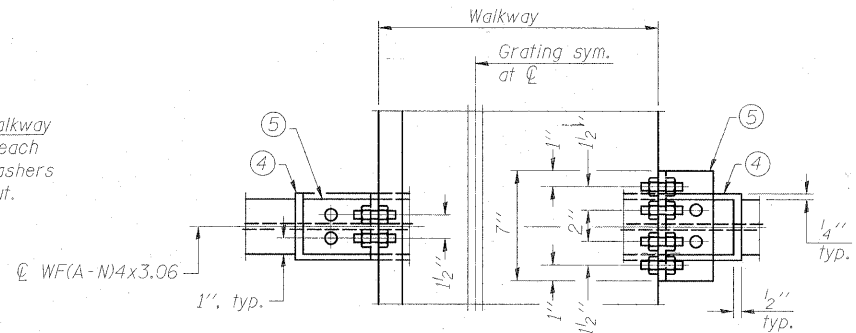
Sign shall be even with the top of the bracket, but it may extend no more than 6" above the top of the bracket for field adjustments.



SECTION B-B

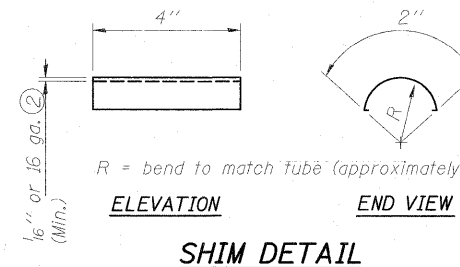


DETAIL W
GALVANIZED STEEL WALKWAY GRATING



WALKWAY GRATING CONTINUOUS AT WALKWAY GRATING SPLICE

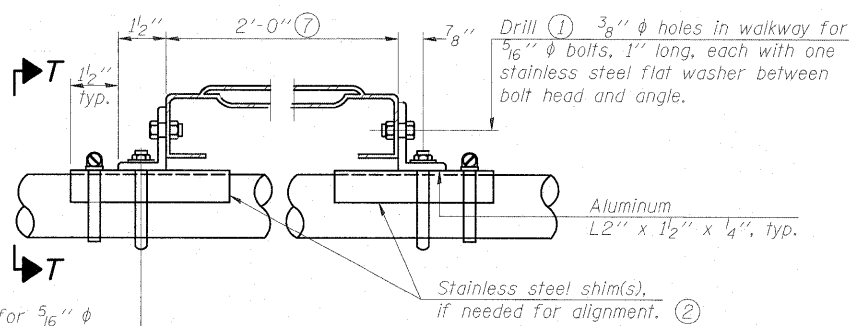
SECTION W-W



SHIM DETAIL

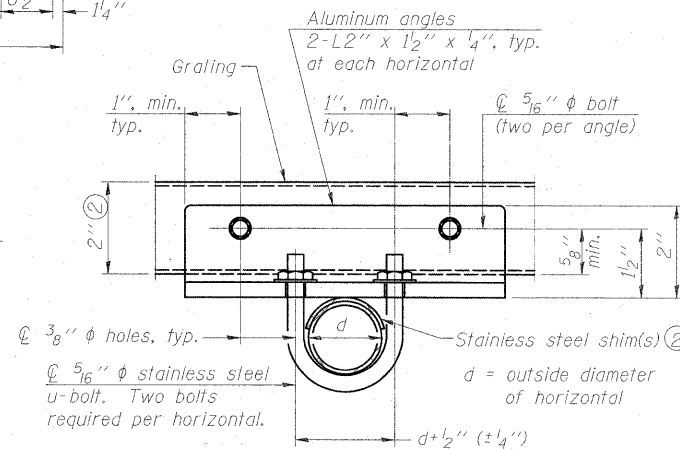
NUMBER	REVISION	DATE

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



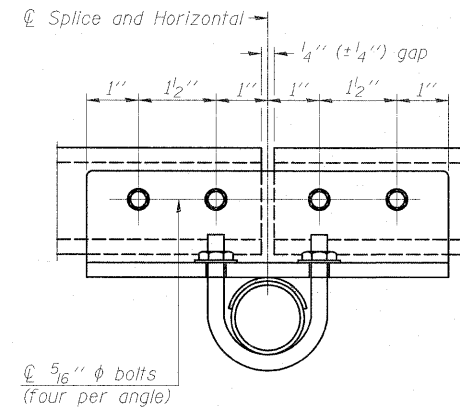
DETAIL T

(Truss grating at horizontal)



SECTION T-T

(Truss Grating Continuous)



SECTION T-T

(Truss Grating Splice)

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

ALUMINUM TRUSS GRATING

WALKWAY, GRATING, HANDRAIL,
AND LIGHT FIGURE ARE NOT REQUIRED

CANTILEVER SIGN STRUCTURES
ALTERNATE WALKWAY DETAILS
F.A.I. RT. 55 - SEC. (99-1&2)R-6
WILL COUNTY

Structure Number	Station	A	(8) B	C	(8) D

DESIGNED
CHECKED
DRAWN
CHECKED

OSC-A-7S

6-1-09

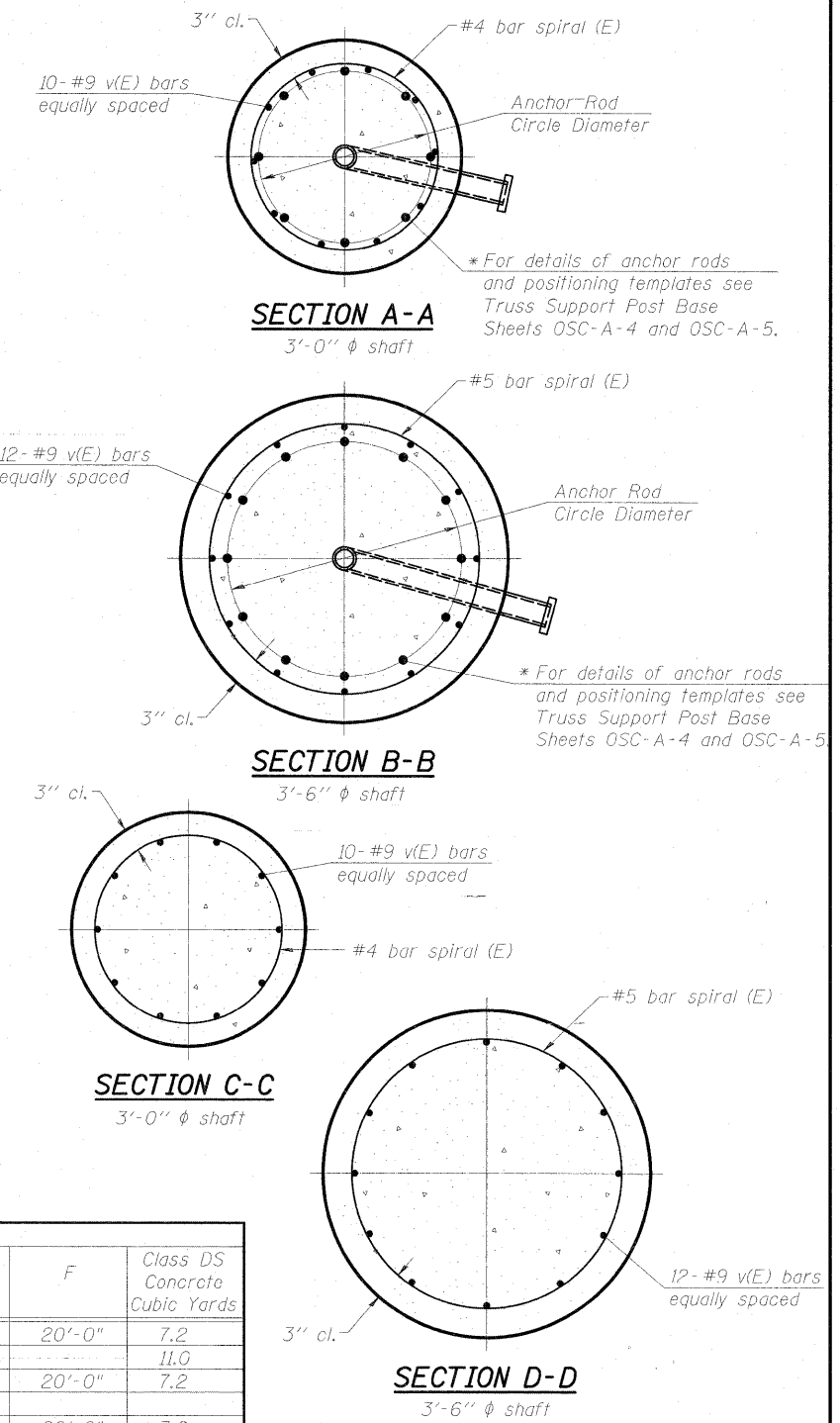
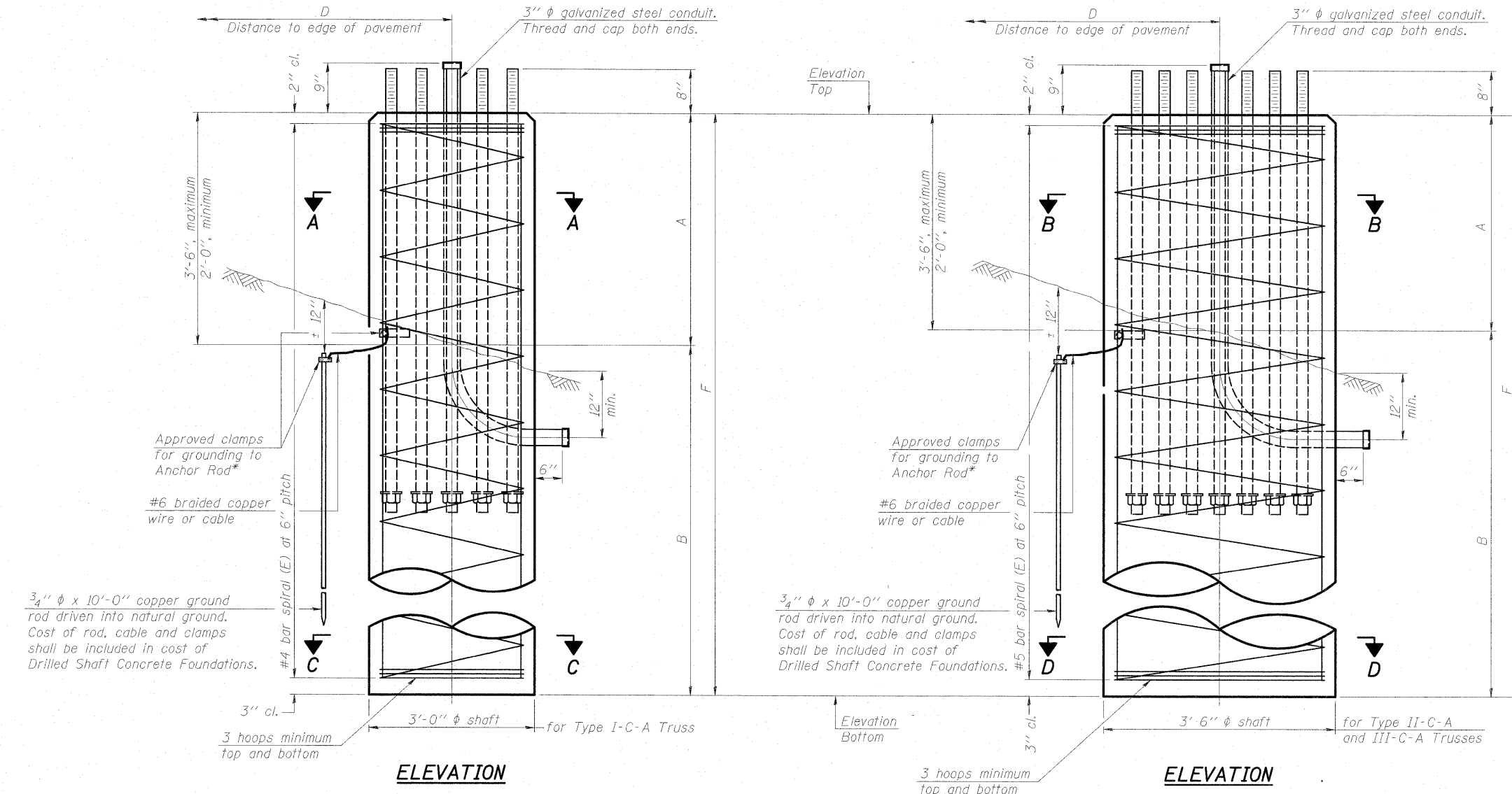


McDonough Associates Inc.
Engineers / Architects
130 East Randolph Street
Chicago, Illinois 60601
(312) 946-8600

SHEET NO. SD-22 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	55	(99-1&2) R-6	WILL	756	326
CONTRACT NO. 60F12					
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



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 (Q_u) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown in the Foundation Data Table will be the result of site specific designs.
If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.
No sonotubes or decomposable forms shall be used below the lower conduit entrance. Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.
Concrete shall be placed monolithically, without construction joints.
Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.
A normal surface finish followed by a Bridge Seat Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in "Drilled Shaft Concrete Foundation".

Structure Number	Station	Truss Type	Shaft Diameter	Elevation Top	Elevation Bottom	Q_u	A	B	F	Class DS Concrete Cubic Yards
IC0991055R243.6	7002+81.40 RT	II-C-A	3'-6"	525.20	505.20	ROCK	3'-0"	17'-0"	20'-0"	7.2
IC0991017R244.5 (SEE NOTE "B")	907+05.00 LT	I-C-A	3'-0"	541.73	516.79	ROCK	-	-	-	11.0
IC0991055R244.5	2002+00.00 RT	III-C-A	3'-6"	536.59	516.59	ROCK	3'-0"	17'-0"	20'-0"	7.2
IC0991055R245.0	1086+26.00 LT	II-C-A	3'-6"	546.18	526.18	ROCK	3'-0"	17'-0"	20'-0"	7.2

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

Note "A"
For Top of Rock Elevations and Rock excavation quantities, See Sht SD-26.

Note "B"
For Shaft Elevations, Sections and Rock excavation quantities, See Sht SD-26.

**CANTILEVER SIGN STRUCTURES
DRILLED SHAFT
ALUMINUM TRUSS & STEEL POST
F.A.I. RT. 55 - SEC. (99-1&2)R-6
WILL COUNTY**

DESIGNED
CHECKED
DRAWN
CHECKED

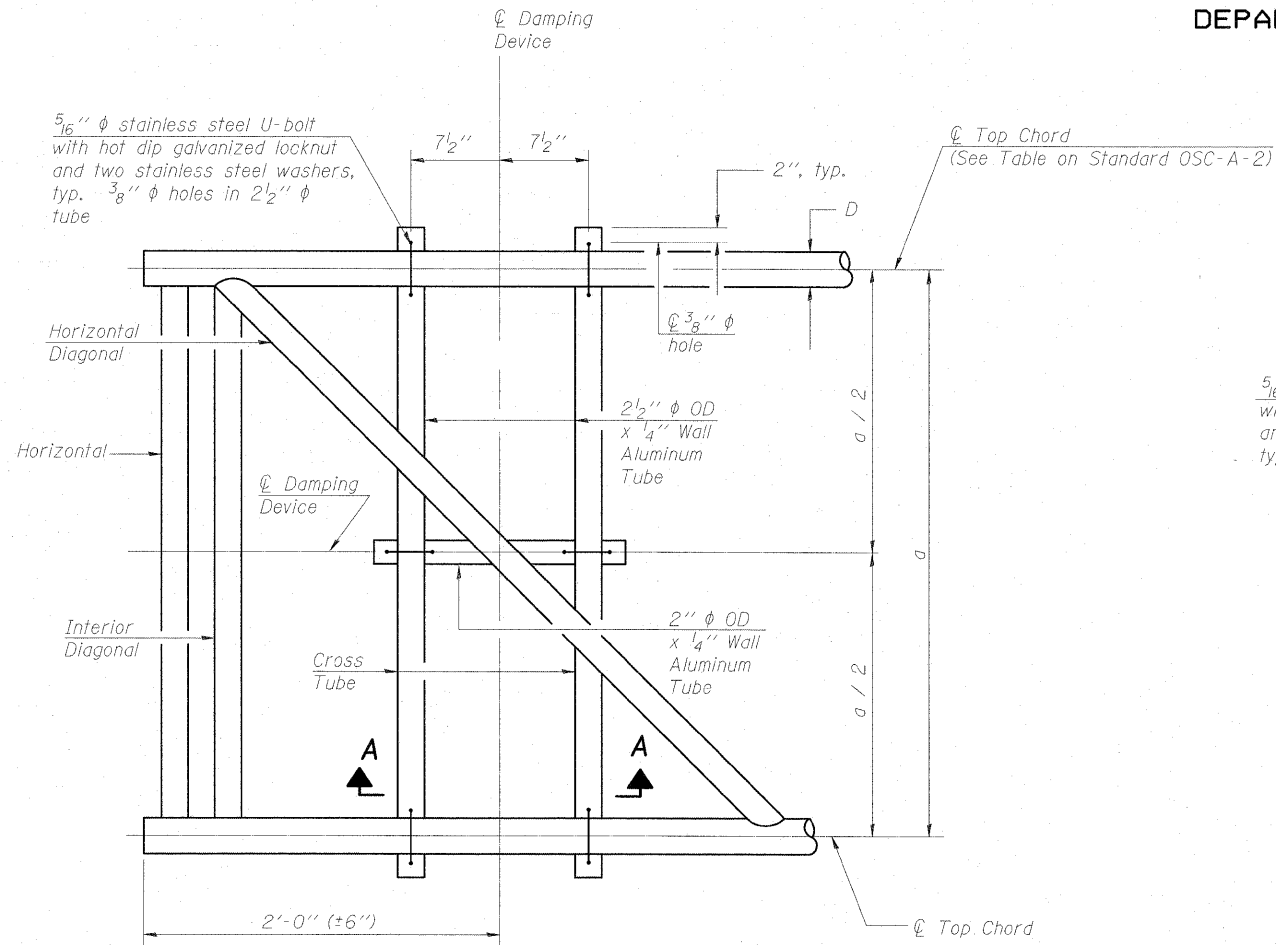
NUMBER	REVISION	DATE

OSC-A-9 12-1-08

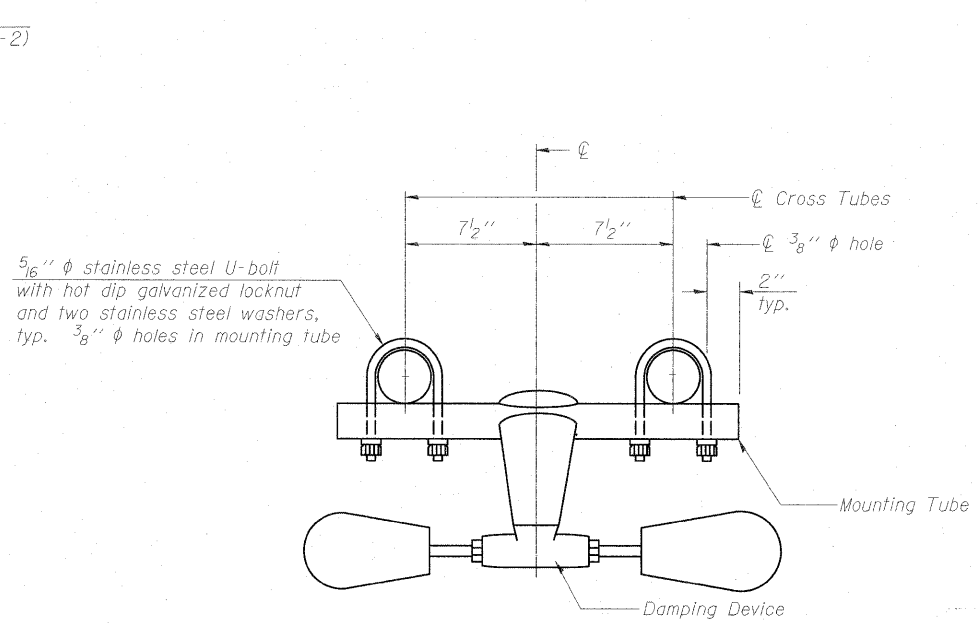
McDonough Associates Inc.
Engineers / Architects
130 East Randolph Street
Chicago, Illinois 60601
(312) 946-8600

SHEET NO. SD-24 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	55	(99-1&2) R-6	WILL	756	328
CONTRACT NO. 60F12					
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

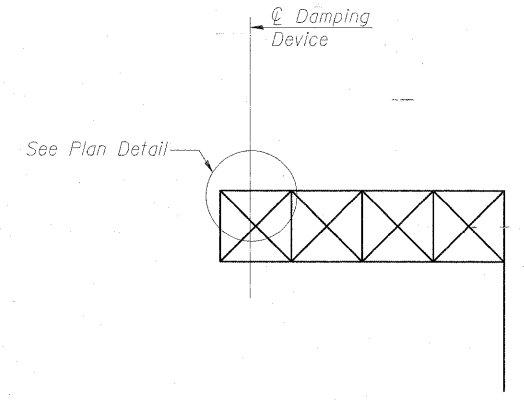
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



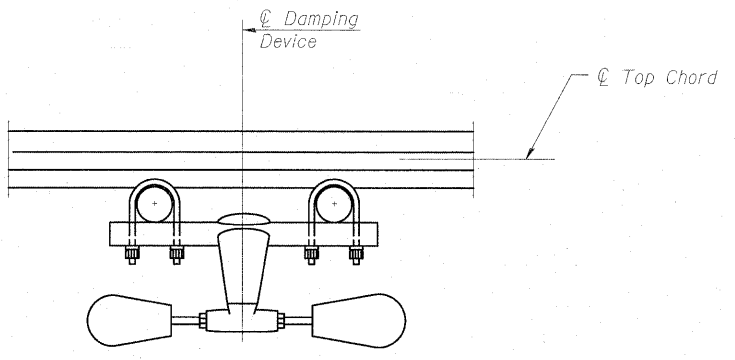
PLAN DETAIL



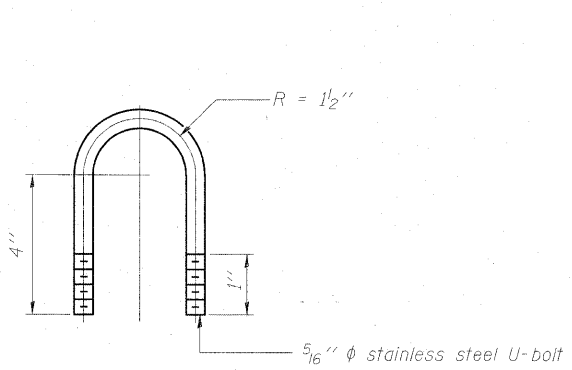
TRUSS DAMPING DEVICE CONNECTION DETAIL



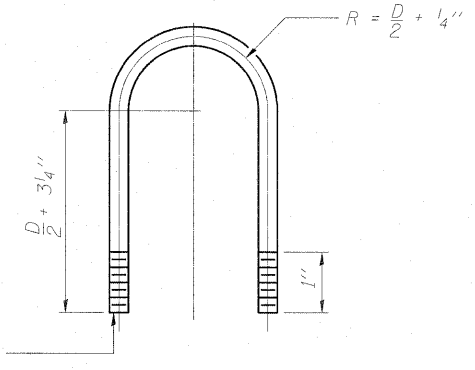
ELEVATION
Aluminum Cantilever Sign Structure



SECTION A-A



DAMPING DEVICE MOUNTING TUBE U-BOLT DETAIL
(Typical)



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

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

**CANTILEVER SIGN STRUCTURE
DAMPING DEVICE
F.A.I. RT. 55 - SEC. (99-1&2)R-6
WILL COUNTY**

DESIGNED
CHECKED
DRAWN
CHECKED

OSC-A-D 12-1-08

McDonough Associates Inc.
Engineers / Architects
130 East Randolph Street
Chicago, Illinois 60601
(312) 946-8600

SHEET NO. SD-25 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	55	(99-1&2) R-6	WILL	756	329
			CONTRACT NO. 60F12		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BILL OF MATERIAL

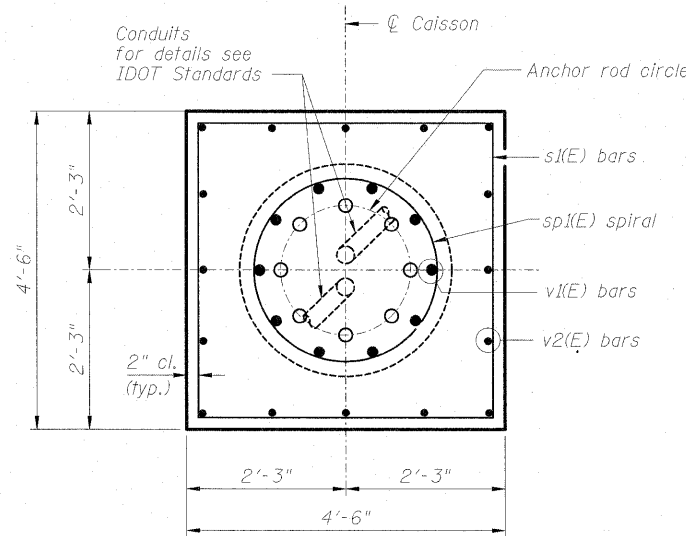
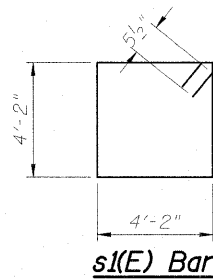
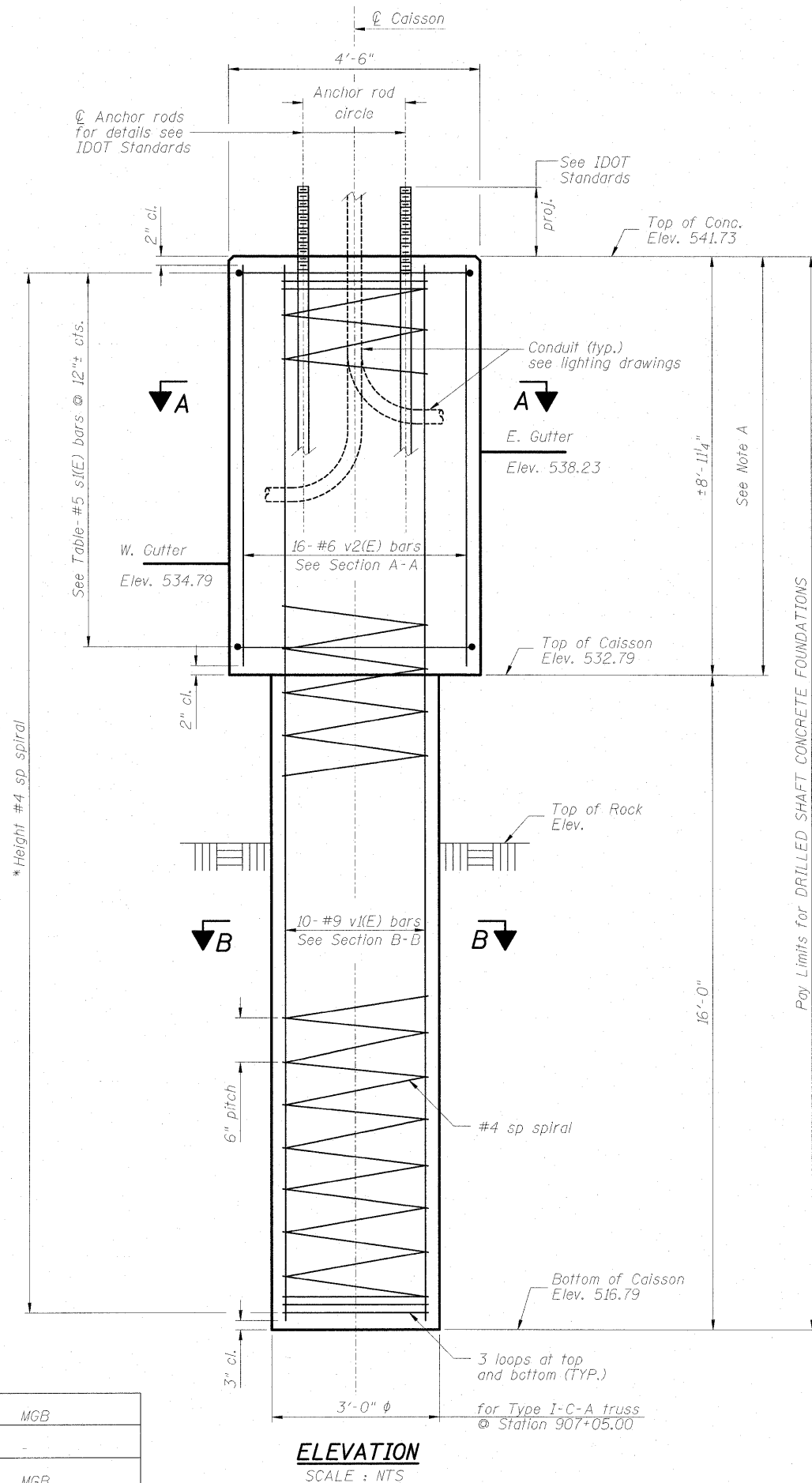
STR NO: IC099L017R244.5				
Bar	No.	Size	Length	Shape
sp1(E)	1	#4	*24'-6 1/4"	WWM
s1(E)	10	#5	17'-7"	□
v1(E)	10	#9	24'-6 1/4"	—
v2(E)	16	#6	8'-7 1/4"	—

* Length is height of spiral.

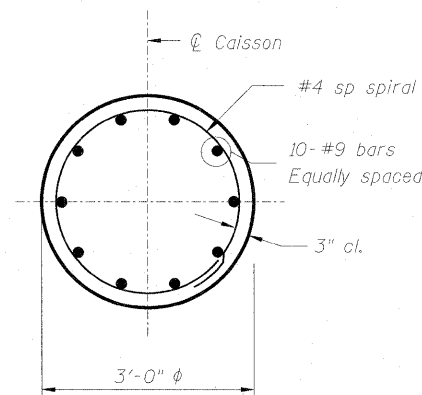
Structure Number	Top of Rock Elev.	Rock Excavation cu yd.
IC099I055R243.6	518.75	5.0
IC099I 017R244.5	530.90	4.0
IC099I055R244.5	530.50	5.0
IC099I055R245.0	539.40	5.0

NOTE "A":

The Concrete, Reinforcement bars & Formwork Will be paid for under the item DRILLED SHAFT CONCRETE FOUNDATIONS.



SECTION A-A
SCALE : NTS



SECTION B-B
SCALE : NTS

DESIGNED	MGB
CHECKED	
DRAWN	MGB
CHECKED	

ELEVATION
SCALE : NTS

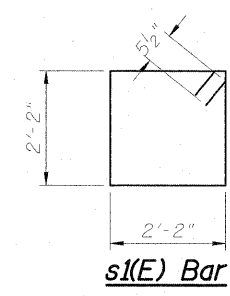
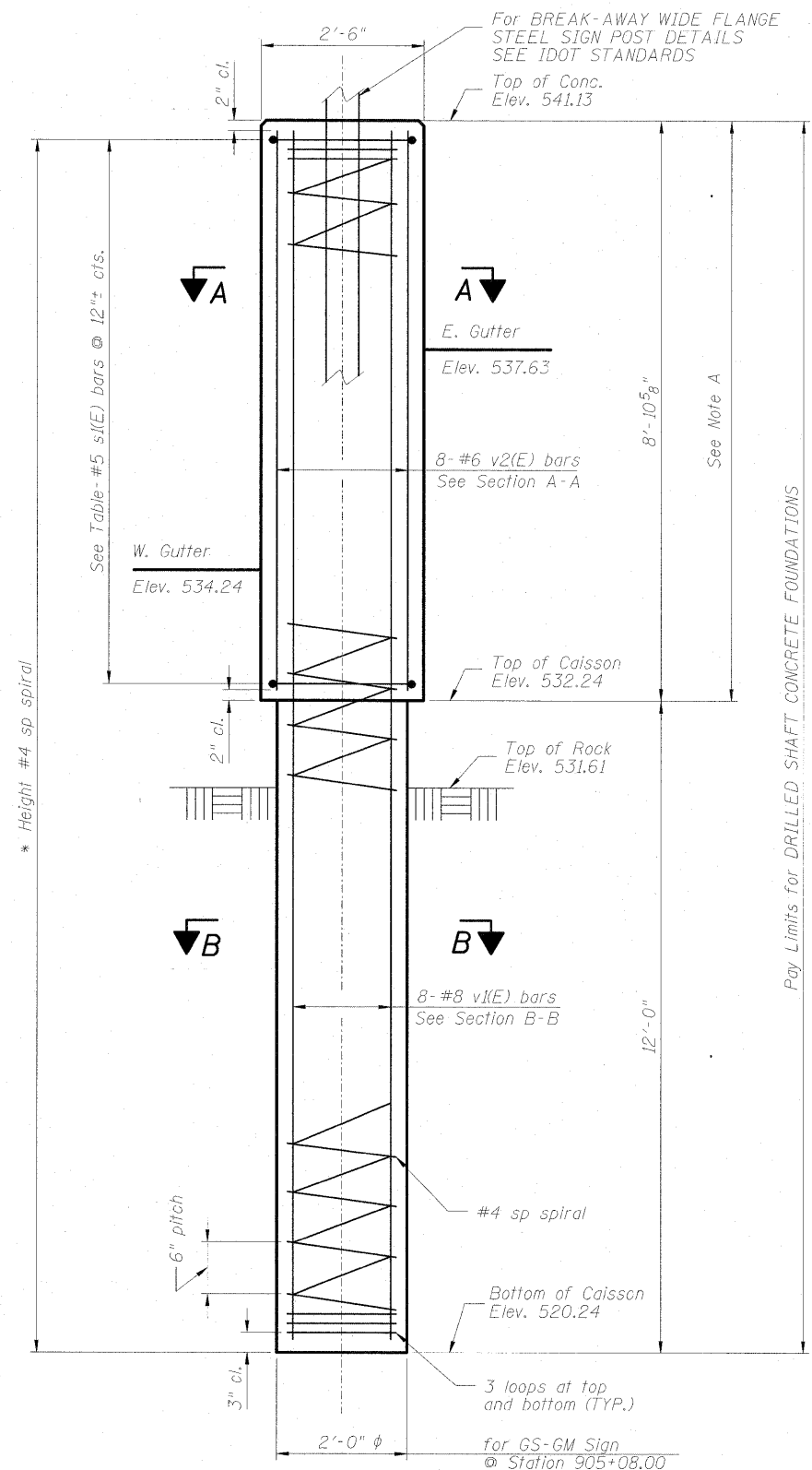
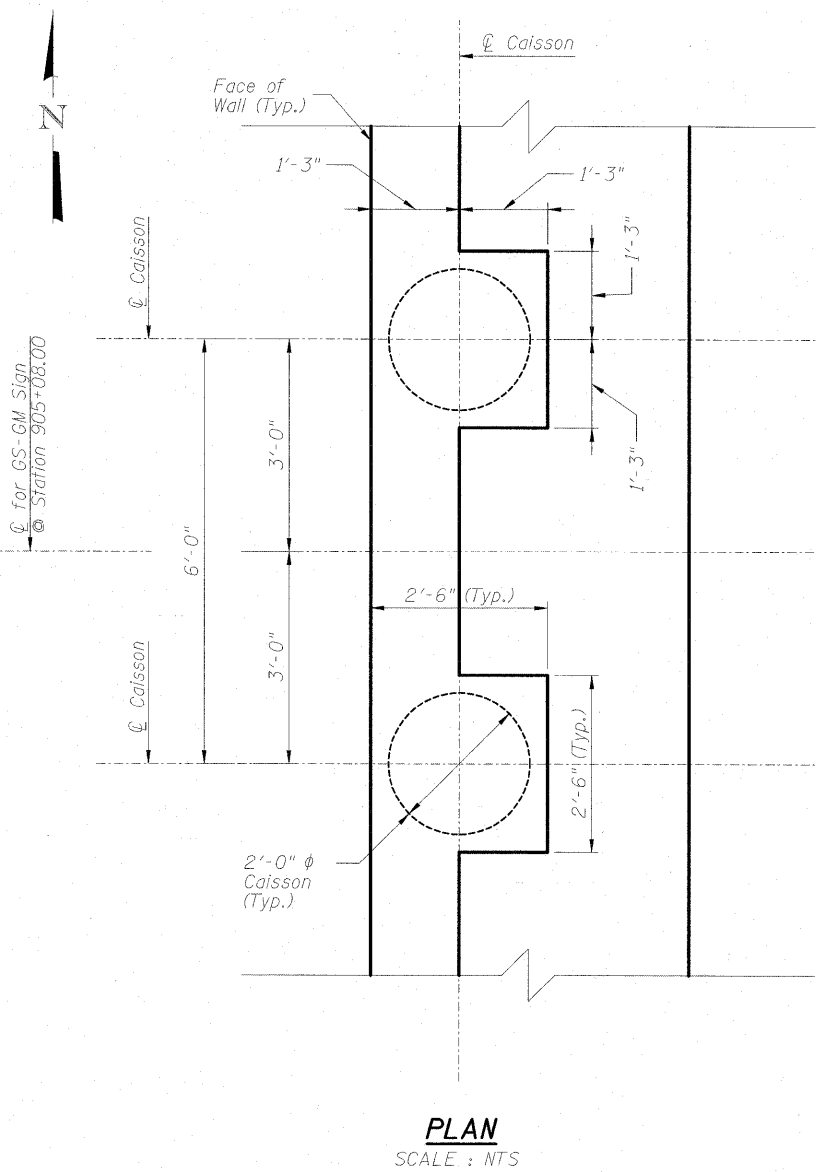
**SIGN STRUCTURE FOUNDATION
DETAILS**



McDonough Associates Inc.
Engineers / Architects
130 East Randolph Street
Chicago, Illinois 60601
(312) 946-8600

SHEET NO. SD-26 SHEET	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	55	(99-1&2) R-6	WILL	756	330
CONTRACT NO. 60F12					
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

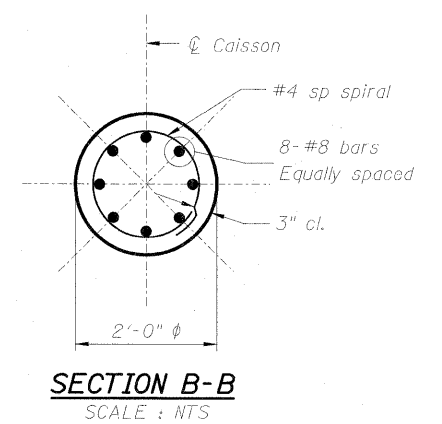
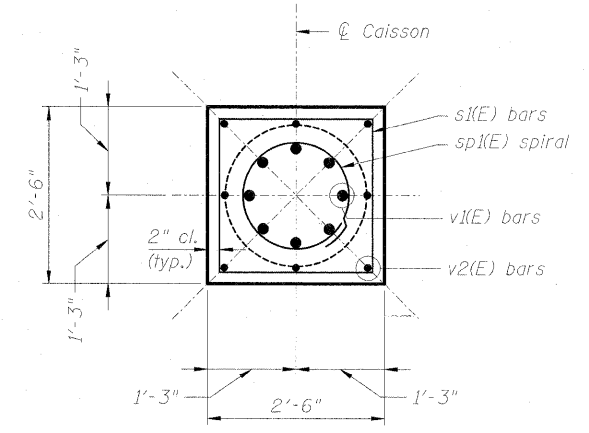


BILL OF MATERIAL

For GS-GM Sign				
Bar	No.	Size	Length	Shape
sp1(E)	2	#4	*20'-5"	WWM
s1(E)	20	#5	9'-7"	□
v1(E)	16	#8	20'-5"	—
v2(E)	16	#6	8'-6"	—

* Length is height of spiral.

Item	Unit	Total
Class DS Concrete	Cu. Yd.	3.6
Rock Excavation	Cu. Yd.	2.0



NOTE "A":

The Concrete, Reinforcement bars & Formwork
Will be paid for under the item
DRILLED SHAFT CONCRETE FOUNDATIONS.

SIGN STRUCTURE FOUNDATION
DETAILS

DESIGNED	MGB
CHECKED	
DRAWN	MGB
CHECKED	

McDonough Associates Inc.
Engineers / Architects
130 East Randolph Street
Chicago, Illinois 60601
(312) 946-8600

SHEET NO. SD-27 SHEET	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	55	(99-1&2) R-6	WILL	756	331
CONTRACT NO. 60F12					
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-2B-1	WILL	756	332
FED. ROAD DIST. NO. 1	ILLINOIS	CONTRACT NO.	60F12	

FOR INDEX OF SHEETS, SEE SHEET NO. 2 (VOLUME I)
 FOR INDEX OF SHEETS, SEE SHEET NO. 333 (VOLUME II)
 FOR INDEX OF SHEETS, SEE SHEET NO. 565 (VOLUME III)

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

**PROPOSED
 HIGHWAY PLANS**

**ROUTE FAI 55 (I-55)
 SECTION 99-2HB-2B-1
 PROJECT
 I-55 AT ARSENAL ROAD
 INTERCHANGE RECONSTRUCTION
 WILL COUNTY
 C-91-033-09**

STATION EQUATIONS:

STA 5025+24.74 BK C WEST FRONTAGE ROAD =
 STA 4000+00.00, 12.00' LT AH B RAMP D =
 STA 6000+00.00 AH C WEST FRONTAGE CONNECTOR

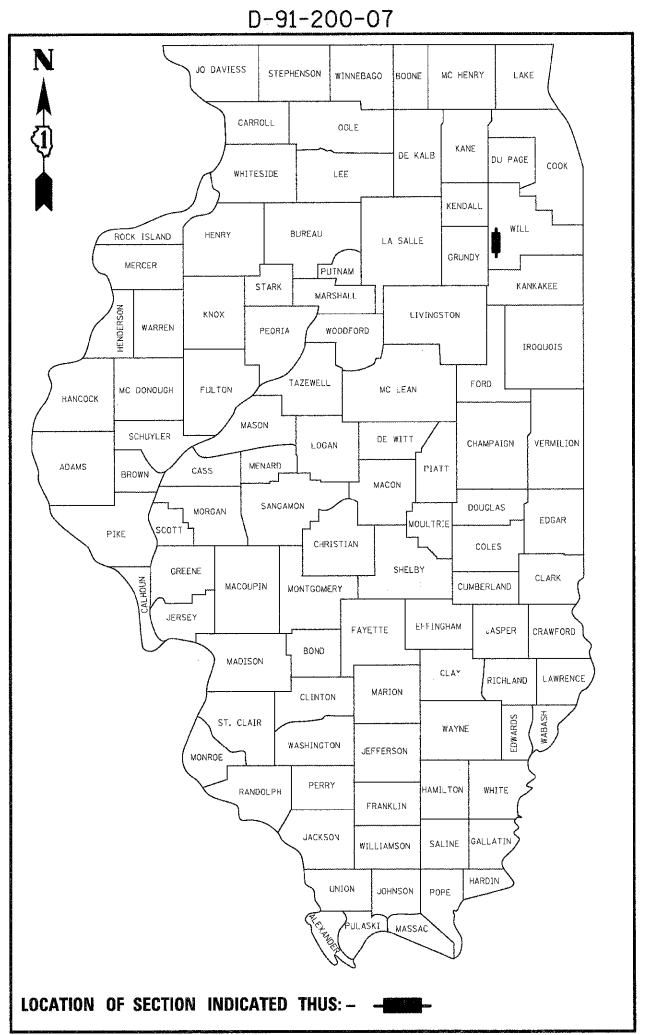
 STA 2038+02.19 BK C RAMP C (PT) =
 STA 100+00.00 AH C RAMD E (PC) =
 STA 7021+82.16, 36.00' RT BK B RAMP A

 STA 126+08.25, 21.00' LT BK END C RAMP E =
 STA 3000+00.00, 21.00' LT AH C RAMP B =
 STA 900+00.00 AH C ARSENAL ROAD =
 STA 1050+03.08, 146.78' RT C I-55

 STA 3059+93.02 C RAMP B =
 STA 1063+08.95, OFF 44.65' RT C I-55

 STA 1999+91.99 C RAMP C =
 STA 1058+95.57, OFF 44.11' LT C I-55

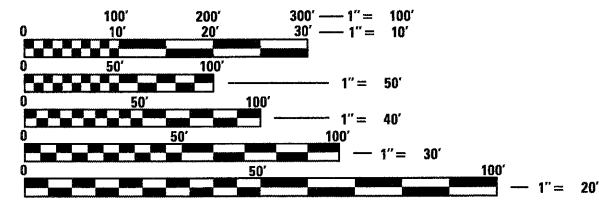
VOLUME II



DESIGN DESIGNATION

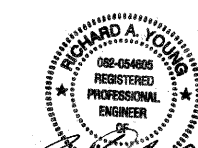
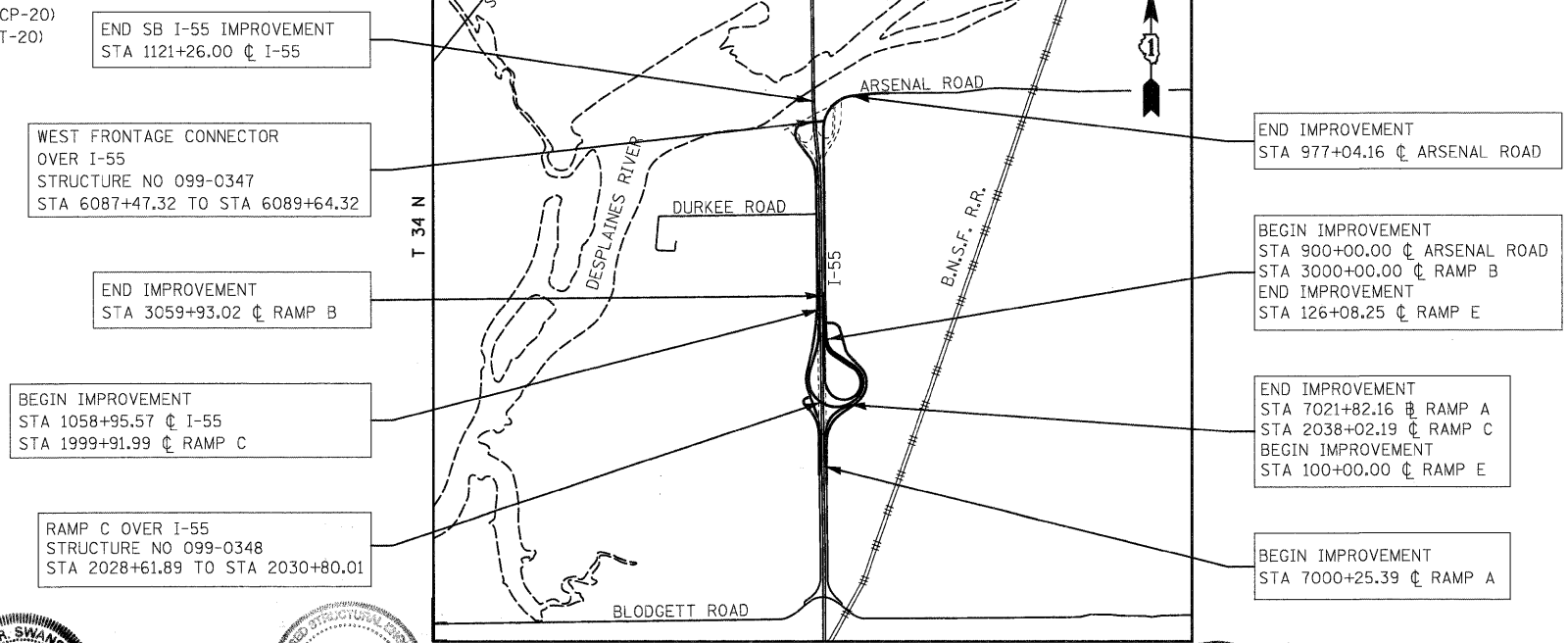
I-55 RAMP A	5700(10) INTERSTATE - CLASS I TRUCK ROUTE 11.34 (JPCP-20)
I-55 RAMP B	18500(10) INTERSTATE - CLASS I TRUCK ROUTE 18.20 (JPCP-20)
I-55 RAMP C	18500(10) INTERSTATE - CLASS I TRUCK ROUTE 18.20 (JPCP-20)
I-55 RAMP D	5400(10) INTERSTATE - CLASS I TRUCK ROUTE 11.34 (JPCP-20)
I-55 RAMP E	24200(10) INTERSTATE - CLASS I TRUCK ROUTE 18.20 (JPCP-20)
ARSENAL ROAD	35900(10) SUBURBAN STRATEGIC REGIONAL ARTERIAL (SRA) - CLASS I TRUCK ROUTE 22.47 (JPCP-20)
EAST FRONTAGE ROAD	3400(10) COLLECTOR STREET 3.20 (BIT-20)
WEST FRONTAGE CONNECTOR	4900(10) COLLECTOR STREET 4.63 (JPCP-20)
WEST FRONTAGE ROAD	4900(10) COLLECTOR STREET 3.20 (BIT-20)

DESIGN SPEED: I-55 = 70 MPH
 ARSENAL ROAD = 50 MPH
 EAST FRONTAGE ROAD = 50 MPH
 WEST FRONTAGE CONNECTOR = 50 MPH
 WEST FRONTAGE ROAD = 50 MPH
 RAMP'S A, C, D & E = 50 MPH
 RAMP B = 40 MPH



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

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



SIGNATURE: *Alan R. Swanson*
 DATE: 01/27/2011
 NAME: ALAN R. SWANSON
 EXP. 11/30/2011
 SHEETS: 1-86, 148-166, 204-219, 253-317, 332-333, 564-565, 585-756

SIGNATURE: *Gerald E. Koylass*
 DATE: 1/27/2011
 NAME: GERALD E. KOYLASS
 EXP. 11/30/2011
 SHEETS: 318-331, 437-441, 465-563

SIGNATURE: *Sadhu Singh Rikhiraj*
 DATE: 1/27/2011
 NAME: SADHU SINGH RIKHIRAJ
 EXP. 11/30/2011
 SHEETS: 167-203

SIGNATURE: *Richard A. Young*
 DATE: 1/27/2011
 NAME: RICHARD YOUNG
 EXP. 11/30/2011
 SHEETS: 87-147

LOCATION MAP
 SCALE= 1:2400

LENGTH OF PROJECT

I-55 SHOULDER RECONSTRUCTION	6,465.56 FT = 1.225 MI
RAMP A	2,156.77 FT = 0.408 MI
RAMP B/I-55	8,134.07 FT = 1.541 MI
RAMP C/I-55	7,314.63 FT = 1.385 MI
RAMP E	2,608.25 FT = 0.494 MI
ARSENAL ROAD	5,565.25 FT = 1.054 MI
WEST FRONTAGE CONNECTOR	1,402.58 FT = 0.266 MI
GROSS AND NET LENGTH	= 30,140.54 FT = 5.709 MI

DISTRICT 1 NO. (847) 705-4523
 PROJECT ENGINEER: HELEN PAZON

CONTRACT NO. 60F12

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

SUBMITTED _____ 20 _____

DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
 _____ 20 _____

ENGINEER OF DESIGN AND ENVIRONMENT
 _____ 20 _____

DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

**PRINTED BY THE AUTHORITY
 OF THE STATE OF ILLINOIS**

VOLUME I

SHEET NO.	DRAWING NO.	DESCRIPTION
1	CV-1	COVER SHEET
2	IS-1	INDEX OF SHEETS
3	HS-1	HIGHWAY STANDARDS
4	GN-1	GENERAL NOTES AND COMMITMENTS
5-15	SQ-1 to SQ-11	SUMMARY OF QUANTITIES
16-25	TS-1 to TS-10	TYPICAL SECTIONS
26-33	SC-1 to SC-8	SCHEDULES OF QUANTITIES
34-42	AT-1 to AT-9	ALIGNMENTS, TIES, AND BENCHMARKS
43-57	EX-1 to EX-15	EXISTING PLAN AND REMOVALS
58	EX-16	EXISTING STRUCTURE REMOVAL PLAN
59-73	PR-1 to PR-15	PROPOSED PLAN
74-76	PF-1 to PF-3	ARSENAL ROAD PROFILE
77-78	PF-4 to PF-5	WEST FRONTAGE CONNECTOR PROFILE
79	PF-6	RAMP A PROFILE
80-82	PF-7 to PF-9	RAMP B PROFILE
83-84	PF-10 to PF-11	RAMP C PROFILE
85	PF-12	RAMP E PROFILE
86	BD-1	CONCRETE BARRIER TRANSITION DETAIL
87	MOT-1	MOT GENERAL NOTES
88-91	MOT-2 to MOT-5	MOT TYPICAL SECTIONS
92	MOT-6	MOT DETAILS
93-96	MOT-7 to MOT-10	MOT PRE-STAGE
97-109	MOT-11 to MOT-23	MOT STAGE 1
110-121	MOT-24 to MOT-35	MOT STAGE 2
122-133	MOT-36 to MOT-47	MOT STAGE 3
134-139	MOT-48 to MOT-53	MOT STAGE 4
140-147	MOT-54 to MOT-61	MOT STAGE 4 - SUB STAGE
148	EN-1	EROSION AND SEDIMENT CONTROL GENERAL NOTES AND LEGEND
149	EN-2	EROSION AND SEDIMENT CONTROL GENERAL NOTES AND STRATEGY
150-164	EC-1 to EC-15	EROSION AND SEDIMENT CONTROL PLAN
165-166	ED-1 to ED-2	EROSION AND SEDIMENT CONTROL DETAILS
167-181	DU-1 to DU-15	DRAINAGE AND UTILITY PLAN
182-184	DU-16 to DU-18	DRAINAGE STRUCTURE AND PIPE INFORMATION TABLE
185	DU-19	RIPRAP AND PAVED DITCH SCHEDULE
186-187	DU-20 to DU-21	DRAINAGE DETAILS
188	DU-22	RESTRICTOR MANHOLE DETAIL
189	DU-23	TYPICAL SECTION - VEGETATED BUFFER
190-203	DP-1 to DP-14	DRAINAGE PROFILE
204	UD-1	PIPE PROTECTION SLAB DETAIL
205-219	GP-1 to GP-15	GRADING PLANS
220-239	UTIL-1 to UTIL-20	SUE INVESTIGATION OF UNDERGROUND UTILITIES
240-252		PLAT OF HIGHWAYS
253-266	PD-1 to PD-14	PAVEMENT DETAILS
267-281	PM-1 to PM-15	PAVEMENT MARKING PLAN
282-296	LS-1 to LS-15	LANDSCAPE PLAN
297-300	SI-1 to SI-4	EXISTING SIGNING PLAN
301-304	SI-5 to SI-8	PROPOSED SIGNING PLAN
305-331	SD-1 to SD-27	SIGNING DETAILS

VOLUME II

332	CV-2	COVER SHEET
333	IS-2	INDEX OF SHEETS
334-337		DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS
338-344	TR-1 to TR-7	TEMPORARY TRAFFIC SIGNAL INSTALLATION
345	TR-8	TRAFFIC SIGNAL INSTALLATION PLAN - WEST FRONTAGE CONNECTOR AND ARSENAL RD
346	TR-9	TRAFFIC SIGNAL CABLE PLAN - WEST FRONTAGE CONNECTOR AND ARSENAL RD
347	GE-1	ELECTRICAL SYMBOL LIST AND ABBREVIATIONS
348	GE-2	ELECTRICAL GENERAL NOTES
349-354	RL1-1 to RL1-6	PROPOSED ROADWAY LIGHTING PLAN-STAGE 1 DEMOLITION
355-358	RL1-7 to RL1-10	PROPOSED ROADWAY LIGHTING PLAN-STAGE 1
359-370	RL2-1 to RL2-12	PROPOSED ROADWAY LIGHTING PLAN-STAGE 2
371-381	RL3-1 to RL3-11	PROPOSED ROADWAY LIGHTING PLAN-STAGE 3
382-389	RL4-1 to RL4-8	PROPOSED ROADWAY LIGHTING PLAN-STAGE 4
390-403	RL-1 to RL-14	PROPOSED ROADWAY LIGHTING PLAN FINAL CONDITIONS
404	UL-1	RAMP C BRIDGE UNDERPASS LIGHTING PLAN
405	UL-2	WEST FRONTAGE CONNECTOR BRIDGE UNDERPASS LIGHTING PLAN
406	EWO-1	EXISTING LIGHTING CONTROLLER "T" SINGLE LINE DIAGRAM
407	EW1-1	EXISTING LIGHTING CONTROLLER "T" STAGE 1 SINGLE LINE DIAGRAM
408	EW1-2	PROPOSED LIGHTING CONTROLLER "T" STAGE 1 SINGLE LINE DIAGRAM
409	EW1-3	PROPOSED LIGHTING CONTROLLER "A" STAGE 2 SINGLE LINE DIAGRAM
410	EW2-1	PROPOSED LIGHTING CONTROLLER "A" STAGE 3 SINGLE LINE DIAGRAM
411	EW3-1	PROPOSED LIGHTING CONTROLLER "T" STAGE 3 SINGLE LINE DIAGRAM
412	EW4-1	PROPOSED LIGHTING CONTROLLER "A" STAGE 4 SINGLE LINE DIAGRAM
413	EW4-2	PROPOSED LIGHTING CONTROLLER "T" STAGE 4 SINGLE LINE DIAGRAM
414	EW-1	PROPOSED LIGHTING CONTROLLER "A" FINAL CONDITIONS SINGLE LINE DIAGRAM
415	EW-2	PROPOSED LIGHTING CONTROLLER "T" FINAL CONDITIONS SINGLE LINE DIAGRAM
416	ED-1	CONDUIT INSTALLATION DETAILS FOR LIGHT TOWER FOUNDATIONS MOUNTED ON RETAINING WALLS
417	ED-2	CONDUIT INSTALLATION DETAILS FOR GROUND MOUNTED HIGH MAST LIGHT TOWERS
418	ED-3	RAMP C BRIDGE CONDUIT INSTALLATION DETAILS

VOLUME II

SHEET NO.	DRAWING NO.	DESCRIPTION
419	ED-4	WEST FRONTAGE CONNECTOR BRIDGE CONDUIT INSTALLATION DETAILS
420	ED-5	BUCK BOOST TRANSFORMER INSTALLATION DETAILS
421	ED-6	TEMPORARY LIGHTING DETAILS 1 OF 2
422	ED-7	TEMPORARY LIGHTING DETAILS 2 OF 2
423	ED-8	ELECTRIC SERVICE INSTALLATION PAD MOUNTED TRANSFORMER
424	ED-9	HIGH MAST LIGHT TOWER FOUNDATION DETAILS
425-428	BE-205a - BE205d	LIGHTING CONTROLLER, RADIO CONTROL DUPLEX WITH SCADA
429	BE-220	ELECTRIC SERVICE INSTALLATION AERIAL, REMOTE DISCONNECT
430-432	BE-505a - BE505c	HIGH MAST LIGHT TOWER 120FT TO 140FT (36m TO 43m)
433	BE-702	MISC. ELECTRICAL DETAILS SHEET A
434	BE-800	TEMPORARY LIGHT POLE DETAILS
435	BE-801	TEMPORARY AERIAL CABLE INSTALLATION
436	BE-900	SUSPENDED MOUNT UNDERPASS LUMINAIRE INSTALLATION DETAILS
437-441	S-1 to S-5	HIGH MAST TOWER FOUNDATION DETAILS
442-464		TRAFFIC SURVEILLANCE PLANS
465-495	RW2-1 to RW2-31	RETAINING WALL STRUCTURE NO. 099-W027
496-502	RW3-1 to RW3-7	RETAINING WALL STRUCTURE NO. 099-W028
503-526	SF1 to SF24	WEST FRONTAGE CONNECTOR OVER I-55, STRUCTURE NO. 099-0347
527-563	SC-1 to SC-37	RAMP C OVER I-55, STRUCTURE NO. 099-0348

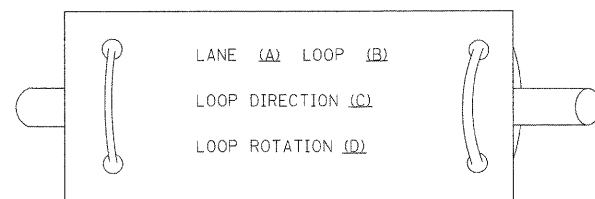
VOLUME III

564	CV-3	COVER SHEET
565	IS-3	INDEX OF SHEETS
566	BD-01	DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND CURB OR EDGE GREATER THAN OR EQUAL TO 15' (4.5M)
567	BD-32	BUTT JOINTS AND HMA TAPER
568	BD-34	STEEL PLATE BEAM GUARDRAIL ADJACENT TO CURB AND GUTTER AND STABILIZATION AT TB TTY. 1 SPL.
569	BD-49	DETAIL FOR CENTERLINE SAW CUT 16' (4.9m) AND VARIABLE JOINTED PAVEMENT FOR RAMPS
570	BD-51	BENCHING DETAIL FOR EMBANKMENT WIDENING
571	TC-08	FREEWAY ENTRANCE AND EXIT RAMP CLOSURE DETAILS
572	TC-09	TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE & MULTI-LANE WEAVE
573	TC-10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
574	TC-11	RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT)
575-576	TC-12A,B	MULTILANE FREEWAY PAVEMENT MARKING (2 SHEETS)
577	TC-13	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
578	TC-16	PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING
579	TC-17	TRAFFIC CONTROL FOR SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES
580	TC-18	SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS
581	TC-21	TYPICAL MARKING FOR CLOSING STATE HIGHWAYS
582	TC-25	TRAFFIC CONTROL DETAILS FOR FREEWAY CENTER LANE CLOSURE SHOULDER LANE
583	TC-26	DRIVEWAY ENTRANCE SIGNING
584	TC-27	MILE POST MARKERS - GORE SIGNS - MAJOR GUIDE SIGN LAYOUT - ARROWS
585	XP-1	CROSS SECTION KEY PLAN
586-601	XT(A)-1 to XT(A)-16	ARSENAL ROAD TEMPORARY PAVEMENT CROSS SECTIONS
602-663	XS(A)-1 to XS(A)-62	ARSENAL ROAD CROSS SECTIONS
664-679	XS(W)-1 to XS(W)-16	WEST FRONTAGE CONNECTOR CROSS SECTIONS
680-687	XS(RA)-1 to XS(RA)-8	RAMP A CROSS SECTIONS
688-705	XS(RB)-1 to XS(RB)-18	RAMP B CROSS SECTIONS
706-725	XS(RC)-1 to XS(RC)-20	RAMP C CROSS SECTIONS
726-756	XS(I55)-1 to XS(I55)-31	I-55 CROSS SECTIONS

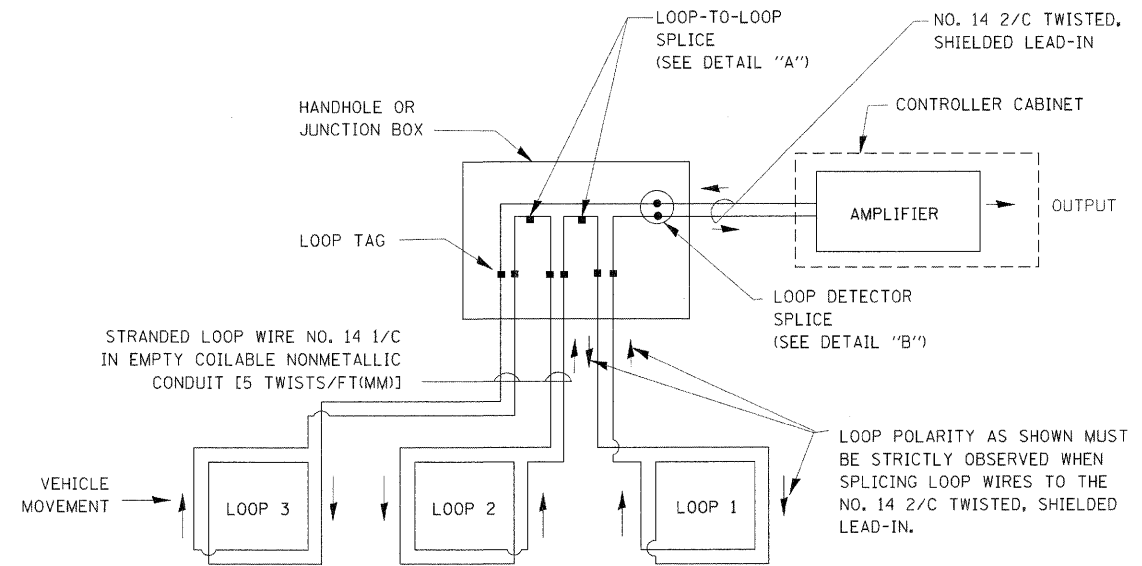
LOOP DETECTOR NOTES

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 DIVESHOLES 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.

LOOP LEAD-IN CABLE TAG

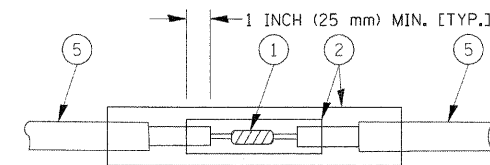


- A. LANE #1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

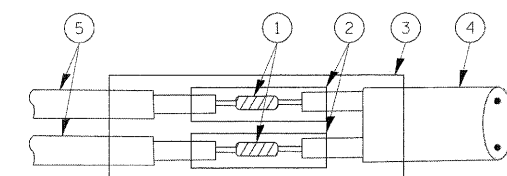


DETECTOR LOOP WIRING SCHEMATIC

- 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.

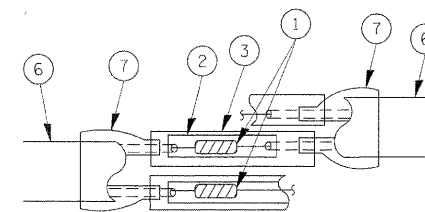


**DETAIL "A"
LOOP-TO-LOOP SPLICE**

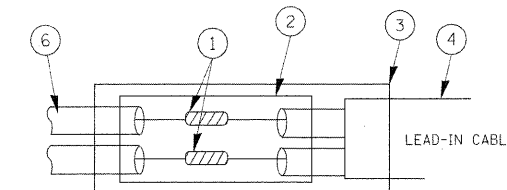


**DETAIL "B"
LOOP-TO-CONTROLLER SPLICE**

TYPE I LOOP



**DETAIL "A"
LOOP-TO-LOOP SPLICE**



**DETAIL "B"
LOOP-TO-CONTROLLER SPLICE**

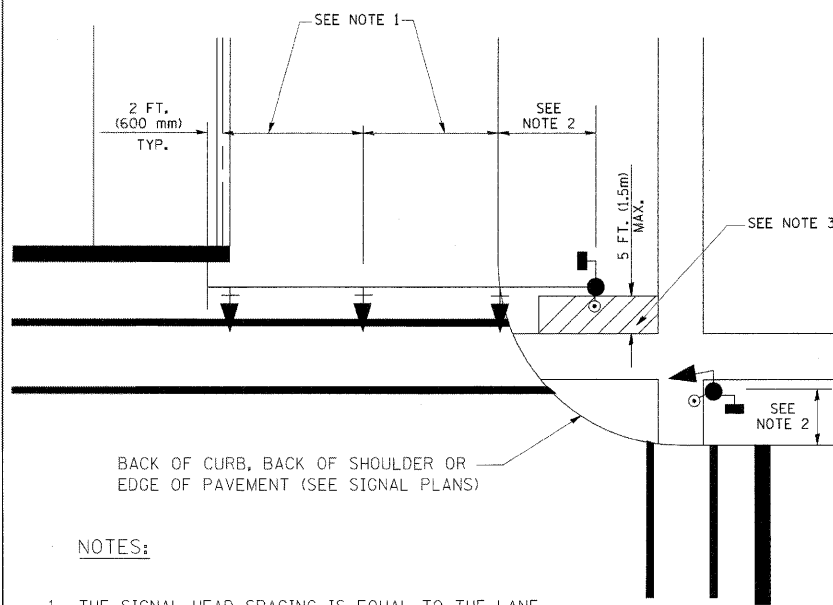
LOOP DETECTOR SPLICE

- 1 WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH.
- 2 WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- 3 WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER GRADE.
- 4 NO. 14 2/C TWISTED, SHIELDED CABLE.
- 5 LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- 6 PRE-FORMED LOOP
- 7 XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS, TYCO CBR-2 OR APPROVED EQUAL

FILE NAME =	USER NAME = bouerdj	DESIGNED - DAD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca\pw_work\PWIDOT\BAUEROLD\08315\ts05.dgn		DRAWN - BCK	REVISED -		55	99-2HB-2B-1	WILL	756	334			
PLOT SCALE = 50.0000 / / IN.		CHECKED - DAD	REVISED -		TS-05			CONTRACT NO. 60F12				
PLOT DATE = 11/4/2009		DATE - 10-28-09	REVISED -		SCALE: NONE	SHEET NO. 1 OF 6 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

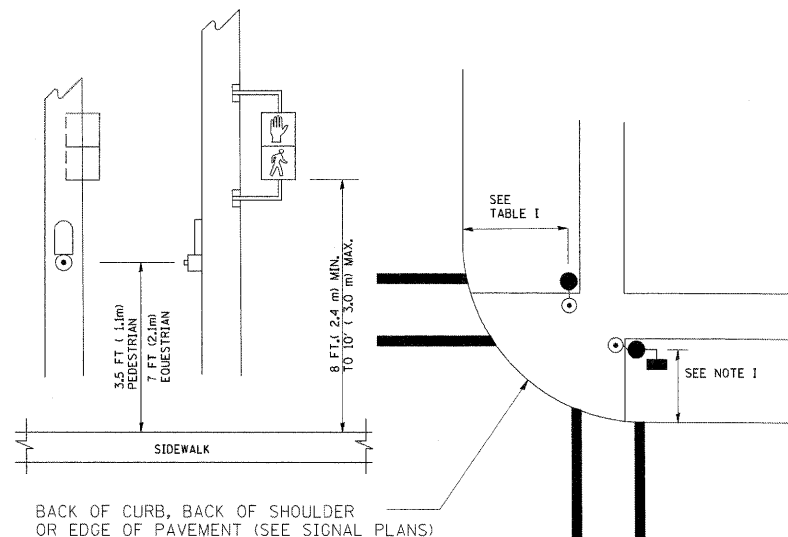
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



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."

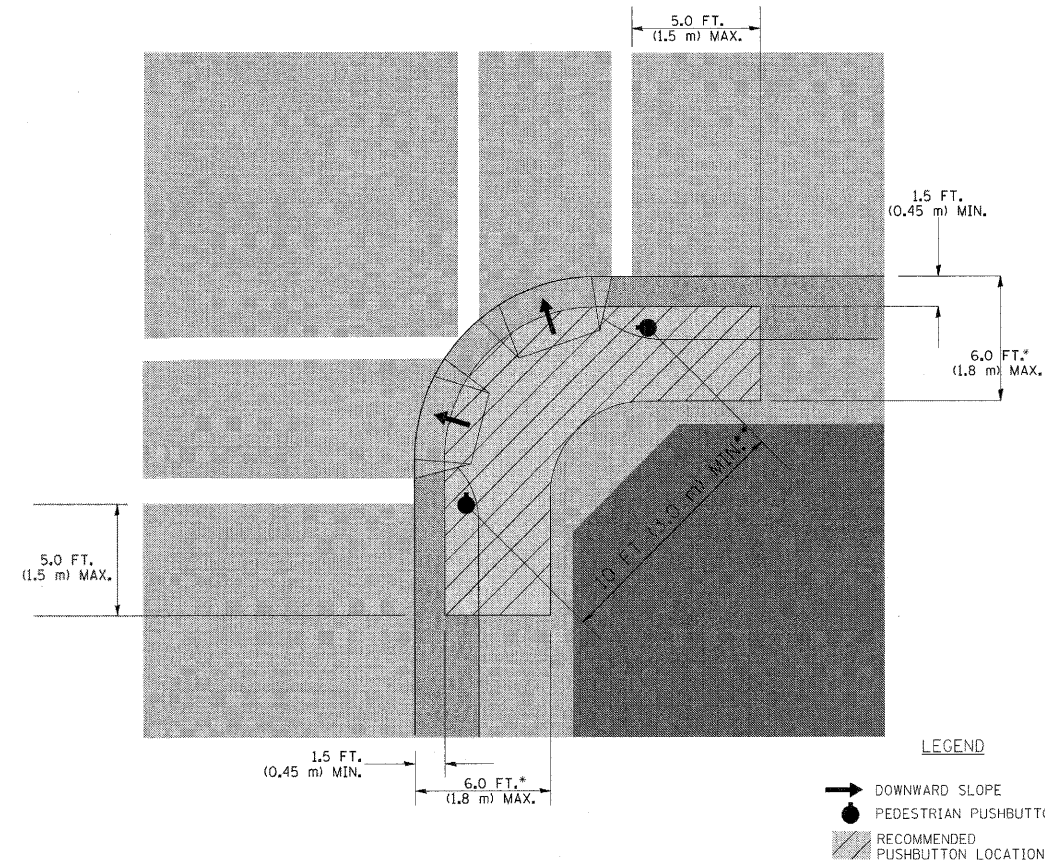
PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



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



- * 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:

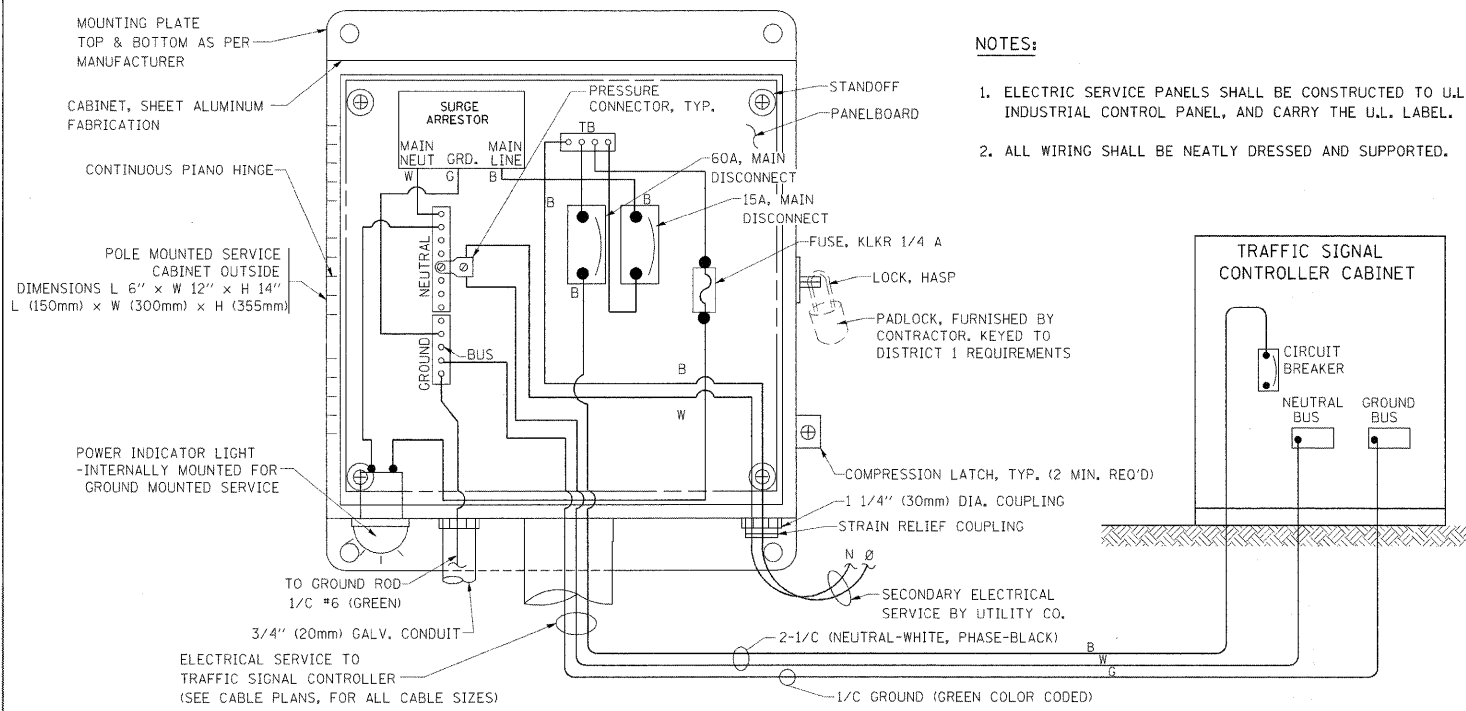
1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM 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

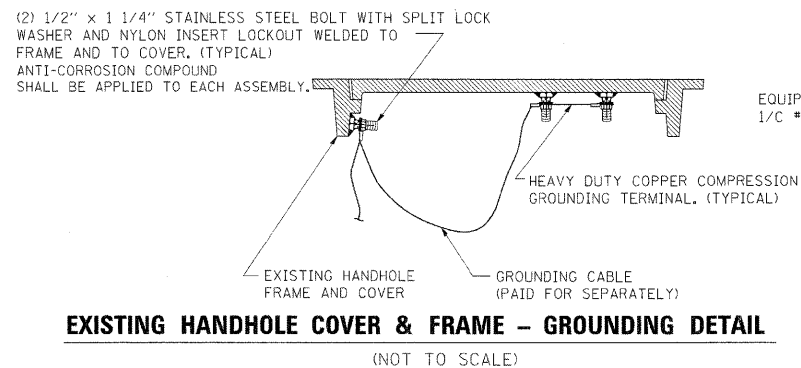
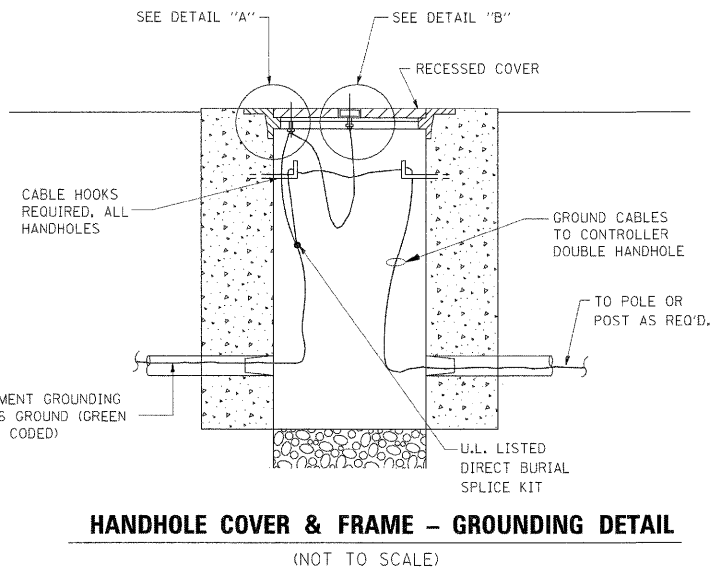
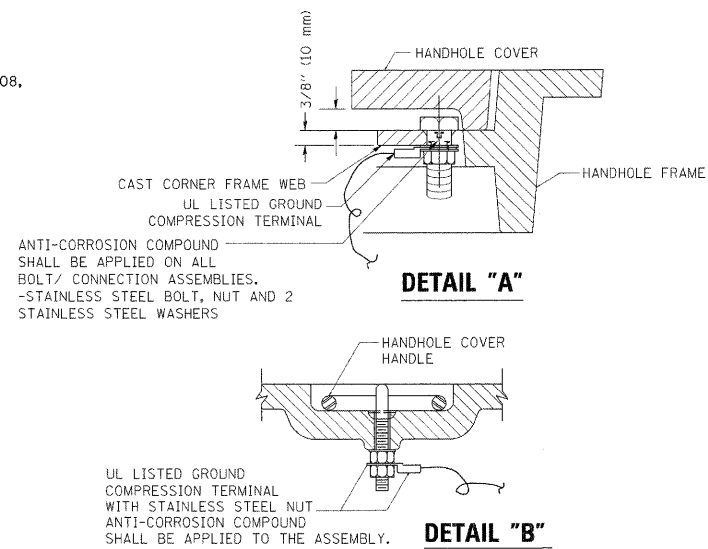
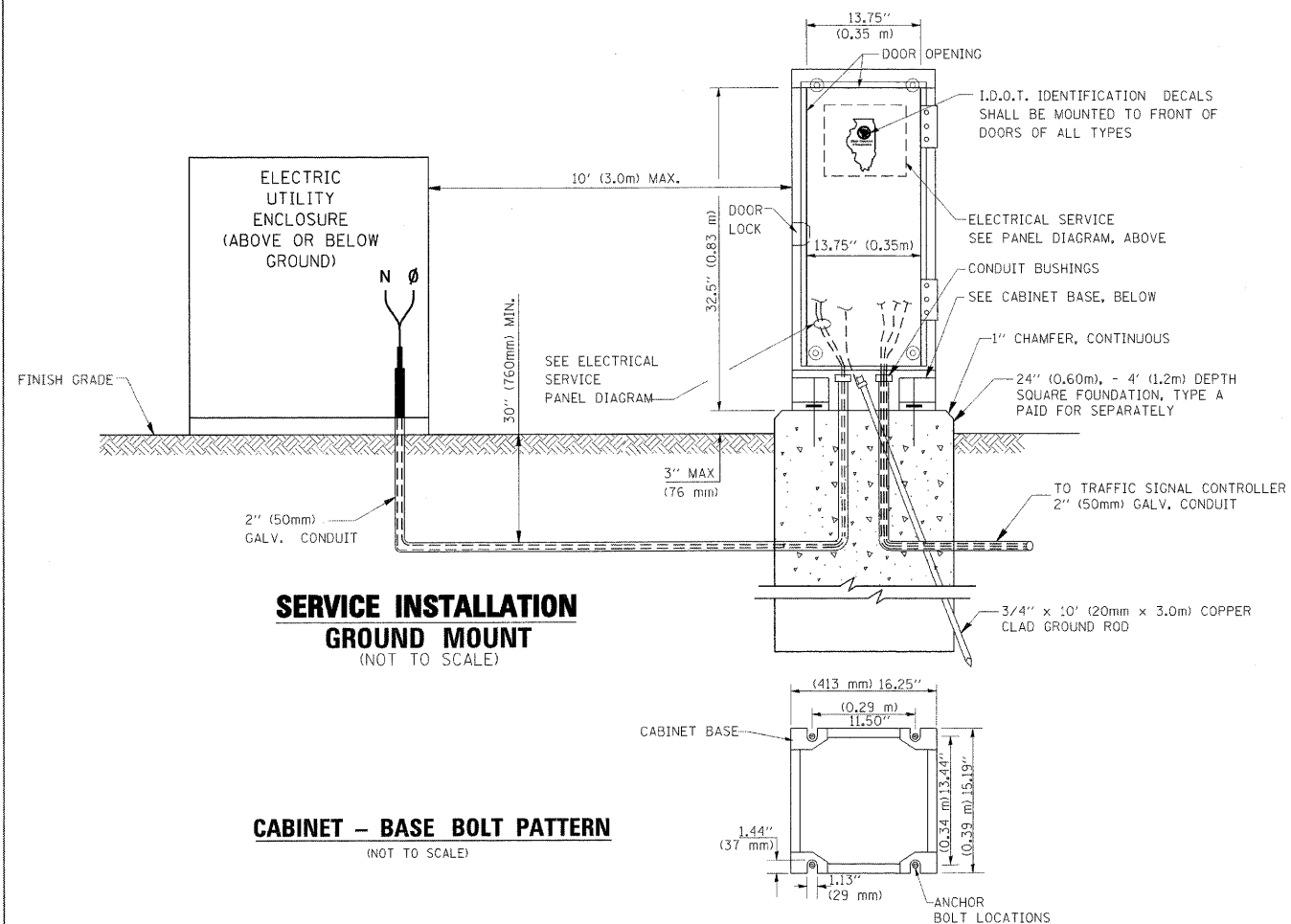
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 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 TO THE 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.



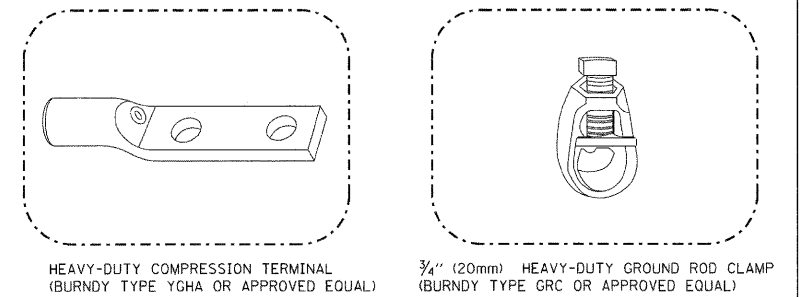
ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)
SERVICE INSTALLATION POLE MOUNT (SHOWN)
 (NOT TO SCALE)



NOTES:

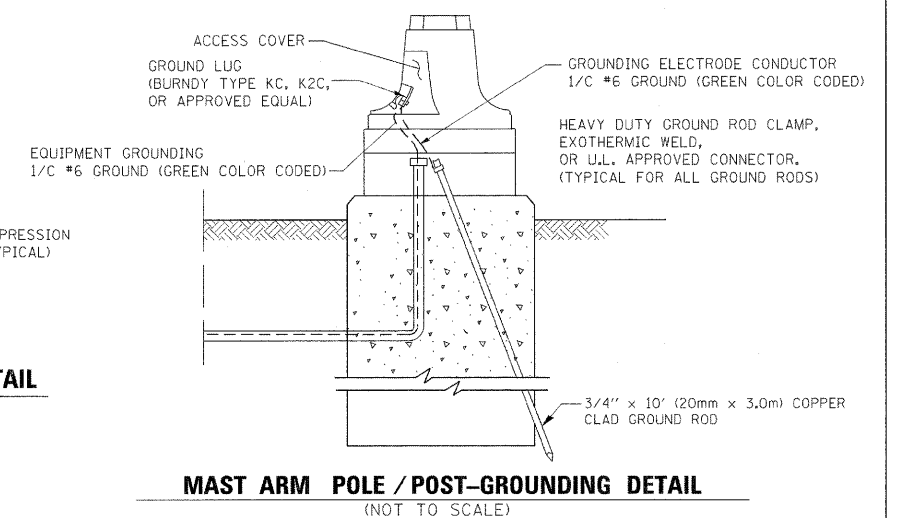
GROUNDING SYSTEM

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.



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.



FILE NAME =	USER NAME = beverd1	DESIGNED - DAD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwork\p\WIDOT\BAUERDL\d0106315\te05.dgn		DRAWN - BCK	REVISED -		SCALE: NONE	SHEET NO. 3 OF 6 SHEETS	STA.	TO STA.	55	99-2HB-2B-1	WILL	756	336
		CHECKED - DAD	REVISED -		TS-05				CONTRACT NO. 60F12				
		DATE - 10-28-09	REVISED -		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT								

SUMMARY OF TRAFFIC SIGNAL QUANTITIES

CODE NUMBER	ITEM	UNIT	TOTAL	WEST FRONTAGE CONNECTOR & ARSENAL ROAD		EXISTING ARSENAL ROAD & EAST FRONTAGE ROAD, RAMP A, AND RAMP B		EXISTING ARSENAL ROAD & RAMP C AND RAMP D	
				Y031 1F	Y031 3D*	Y031 1F	Y031 3D*	Y031 1F	Y031 3D*
8100600	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	544	544					
8100700	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	164	164					
8100800	CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FOOT	22	22					
8100900	CONDUIT IN TRENCH, 3 1/2" DIA., GALVANIZED STEEL	FOOT	19	19					
81001000	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	20	20					
81018500	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	92	92					
81018900	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	230	230					
81400100	HANDHOLE	EACH	5	5					
81400200	HEAVY-DUTY HANDHOLE	EACH	2	2					
81400300	DOUBLE HANDHOLE	EACH	1	1					
81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	769	769					
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2			1		1	
85700200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1	1					
86200200	UNINTERRUPTIBLE POWER SUPPLY, STANDARD	EACH	1	1					
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1007	469	538				
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1360	1360					
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	810	810					
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2827	2827					
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2/C	FOOT	59	59					
87501000	TRAFFIC SIGNAL POST, 14 FT.	EACH	2	2					
87501200	TRAFFIC SIGNAL POST, 16 FT.	EACH	1	1					
87700240	STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.	EACH	1	1					
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	12	12					
87800150	CONCRETE FOUNDATION, TYPE C	FOOT	4	4					
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	27	27					
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	6	6					
88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1	1					
88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2	2					
88030210	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1	1					
88030220	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1	1					
88040030	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 1-SECTION, POST MOUNTED	EACH	1	1					
88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	8	8					
88500100	INDUCTIVE LOOP DETECTOR	EACH	8	8					
88700200	LIGHT DETECTOR	EACH	3		3				
88700300	LIGHT DETECTOR AMPLIFIER	EACH	1		1				
89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1			1			
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	2			1		1	
89502380	REMOVE EXISTING HANDHOLE	EACH	6			4		2	
Z0033060	PREFORMED DETECTOR LOOP	FOOT	788	788					
Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1			1			
Z0033044	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1			1			
X8050015	SERVICE INSTALLATION - POLE MOUNTED	EACH	1	1					
	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1/C	FOOT	1130	1130					
	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	538		538				
	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 38 FT. AND 40 FT.	FOOT	1	1					

* 100% OF COST IS PAID BY WILL COUNTY

EJM ENGINEERING, INC.
411 South Wells Street Suite 800
Chicago, Illinois 60607



FILE NAME = ...ND160F12-SHT-TR00.dgn

USER NAME = grol

DESIGNED - GR

REVISED -

DRAWN - GR

REVISED -

PLOT SCALE = 1:20

CHECKED - RY

REVISED -

PLOT DATE = 2/23/2011

DATE - 02/04/2011

REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNALS
SUMMARY OF TRAFFIC SIGNAL QUANTITIES**

SCALE: NONE SHEET NO. 1 OF 9 SHEETS

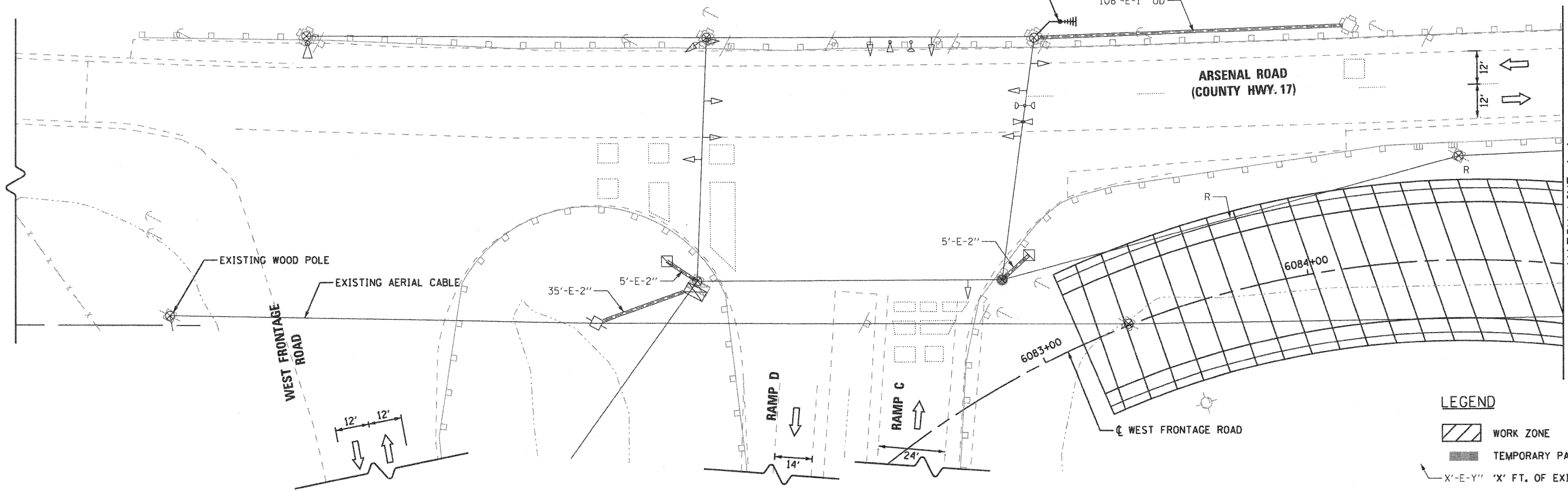
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-2B-1	WILL	756	338
CONTRACT NO. 60F12			ILLINOIS FED. AID PROJECT	

FINAL



MAINTAIN EXISTING SIGNAL OPERATIONS AT THE INTERSECTION OF ARSENAL ROAD, RAMP C, AND RAMP D. PROVIDE RADIO INTERCONNECT WITH INTERSECTION AT ARSENAL ROAD, EAST FRONTAGE ROAD, RAMP A, AND RAMP B FOR STAGE 3 OPERATIONS.

TEMPORARY RADIO INTERCONNECT TO INTERSECTION OF EAST FRONTAGE ROAD AND ARSENAL ROAD. INSTALLED FOR STAGE 3 OPERATIONS. REMOVE IN STAGE 4.



**ARSENAL ROAD, RAMP C AND RAMP D
MAINTAIN EXISTING SIGNAL INSTALLATION
STAGE 3**

- LEGEND**
- WORK ZONE
 - TEMPORARY PAVEMENT (IN PLACE)
 - X'-E-Y" 'X' FT. OF EXISTING 'Y' IN. CONDUIT

NOTES FOR TEMPORARY TRAFFIC SIGNALS

1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.
2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE LED AND 12" (300mm). HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. PEDESTRIAN SIGNALS SHALL INCLUDE SOLID INTERNATIONAL SYMBOLS. PEDESTRIAN SIGNALS WITH COUNTDOWN TIMERS SHALL BE USED WHEN EXISTING INSTALLATION UTILIZES COUNTDOWN TYPE OR AS DIRECTED BY THE ENGINEER. COUNTDOWN TYPE PEDESTRIAN SIGNALS ARE NOT TO BE INSTALLED AT A RAILROAD INTERSECTION. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
4. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SIGNAL SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
5. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.
6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.
7. UNINTERRUPTIBLE POWER SUPPLY (UPS) SYSTEM SHALL BE INSTALLED AND MADE OPERATIONAL AT TEMPORARY TRAFFIC SIGNAL INSTALLATIONS.
8. DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED FOR ALL APPROACHES OF THE INTERSECTION UNLESS INDICATED OTHERWISE IN THE PLANS. THE DETECTION SYSTEM MUST MEET THE SPECIFICATION OF DISTRICT 1 AND CONTRACTORS SHALL PLACE THE DETECTORS INTO OPERATION TO THE SATISFACTION OF THE ENGINEER.

9. WHEN PAN, TILT, ZOOM CAMERAS ARE INSTALLED AT THE EXISTING INTERSECTION OR ARE CALLED FOR IN THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING THE CAMERAS TO THE SATISFACTION OF THE ENGINEER AND AGENCY RESPONSIBLE FOR THE CAMERAS.

REMOVAL SCHEDULE

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR PICK UP OF ALL EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY AS PER THE TRAFFIC SIGNAL SPECIFICATION

AGENCY: WILL COUNTY

- 4 EACH LIGHT DETECTOR
- 1 EACH LIGHT DETECTOR AMPLIFIER
- 1 EACH PAN TILT ZOOM CAMERA

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 1-FACE 1-SECTION
- 19 EACH SIGNAL HEAD, 1-FACE, 3-SECTION
- 4 EACH SIGNAL HEAD, 1-FACE, 5-SECTION
- 2 EACH OPTICALLY PROGRAMMED SIGNAL HEAD 3-SECTION
- 2 EACH OPTICALLY PROGRAMMED SIGNAL HEAD 5-SECTION
- 18 EACH WOOD POLE
- 2 EACH ELECTRIC SERVICE
- 6 EACH REMOVE EXISTING HANDHOLES
- 2 EACH CONTROLLER AND CABINET (COMPLETE)
- 1 EACH SIGN PANEL ON WOOD POST MOUNTING

CONSTRUCTION SEQUENCE

STAGES 1 AND 2

MAINTAIN EXISTING INTERCONNECT AND TRAFFIC SIGNAL EQUIPMENT AT THE INTERSECTIONS OF EXISTING ARSENAL ROAD WITH EAST FRONTAGE ROAD, RAMP A, RAMP B, RAMP C, AND RAMP D.

STAGE 3

MAINTAIN EXISTING SIGNAL EQUIPMENT AT THE INTERSECTION OF EXISTING ARSENAL ROAD AND RAMP C & D. INSTALL RADIO INTERCONNECT EQUIPMENT ON EXISTING SIGNAL.

INSTALL TEMPORARY TRAFFIC SIGNAL AT EAST FRONTAGE ROAD AND EXISTING ARSENAL ROAD PER INSTALLATION PLAN. INSTALL RADIO INTERCONNECT EQUIPMENT AT THE EXISTING SIGNAL AT RAMP C & D.

CLOSE EXISTING RAMP A AND B. COVER AND DE-ENERGIZE EXISTING SIGNAL HEADS AT INTERSECTION OF ARSENAL ROAD WITH EXISTING RAMP A, B, AND EAST FRONTAGE ROAD. DE-ACTIVATE EXISTING INTERCONNECT. ACTIVATE NEW TEMPORARY TRAFFIC SIGNALS AND RADIO INTERCONNECT EQUIPMENT. INTERCONNECT OPERATIONS BETWEEN RAMP C & D AND EAST FRONTAGE ROAD SHALL BE IMPLEMENTED AS DIRECTED BY THE ENGINEER (PAID FOR AS "RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM - LEVEL 1").

REMOVE EXISTING SIGNAL EQUIPMENT AT EAST FRONTAGE ROAD, RAMP A AND B. REMOVE EXISTING INTERCONNECT EQUIPMENT.

CONSTRUCT TEMPORARY PAVEMENT AS SHOWN ON MAINTENANCE OF TRAFFIC PLANS.

STAGES 4, 4B, AND 4C

REMOVE EXISTING SIGNAL EQUIPMENT AT RAMP C & D. REMOVE RADIO INTERCONNECT EQUIPMENT.

MOVE SIGNAL HEADS FOR STAGE 4, 4B, AND 4C PER TEMPORARY TRAFFIC SIGNAL INSTALLATION PLANS.

OPERATIONS AT EAST FRONTAGE ROAD AND ARSENAL ROAD SHALL BE IMPLEMENTED AS DIRECTED BY THE ENGINEER (PAID FOR AS "TEMPORARY TRAFFIC SIGNAL TIMING").



EJM ENGINEERING, INC.
411 South Wells Street Suite 800
Chicago, Illinois 60607

FILE NAME =	USER NAME = g-01	DESIGNED - GR	REVISED -
...ND160F12-SHT-TR01-3B.dgn		DRAWN - GR	REVISED -
	PLOT SCALE = 1:20	CHECKED - RY	REVISED -
	PLOT DATE = 2/3/2011	DATE - 02/04/2011	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN	
STAGE 3	
EXISTING ARSENAL ROAD, RAMP C AND RAMP D	
SCALE: 1"=20'	SHEET NO. 2 OF 9 SHEETS

F.A.1 RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-2B-1	WILL	756	339
CONTRACT NO. 60F12			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	

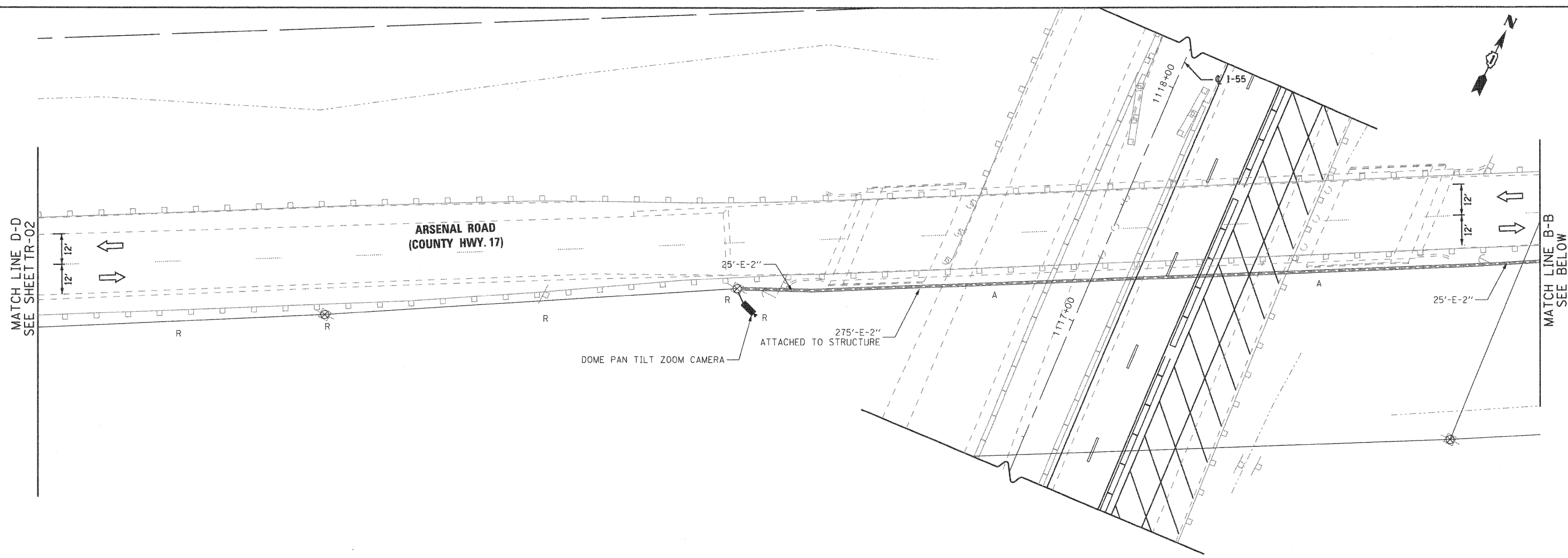
FINAL

EJM ENGINEERING, INC.
 411 South Wells Street Suite 800
 Chicago, Illinois 60607



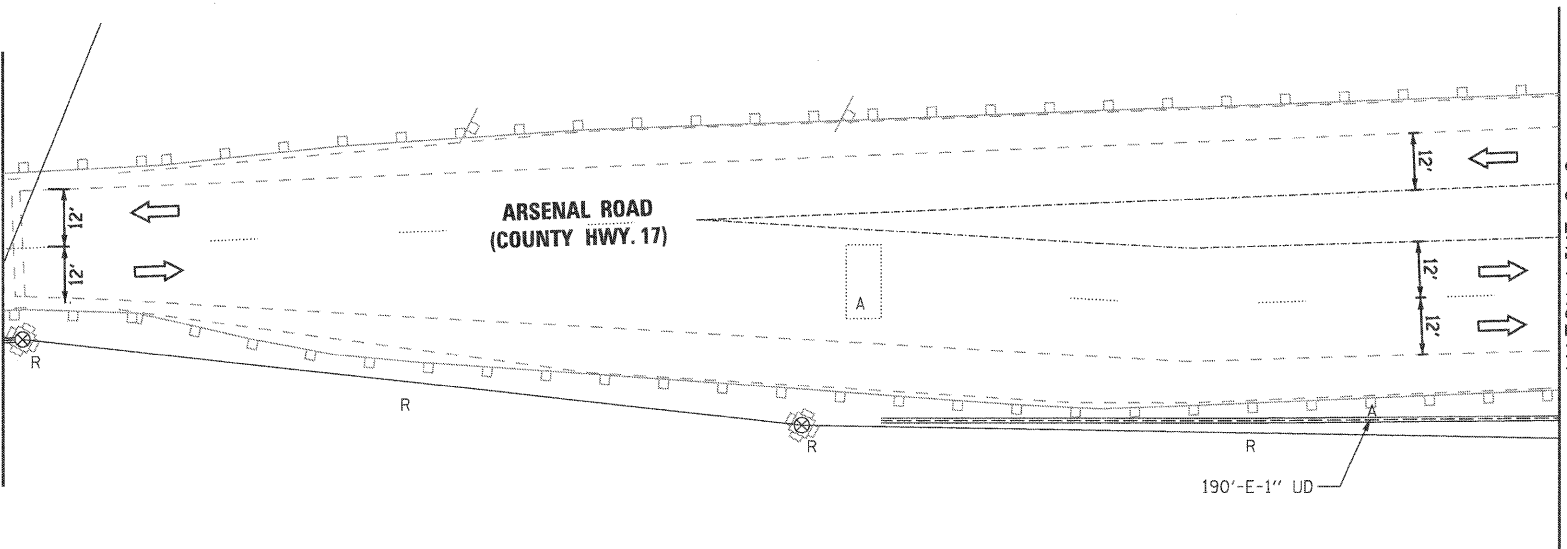
MATCH LINE D-D
 SEE SHEET TR-02

MATCH LINE B-B
 SEE BELOW



MATCH LINE B-B
 SEE ABOVE

MATCH LINE C-C
 SEE SHEET TR-04



LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT (IN PLACE)
- 'X'-E-'Y' 'X' FT. OF EXISTING 'Y' IN. CONDUIT



**REMOVE EXISTING INTERCONNECT EQUIPMENT
 STAGE 3**

**REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN
 STAGE 3**

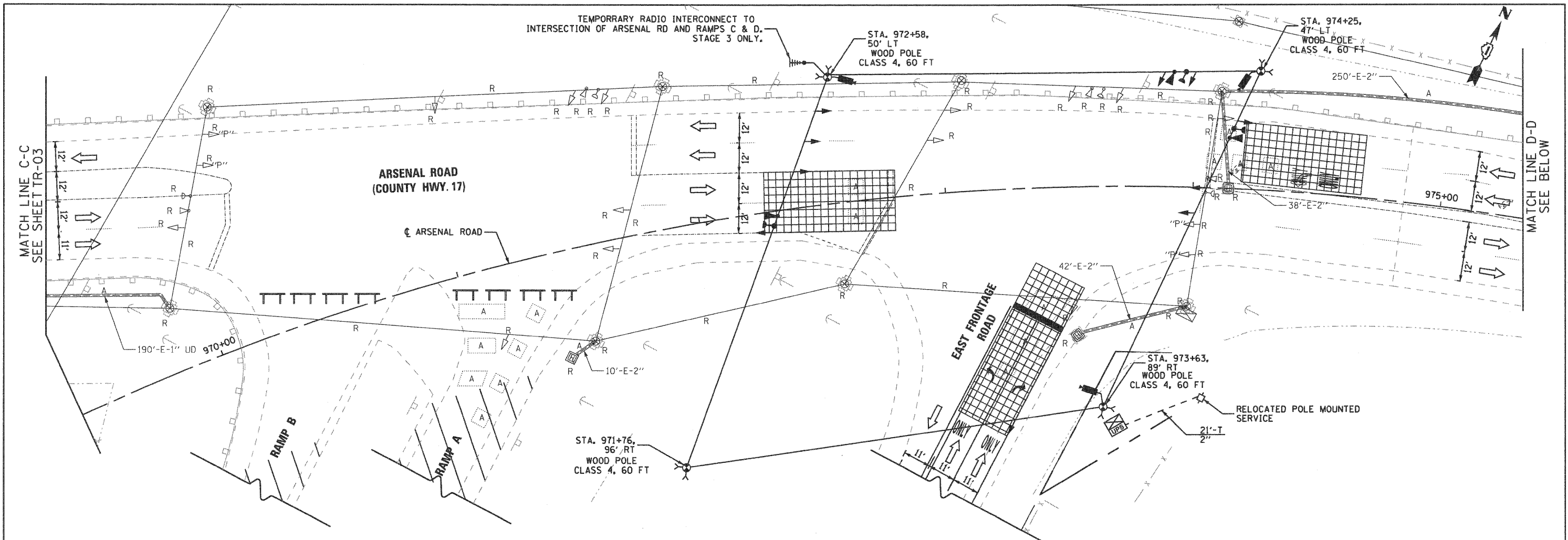
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SCALE: 1"=20' SHEET NO. 3 OF 9 SHEETS

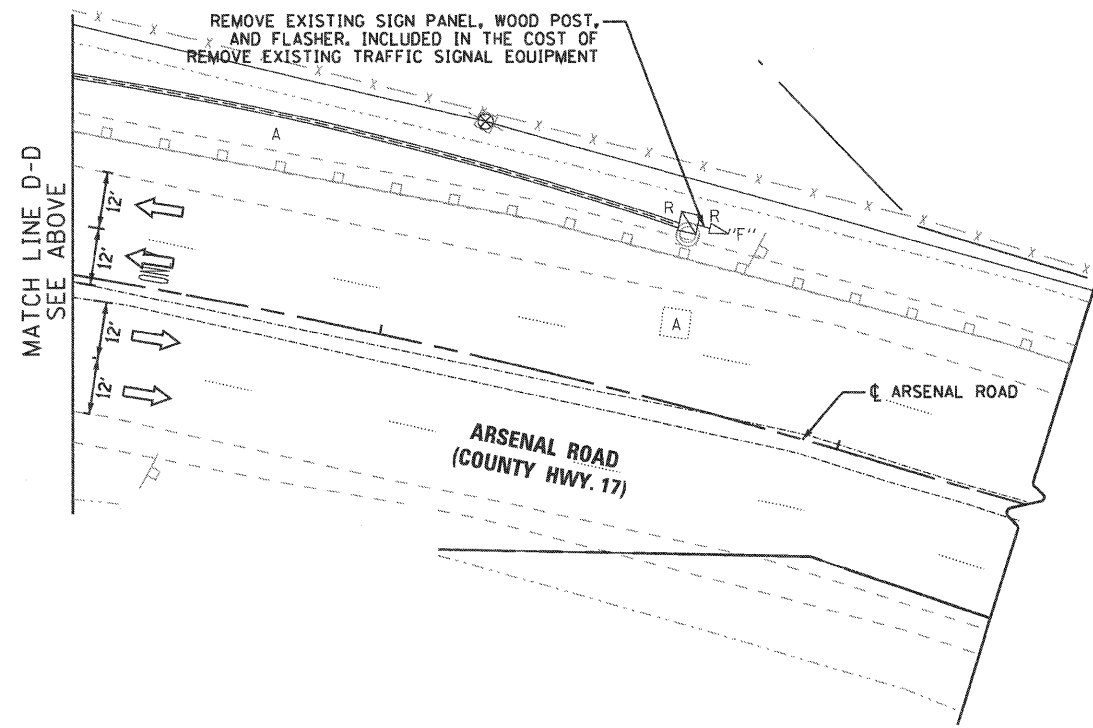
FILE NAME = ...\\D160F12-SHT-TR02-12.dgn	USER NAME = gra1	DESIGNED - GR	REVISED -
		DRAWN - GR	REVISED -
		CHECKED - RY	REVISED -
		DATE - 02/04/2011	REVISED -

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-2B-1	WILL	756	340
CONTRACT NO. 60F12				
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				

FINAL

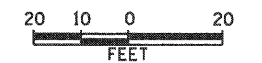


**ARSENAL ROAD, EAST FRONTAGE ROAD, RAMP A AND RAMP B
TEMPORARY TRAFFIC SIGNAL INSTALLATION AND
EXISTING SIGNAL EQUIPMENT REMOVAL
STAGE 3**



NOTE:
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL MATCH THE EXISTING SYSTEM.

- LEGEND**
- WORK ZONE
 - TEMPORARY PAVEMENT (IN PLACE)
 - 'X'-E-'Y'' 'X' FT. OF EXISTING 'Y' IN. CONDUIT



EJM ENGINEERING, INC.
411 South Wells Street Suite 800
Chicago, Illinois 60607



FILE NAME = ...DI60F12-SHT-TR03-10.dgn	USER NAME = gr01	DESIGNED - GR	REVISED -
		DRAWN - GR	REVISED -
		CHECKED - RY	REVISED -
		DATE - 02/04/2011	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

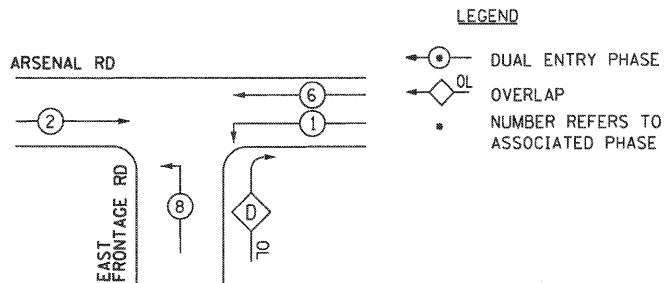
**TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVE EXISTING
TRAFFIC SIGNAL EQUIPMENT PLAN - STAGE 3
EAST FRONTAGE ROAD AND ARSENAL ROAD**

SCALE: 1"=20' SHEET NO. 4 OF 9 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-2B-1	WILL	756	341
CONTRACT NO. 60F12				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FINAL

TEMPORARY CONTROLLER SEQUENCE



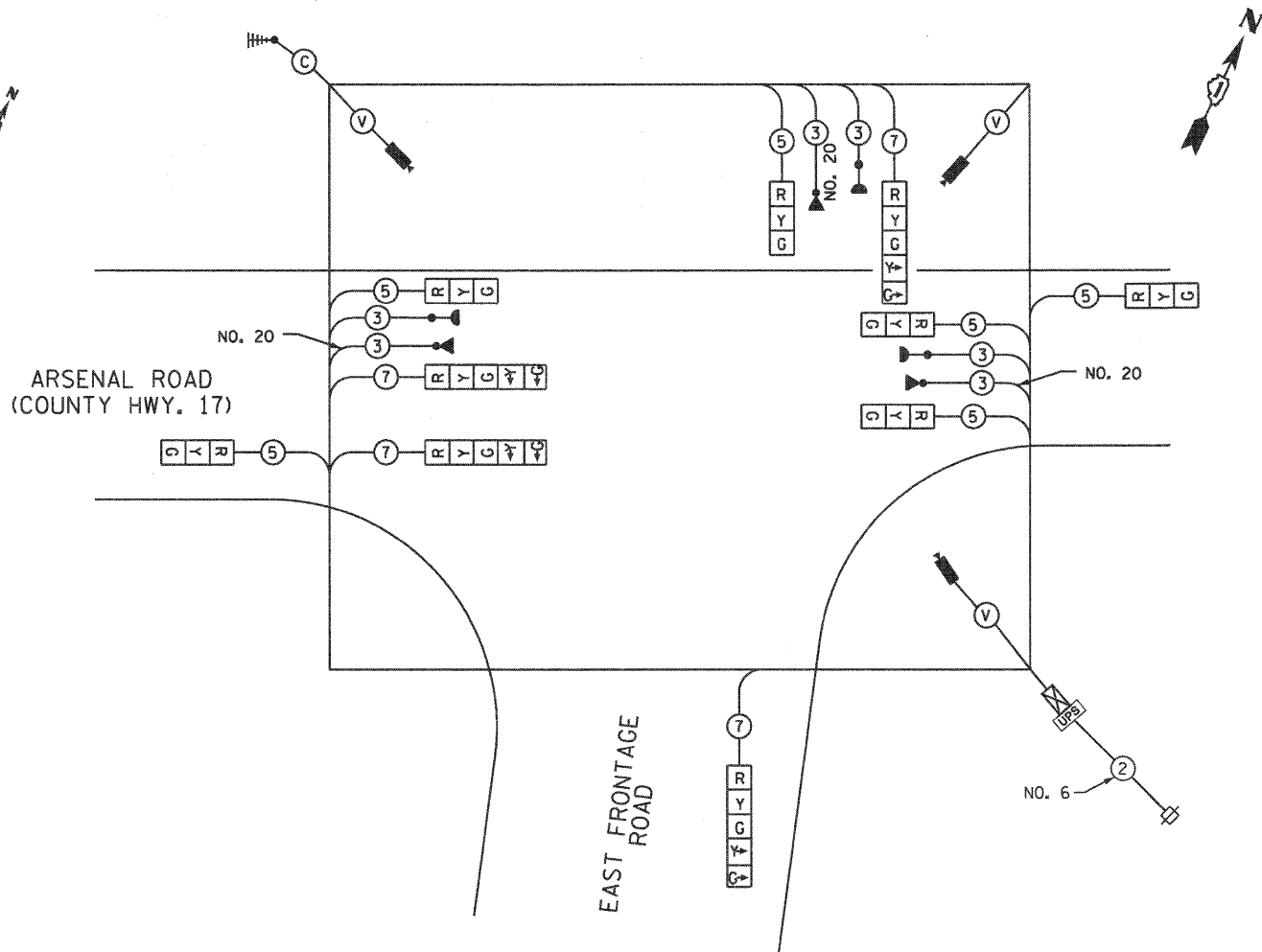
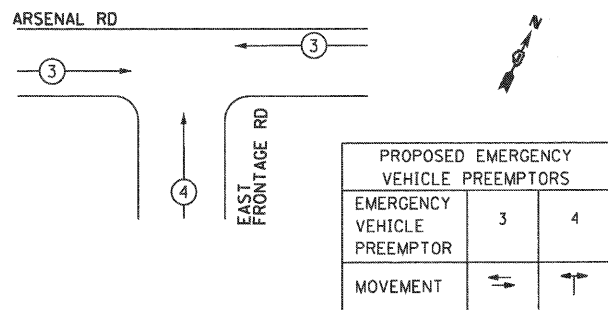
TEMPORARY PHASE DESIGNATION DIAGRAM

STAGE 3, 4, 4B, AND 4C

PHASE DESIGNATION DIAGRAM

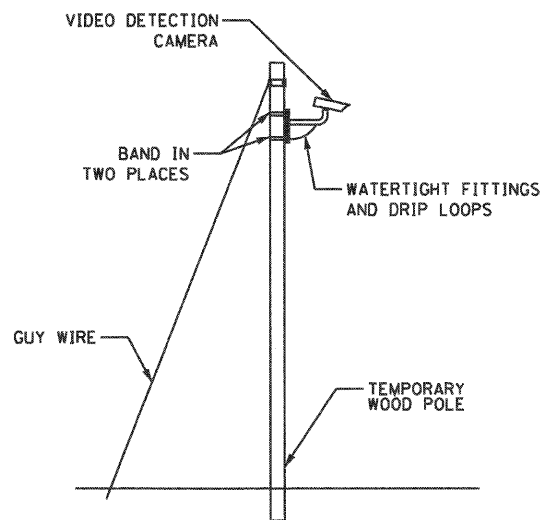
OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
D	= 8	+ 1

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



TEMPORARY CABLE PLAN

STAGE 3, 4, 4B, AND 4C



TEMPORARY VIDEO DETECTION MOUNTING DETAIL

NOT TO SCALE

EJM ENGINEERING, INC.
411 South Wells Street Suite 800
Chicago, Illinois 60607



I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					
TYPE	NO. OF LAMPS	WATTAGE		% OPERATIONS	TOTAL WATTAGE
		INCAND.	LED		
SIGNAL (RED)	10	17		0.50	85.00
(YELLOW)	10		25	0.25	62.50
(GREEN)	10		15	0.25	37.50
ARROW	8		12	0.10	9.6
CONTROLLER	1		100	1.00	100.00
VIDEO SYSTEM		150		1.00	150.00
ENERGY COSTS TO:					TOTAL = 444.6
WILL COUNTY DEPARTMENT OF HIGHWAYS 16841 LARAWAY ROAD JOLIET, ILLINOIS 60433					
ENERGY SUPPLY CONTACT:		MS. BETTY BRULD			
PHONE:		815-724-5052			
COMPANY:		COMED			

FILE NAME = ...D160F12-SHT-TR04-11.dgn	DESIGNED - GR	REVISD -
USER NAME = gr01	DRAWN - GR	REVISD -
PLOT SCALE = NONE	CHECKED - RY	REVISD -
PLOT DATE = 2/3/2011	DATE - 02/04/2011	REVISD -

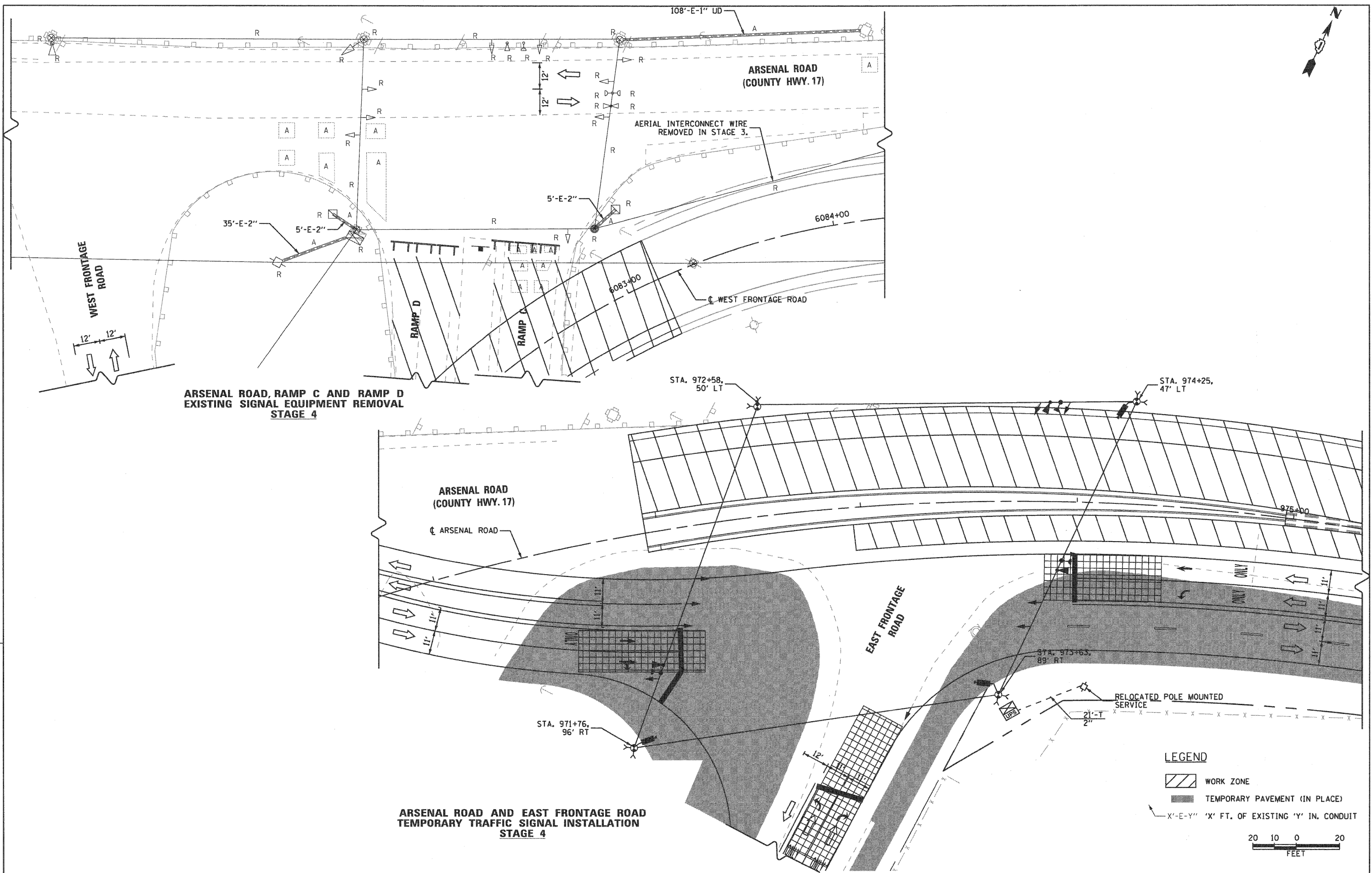
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, PHASE DESIGNATION DIAGRAM
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE - STAGE 3
EXISTING ARSENAL ROAD AND EAST FRONTAGE ROAD

SCALE: NONE SHEET NO. 5 OF 9 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-2B-1	WILL	756	342
				CONTRACT NO. 60F12
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FINAL



**ARSENAL ROAD, RAMP C AND RAMP D
EXISTING SIGNAL EQUIPMENT REMOVAL
STAGE 4**

**ARSENAL ROAD AND EAST FRONTAGE ROAD
TEMPORARY TRAFFIC SIGNAL INSTALLATION
STAGE 4**

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT (IN PLACE)
- 'X'-E-'Y' 'X' FT. OF EXISTING 'Y' IN. CONDUIT

20 10 0 20
FEET

EJM ENGINEERING, INC.
411 South Wells Street Suite 800
Chicago, Illinois 60607



FILE NAME = ...\\0160F12-SHT-TR05-3I.dgn	USER NAME = gpa1	DESIGNED - GR	REVISED -
		DRAWN - GR	REVISED -
		CHECKED - RY	REVISED -
		DATE - 02/04/2011	REVISED -

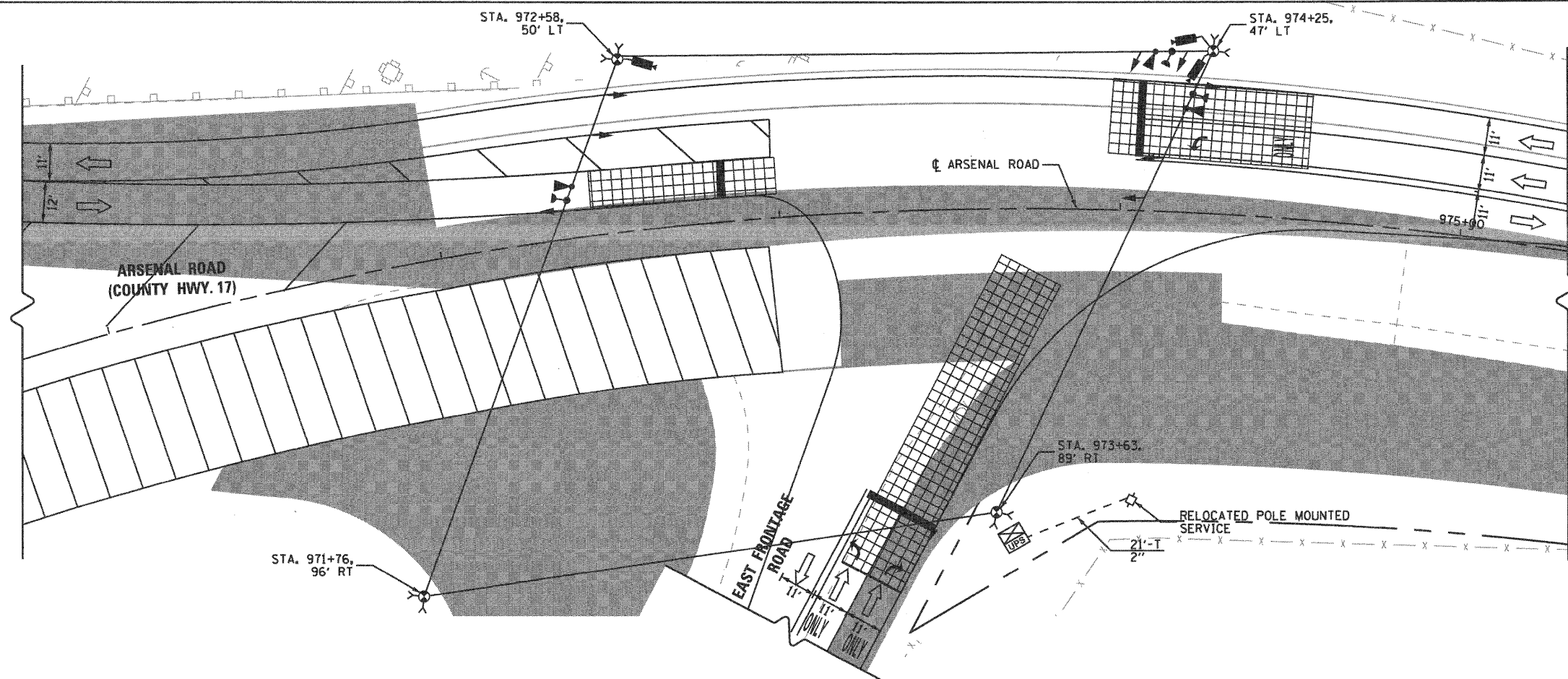
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVE EXISTING
TRAFFIC SIGNAL EQUIPMENT PLAN
STAGE 4**

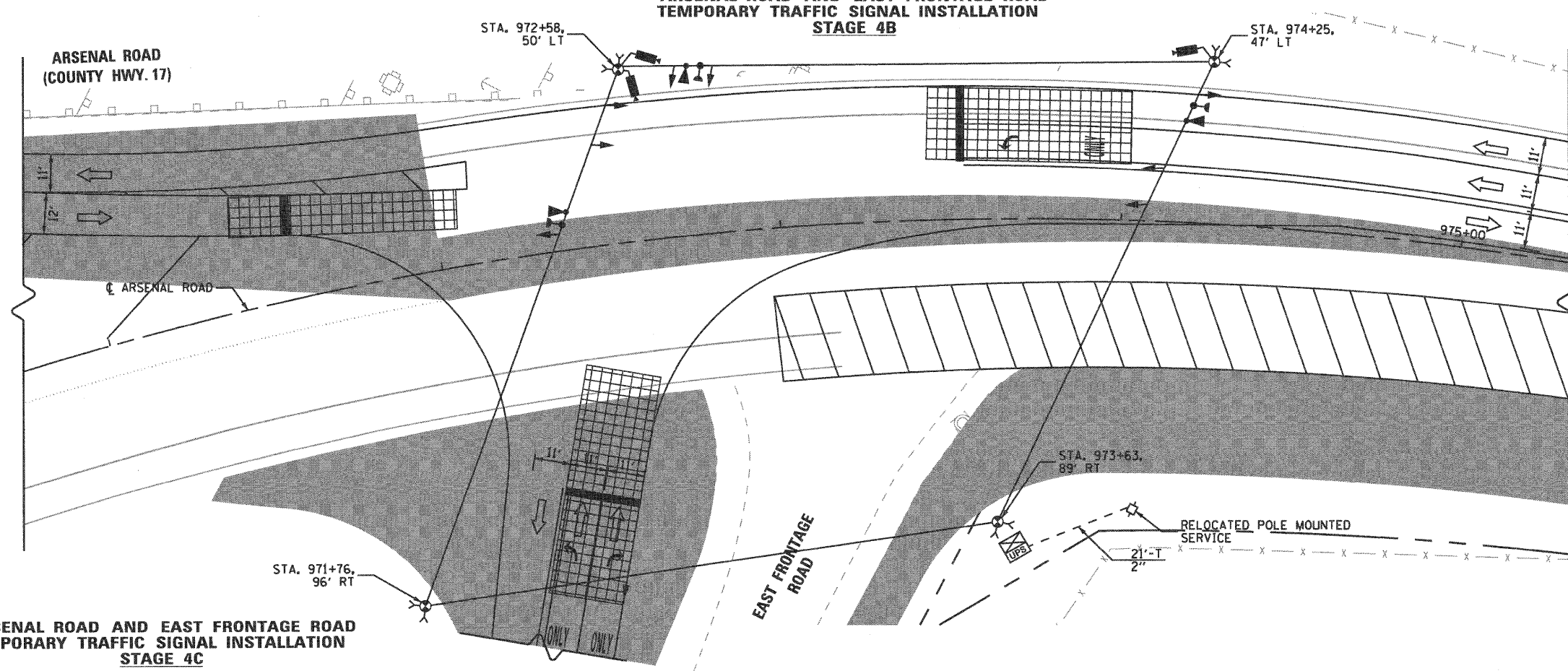
SCALE: 1"=20' SHEET NO. 6 OF 9 SHEETS

F.A.I. RTE. 55	SECTION 99-2HB-2B-1	COUNTY WILL	TOTAL SHEETS 756	SHEET NO. 343
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60F12	

FINAL



**ARSENAL ROAD AND EAST FRONTAGE ROAD
TEMPORARY TRAFFIC SIGNAL INSTALLATION
STAGE 4B**



**ARSENAL ROAD AND EAST FRONTAGE ROAD
TEMPORARY TRAFFIC SIGNAL INSTALLATION
STAGE 4C**

LEGEND

WORK ZONE

TEMPORARY PAVEMENT (IN PLACE)

20 10 0 20
FEET

EJM ENGINEERING, INC.
411 South Wells Street Suite 800
Chicago, Illinois 60607



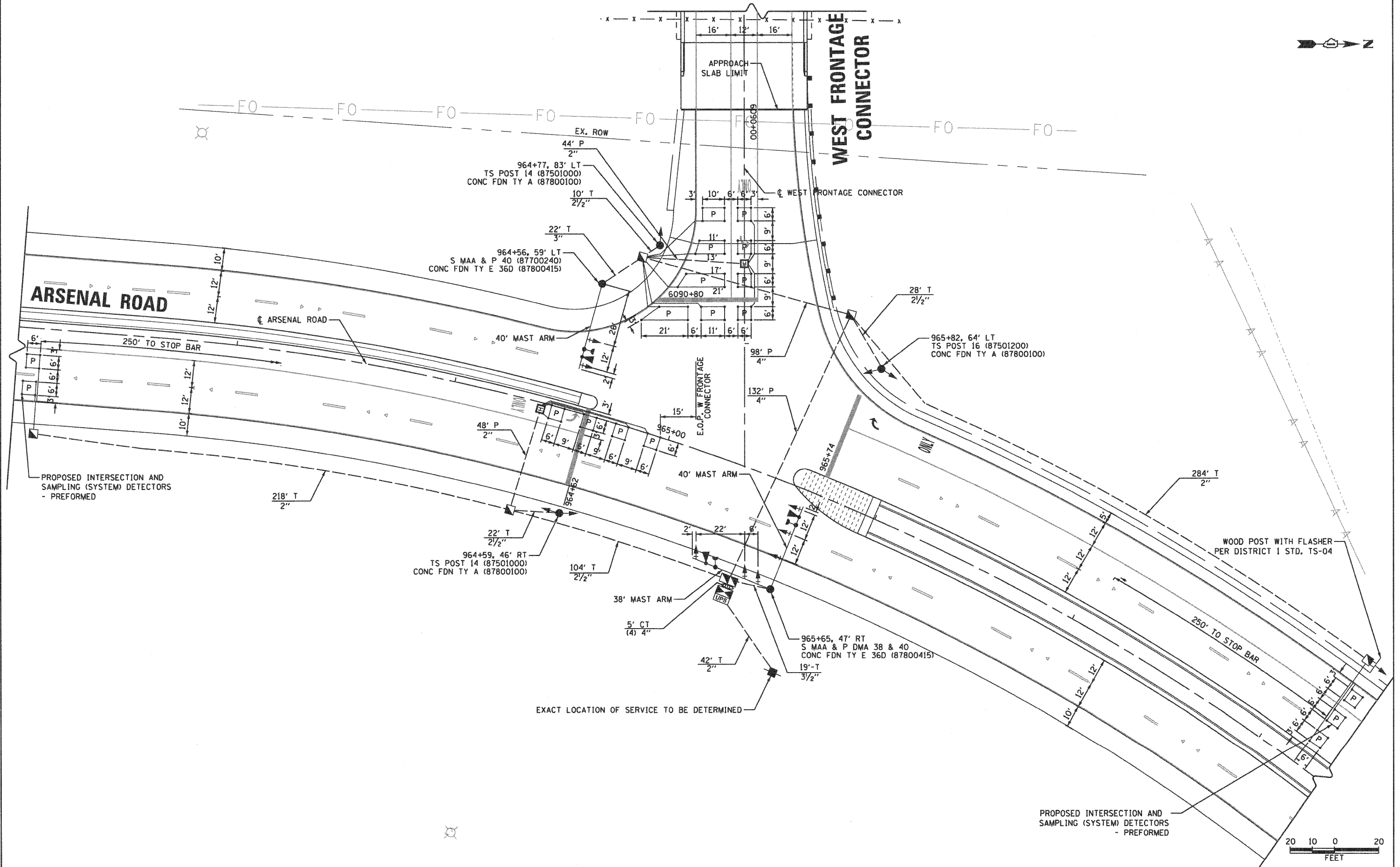
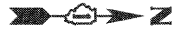
FILE NAME = ...ND160F12-SHT-TR06-14.dgn	USER NAME = grs	DESIGNED - GR	REVISED -
		DRAWN - GR	REVISED -
		CHECKED - RY	REVISED -
		DATE - 02/04/2011	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

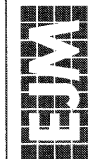
TEMPORARY TRAFFIC SIGNAL INSTALLATION STAGE 4B AND 4C EAST FRONTAGE ROAD AND ARSENAL ROAD	
SCALE: 1"=20'	SHEET NO. 7 OF 9 SHEETS

F.A.I. RTE. 55	SECTION 99-2HB-2B-1	COUNTY WILL	TOTAL SHEETS 756	SHEET NO. 344
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60F12	

FINAL



EJM ENGINEERING, INC.
 411 South Wells Street Suite 800
 Chicago, Illinois 60607



FILE NAME = ...\\D160F12-SHT-TR07-20.dgn	USER NAME = grot	DESIGNED - GR	REVISED -
		DRAWN - GR	REVISED -
		CHECKED - RY	REVISED -
		DATE - 02/04/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION PLAN
WEST FRONTAGE CONNECTOR AND ARSENAL ROAD

SCALE: 1"=20' SHEET NO. 8 OF 9 SHEETS

F.A.1 RTE. 55	SECTION 99-2HB-2B-1	COUNTY WILL	TOTAL SHEETS 756	SHEET NO. 345
CONTRACT NO. 60F12				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



FINAL

CONTROLLER SEQUENCE

WEST FRONTAGE CONNECTOR
ARSENAL RD.

LEGEND

- ◻ SINGLE ENTRY PHASE
- ◉ DUAL ENTRY PHASE
- ◊ OVERLAP
- NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 4 + 5	
B	= 6 + 4	

EMERGENCY VEHICLE PRE-EMPTION SEQUENCE

WEST FRONTAGE CONNECTOR
ARSENAL RD.

PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	↓	↔

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	WATTAGE		% OPERATIONS	TOTAL WATTAGE
		INCAND.	LED		
SIGNAL (RED)	13		17	0.50	110.50
(YELLOW)	9		25	0.25	56.25
(GREEN)	9		15	0.25	33.75
ARROW	16		25	1.00	19.20
CONTROLLER	1		100	1.00	100.00
FLASHER	1		25	0.50	12.50

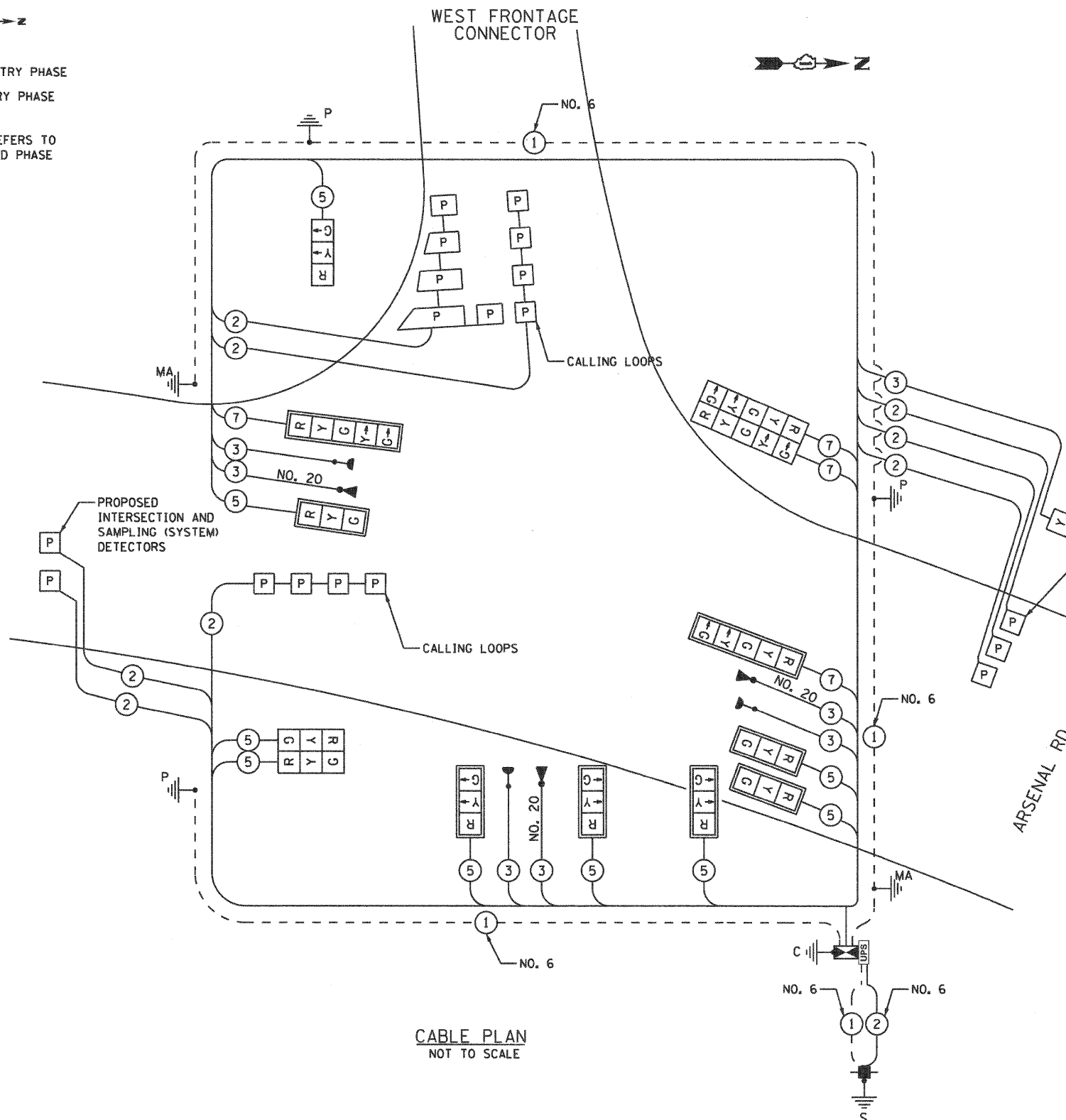
ENERGY COSTS TO: TOTAL = 332.20

WILL COUNTY DEPARTMENT OF HIGHWAYS

16841 LARAWAY ROAD
JOLIET, ILLINOIS 60433

ENERGY SUPPLY CONTACT: **MS. BETTY BRULO**
PHONE: 815-724-5052
COMPANY: COMED

WEST FRONTAGE CONNECTOR



CABLE PLAN
NOT TO SCALE

SCHEDULE OF QUANTITIES

CODE NUMBER	ITEM	UNIT	TOTAL
81000600	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	544
81000700	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	164
81000800	CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FOOT	22
81000900	CONDUIT IN TRENCH, 3 1/2" DIA., GALVANIZED STEEL	FOOT	19
81001000	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	20
81018500	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	92
81018900	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	230
81400100	HANDHOLE	EACH	5
81400200	HEAVY-DUTY HANDHOLE	EACH	2
81400300	DOUBLE HANDHOLE	EACH	1
81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	769
85700200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
86200200	UNINTERRUPTIBLE POWER SUPPLY, STANDARD	EACH	1
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1007
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1360
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	810
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2827
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2/C	FOOT	59
87501000	TRAFFIC SIGNAL POST, 14 FT.	EACH	2
87501200	TRAFFIC SIGNAL POST, 16 FT.	EACH	1
87700240	STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.	EACH	1
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	12
87800150	CONCRETE FOUNDATION, TYPE C	FOOT	4
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	27
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	6
88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2
88030210	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
88030220	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
88040030	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 1-SECTION, POST MOUNTED	EACH	1
88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	8
88500100	INDUCTIVE LOOP DETECTOR	EACH	8
88700200	LIGHT DETECTOR	EACH	3
88700300	LIGHT DETECTOR AMPLIFIER	EACH	1
Z0033060	PREFORMED DETECTOR LOOP	FOOT	788
X8050015	SERVICE INSTALLATION - POLE MOUNTED	EACH	1
	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1/C	FOOT	1130
	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	538
	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 38 FT. AND 40 FT.	FOOT	1

EJM ENGINEERING, INC.
411 South Wells Street Suite 800
Chicago, Illinois 60607

FILE NAME = ...\\0160F12-SHT-TR08-22.dgn	USER NAME = gms1	DESIGNED - GR	REVISED -
		DRAWN - GR	REVISED -
		CHECKED - RY	REVISED -
		DATE - 02/04/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE WEST FRONTAGE CONNECTOR AND ARSENAL ROAD

SCALE: NONE SHEET NO. 9 OF 9 SHEETS

F.A.I. RTE. 55	SECTION 99-2HB-2B-1	COUNTY WILL	TOTAL SHEETS 756	SHEET NO. 346
CONTRACT NO. 60F12			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	

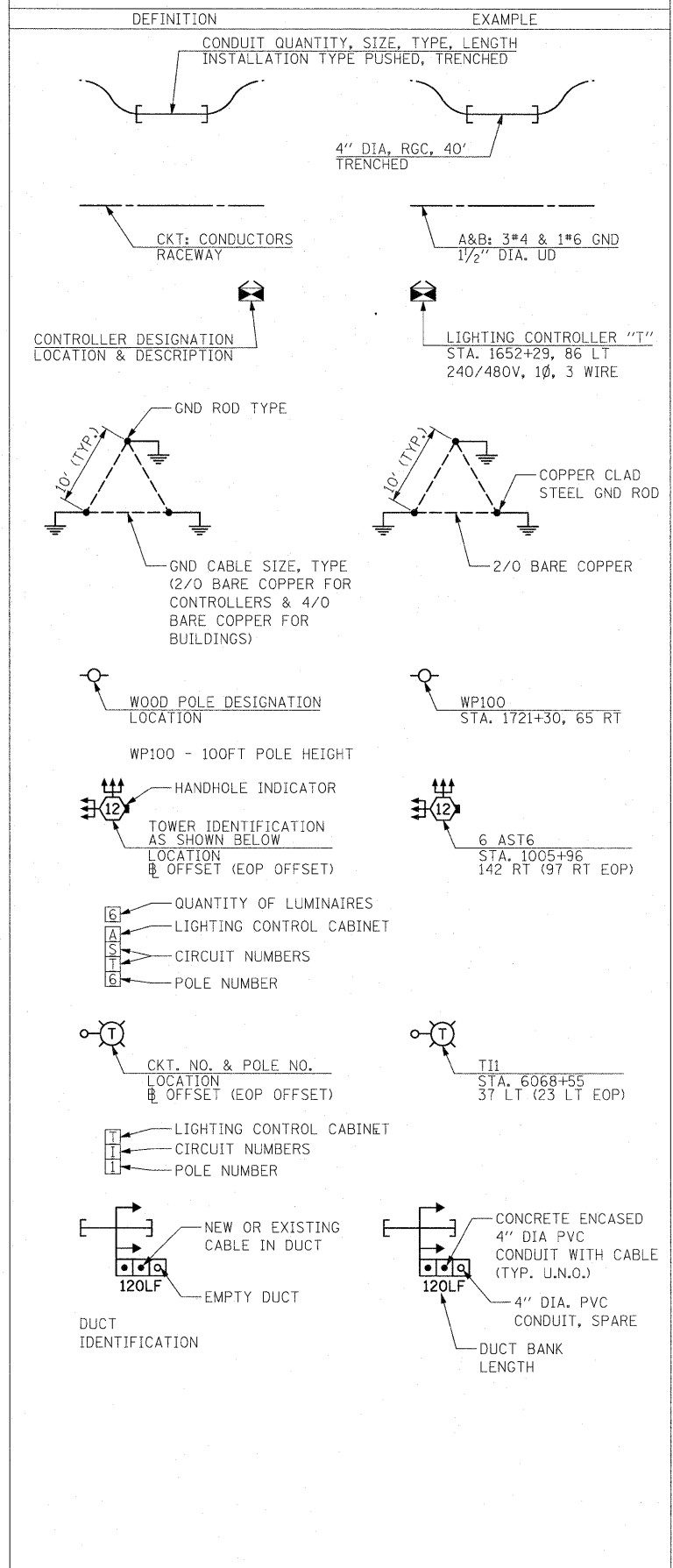
ROADWAY ELECTRICAL SYMBOL

SYMBOL	DESCRIPTION
	EXISTING HIGH MAST TOWER TO REMAIN
	EXISTING HIGH MAST TOWER TO BE REMOVED
	PROPOSED HIGH MAST TOWER ARROWS INDICATE QUANTITY OF LUMINAIRES NUMBER INDICATES TOWER TYPE TYPE TOWER HEIGHT 12 120ft (36.5m) 13 130ft (40.0m)
	PROPOSED HIGH MAST TOWER FOUNDATION
	EXISTING TEMPORARY LIGHTING UNIT TO REMAIN
	EXISTING TEMPORARY LIGHTING UNIT WITH TWO LUMINAIRES TO REMAIN
	EXISTING TEMPORARY LIGHTING UNIT WITH THREE LUMINAIRES TO REMAIN
	EXISTING TEMPORARY LIGHTING UNIT TO BE REMOVED
	EXISTING TWIN TEMPORARY LIGHTING UNIT WITH BULLHORN MOUNTING BRACKET TO BE REMOVED
	EXISTING TRIPLE TEMPORARY LIGHTING UNIT WITH BULLHORN MOUNTING BRACKET TO BE REMOVED
	TEMPORARY LIGHTING UNIT, 80 FOOT MOUNTING HEIGHT
	TWIN TEMPORARY LIGHTING UNIT WITH BULLHORN MOUNTING BRACKET, 80 FOOT MOUNTING HEIGHT
	TRIPLE TEMPORARY LIGHTING UNIT WITH BULLHORN MOUNTING BRACKET, 80 FOOT MOUNTING HEIGHT
	TEMPORARY LIGHTING UNIT TO BE REMOVED AND RELOCATED
	UNDERPASS LUMINAIRE, 70 WATT HPS
	EXISTING LIGHTING CONTROLLER, DUPLEX
	EXISTING UTILITY SERVICE CONNECTION, POLE MOUNTED TRANSFORMER
	EXISTING UTILITY SERVICE CONNECTION, PAD MOUNTED TRANSFORMER
	PROPOSED LIGHTING CONTROLLER, DUPLEX (DOOR SIDE AS INDICATED)
	PROPOSED UTILITY SERVICE CONNECTION, POLE MOUNTED TRANSFORMER
	PROPOSED UTILITY SERVICE CONNECTION, PAD MOUNTED TRANSFORMER
	LIGHTED SIGN STRUCTURE - CANTILEVER TYPE

ROADWAY ELECTRICAL SYMBOL

SYMBOL	DESCRIPTION
	ELECTRIC JUNCTION BOX, TYPE AND SIZE AS INDICATED
	ELECTRIC HANDHOLE
	ELECTRIC PULLBOX
	ELECTRIC JUNCTION BOX WITH BUCK-BOOST TRANSFORMER(S)
	TEMPORARY WOOD POLE
	ELECTRIC UTILITY POLE
	ELECTRIC GROUND ROD
	ELECTRIC SERVICE WEATHERHEAD
	EXPOSED CONDUIT
	UNIT DUCT
	EXISTING UNDERGROUND WIRING TO REMAIN
	EXISTING CONDUIT EXPOSED
	EXISTING ELECTRIC CABLE TO BE ABANDONED
	AERIAL ELECTRIC CABLE
	EXISTING AERIAL ELECTRIC CABLE TO BE REMOVED
	CONCEALED CONDUIT IN STRUCTURE
	CONCEALED CONDUIT UNDERGROUND, TRENCHED OR PUSHED
	DUCT BANK
	RACEWAY OR DIRECT BURIAL CABLE UNDERGROUND, WITHOUT ENCASEMENT
	CONDUIT TURNED UP
	CONDUIT TURNED DOWN
	FLEXIBLE CONDUIT
	LIQUID TIGHT FLEXIBLE METAL CONDUIT

CALL-OUT SAMPLES



ABBREVIATIONS

ABBREVIATION	DESCRIPTION
AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
AC	ALTERNATING CURRENT
A/C	AERIAL CABLE
AFC	ABOVE FINISHED GRADE
A/R	AERIAL CABLE TO BE REMOVED
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
ATS	ATTACHED TO STRUCTURE
B	BASELINE
CB	CIRCUIT BREAKER
CKT	CIRCUIT
C	CENTERLINE
CM	CENTIMETER
CP	CONTROL PANEL
CT	CURRENT TRANSFORMER
DA	DAVIT ARM
DC	DIRECT CURRENT
DIA.	DIAMETER
DP	DISTRIBUTION PANEL
DWG	DRAWING
E	EXISTING UNIT TO REMAIN
ECA	ELECTRIC CABLE ASSEMBLY
EM	EXISTING UNIT TO BE MODIFIED (e.g. NEW LUMINAIRE, BALLAST OR MAST ARM)
EOP	EDGE OF TRAVELED PAVEMENT
ER	EXISTING RELOCATED UNIT
ET	EXISTING TEMPORARY UNIT TO REMAIN
ETR	EXISTING TEMPORARY RELOCATED UNIT
FT	FEET OR FOOT
FND BW	FOUNDATION BARRIER WALL
FND BW OS	FOUNDATION BARRIER WALL OFFSET
FND CON	FOUNDATION CONCRETE
FND CON OS	FOUNDATION CONCRETE OFFSET
FND MET	FOUNDATION METAL
FND PW	FOUNDATION PARAPET WALL
FU	FUSE
GND	GROUND
HD GALV	HOT DIPPED GALVANIZED
HID	HIGH INTENSITY DISCHARGE
HMT	HIGH MAST TOWER
HPS	HIGH PRESSURE SODIUM
I.D.	INNER DIAMETER
IDOT	ILLINOIS DEPARTMENT OF TRANSPORTATION
JB	JUNCTION BOX
KVA	KILOVOLT-AMPERE
KW	KILOWATTS
LF	LINEAR FEET
LT	LEFT
M	METER
MA	MAST ARM
MM	MILLIMETER
MTG HT	MOUNTING HEIGHT
MW	MESSANGER WIRE
NO. #	NUMBER
N.T.S.	NOT TO SCALE
O.D.	OUTER DIAMETER
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
REF.	FOR REFERENCE
RGC	RIGID GALVANIZED CONDUIT
RT	RIGHT
SEL SW	SELECTOR SWITCH
SPARE	SPARE
SPACE	SPACE
SS	STAINLESS STEEL
STA	STATION
T	TEMPORARY LIGHTING UNIT
TMP	TEMPORARY
TR	TEMPORARY UNIT TO BE REMOVED, SALVAGE EQUIPMENT AS SPECIFIED
TRR	TEMPORARY UNIT TO BE REMOVED AND RELOCATED
TUR	TEMPORARY UNIT ON UTILITY POLE TO BE REMOVED
TYP.	TYPICAL
UD	UNIT DUCT
U.N.O.	UNLESS NOTED OTHERWISE
WP	WOOD POLE
XFMR	TRANSFORMER

FILE NAME =
0160F12-SH7-GE-1.dgn

USER NAME = TKIuegal	DESIGNED - JLW	REVISED -
PLOT SCALE = 1:1	DRAWN - CJM	REVISED -
PLOT DATE = 3/7/2011	CHECKED - KMY	REVISED -
	DATE = 2/4/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-55 AT ARSENAL ROAD
ELECTRICAL SYMBOL LIST AND ABBREVIATIONS

SCALE: SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-2B-1	WILL	756	347
CONTRACT NO. 60F12			ILLINOIS FED. AID PROJECT	

GENERAL NOTES:

1. THE CONTRACTOR SHALL VERIFY ALL OF THE INFORMATION SHOWN ON THE CONTRACT DRAWINGS WHICH WOULD AFFECT THE WORK UNDER THIS CONTRACT.
2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ASCERTAIN EXISTING FIELD CONDITIONS BEFORE BIDDING ON THIS PROJECT, SPECIFICALLY AS THEY RELATE TO LUMP SUM ITEMS AND UNIT PRICE ITEMS.
3. ALL NEW CONDUIT, JUNCTION BOXES AND APPURTENANCES ARE INDICATED DIAGRAMMATICALLY ON THE DRAWINGS. THE ACTUAL LOCATIONS IN THE FIELD SHALL MEET WITH APPROVAL OF THE ENGINEER.
4. ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH NEC/IES AND THE FOLLOWING LATEST STATE OF ILLINOIS STANDARD AND SPECIFICATIONS; THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED JANUARY 1, 2007 AND SPECIAL PROVISIONS ADOPTED IN JANUARY 2010, IES AND NEC.
5. THE SCALE SHOWN ON PLAN DRAWINGS APPLIES ONLY TO THE FULL SIZE PLANS AND NOT TO REDUCED SIZE PLANS.
6. THE CONTRACTOR SHALL FURNISH AND INSTALL LUMINAIRE LAMPS IN ACCORDANCE WITH THE SUPPLIER'S RECOMMENDATIONS AND IN ACCORDANCE WITH THE SPECIFICATIONS. THE COST OF THIS WORK AND MATERIAL SHALL BE INCLUDED IN THE APPLICABLE LUMINAIRE PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
7. THE CONTRACTOR SHALL FURNISH AND INSTALL POLE WIRING AT EACH POLE. THIS SHALL BE CONSIDERED INCIDENTAL TO THE LIGHT POLE PAY ITEMS. NO EXTRA COMPENSATION WILL BE ALLOWED FOR THIS ITEM.
8. ALL LUMINAIRES SHALL BE ORIENTED WITH THE OPTICS PERPENDICULAR TO THE ROADWAY UNLESS OTHERWISE INDICATED OR DIRECTED BY THE ENGINEER. THE LUMINAIRES MAY REQUIRE NIGHT-TIME OPTICAL ADJUSTMENT UPON INSPECTION BY THE ENGINEER. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE APPLICABLE LUMINAIRE PAY ITEMS. SEPARATE PAYMENT WILL NOT BE MADE.
9. FOR THE EXISTING LIGHT POLE AND FOUNDATIONS THAT ARE TO BE REMOVED, THE ASSOCIATED UNDERGROUND CONDUITS AND CABLE SHALL BE SEPARATED FROM RESPECTIVE FOUNDATIONS AT 2.5 FEET (760 mm) BELOW GRADE AND SHALL BE ABANDONED.
10. EXISTING UNDERGROUND WIRING SHOWN ON PLANS IS DIAGRAMMATIC. CONTRACTOR SHALL MAINTAIN CONTINUITY TO ALL EXISTING WIRING TO EXISTING LIGHTING TO REMAIN.
11. UNLESS NOTED OTHERWISE, ALL LIGHTING EQUIPMENT REMOVED AS PART OF THIS CONTRACT SHALL REMAIN THE PROPERTY OF THE STATE AND SHALL BE DELIVERED TO THE STATE'S ELECTRICAL MAINTENANCE CONTRACTOR'S FACILITY LOCATED WITHIN DISTRICT 1 IN ACCORDANCE WITH THE SPECIAL PROVISIONS.
12. CONDUITS AND UNIT DUCTS SHALL BE INSTALLED AT A MINIMUM 36 INCH DEPTH BELOW GRADE AND POSITIONED IN THE FIELD TO AVOID CONFLICT WITH ROADWAY UNDERDRAINS AND OTHER EXISTING AND PROPOSED UTILITIES. THE CONTRACTOR SHALL INCREASE DEPTH OF UNIT DUCT AND CONDUIT AS REQUIRED AT NO ADDITIONAL COST TO THE STATE. THE CONTRACTOR SHALL COORDINATE RACEWAY DEPTH WITH THE ELECTRICAL DETAILS AND THE ENGINEER.
13. WHERE MULTIPLE CONDUITS ADJACENT TO EACH OTHER ARE INSTALLED IN A COMMON TRENCH, TRENCH AND BACKFILL WILL NOT BE PAID FOR EACH CONDUIT, BUT WILL BE PAID FOR THE LENGTH OF THE COMMON TRENCH ONLY.
14. WHERE THE CONTRACTOR'S EXCAVATION MEETS AN OBSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR DIRECTION IN WRITING PRIOR TO EXCAVATION. THE CONTRACTOR SHALL RESTORE ANY DAMAGE TO EXISTING SYSTEMS OR UTILITIES AND REMOVE EXISTING OBSTRUCTIONS AND FOUNDATIONS TO THE SATISFACTION OF THE ENGINEER. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE APPROPRIATE PAY ITEM.
15. THE CONTRACTOR SHALL COORDINATE ALL WORK AND MATERIALS WITH SPECIAL ATTENTION TO ALL OTHER CONSTRUCTION CONTRACTS. THIS WORK SHALL BE INCLUDED IN THE COST OF THIS CONTRACT. SEPARATE PAYMENT WILL NOT BE MADE.
16. THE CONTRACTOR SHALL CALL J.U.L.I.E. (1-800-892-0123) 72 HOURS BEFORE EXCAVATION FOR UNDERGROUND UTILITY LOCATIONS. UTILITY LOCATIONS SHOWN ON PLANS ARE APPROXIMATE.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL ABOVE AND BELOW GROUND UTILITIES, EVEN THOUGH THEY MAY NOT APPEAR ON THE PLANS. ANY DAMAGE DONE TO EXISTING UTILITIES BY THE CONTRACTOR SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
18. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.
19. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO COMMENCING WORK AND COMPLY WITH STATE REGULATIONS REGARDING AIR, WATER, AND NOISE POLLUTION.
20. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH ALL UTILITY COMPANIES.
21. WHEN ARTIFICIAL LIGHTING IS UTILIZED IN NIGHT OPERATIONS THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC.
22. QUANTITIES OF RIGID GALVANIZED STEEL CONDUIT AND PVC CONDUIT WHERE INDICATED ON THE PLANS, ARE APPROXIMATIONS ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL LENGTHS AND SHALL INSTALL RACEWAYS IN COMPLETE CONFORMANCE WITH SPECIFIED REQUIREMENTS.

GENERAL NOTES (CONTINUED):

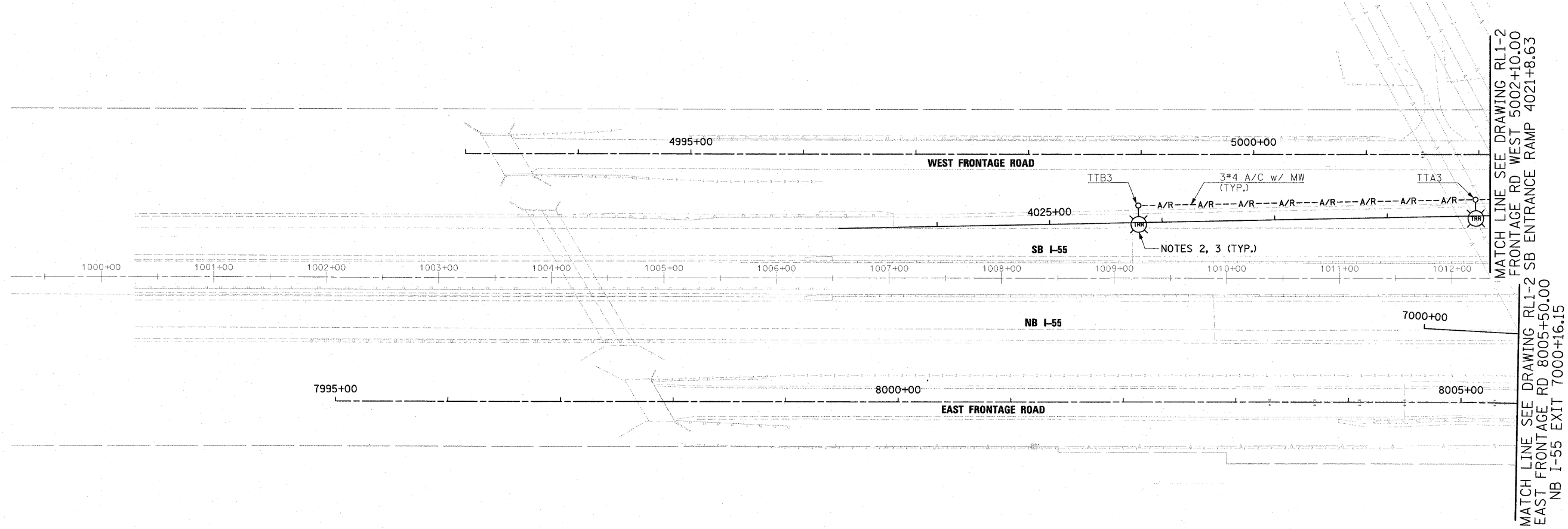
23. GROUNDING CONNECTIONS AT ALL EQUIPMENT FOUNDATIONS SHALL BE EXOTHERMICALLY WELDED, UNLESS NOTED OTHERWISE, AS SPECIFIED, AND SHALL BE INSPECTED AND APPROVED BY THE ENGINEER PRIOR TO POURING CONCRETE OR BACKFILLING, AS APPLICABLE.
24. NO EQUIPMENT OR MATERIAL SHALL BE DELIVERED TO THE JOB SITE PRIOR TO THE APPROVAL AND INSPECTION OF THE ENGINEER. ANY EQUIPMENT OR MATERIAL DELIVERED TO THE JOB SITE PRIOR TO APPROVAL AND INSPECTION SHALL BE REMOVED FROM THE JOB SITE AT THE CONTRACTOR'S EXPENSE.
25. CONDUIT PUSHED AND IN TRENCH SHALL EXTEND (2') BEYOND THE SHOULDER, CURB, BARRIER WALL AND/OR GUARDRAIL, AS APPLICABLE.
26. THE PROPOSED LIGHTING CONTROL CABINET SHALL BE INSTALLED WITHIN THE RIGHT OF WAY WITH THE EXACT LOCATION TO BE CONFIRMED BY THE CONTRACTOR IN THE FIELD.
27. THE CONTRACTOR SHALL PREPARE A PRELIMINARY SCHEDULE WHEN THE CONTRACT COMMENCES WHICH ESTABLISHES THE DATE WHEN THE ELECTRICAL SERVICES WILL BE REQUIRED. THIS SCHEDULE SHALL BE FORWARDED IN WRITING TO COMMONWEALTH EDISON COMPANY (ComEd). SUBSEQUENT UPDATING OF THE SCHEDULE SHALL BE FORWARDED TO COMED AS CHANGES MAY OCCUR IN THE DATE OF SERVICE REQUIREMENTS. TEN (10) DAYS BEFORE THE ELECTRICAL SERVICES ARE REQUIRED, THE CONTRACTOR SHALL NOTIFY COMED BY PHONE AND CONFIRM THE REQUEST IN WRITING. COMED SERVICE CONTRACT AND AGREEMENT SHALL BE FORWARDED TO IDOT FOR REVIEW AND SIGNATURE.
28. ALL PITS USED FOR INSTALLING PUSHED (JACKED) STEEL CONDUITS UNDER EXISTING ROADWAYS SHALL BE LOCATED 5'-0" (MINIMUM) CLEAR FROM THE EDGE OF SHOULDER. LOCATIONS OF THE CONDUIT CROSSINGS SHOWN ARE APPROXIMATE AND MAY BE SHIFTED AS NECESSARY TO MEET THE MINIMUM CLEARANCE REQUIRED. THE CONTRACTOR SHALL SUBMIT PLANS FOR THE LOCATION AND SIZE OF EACH PIT AND MAINTENANCE AND PROTECTION OF TRAFFIC AT THE SITE OF EACH PIT FOR THE APPROVAL OF THE ENGINEER BEFORE THE EXCAVATION OF ANY PIT MAY BEGIN.
29. NO POLES SHALL BE ERECTED UNTIL THE RESPECTIVE FOUNDATIONS HAVE CURED, AS APPROVED BY THE ENGINEER.
30. THE CONTRACTOR WILL NOT BE PAID FOR POLES UNTIL LUMINAIRES ARE INSTALLED, WIRED, TESTED, AND ACCEPTED BY THE ENGINEER.
31. ALL TEMPORARY LIGHT POLES AND PROPOSED HIGH MAST LIGHT TOWERS SHALL BE LOCATED TO PROVIDE SAFETY CLEARANCES FROM THE ADJACENT COMED UTILITY POLES AND LINES AS REQUIRED BY COMED STANDARDS AND NATIONAL ELECTRICAL SAFETY CODE.
32. ALL 60 FT, CLASS 4 WOOD POLES AND 15 FT MAST ARMS UTILIZED IN THIS PROJECT SHALL BE OBTAINED FROM THE STATE'S STOCK. THE CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH IDOT AND RETRIEVE AND TRANSPORT ALL MATERIALS TO THE PROJECT SITE. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF "LIGHT POLE, WOOD, 60 FOOT, CLASS 4 (INSTALL ONLY)" PAY ITEM.
33. THE CONTRACTOR IS RESPONSIBLE TO RETURN ALL STATE OWNED MATERIALS TO THE STATE AFTER MATERIALS ARE REMOVED AND THEY ARE NO LONGER REQUIRED. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF "REMOVAL OF TEMPORARY LIGHTING UNIT, SALVAGE" PAY ITEM.
34. ALL LUMINAIRES USED FOR TEMPORARY LIGHTING AND LATER INSTALLED AS PERMANENT LIGHTING ON HIGH MAST LIGHT TOWERS SHALL MEET THE LUMINAIRE SPECIAL PROVISION INCLUDING THE PHOTOMETRIC CALCULATIONS, AND SHALL BE FROM THE SAME BATCH THAT WERE SUBJECTED TO, AND PASSED THE INDEPENDENT LUMINAIRE TESTING.

SUGGESTED LIGHTING PHASING NOTES:

- STAGE 1**
1. AFTER RAMP D IS CLOSED, REMOVE ALL RAMP D TEMPORARY LIGHTING AND TEMPORARY LIGHTING CONTROLLER. COORDINATE THE REMOVAL OF EXISTING ELECTRIC SERVICE WITH COMED. REMOVE TEMPORARY LIGHTING IN MANNER TO ALLOW FOR RELOCATION. SEE NOTE 2.
 2. FURNISH, INSTALL, AND ENERGIZE PROPOSED LIGHTING CONTROLLER "T", TEMPORARY LIGHTING FOR WEST FRONTAGE ROAD, AND TEMPORARY LIGHTING FOR EAST FRONTAGE ROAD. COORDINATE THE INSTALLATION OF NEW ELECTRIC SERVICE WITH COMED. UTILIZE TEMPORARY LIGHTING UNITS REMOVED FROM RAMP D PER NOTE 1.
 3. FURNISH, INSTALL, AND ENERGIZE TEMPORARY LIGHTING UNITS THAT WILL REPLACE REMOVED HIGH MAST LIGHT TOWERS. REMOVE SPECIFIC HIGH MAST LIGHT TOWERS, AND CONNECT TEMPORARY OVERHEAD WIRING TO REMAINING EXISTING UNDERGROUND HIGH MAST LIGHT TOWER WIRING.
- STAGE 2**
1. FURNISH, INSTALL, AND ENERGIZE PROPOSED LIGHTING CONTROLLER "A". COORDINATE THE INSTALLATION OF NEW ELECTRIC SERVICE WITH COMED.
 2. INSTALL TRENCHED CONDUIT FOR FUTURE USE. PROVIDE WATERTIGHT SEAL AT CONDUIT OPENINGS.
 3. FURNISH, INSTALL, AND ENERGIZE HIGH MAST LIGHT TOWERS SHOWN.
 4. FURNISH AND INSTALL BRIDGE JUNCTION BOX.
 5. FURNISH, INSTALL, AND ENERGIZE BUCK-BOOST TRANSFORMERS AS REQUIRED.
 6. INSTALL CONDUITS AND GROUND ROD FOR EACH HIGH MAST TOWER LOCATED ALONG THE RETAINING WALL AS THE TOWER FOUNDATION IS BEING CONSTRUCTED.
- STAGE 3**
1. FURNISH, INSTALL, AND ENERGIZE ADDITIONAL LIGHT TOWERS AND CONNECT TO EXISTING TOWERS.
 2. FURNISH, INSTALL, AND ENERGIZE LIGHT TOWERS AND CONNECT TO PROPOSED LIGHTING CONTROLLER "T".
 3. FURNISH, INSTALL, AND ENERGIZE UNDERPASS LIGHTING FOR RAMP C BRIDGE.
 4. FURNISH, INSTALL, AND ENERGIZE BUCK-BOOST TRANSFORMERS AS REQUIRED.
 5. AFTER EXISTING RAMPS A AND B ARE CLOSED, REMOVE EXISTING PERMANENT HIGH MAST TOWERS AND TEMPORARY LIGHTING UNITS EAST OF I-55 AS SHOWN. STORE AND PROTECT REMOVED LUMINAIRES FOR REUSE ON HIGH MAST TOWERS INSTALLED IN STAGE 4.
 6. INSTALL TRENCHED CONDUIT FOR FUTURE USE. PROVIDE WATERTIGHT SEAL AT CONDUIT OPENINGS.
 7. INSTALL CONDUITS AND GROUND ROD FOR EACH HIGH MAST TOWER LOCATED ALONG THE RETAINING WALL AS THE TOWER FOUNDATION IS BEING CONSTRUCTED.
- STAGE 4**
1. INSTALL CONDUITS AND GROUND ROD FOR EACH HIGH MAST TOWER LOCATED ALONG THE RETAINING WALL AS THE TOWER FOUNDATION IS BEING CONSTRUCTED.
 2. FURNISH, INSTALL, AND ENERGIZE ADDITIONAL LIGHT TOWERS AND CONNECT TO EXISTING WIRING AND EXISTING TOWERS.
 3. FURNISH, INSTALL, AND ENERGIZE ADDITIONAL LIGHT TOWERS AND CONNECT TO PROPOSED LIGHTING CONTROLLER "T".
 4. FURNISH, INSTALL, AND ENERGIZE BUCK-BOOST TRANSFORMERS AS REQUIRED.
 5. FURNISH AND INSTALL BRIDGE JUNCTION BOX FOR WEST FRONTAGE CONNECTOR BRIDGE. FURNISH, INSTALL, AND ENERGIZE UNDERPASS LIGHTING FOR WEST FRONTAGE CONNECTOR BRIDGE.
 6. AFTER PROPOSED HIGH MAST LIGHTING IS INSTALLED, ENERGIZED, AND ACCEPTED, REMOVE ALL TEMPORARY LIGHTING FOR THE EAST FRONTAGE ROAD, REMOVE ALL TEMPORARY LIGHTING FOR THE WEST FRONTAGE ROAD, REMOVE ALL TEMPORARY LIGHTING FOR THE OLD INTERCHANGE, REMOVE THE REMAINING ORIGINAL EXISTING HIGH MAST LIGHT TOWERS, AND REMOVE ORIGINAL EXISTING LIGHTING CONTROLLER "T". COORDINATE THE REMOVAL OF EXISTING ELECTRIC SERVICE WITH COMED.

FILE NAME = D168F12-SHT-GE-2.dgn	USER NAME = TKluogel	DESIGNED - KMY	REVISED -
		DRAWN - CJM	REVISED -
	PLOT SCALE = 1:1	CHECKED - KMY	REVISED -
	PLOT DATE = 2/3/2011	DATE - 2/4/11	REVISED -

SCALE:	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	F.A.I. RTE. 55	SECTION 99-2HB-2B-1	COUNTY WILL	TOTAL SHEETS 756	SHEET NO. 348
				CONTRACT NO. 60F12				
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT								

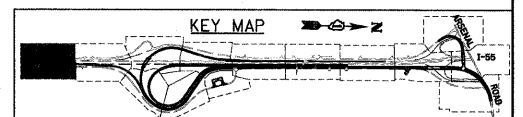
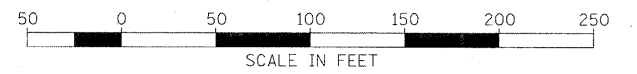


MATCH LINE SEE DRAWING RL1-2
FRONTAGE RD WEST 5002+10.00
SB ENTRANCE RAMP 4021+8.63

MATCH LINE SEE DRAWING RL1-2
EAST FRONTAGE RD 8005+50.00
NB I-55 EXIT 7000+16.15

NOTES:

- SEE DRAWING GE-1 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS. SEE DRAWING GE-2 FOR ELECTRICAL GENERAL NOTES AND SUGGESTED LIGHTING PHASING NOTES.
- THE CONTRACTOR SHALL REMOVE AND RELOCATE EXISTING LIGHTING UNIT CONSISTING OF 100 FT WOOD POLE WITH 15 FT MAST ARM AND 75W HPS HIGH MAST LUMINAIRE AFTER RAMP D IS CLOSED. THIS WORK SHALL BE INCLUDED IN THE "RELOCATE EXISTING LIGHTING UNIT, SPECIAL" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
- THE CONTRACTOR SHALL REMOVE WOOD POLE FOUNDATION AND BACKFILL HOLE. THIS WORK SHALL BE INCLUDED IN THE "REMOVAL OF POLE FOUNDATION" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.



McDonough Associates Inc.
 Engineers / Architects
 130 East Randolph Street Chicago, Illinois 60601

FILE NAME =	USER NAME = TKluegel
D:\60F12-SHT-RL1-1.dgn	
PLOT SCALE = 1:50	
PLOT DATE = 3/3/2011	

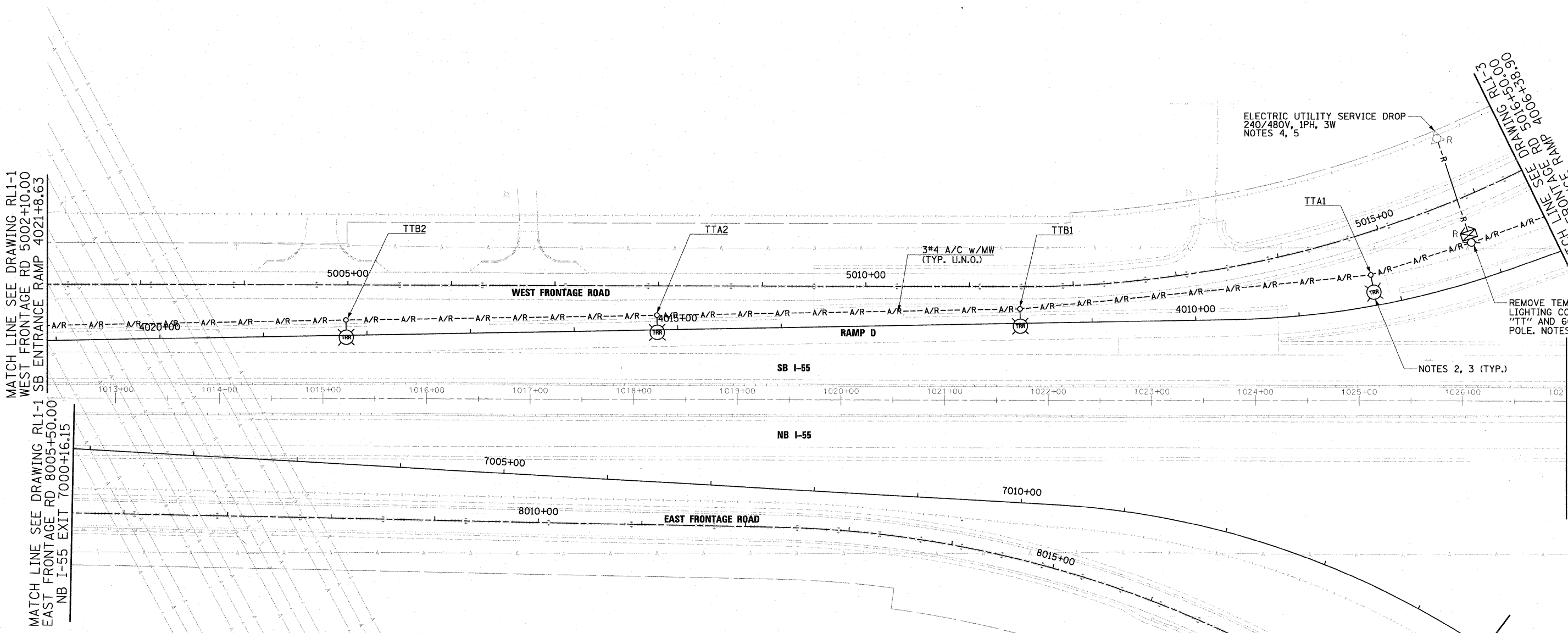
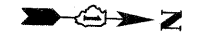
DESIGNED - JLW	REVISED -
DRAWN - CJM	REVISED -
CHECKED - KMY	REVISED -
DATE - 2/4/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-55 AT ARSENAL ROAD
PROPOSED ROADWAY LIGHTING PLAN-STAGE 1 DEMOLITION

SCALE: 1" = 50' SHEET NO. 1 OF 10 SHEETS STA. TO STA.

F.A.I R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-2B-1	WILL	756	349
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60F12	



MATCH LINE SEE DRAWING RL1-1
WEST FRONTAGE RD 5002+10.00
SB ENTRANCE RAMP 4021+8.63

MATCH LINE SEE DRAWING RL1-1
EAST FRONTAGE RD 8005+50.00
NB I-55 EXIT 7000+16.15

MATCH LINE SEE DRAWING RL1-3
SB ENTRANCE RAMP 4006+38.90
WEST FRONTAGE RD 5016+50.00

NOTES:

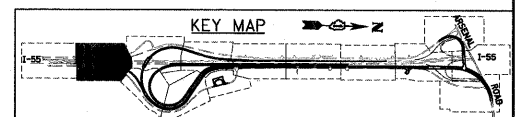
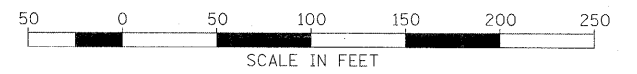
1. SEE DRAWING GE-1 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS. SEE DRAWING GE-2 FOR ELECTRICAL GENERAL NOTES AND SUGGESTED LIGHTING PHASING NOTES.
2. THE CONTRACTOR SHALL REMOVE AND RELOCATE EXISTING LIGHTING UNIT CONSISTING OF 100 FT WOOD POLE WITH 15 FT MAST ARM AND 750W HPS HIGH MAST LUMINAIRE AFTER RAMP D IS CLOSED. THIS WORK SHALL BE INCLUDED IN THE "RELOCATE EXISTING LIGHTING UNIT, SPECIAL" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
3. THE CONTRACTOR SHALL REMOVE WOOD POLE FOUNDATION AND BACKFILL HOLE. THIS WORK SHALL BE INCLUDED IN THE "REMOVAL OF POLE FOUNDATION" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
4. THE CONTRACTOR SHALL COORDINATE THE REMOVAL OF EXISTING ELECTRIC SERVICE WITH COMED. THE CONTRACTOR SHALL REMOVE THE 60 FT WOOD POLE, ABOVE GROUND CONDUIT AND WIRING, AND ELECTRIC SERVICE GROUNDING ELECTRODES. THE CONTRACTOR SHALL ABANDON UNDERGROUND CONDUIT AND WIRING IN ACCORDANCE WITH IDOT STANDARD SPECIFICATIONS. THIS WORK SHALL BE INCLUDED IN THE "REMOVAL OF ELECTRIC SERVICE INSTALLATION" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
5. THE CONTRACTOR SHALL REMOVE THE TEMPORARY LIGHTING CONTROLLER. THE CONTRACTOR SHALL DELIVER THE REMOVED EQUIPMENT TO THE DESIGNATED DISTRICT 1 MAINTENANCE FACILITY IN ACCORDANCE WITH SPECIAL PROVISIONS. THIS WORK SHALL BE INCLUDED IN THE "REMOVAL OF LIGHTING CONTROLLER" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.

ELECTRIC UTILITY SERVICE DROP
240/480V, 1PH, 3W
NOTES 4, 5

REMOVE TEMPORARY LIGHTING CONTROLLER "TT" AND 60' WOOD POLE. NOTES 4, 5

NOTES 2, 3 (TYP.)

LIMIT OF DEMOLITION WORK
EAST FRONTAGE RD 8018+95.00
NB I-55 EXIT 7014+75.00



McDonough Associates Inc.
 Engineers / Architects
 130 East Randolph Street, Chicago, Illinois 60601

FILE NAME =	USER NAME = TKLuegel
D160F12-SHT-RL1-2.dgn	
PLOT SCALE = 1:50	
PLOT DATE = 3/3/2011	

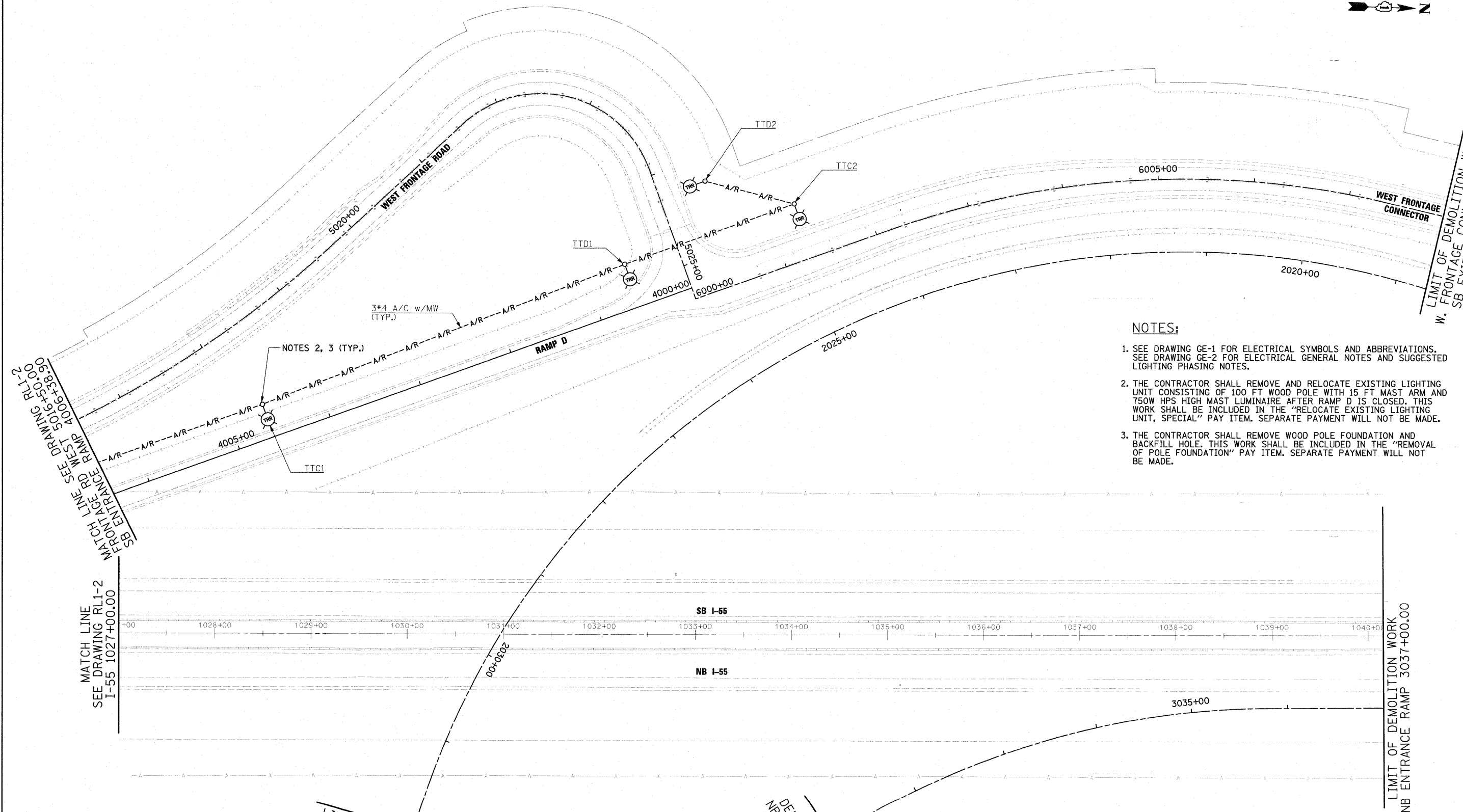
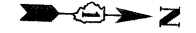
DESIGNED - JLW	REVISED -
DRAWN - CJM	REVISED -
CHECKED - KMY	REVISED -
DATE - 2/4/11	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-55 AT ARSENAL ROAD
PROPOSED ROADWAY LIGHTING PLAN-STAGE 1 DEMOLITION**

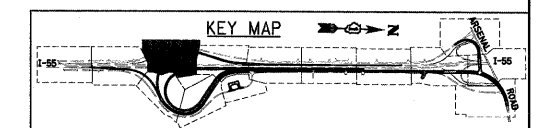
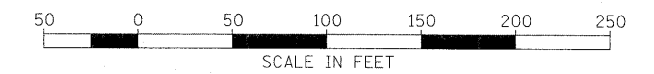
SCALE: 1" = 50' SHEET NO. 2 OF 10 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-2B-1	WILL	756	350
CONTRACT NO. 60F12				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NOTES:

1. SEE DRAWING GE-1 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS. SEE DRAWING GE-2 FOR ELECTRICAL GENERAL NOTES AND SUGGESTED LIGHTING PHASING NOTES.
2. THE CONTRACTOR SHALL REMOVE AND RELOCATE EXISTING LIGHTING UNIT CONSISTING OF 100 FT WOOD POLE WITH 15 FT MAST ARM AND 750W HPS HIGH MAST LUMINAIRE AFTER RAMP D IS CLOSED. THIS WORK SHALL BE INCLUDED IN THE "RELOCATE EXISTING LIGHTING UNIT, SPECIAL" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
3. THE CONTRACTOR SHALL REMOVE WOOD POLE FOUNDATION AND BACKFILL HOLE. THIS WORK SHALL BE INCLUDED IN THE "REMOVAL OF POLE FOUNDATION" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.



McDonough Associates Inc.
 Engineers / Architects
 130 East Randolph Street, Chicago, Illinois 60601

FILE NAME = D:\60F12-SHT-RL1-3.dgn	USER NAME = TKLuegel	DESIGNED - JLW	REVISED -
PLOT SCALE = 1:50	DRAWN - CJM	CHECKED - KMY	REVISED -
PLOT DATE = 3/3/2011	DATE = 2/4/11		REVISED -


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

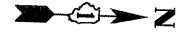
I-55 AT ARSENAL ROAD
PROPOSED ROADWAY LIGHTING PLAN-STAGE 1 DEMOLITION

SCALE: 1" = 50' SHEET NO. 3 OF 10 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-2B-1	WILL	756	351
CONTRACT NO. 60F12				

NOTES:

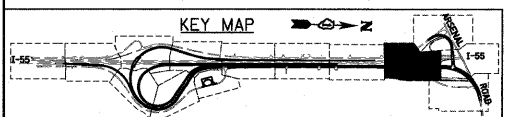
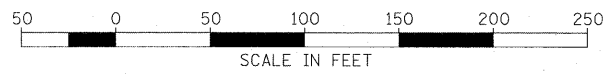
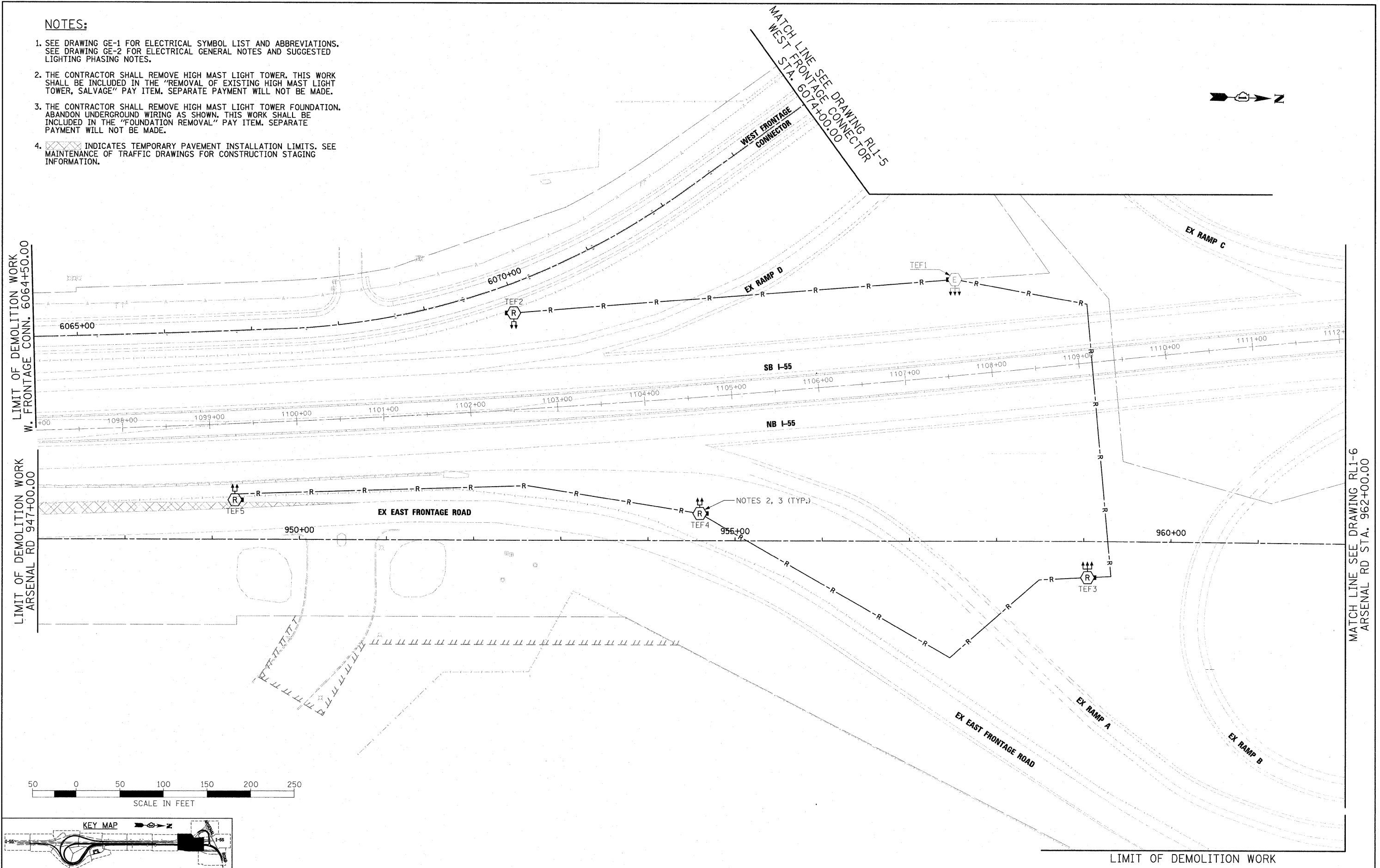
1. SEE DRAWING GE-1 FOR ELECTRICAL SYMBOL LIST AND ABBREVIATIONS. SEE DRAWING GE-2 FOR ELECTRICAL GENERAL NOTES AND SUGGESTED LIGHTING PHASING NOTES.
2. THE CONTRACTOR SHALL REMOVE HIGH MAST LIGHT TOWER. THIS WORK SHALL BE INCLUDED IN THE "REMOVAL OF EXISTING HIGH MAST LIGHT TOWER, SALVAGE" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
3. THE CONTRACTOR SHALL REMOVE HIGH MAST LIGHT TOWER FOUNDATION. ABANDON UNDERGROUND WIRING AS SHOWN. THIS WORK SHALL BE INCLUDED IN THE "FOUNDATION REMOVAL" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
4.  INDICATES TEMPORARY PAVEMENT INSTALLATION LIMITS. SEE MAINTENANCE OF TRAFFIC DRAWINGS FOR CONSTRUCTION STAGING INFORMATION.



LIMIT OF DEMOLITION WORK
W. FRONTAGE CONN. 6064+50.00

LIMIT OF DEMOLITION WORK
ARSENAL RD 947+00.00

MATCH LINE SEE DRAWING RL1-6
ARSENAL RD STA. 962+00.00



McDonough Associates Inc.
Engineers / Architects
130 East Randolph Street, Chicago, Illinois 60601

FILE NAME =
D:\62\F12-SHT-RL1-4.dgn

USER NAME = TK.uegel
DESIGNED - JLW
DRAWN - CJM
CHECKED - KMY
DATE - 2/4/11
PLOT SCALE = 1/8"=1'-0"
PLOT DATE = 3/3/2011

REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

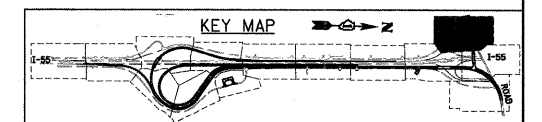
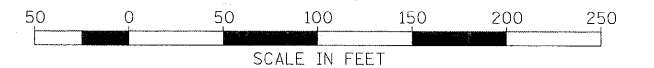
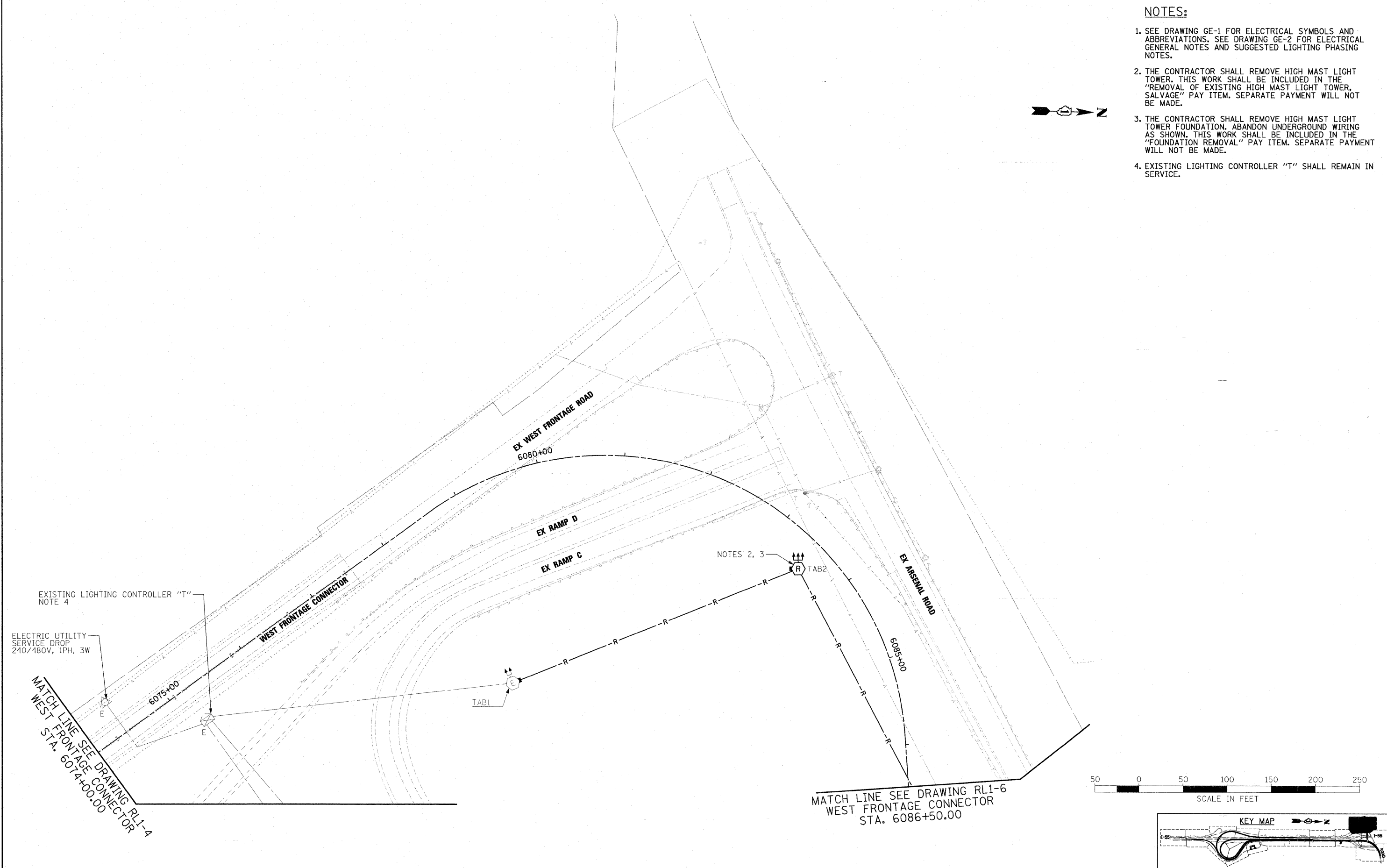
**I-55 AT ARSENAL ROAD
PROPOSED ROADWAY LIGHTING PLAN-STAGE 1 DEMOLITION**

SCALE: 1" = 50' SHEET NO. 4 OF 10 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-2B-1	WILL	756	352
CONTRACT NO. 60F12				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

NOTES:

1. SEE DRAWING GE-1 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS. SEE DRAWING GE-2 FOR ELECTRICAL GENERAL NOTES AND SUGGESTED LIGHTING PHASING NOTES.
2. THE CONTRACTOR SHALL REMOVE HIGH MAST LIGHT TOWER. THIS WORK SHALL BE INCLUDED IN THE "REMOVAL OF EXISTING HIGH MAST LIGHT TOWER, SALVAGE" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
3. THE CONTRACTOR SHALL REMOVE HIGH MAST LIGHT TOWER FOUNDATION. ABANDON UNDERGROUND WIRING AS SHOWN. THIS WORK SHALL BE INCLUDED IN THE "FOUNDATION REMOVAL" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
4. EXISTING LIGHTING CONTROLLER "T" SHALL REMAIN IN SERVICE.



EXISTING LIGHTING CONTROLLER "T"
NOTE 4

ELECTRIC UTILITY
SERVICE DROP
240/480V, 1PH, 3W

MATCH LINE SEE DRAWING RL1-4
WEST FRONTAGE CONNECTOR
STA. 6074+00.00

NOTES 2, 3
TAB2

TAB1

MATCH LINE SEE DRAWING RL1-6
WEST FRONTAGE CONNECTOR
STA. 6086+50.00

McDonough Associates Inc.
Engineers / Architects
130 East Randolph Street Chicago, Illinois 60601

FILE NAME = D:\60\F12-SHT-RL1-5.dgn	USER NAME = TKluegel	DESIGNED - JLW	REVISED -
		DRAWN - CJM	REVISED -
		CHECKED - KMY	REVISED -
		DATE - 2/4/11	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-55 AT ARSENAL ROAD
PROPOSED ROADWAY LIGHTING PLAN-STAGE 1 DEMOLITION**

SCALE: 1" = 50' SHEET NO. 5 OF 10 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-2B-1	WILL	756	353
CONTRACT NO. 60F12				

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

NOTES:

1. SEE DRAWING GE-1 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS. SEE DRAWING GE-2 FOR ELECTRICAL GENERAL NOTES AND SUGGESTED LIGHTING PHASING NOTES.
2. THE CONTRACTOR SHALL REMOVE HIGH MAST LIGHT TOWER. THIS WORK SHALL BE INCLUDED IN THE "REMOVAL OF EXISTING HIGH MAST LIGHT TOWER, SALVAGE" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
3. THE CONTRACTOR SHALL REMOVE HIGH MAST LIGHT TOWER FOUNDATION, ABANDON UNDERGROUND WIRING AS SHOWN. THIS WORK SHALL BE INCLUDED IN THE "FOUNDATION REMOVAL" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.



MATCH LINE SEE DRAWING RL1-5
WEST FRONTAGE CONNECTOR
STA. 6086+50.00

TAB3

NOTES 2, 3 (TYP.)

EX RAMP C

SB I-55

NB I-55

EX RAMP B

TCD1

TCD4

965+00

00+0609

EX ARSENAL ROAD

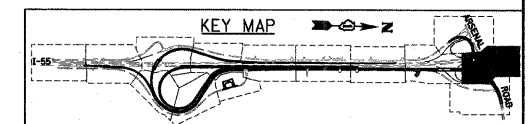
TCD3

TCD2

EX RAMP B

LIMIT OF DEMOLITION WORK
ARSENAL RD STA. 970+50.00

MATCH LINE SEE DRAWING RL1-4
ARSENAL RD STA. 962+00.00



McDonough Associates Inc.
Engineers / Architects
130 East Randolph Street Chicago, Illinois 60601

FILE NAME =	USER NAME = TKluegel
D160F12-SHT-RL1-6.dgn	
PLOT SCALE = 1:50	
PLOT DATE = 3/3/2011	

DESIGNED - JLW	REVISED -
DRAWN - CJM	REVISED -
CHECKED - KMY	REVISED -
DATE - 2/4/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	
---	--

I-55 AT ARSENAL ROAD PROPOSED ROADWAY LIGHTING PLAN-STAGE 1 DEMOLITION	
SCALE: 1" = 50'	SHEET NO. 6 OF 10 SHEETS
STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-2B-1	WILL	756	354
CONTRACT NO. 60F12				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

NOTES:

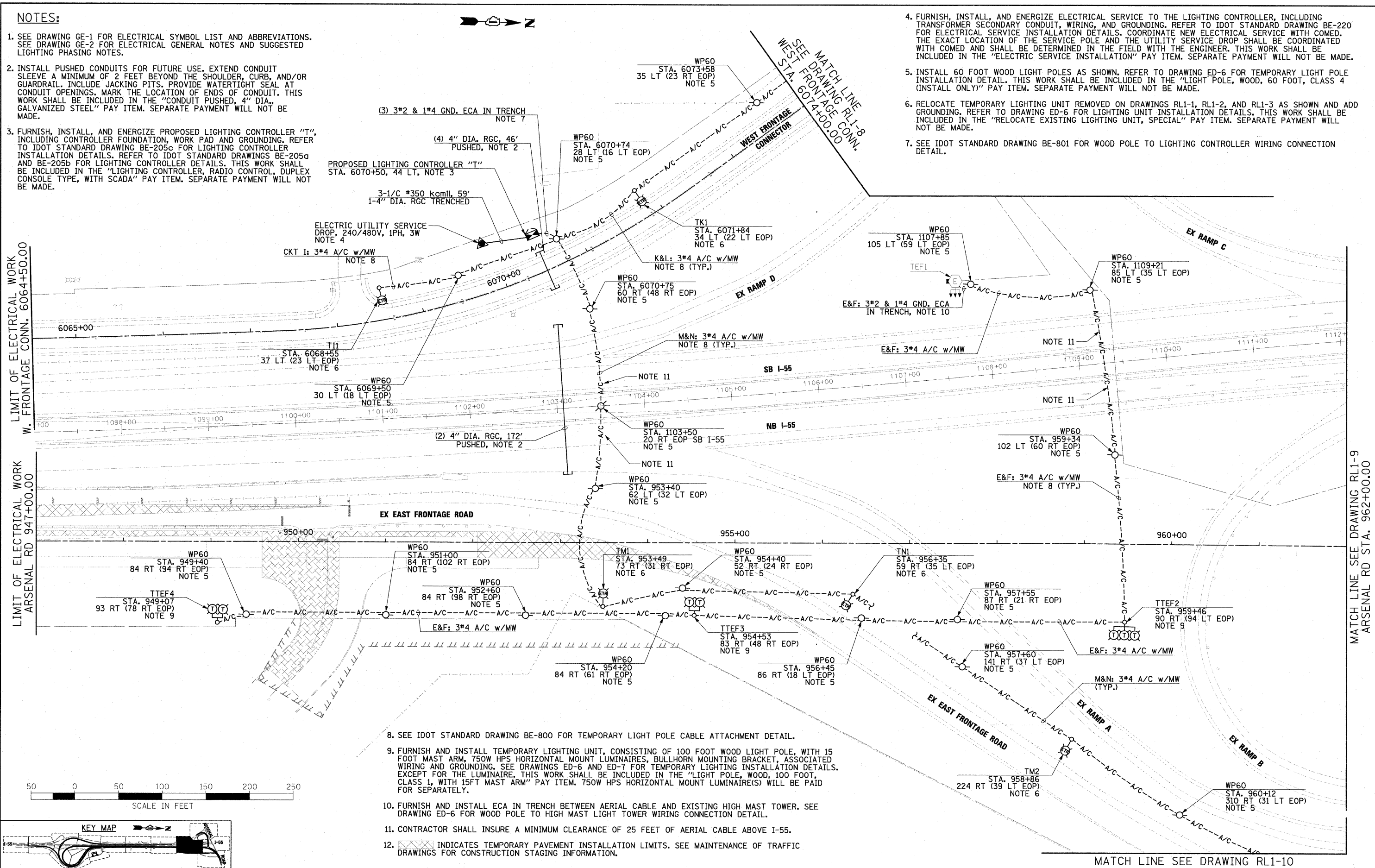
- SEE DRAWING GE-1 FOR ELECTRICAL SYMBOL LIST AND ABBREVIATIONS. SEE DRAWING GE-2 FOR ELECTRICAL GENERAL NOTES AND SUGGESTED LIGHTING PHASING NOTES.
- INSTALL PUSHED CONDUITS FOR FUTURE USE. EXTEND CONDUIT SLEEVE A MINIMUM OF 2 FEET BEYOND THE SHOULDER, CURB, AND/OR GUARDRAIL. INCLUDE JACKING PITS. PROVIDE WATERTIGHT SEAL AT CONDUIT OPENINGS. MARK THE LOCATION OF ENDS OF CONDUIT. THIS WORK SHALL BE INCLUDED IN THE "CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
- FURNISH, INSTALL, AND ENERGIZE PROPOSED LIGHTING CONTROLLER "T", INCLUDING CONTROLLER FOUNDATION, WORK PAD AND GROUNDING. REFER TO IDOT STANDARD DRAWING BE-205c FOR LIGHTING CONTROLLER INSTALLATION DETAILS. REFER TO IDOT STANDARD DRAWINGS BE-205a AND BE-205b FOR LIGHTING CONTROLLER DETAILS. THIS WORK SHALL BE INCLUDED IN THE "LIGHTING CONTROLLER, RADIO CONTROL, DUPLEX CONSOLE TYPE, WITH SCADA" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.

- FURNISH, INSTALL, AND ENERGIZE ELECTRICAL SERVICE TO THE LIGHTING CONTROLLER, INCLUDING TRANSFORMER SECONDARY CONDUIT, WIRING, AND GROUNDING. REFER TO IDOT STANDARD DRAWING BE-220 FOR ELECTRICAL SERVICE INSTALLATION DETAILS. COORDINATE NEW ELECTRICAL SERVICE WITH COMED. THE EXACT LOCATION OF THE SERVICE POLE AND THE UTILITY SERVICE DROP SHALL BE COORDINATED WITH COMED AND SHALL BE DETERMINED IN THE FIELD WITH THE ENGINEER. THIS WORK SHALL BE INCLUDED IN THE "ELECTRIC SERVICE INSTALLATION" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
- INSTALL 60 FOOT WOOD LIGHT POLES AS SHOWN. REFER TO DRAWING ED-6 FOR TEMPORARY LIGHT POLE INSTALLATION DETAIL. THIS WORK SHALL BE INCLUDED IN THE "LIGHT POLE, WOOD, 60 FOOT, CLASS 4 (INSTALL ONLY)" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
- RELOCATE TEMPORARY LIGHTING UNIT REMOVED ON DRAWINGS RL1-1, RL1-2, AND RL1-3 AS SHOWN AND ADD GROUNDING. REFER TO DRAWING ED-6 FOR LIGHTING UNIT INSTALLATION DETAILS. THIS WORK SHALL BE INCLUDED IN THE "RELOCATE EXISTING LIGHTING UNIT, SPECIAL" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
- SEE IDOT STANDARD DRAWING BE-801 FOR WOOD POLE TO LIGHTING CONTROLLER WIRING CONNECTION DETAIL.

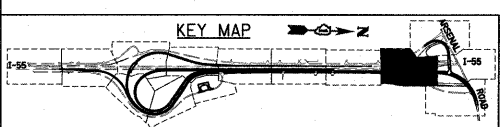
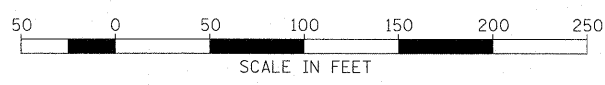
LIMIT OF ELECTRICAL WORK W. FRONTAGE CONN. 6064+50.00

LIMIT OF ELECTRICAL WORK ARSENAL RD 947+00.00

MATCH LINE SEE DRAWING RL1-9 ARSENAL RD STA. 962+00.00



- SEE IDOT STANDARD DRAWING BE-800 FOR TEMPORARY LIGHT POLE CABLE ATTACHMENT DETAIL.
- FURNISH AND INSTALL TEMPORARY LIGHTING UNIT, CONSISTING OF 100 FOOT WOOD LIGHT POLE, WITH 15 FOOT MAST ARM, 750W HPS HORIZONTAL MOUNT LUMINAIRES, BULLHORN MOUNTING BRACKET, ASSOCIATED WIRING AND GROUNDING. SEE DRAWINGS ED-6 AND ED-7 FOR TEMPORARY LIGHTING INSTALLATION DETAILS. EXCEPT FOR THE LUMINAIRE, THIS WORK SHALL BE INCLUDED IN THE "LIGHT POLE, WOOD, 100 FOOT, CLASS 1, WITH 15FT MAST ARM" PAY ITEM. 750W HPS HORIZONTAL MOUNT LUMINAIRE(S) WILL BE PAID FOR SEPARATELY.
- FURNISH AND INSTALL ECA IN TRENCH BETWEEN AERIAL CABLE AND EXISTING HIGH MAST TOWER. SEE DRAWING ED-6 FOR WOOD POLE TO HIGH MAST LIGHT TOWER WIRING CONNECTION DETAIL.
- CONTRACTOR SHALL INSURE A MINIMUM CLEARANCE OF 25 FEET OF AERIAL CABLE ABOVE I-55.
- INDICATES TEMPORARY PAVEMENT INSTALLATION LIMITS. SEE MAINTENANCE OF TRAFFIC DRAWINGS FOR CONSTRUCTION STAGING INFORMATION.

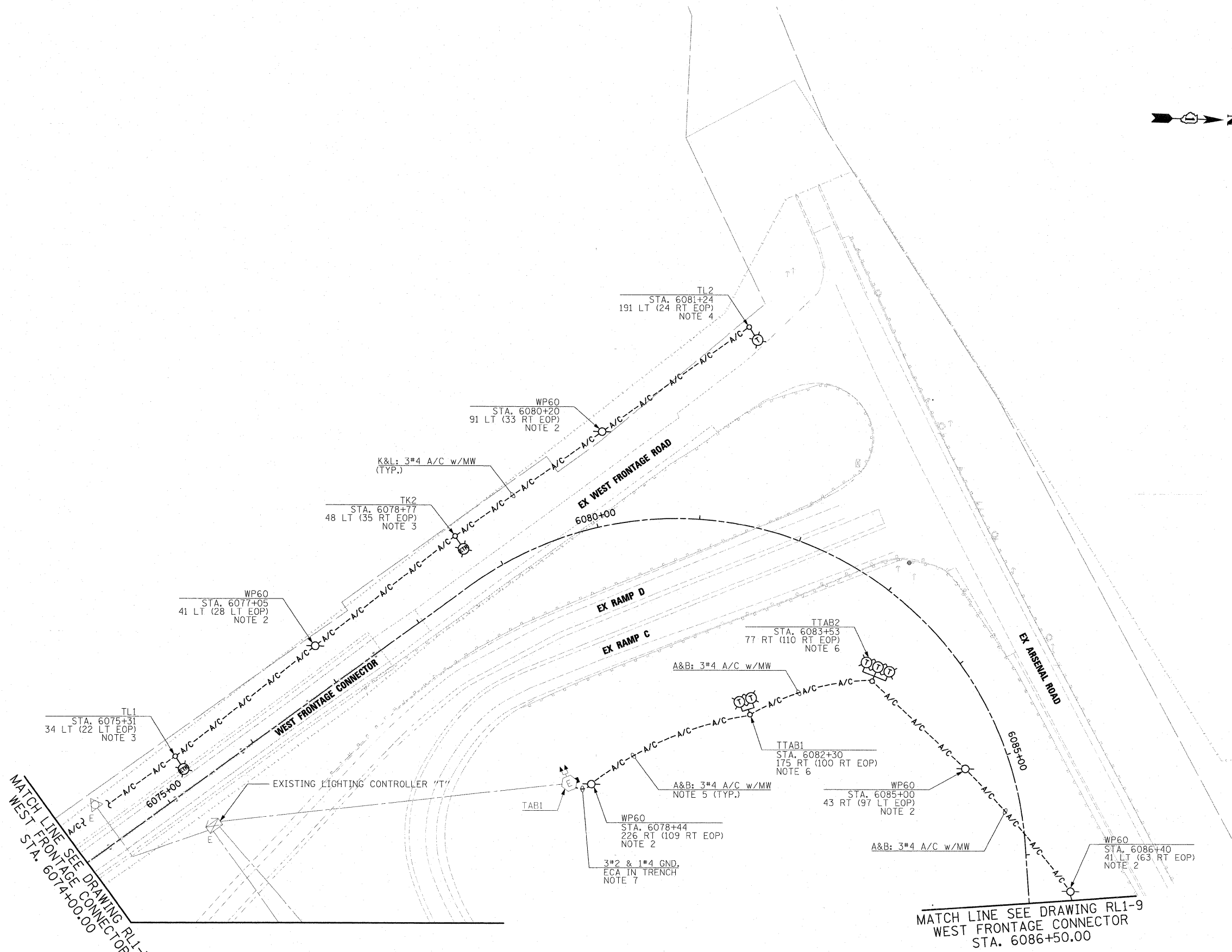


McDonough Associates Inc.
Engineers / Architects
130 East Randolph Street, Chicago, Illinois 60601

FILE NAME = D:\60F12-SHT-RL1-7.dgn	USER NAME = TK1uege1	DESIGNED - JLW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	I-55 AT ARSENAL ROAD PROPOSED ROADWAY LIGHTING PLAN-STAGE 1		F.A.I. RTE. 55	SECTION 99-2HB-2B-1	COUNTY WILL	TOTAL SHEETS 756	SHEET NO. 355	
PLOT SCALE = 1:50	CHECKED - KMY	DATE - 2/4/11	REVISED -		SCALE: 1" = 50'	SHEET NO. 7 OF 10 SHEETS	STA. TO STA.	CONTRACT NO. 60F12				
PLOT DATE = 3/3/2011			REVISED -		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							
					CONTRACT NO. 60F12							

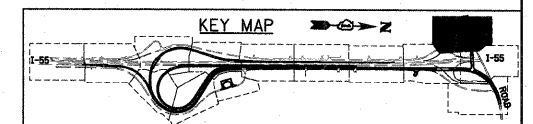
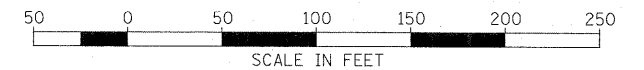
NOTES:

1. SEE DRAWING GE-1 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS. SEE DRAWING GE-2 FOR ELECTRICAL GENERAL NOTES AND SUGGESTED LIGHTING PHASING NOTES.
2. INSTALL 60 FOOT WOOD LIGHT POLES AS SHOWN. SEE DRAWING ED-6 FOR TEMPORARY LIGHT POLE INSTALLATION DETAIL. THIS WORK SHALL BE INCLUDED IN THE "LIGHT POLE, WOOD, 60 FOOT, CLASS 4 (INSTALL ONLY)" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
3. RELOCATE TEMPORARY LIGHTING UNIT REMOVED ON DRAWINGS RL1-1, RL1-2, AND RL1-3 AS SHOWN AND ADD GROUNDING. SEE DRAWING ED-6 FOR TEMPORARY LIGHT POLE INSTALLATION DETAILS. THIS WORK SHALL BE INCLUDED IN THE "RELOCATE EXISTING LIGHTING UNIT, SPECIAL" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
4. FURNISH AND INSTALL NEW TEMPORARY LIGHTING UNIT. SEE DRAWING ED-6 FOR TEMPORARY LIGHTING UNIT INSTALLATION DETAIL. THIS WORK SHALL BE INCLUDED IN THE "LIGHT POLE, WOOD, 100 FOOT, CLASS 1, WITH 15FT MAST ARM" PAY ITEM. 750W HPS HORIZONTAL MOUNT LUMINAIRE WILL BE PAID FOR SEPARATELY.
5. SEE IDOT STANDARD DRAWING BE-800 FOR TEMPORARY LIGHT POLE CABLE ATTACHMENT DETAIL.
6. FURNISH AND INSTALL TEMPORARY LIGHTING UNIT, CONSISTING OF 100 FOOT WOOD LIGHT POLE, WITH 15 FOOT MAST ARM, 750W HPS HORIZONTAL MOUNT LUMINAIRES, BULLHORN MOUNTING BRACKET, ASSOCIATED WIRING AND GROUNDING. SEE DRAWINGS ED-6 AND ED-7 FOR INSTALLATION DETAILS. THIS WORK SHALL BE INCLUDED IN THE "LIGHT POLE, WOOD, 100FT, CLASS 1 WITH 15FT MAST ARM" PAY ITEM. 750W HPS HORIZONTAL MOUNT LUMINAIRE(S) WILL BE PAID FOR SEPARATELY.
7. SEE DRAWING ED-6 FOR WOOD POLE TO HIGH MAST LIGHT TOWER WIRING CONNECTION DETAIL.



MATCH LINE SEE DRAWING RL1-7 WEST FRONTAGE CONNECTOR STA. 6074+00.00

MATCH LINE SEE DRAWING RL1-9 WEST FRONTAGE CONNECTOR STA. 6086+50.00



McDonough Associates Inc.
 Engineers / Architects
 130 East Randolph Street, Chicago, Illinois 60601

FILE NAME = D:\60F12-SHT-RL1-8.dgn

USER NAME = TKJuegel
 PLOT SCALE = 1:50
 PLOT DATE = 3/7/2011

DESIGNED - JLW
 DRAWN - CJM
 CHECKED - KMY
 DATE = 2/4/11

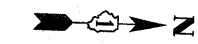
REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**I-55 AT ARSENAL ROAD
 PROPOSED ROADWAY LIGHTING PLAN-STAGE 1**

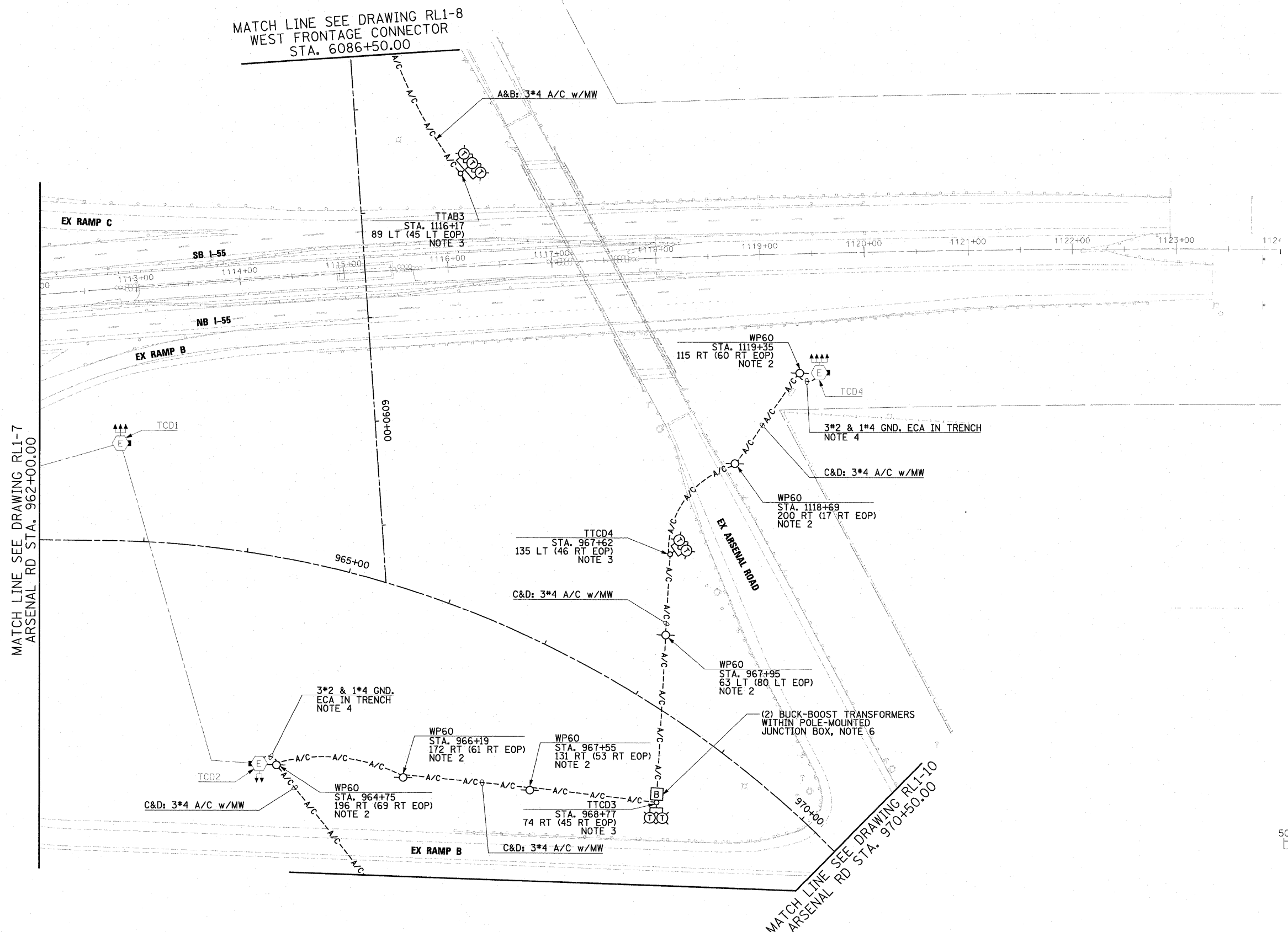
SCALE: 1" = 50' SHEET NO. 8 OF 10 SHEETS STA. TO STA.

F.A.T. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HD-2B-1	WILL	756	356
CONTRACT NO. 60F12				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NOTES:

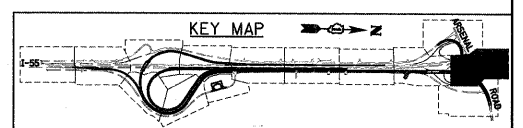
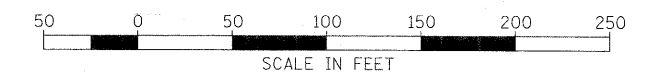
1. SEE DRAWING GE-1 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS. SEE DRAWING GE-2 FOR ELECTRICAL GENERAL NOTES AND SUGGESTED LIGHTING PHASING NOTES.
2. INSTALL 60 FOOT WOOD LIGHT POLES AS SHOWN. SEE DRAWING ED-6 FOR TEMPORARY LIGHT POLE INSTALLATION DETAIL. THIS WORK SHALL BE INCLUDED IN THE "LIGHT POLE, WOOD, 60 FOOT, CLASS 4 (INSTALL ONLY)" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
3. FURNISH AND INSTALL TEMPORARY LIGHTING UNIT, CONSISTING OF 100 FOOT WOOD LIGHT POLE, WITH 15 FOOT MAST ARM, 750W HPS HORIZONTAL MOUNT LUMINAIRES, BULLHORN MOUNTING BRACKET, ASSOCIATED WIRING AND GROUNDING. SEE DRAWINGS ED-6 AND ED-7 FOR TEMPORARY LIGHT POLE INSTALLATION DETAIL. THIS WORK SHALL BE INCLUDED IN THE "LIGHT POLE, WOOD, 100FT, CLASS 1 WITH 15FT MAST ARM" PAY ITEM. 750W HPS HORIZONTAL MOUNT LUMINAIRE(S) WILL BE PAID FOR SEPARATELY.
4. SEE DRAWING ED-6 FOR WOOD POLE TO HIGH MAST LIGHT TOWER WIRING CONNECTION DETAIL.
5. SEE IDOT STANDARD DRAWING BE-800 FOR TEMPORARY LIGHT POLE CABLE ATTACHMENT DETAIL.
6. BUCK-BOOST TRANSFORMERS TO BE INSTALLED AT THE DISCRETION OF THE ENGINEER. AFTER TEMPORARY LIGHTING UNITS TTCD3 AND TTCD4 ARE INSTALLED AND CONNECTED TO EXISTING HIGH MAST LIGHT TOWER TCD4, THE CONTRACTOR SHALL TEST THE CIRCUITS BEFORE THE BUCK-BOOST TRANSFORMERS ARE INSTALLED IN CASE COMED HAS PROVIDED VOLTAGE SIGNIFICANTLY HIGHER THAN EXPECTED AND THE BUCK-BOOST TRANSFORMER INSTALLATION CAN BE OMITTED. SHOULD THE ENGINEER DETERMINE THAT BUCK-BOOST TRANSFORMERS ARE REQUIRED, SEE DRAWING ED-5 FOR BUCK-BOOST TRANSFORMER INSTALLATION DETAILS. LUMINAIRES ON TEMPORARY LIGHTING UNIT TTCD3 SHALL BE WIRED BEFORE THE BUCK-BOOST TRANSFORMERS IN THE RESPECTIVE CIRCUITS. TESTING OF THE CIRCUITS TO DETERMINE IF BUCK-BOOST TRANSFORMERS ARE NECESSARY SHALL BE CONSIDERED INCIDENTAL TO THE COST OF RELATED CABLE PAY ITEM. IF BUCK-BOOST TRANSFORMERS ARE REQUIRED, THE BUCK-BOOST TRANSFORMER, OVERCURRENT PROTECTION DEVICES, ENCLOSURE, WIRING, AND ALL INCIDENTALS NECESSARY FOR A COMPLETE AND FUNCTIONAL INSTALLATION SHALL BE INCLUDED IN THE "BUCK-BOOST TRANSFORMER, 1.5 KVA, 240V PRIMARY, 24V SECONDARY" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.



MATCH LINE SEE DRAWING RL1-7 ARSENAL RD STA. 962+00.00

MATCH LINE SEE DRAWING RL1-8 WEST FRONTAGE CONNECTOR STA. 6086+50.00

MATCH LINE SEE DRAWING RL1-10 ARSENAL RD STA. 970+50.00



McDonough Associates Inc.
Engineers / Architects
130 East Randolph Street Chicago, Illinois 60601

FILE NAME = D:\60\F12-SHT-RL1-9.dgn	USER NAME = TKluagel	DESIGNED - JLW	REVISED -
PLOT SCALE = 1:50	CHECKED - KMY	DRAWN - CJM	REVISED -
PLOT DATE = 3/3/2011	DATE - 2/4/11	CHECKED - KMY	REVISED -

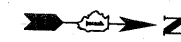
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-55 AT ARSENAL ROAD
PROPOSED ROADWAY LIGHTING PLAN-STAGE 1**

SCALE: 1" = 50' SHEET NO. 9 OF 10 SHEETS STA. TO STA.

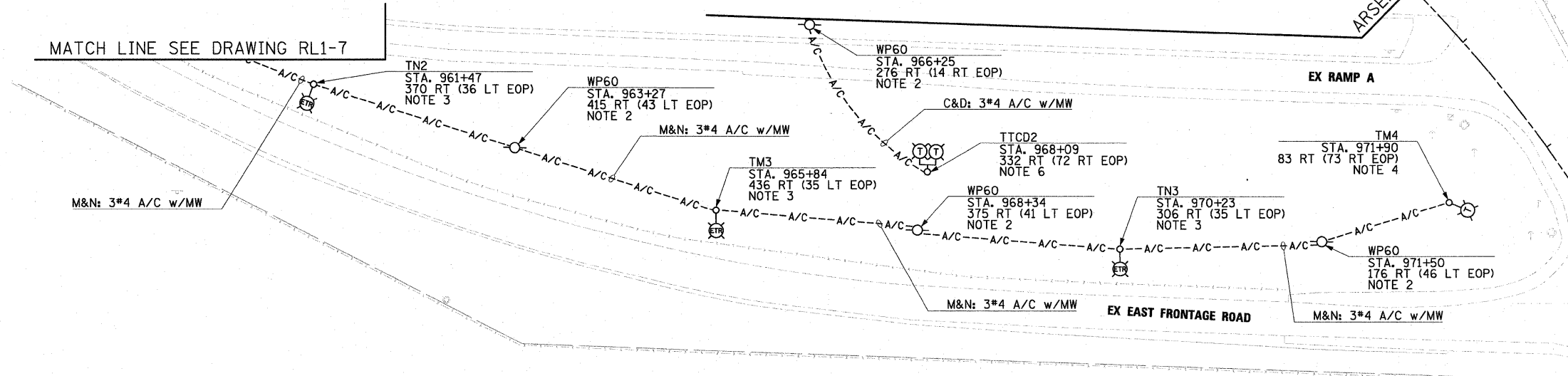
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-2B-1	WILL	756	357
CONTRACT NO. 60F12				

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT



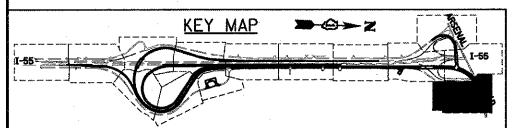
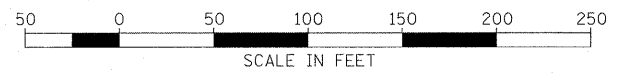
MATCH LINE
SEE DRAWING RL1-9
ARSENAL RD STA. 970+50.00

MATCH LINE SEE DRAWING RL1-7



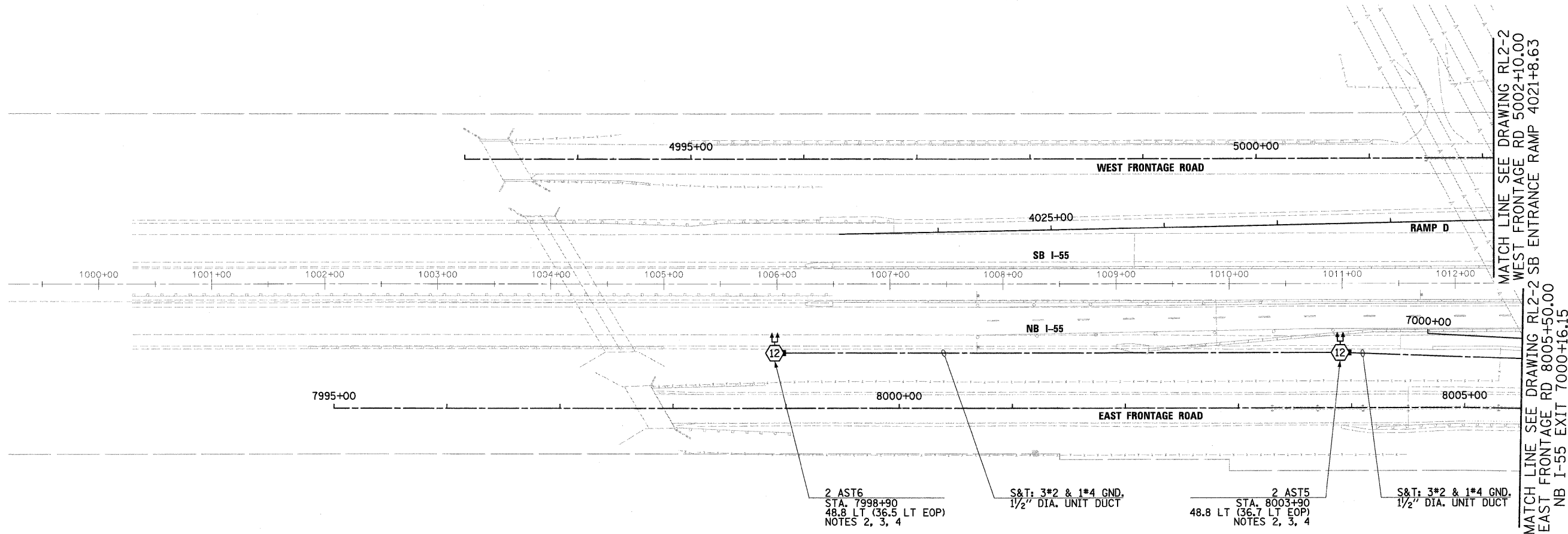
NOTES:

1. SEE DRAWING GE-1 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS. SEE DRAWING GE-2 FOR ELECTRICAL GENERAL NOTES AND SUGGESTED LIGHTING PHASING NOTES.
2. INSTALL 60 FOOT WOOD LIGHT POLES AS SHOWN. SEE DRAWING ED-6 FOR TEMPORARY LIGHT POLE INSTALLATION DETAIL. THIS WORK SHALL BE INCLUDED IN THE "LIGHT POLE, WOOD, 60 FOOT, CLASS 4 (INSTALL ONLY)" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
3. RELOCATE TEMPORARY LIGHTING UNIT REMOVED ON DRAWINGS RL1-1, RL1-2, AND RL1-3 AS SHOWN. SEE DRAWING ED-6 FOR TEMPORARY LIGHT POLE INSTALLATION DETAILS. THIS WORK SHALL BE INCLUDED IN THE "RELOCATE EXISTING LIGHTING UNIT, SPECIAL" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
4. FURNISH AND INSTALL NEW TEMPORARY LIGHTING UNIT. THIS WORK SHALL BE INCLUDED IN THE "LIGHT POLE, WOOD, 100 FOOT, CLASS 1, WITH 15FT MAST ARM" PAY ITEM. 750W HPS HORIZONTAL MOUNT LUMINAIRE(S) WILL BE PAID FOR SEPARATELY.
5. SEE IDOT STANDARD DRAWING BE-800 FOR TEMPORARY LIGHT POLE CABLE ATTACHMENT DETAIL.
6. FURNISH AND INSTALL TEMPORARY LIGHTING UNIT, CONSISTING OF 100 FOOT WOOD LIGHT POLE, WITH 15 FOOT MAST ARM, 750W HPS HORIZONTAL MOUNT LUMINAIRES, BULLHORN MOUNTING BRACKET, ASSOCIATED WIRING AND GROUNDING. SEE TO DRAWINGS ED-6 AND ED-7 FOR INSTALLATION DETAILS. THIS WORK SHALL BE INCLUDED IN THE "LIGHT POLE, WOOD, 100 FOOT, CLASS 1, WITH 15FT MAST ARM" PAY ITEM. 750W HORIZONTAL MOUNT LUMINAIRE(S) WILL BE PAID FOR SEPARATELY.



McDonough Associates Inc.
 Engineers / Architects
 130 East Randolph Street Chicago, Illinois 60601

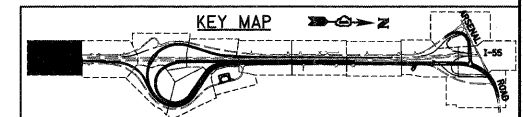
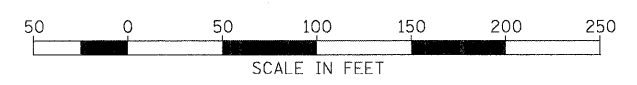
FILE NAME = D:\60F12-SHT-RL1-10.dgn	USER NAME = Tkluergl	DESIGNED - JLW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	I-55 AT ARSENAL ROAD PROPOSED ROADWAY LIGHTING PLAN-STAGE 1			F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
PLOT SCALE = 1:50	PLOT DATE = 3/3/2011	DRAWN - CJM	REVISED -		SCALE: 1" = 50'	SHEET NO. 10 OF 10 SHEETS	STA.	TO STA.	55	99-2HB-2B-1	WILL	756	358
		CHECKED - KMY	REVISED -						CONTRACT NO. 60F12				
		DATE - 2/4/11	REVISED -						FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



MATCH LINE SEE DRAWING RL2-2 WEST FRONTAGE RD 5002+10.00
 MATCH LINE SEE DRAWING RL2-2 SB ENTRANCE RAMP 4021+8.63
 MATCH LINE SEE DRAWING RL2-2 EAST FRONTAGE RD 8005+50.00
 MATCH LINE SEE DRAWING RL2-2 NB I-55 EXIT 7000+16.15

NOTES:

1. SEE DRAWING GE-1 FOR ELECTRICAL SYMBOL LIST AND ABBREVIATIONS. SEE DRAWING GE-2 FOR ELECTRICAL GENERAL NOTES AND SUGGESTED LIGHTING PHASING NOTES.
2. FURNISH AND INSTALL HIGH MAST LIGHT TOWER FOUNDATIONS SHOWN. INCLUDE GROUND WELLS, GROUND RODS, GROUND WIRE, ANCHOR BOLTS, AND LIGHT TOWER SERVICE PAD. SEE DRAWINGS S-2 THROUGH S-5, AND ED-9 FOR HIGH MAST LIGHT TOWER FOUNDATION DETAILS. EXCEPT FOR THE LIGHT TOWER SERVICE PAD, THIS WORK SHALL BE INCLUDED IN THE "LIGHT TOWER FOUNDATION, 54" DIAMETER" PAY ITEM.
3. SEE IDOT STANDARD DRAWINGS BE-505a, BE-505b, AND BE-505c FOR HIGH MAST LIGHT TOWER INSTALLATION DETAILS. THIS WORK SHALL BE INCLUDED IN "LIGHT TOWER, 120 FOOT MOUNTING HEIGHT, LUMINAIRE MT. - 12" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
4. SEE DRAWING ED-2 FOR CONDUIT INSTALLATION DETAILS FOR GROUND MOUNTED HIGH MAST LIGHT TOWERS.



McDonough Associates Inc.
 Engineers / Architects
 130 East Randolph Street Chicago, Illinois 60601

FILE NAME = D:\60F12-SHT-RL2-1.dgn	USER NAME = TK1uegl	DESIGNED - JLW	REVISED -
		DRAWN - CJM	REVISED -
		CHECKED - KMY	REVISED -
		DATE - 2/4/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-55 AT ARSENAL ROAD
PROPOSED ROADWAY LIGHTING PLAN-STAGE 2

SCALE: 1" = 50' SHEET NO. 1 OF 12 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-2B-1	WILL	756	359
CONTRACT NO. 60F12				
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				

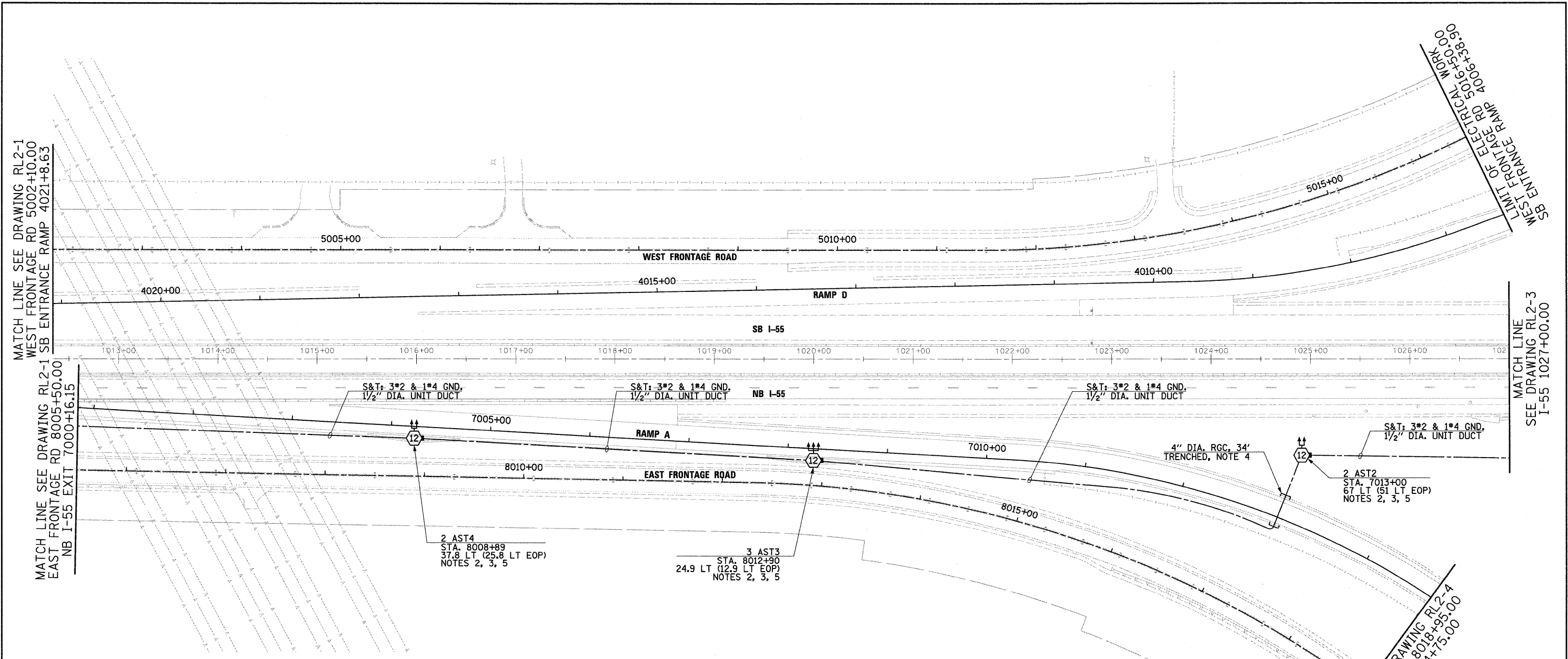
MATCH LINE SEE DRAWING RL2-1
WEST FRONTAGE RD 5002+10.00
SB ENTRANCE RAMP 4021+8.63

MATCH LINE SEE DRAWING RL2-1
EAST FRONTAGE RD 8005+50.00
NB I-55 EXIT 7000+16.15

MATCH LINE
SEE DRAWING RL2-3
I-55 1027+00.00

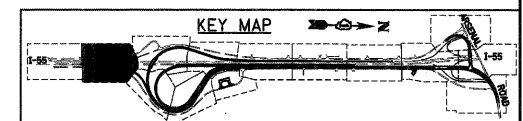
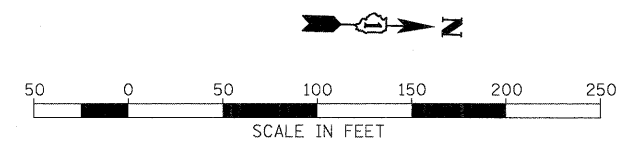
LIMIT OF ELECTRICAL WORK
SB ENTRANCE RAMP 4006+38.00
WEST FRONTAGE RD 5016+30.00

MATCH LINE SEE DRAWING RL2-4
EAST FRONTAGE RD 8018+95.00
NB I-55 EXIT 7014+75.00



NOTES:

- SEE DRAWING GE-1 FOR ELECTRICAL SYMBOL LIST AND ABBREVIATIONS. SEE DRAWING GE-2 FOR ELECTRICAL GENERAL NOTES AND SUGGESTED LIGHTING PHASING NOTES.
- FURNISH AND INSTALL HIGH MAST LIGHT TOWER FOUNDATIONS SHOWN. INCLUDE GROUND WELLS, GROUND RODS, GROUND WIRE, ANCHOR BOLTS, AND LIGHT TOWER SERVICE PAD. SEE DRAWINGS S-2 THROUGH S-5, AND ED-9 FOR HIGH MAST LIGHT TOWER FOUNDATION DETAILS. EXCEPT FOR THE LIGHT TOWER SERVICE PAD, THIS WORK SHALL BE INCLUDED IN THE "LIGHT TOWER FOUNDATION, 54" DIAMETER" PAY ITEM.
- SEE IDOT STANDARD DRAWINGS BE-505a, BE-505b, AND BE-505c FOR HIGH MAST LIGHT TOWER INSTALLATION DETAILS. THIS WORK SHALL BE INCLUDED IN "LIGHT TOWER, 120 FOOT MOUNTING HEIGHT, LUMINAIRE MT. - 12" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
- EXTEND CONDUIT SLEEVE A MINIMUM OF 2 FEET BEYOND THE SHOULDER.
- SEE DRAWING ED-2 FOR CONDUIT INSTALLATION DETAILS FOR GROUND MOUNTED HIGH MAST LIGHT TOWERS.



McDonough Associates Inc.
Engineers / Architects
130 East Randolph Street Chicago, Illinois 60601

FILE NAME =
D:\60F12-SHT-RL2-2.dgn

USER NAME = TKJ\uegal
PLOT SCALE = 1/8"=1'-0"
PLOT DATE = 2/3/2011

DESIGNED - JLW
DRAWN - CJM
CHECKED - KMY
DATE - 2/4/11

REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

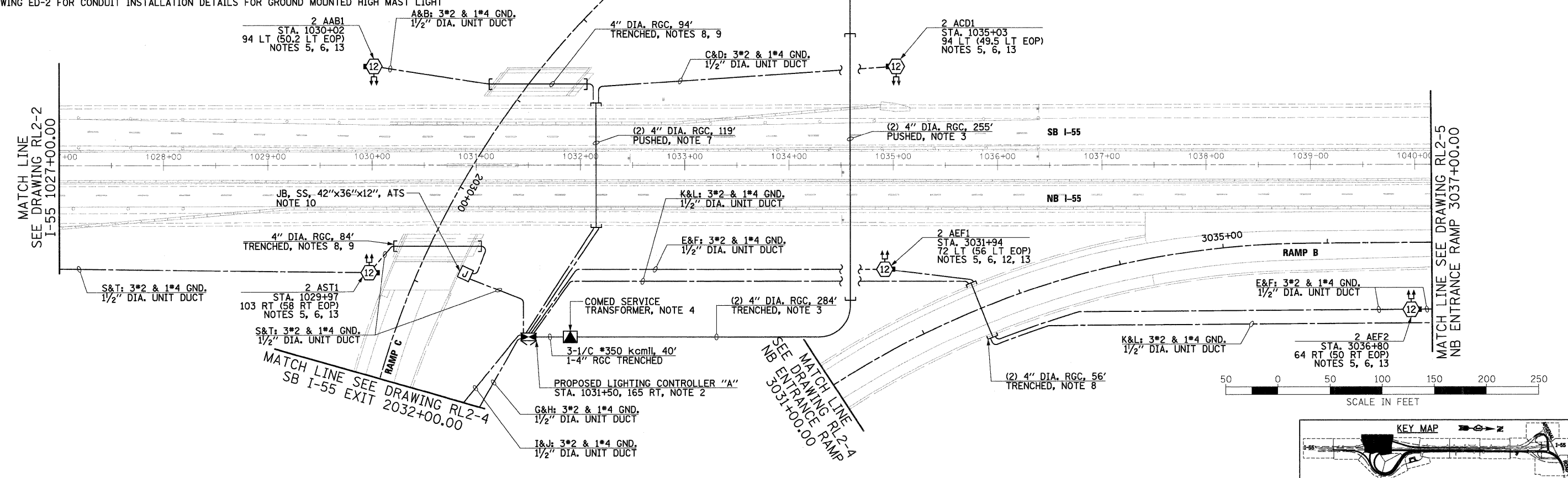
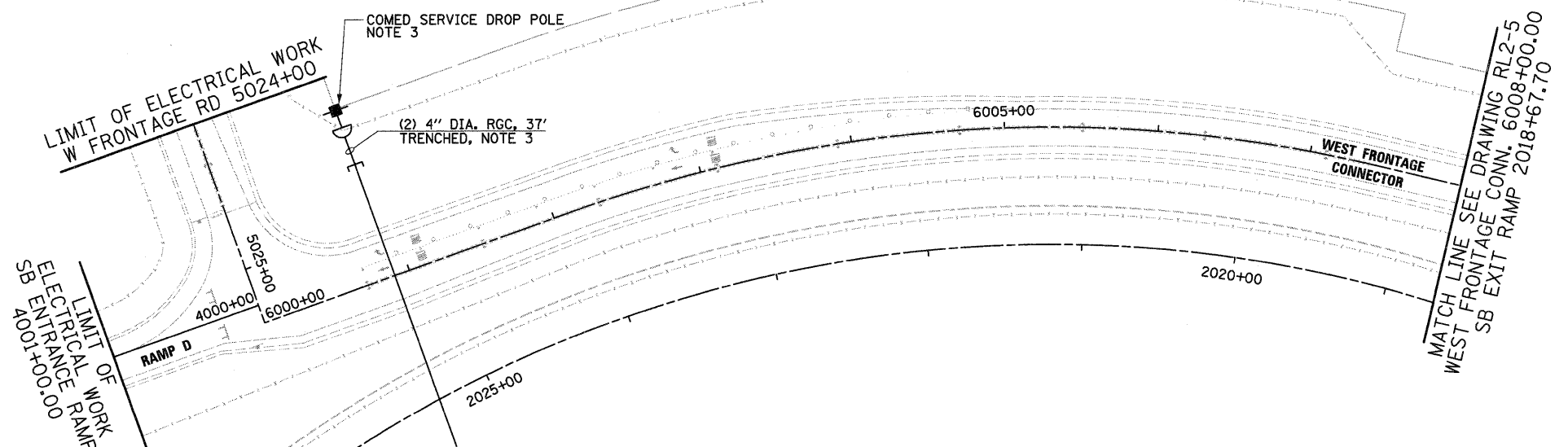
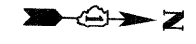
**I-55 AT ARSENAL ROAD
PROPOSED ROADWAY LIGHTING PLAN-STAGE 2**

SCALE: 1" = 50' SHEET NO. 2 OF 12 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-2B-1	WILL	756	360
CONTRACT NO. 60F12				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

NOTES:

- SEE DRAWING GE-1 FOR ELECTRICAL SYMBOL LIST AND ABBREVIATIONS. SEE DRAWING GE-2 FOR ELECTRICAL GENERAL NOTES AND SUGGESTED LIGHTING PHASING NOTES.
- FURNISH, INSTALL, AND ENERGIZE PROPOSED LIGHTING CONTROLLER "A", INCLUDING CONTROLLER FOUNDATION, WORK PAD AND GROUNDING. SEE IDOT STANDARD DRAWING BE-205c FOR LIGHTING CONTROLLER INSTALLATION DETAILS. SEE IDOT STANDARD DRAWINGS BE-205a AND BE-205b FOR LIGHTING CONTROLLER DETAILS. THIS WORK SHALL BE INCLUDED IN THE "LIGHTING CONTROLLER, RADIO CONTROL, DUPLEX CONSOLE TYPE, WITH SCADA" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
- FURNISH AND INSTALL TWO 4" PRIMARY CONDUIT RUNS BETWEEN THE COMED SERVICE DROP POLE AND THE COMED TRANSFORMER. THE CONDUIT RUN WILL HAVE BOTH TRENCHED AND PUSHED CONDUITS, INCLUDE TRENCHING, BACKFILLING, GROUNDING AT SERVICE DROP POLE, 4" RGC CONDUIT ON THE POLE, AND 4" NON-METALLIC RIGID CONDUIT ON THE POLE. THE EXACT LOCATION OF THE PRIMARY SERVICE DROP POLE SHALL BE DETERMINED BY COMED IN THE FIELD. SEE DRAWING ED-8 FOR ELECTRIC SERVICE INSTALLATION DETAILS, EXCEPT FOR THE PUSHED 4" RGC AND THE 4" RGC IN TRENCH, THIS WORK SHALL BE INCLUDED IN THE "ELECTRIC SERVICE INSTALLATION" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE. COMED WILL FURNISH, INSTALL, AND TERMINATE THE PRIMARY CABLE.
- PREPARE THE GROUND AND FURNISH AND INSTALL THE TRANSFORMER PAD AND ALL PRIMARY AND SECONDARY CONDUITS PER COMED STANDARD C5288 INSTALLATION REQUIREMENTS. INSTALL 1" CONDUITS AND TRENCH FOR GROUND WIRE. SEE DRAWING ED-8 FOR ELECTRIC SERVICE INSTALLATION DETAILS. THIS WORK SHALL BE INCLUDED IN THE "ELECTRIC SERVICE INSTALLATION" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE. COMED WILL FURNISH AND INSTALL THE TRANSFORMER AND WILL INSTALL THE TRANSFORMER GROUNDING.
- FURNISH AND INSTALL HIGH MAST LIGHT TOWER FOUNDATIONS SHOWN. INCLUDE GROUND WELLS, GROUND RODS, GROUND WIRE, ANCHOR BOLTS, AND LIGHT TOWER SERVICE PAD. SEE DRAWINGS S-2 THROUGH S-5, AND ED-9 FOR HIGH MAST LIGHT TOWER FOUNDATION DETAILS. EXCEPT FOR THE LIGHT TOWER SERVICE PAD, THIS WORK SHALL BE INCLUDED IN THE "LIGHT TOWER FOUNDATION, 54" DIAMETER" PAY ITEM. EXCAVATION IN ROCK SHALL BE INCLUDED IN THE "ROCK EXCAVATION FOR STRUCTURES" PAY ITEM.
- SEE IDOT STANDARD DRAWINGS BE-505a, BE-505b, AND BE-505c FOR HIGH MAST LIGHT TOWER INSTALLATION DETAILS. THIS WORK SHALL BE INCLUDED IN "LIGHT TOWER, 120 FOOT MOUNTING HEIGHT, LUMINAIRE MT. - 12" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
- FURNISH AND INSTALL PUSHED CONDUITS AS SHOWN. EXTEND CONDUIT SLEEVE A MINIMUM OF 2 FEET BEYOND THE SHOULDER.
- FURNISH AND INSTALL TRENCHED CONDUITS AS SHOWN. EXTEND CONDUIT SLEEVE A MINIMUM OF 2 FEET BEYOND THE SHOULDER.
- INSTALL TRENCHED CONDUITS UNDER RAMP C AT BRIDGE BEFORE SLOPED WALL IS CONSTRUCTED.
- FURNISH AND INSTALL BRIDGE JUNCTION BOX. SEE DRAWING ED-3 FOR INSTALLATION DETAILS. JUNCTION BOX CONTAINS 30A FUSES AND SOLID SLUG FOR NEUTRAL CONDUCTOR. SEE DRAWING UL-1 FOR TYPICAL UNDERPASS LIGHTING UNIT WIRING DIAGRAM. THIS WORK SHALL BE INCLUDED IN THE "JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 42" X 36" X 12" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
- SEE IDOT STANDARD DRAWING BE-702 FOR MISCELLANEOUS ELECTRICAL DETAILS.
- SEE TRAFFIC SYSTEMS CENTER (TSC) PLAN SHEET "NORTH ARSENAL RD. INTERCHANGE" FOR CCTV DOME CAMERA INSTALLATION DETAILS ON HIGH MAST TOWER.
- SEE DRAWING ED-2 FOR CONDUIT INSTALLATION DETAILS FOR GROUND MOUNTED HIGH MAST LIGHT TOWERS.



McDonough Associates Inc.
 Engineers / Architects
 430 East Randolph Street Chicago, Illinois 60601

FILE NAME = D:\6RF12-SHT-RL2-3.dgn	USER NAME = TKluegel	DESIGNED - JLW	REVISED -
PLOT SCALE = 1:500	CHECKED - KMY	DRAWN - CJM	REVISED -
PLOT DATE = 2/3/2011	DATE - 2/4/11		REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-55 AT ARSENAL ROAD
PROPOSED ROADWAY LIGHTING PLAN-STAGE 2

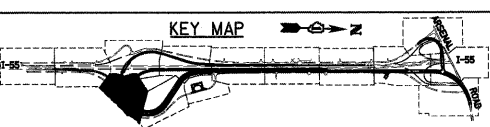
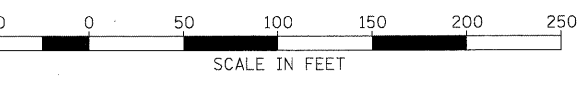
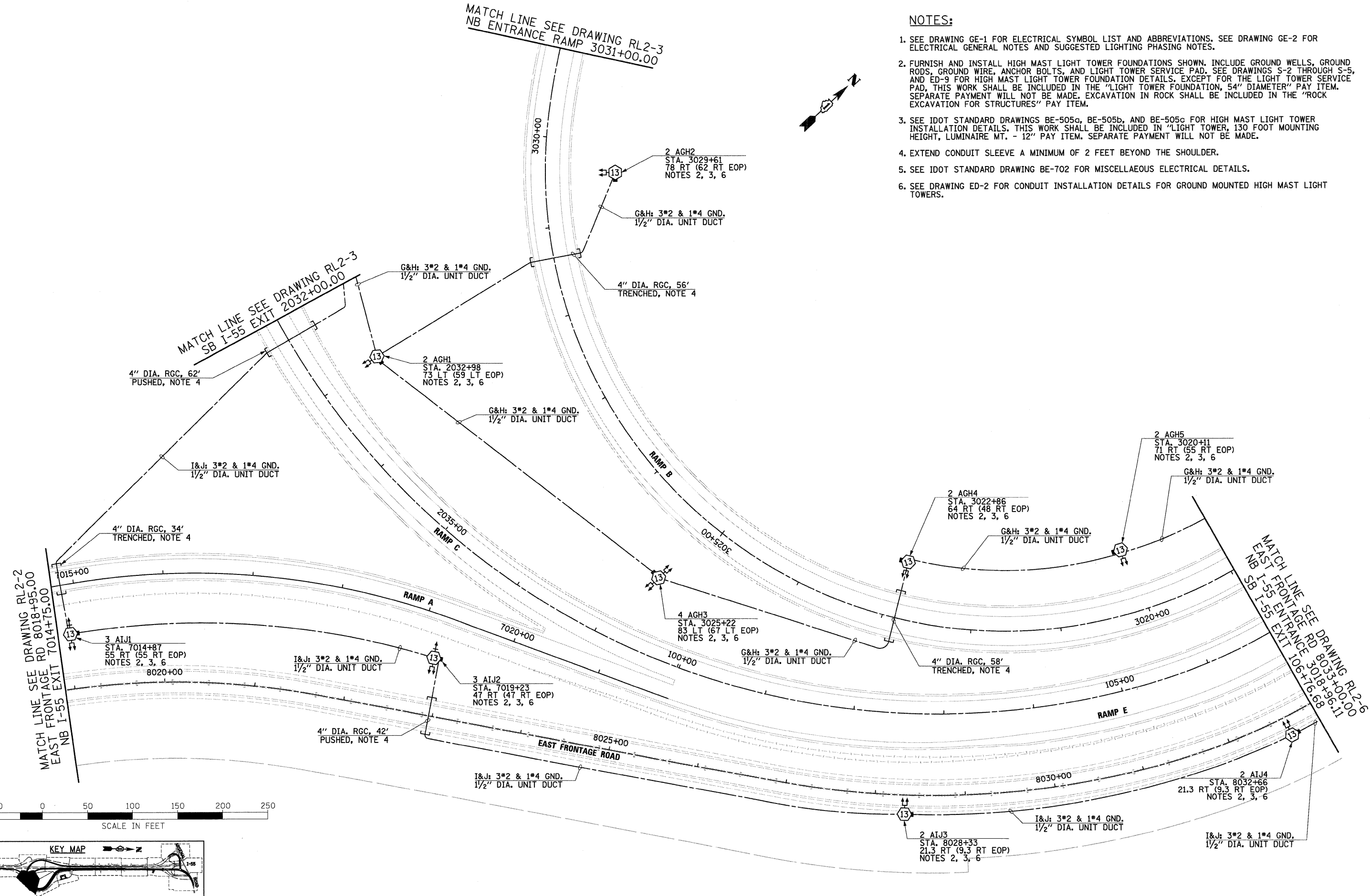
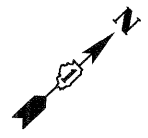
SCALE: 1" = 50' SHEET NO. 3 OF 12 SHEETS STA. TO STA.

F.A.I. RTE. 55	SECTION 99-2HB-2B-1	COUNTY WILL	TOTAL SHEETS 756	SHEET NO. 361
CONTRACT NO. 60F12				
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				

MATCH LINE SEE DRAWING RL2-3
NB ENTRANCE RAMP 3031+00.00

NOTES:

1. SEE DRAWING GE-1 FOR ELECTRICAL SYMBOL LIST AND ABBREVIATIONS. SEE DRAWING GE-2 FOR ELECTRICAL GENERAL NOTES AND SUGGESTED LIGHTING PHASING NOTES.
2. FURNISH AND INSTALL HIGH MAST LIGHT TOWER FOUNDATIONS SHOWN. INCLUDE GROUND WELLS, GROUND RODS, GROUND WIRE, ANCHOR BOLTS, AND LIGHT TOWER SERVICE PAD. SEE DRAWINGS S-2 THROUGH S-5, AND ED-9 FOR HIGH MAST LIGHT TOWER FOUNDATION DETAILS, EXCEPT FOR THE LIGHT TOWER SERVICE PAD, THIS WORK SHALL BE INCLUDED IN THE "LIGHT TOWER FOUNDATION, 54" DIAMETER" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE. EXCAVATION IN ROCK SHALL BE INCLUDED IN THE "ROCK EXCAVATION FOR STRUCTURES" PAY ITEM.
3. SEE IDOT STANDARD DRAWINGS BE-505a, BE-505b, AND BE-505c FOR HIGH MAST LIGHT TOWER INSTALLATION DETAILS. THIS WORK SHALL BE INCLUDED IN "LIGHT TOWER, 130 FOOT MOUNTING HEIGHT, LUMINAIRE MT. - 12" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
4. EXTEND CONDUIT SLEEVE A MINIMUM OF 2 FEET BEYOND THE SHOULDER.
5. SEE IDOT STANDARD DRAWING BE-702 FOR MISCELLANEOUS ELECTRICAL DETAILS.
6. SEE DRAWING ED-2 FOR CONDUIT INSTALLATION DETAILS FOR GROUND MOUNTED HIGH MAST LIGHT TOWERS.



McDonough Associates Inc.
Engineers / Architects
130 East Randolph Street, Chicago, Illinois 60601

FILE NAME = 0160F12-SHT-RL2-4.dgn	USER NAME = TKIuegal	DESIGNED - JLW	REVISED -
		DRAWN - CJM	REVISED -
	PLOT SCALE = 1:50	CHECKED - KMY	REVISED -
	PLOT DATE = 2/3/2011	DATE - 2/4/11	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-55 AT ARSENAL ROAD
PROPOSED ROADWAY LIGHTING PLAN-STAGE 2**

SCALE: 1" = 50' SHEET NO. 4 OF 12 SHEETS STA. TO STA.

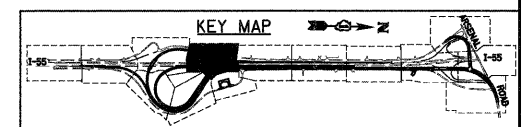
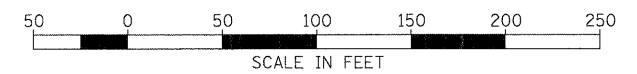
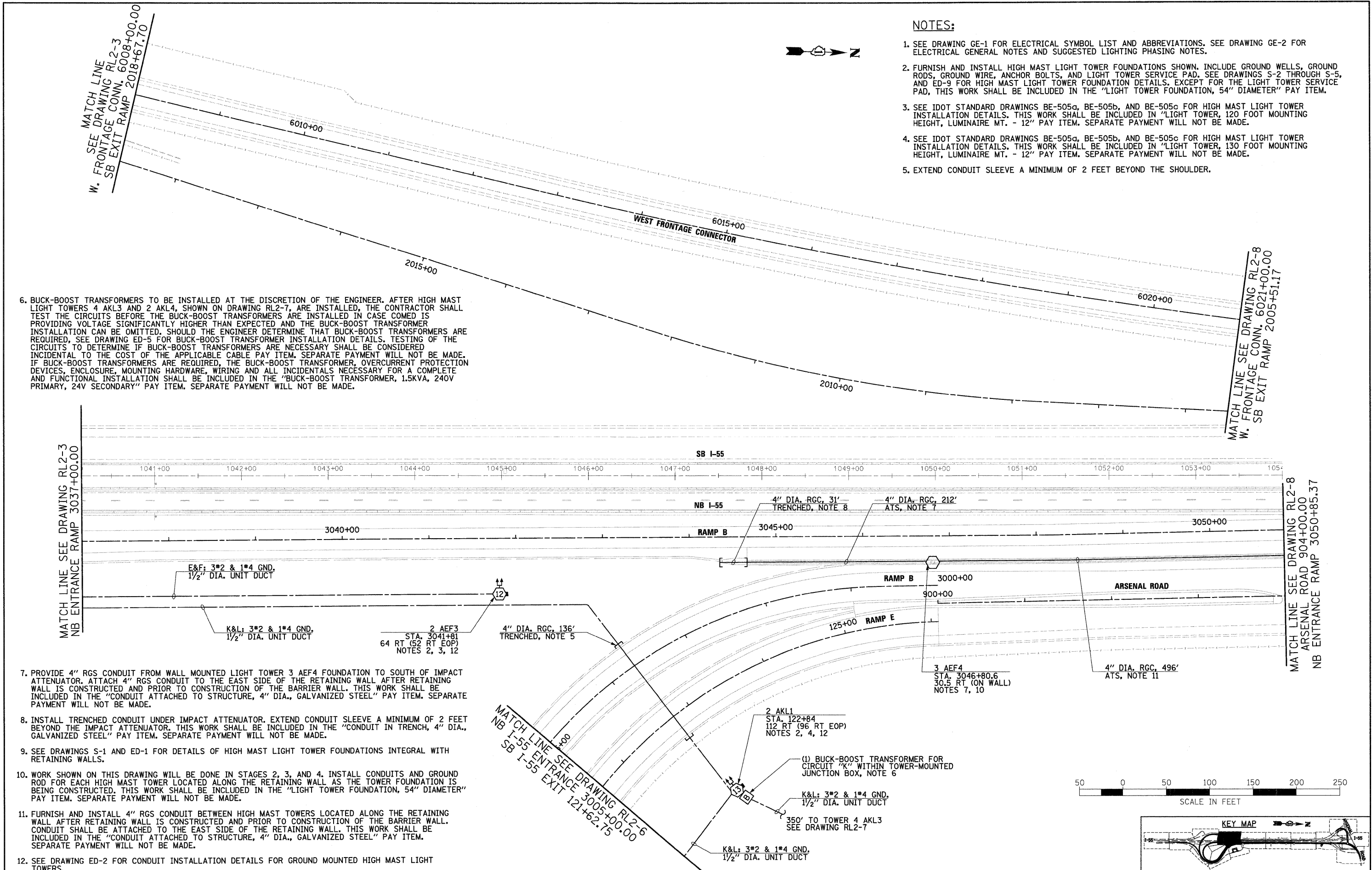
F.A.I. RTE. 55	SECTION 99-2HB-2B-1	COUNTY WILL	TOTAL SHEETS 756	SHEET NO. 362
CONTRACT NO. 60F12			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	

NOTES:

1. SEE DRAWING GE-1 FOR ELECTRICAL SYMBOL LIST AND ABBREVIATIONS. SEE DRAWING GE-2 FOR ELECTRICAL GENERAL NOTES AND SUGGESTED LIGHTING PHASING NOTES.
2. FURNISH AND INSTALL HIGH MAST LIGHT TOWER FOUNDATIONS SHOWN. INCLUDE GROUND WELLS, GROUND RODS, GROUND WIRE, ANCHOR BOLTS, AND LIGHT TOWER SERVICE PAD. SEE DRAWINGS S-2 THROUGH S-5, AND ED-9 FOR HIGH MAST LIGHT TOWER FOUNDATION DETAILS. EXCEPT FOR THE LIGHT TOWER SERVICE PAD, THIS WORK SHALL BE INCLUDED IN THE "LIGHT TOWER FOUNDATION, 54" DIAMETER" PAY ITEM.
3. SEE IDOT STANDARD DRAWINGS BE-505a, BE-505b, AND BE-505c FOR HIGH MAST LIGHT TOWER INSTALLATION DETAILS. THIS WORK SHALL BE INCLUDED IN "LIGHT TOWER, 120 FOOT MOUNTING HEIGHT, LUMINAIRE MT. - 12" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
4. SEE IDOT STANDARD DRAWINGS BE-505a, BE-505b, AND BE-505c FOR HIGH MAST LIGHT TOWER INSTALLATION DETAILS. THIS WORK SHALL BE INCLUDED IN "LIGHT TOWER, 130 FOOT MOUNTING HEIGHT, LUMINAIRE MT. - 12" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
5. EXTEND CONDUIT SLEEVE A MINIMUM OF 2 FEET BEYOND THE SHOULDER.

6. BUCK-BOOST TRANSFORMERS TO BE INSTALLED AT THE DISCRETION OF THE ENGINEER. AFTER HIGH MAST LIGHT TOWERS 4 AKL3 AND 2 AKL4, SHOWN ON DRAWING RL2-7, ARE INSTALLED, THE CONTRACTOR SHALL TEST THE CIRCUITS BEFORE THE BUCK-BOOST TRANSFORMERS ARE INSTALLED IN CASE COMED IS PROVIDING VOLTAGE SIGNIFICANTLY HIGHER THAN EXPECTED AND THE BUCK-BOOST TRANSFORMER INSTALLATION CAN BE OMITTED. SHOULD THE ENGINEER DETERMINE THAT BUCK-BOOST TRANSFORMERS ARE REQUIRED, SEE DRAWING ED-5 FOR BUCK-BOOST TRANSFORMER INSTALLATION DETAILS. TESTING OF THE CIRCUITS TO DETERMINE IF BUCK-BOOST TRANSFORMERS ARE NECESSARY SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE APPLICABLE CABLE PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE. IF BUCK-BOOST TRANSFORMERS ARE REQUIRED, THE BUCK-BOOST TRANSFORMER, OVERCURRENT PROTECTION DEVICES, ENCLOSURE, MOUNTING HARDWARE, WIRING AND ALL INCIDENTALS NECESSARY FOR A COMPLETE AND FUNCTIONAL INSTALLATION SHALL BE INCLUDED IN THE "BUCK-BOOST TRANSFORMER, 1.5KVA, 240V PRIMARY, 24V SECONDARY" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.

7. PROVIDE 4" RGS CONDUIT FROM WALL MOUNTED LIGHT TOWER 3 AEF4 FOUNDATION TO SOUTH OF IMPACT ATTENUATOR. ATTACH 4" RGS CONDUIT TO THE EAST SIDE OF THE RETAINING WALL AFTER RETAINING WALL IS CONSTRUCTED AND PRIOR TO CONSTRUCTION OF THE BARRIER WALL. THIS WORK SHALL BE INCLUDED IN THE "CONDUIT ATTACHED TO STRUCTURE, 4" DIA., GALVANIZED STEEL" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
8. INSTALL TRENCHED CONDUIT UNDER IMPACT ATTENUATOR. EXTEND CONDUIT SLEEVE A MINIMUM OF 2 FEET BEYOND THE IMPACT ATTENUATOR. THIS WORK SHALL BE INCLUDED IN THE "CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
9. SEE DRAWINGS S-1 AND ED-1 FOR DETAILS OF HIGH MAST LIGHT TOWER FOUNDATIONS INTEGRAL WITH RETAINING WALLS.
10. WORK SHOWN ON THIS DRAWING WILL BE DONE IN STAGES 2, 3, AND 4. INSTALL CONDUITS AND GROUND ROD FOR EACH HIGH MAST TOWER LOCATED ALONG THE RETAINING WALL AS THE TOWER FOUNDATION IS BEING CONSTRUCTED. THIS WORK SHALL BE INCLUDED IN THE "LIGHT TOWER FOUNDATION, 54" DIAMETER" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
11. FURNISH AND INSTALL 4" RGS CONDUIT BETWEEN HIGH MAST TOWERS LOCATED ALONG THE RETAINING WALL AFTER RETAINING WALL IS CONSTRUCTED AND PRIOR TO CONSTRUCTION OF THE BARRIER WALL. CONDUIT SHALL BE ATTACHED TO THE EAST SIDE OF THE RETAINING WALL. THIS WORK SHALL BE INCLUDED IN THE "CONDUIT ATTACHED TO STRUCTURE, 4" DIA., GALVANIZED STEEL" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
12. SEE DRAWING ED-2 FOR CONDUIT INSTALLATION DETAILS FOR GROUND MOUNTED HIGH MAST LIGHT TOWERS.



McDonough Associates Inc.
 Engineers / Architects
 130 East Randolph Street Chicago, Illinois 60601

FILE NAME = D168F12-SHT-RL2-5.dgn	USER NAME = TKluegel	DESIGNED - JLW	REVISED -
PLOT SCALE = 1:500	CHECKED - KMY	DRAWN - CJM	REVISED -
PLOT DATE = 2/3/2011	DATE - 2/4/11		REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

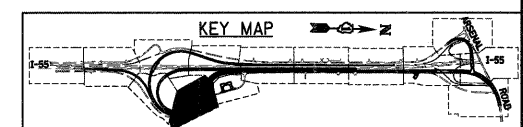
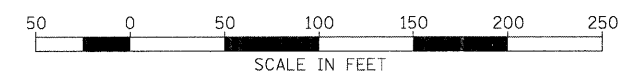
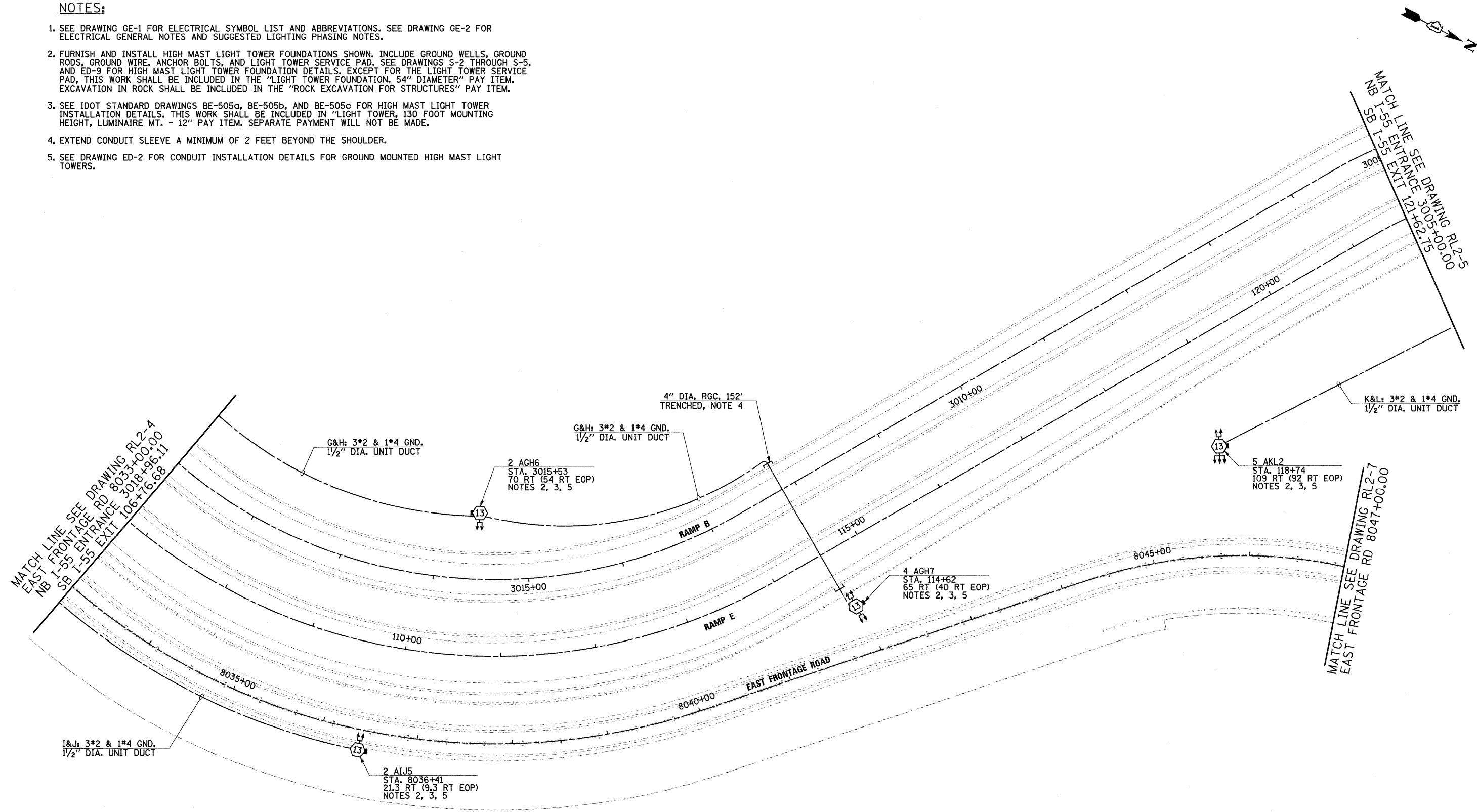
I-55 AT ARSENAL ROAD
PROPOSED ROADWAY LIGHTING PLAN-STAGE 2

SCALE: 1" = 50' SHEET NO. 5 OF 12 SHEETS STA. TO STA.

F.A.I. RTE. 55	SECTION 99-2HB-2B-1	COUNTY WILL	TOTAL SHEETS 756	SHEET NO. 363
CONTRACT NO. 60F12				
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				

NOTES:

1. SEE DRAWING GE-1 FOR ELECTRICAL SYMBOL LIST AND ABBREVIATIONS. SEE DRAWING GE-2 FOR ELECTRICAL GENERAL NOTES AND SUGGESTED LIGHTING PHASING NOTES.
2. FURNISH AND INSTALL HIGH MAST LIGHT TOWER FOUNDATIONS SHOWN. INCLUDE GROUND WELLS, GROUND RODS, GROUND WIRE, ANCHOR BOLTS, AND LIGHT TOWER SERVICE PAD. SEE DRAWINGS S-2 THROUGH S-5, AND ED-9 FOR HIGH MAST LIGHT TOWER FOUNDATION DETAILS. EXCEPT FOR THE LIGHT TOWER SERVICE PAD, THIS WORK SHALL BE INCLUDED IN THE "LIGHT TOWER FOUNDATION, 54" DIAMETER" PAY ITEM. EXCAVATION IN ROCK SHALL BE INCLUDED IN THE "ROCK EXCAVATION FOR STRUCTURES" PAY ITEM.
3. SEE IDOT STANDARD DRAWINGS BE-505a, BE-505b, AND BE-505c FOR HIGH MAST LIGHT TOWER INSTALLATION DETAILS. THIS WORK SHALL BE INCLUDED IN "LIGHT TOWER, 130 FOOT MOUNTING HEIGHT, LUMINAIRE MT. - 12" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
4. EXTEND CONDUIT SLEEVE A MINIMUM OF 2 FEET BEYOND THE SHOULDER.
5. SEE DRAWING ED-2 FOR CONDUIT INSTALLATION DETAILS FOR GROUND MOUNTED HIGH MAST LIGHT TOWERS.



McDonough Associates Inc.
 Engineers / Architects
 130 East Randolph Street Chicago, Illinois 60601

FILE NAME = D162F12-SHT-RL2-6.dgn	USER NAME = TK1uege1	DESIGNED - JLW	REVISED -
PLOT SCALE = 1/8"=1'	CHECKED - KMY	DRAWN - CJM	REVISED -
PLOT DATE = 2/3/2011	DATE - 2/4/11		REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

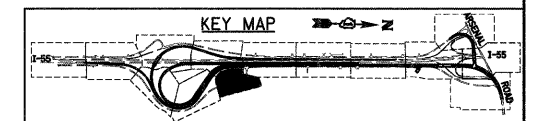
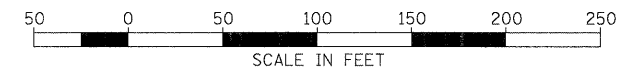
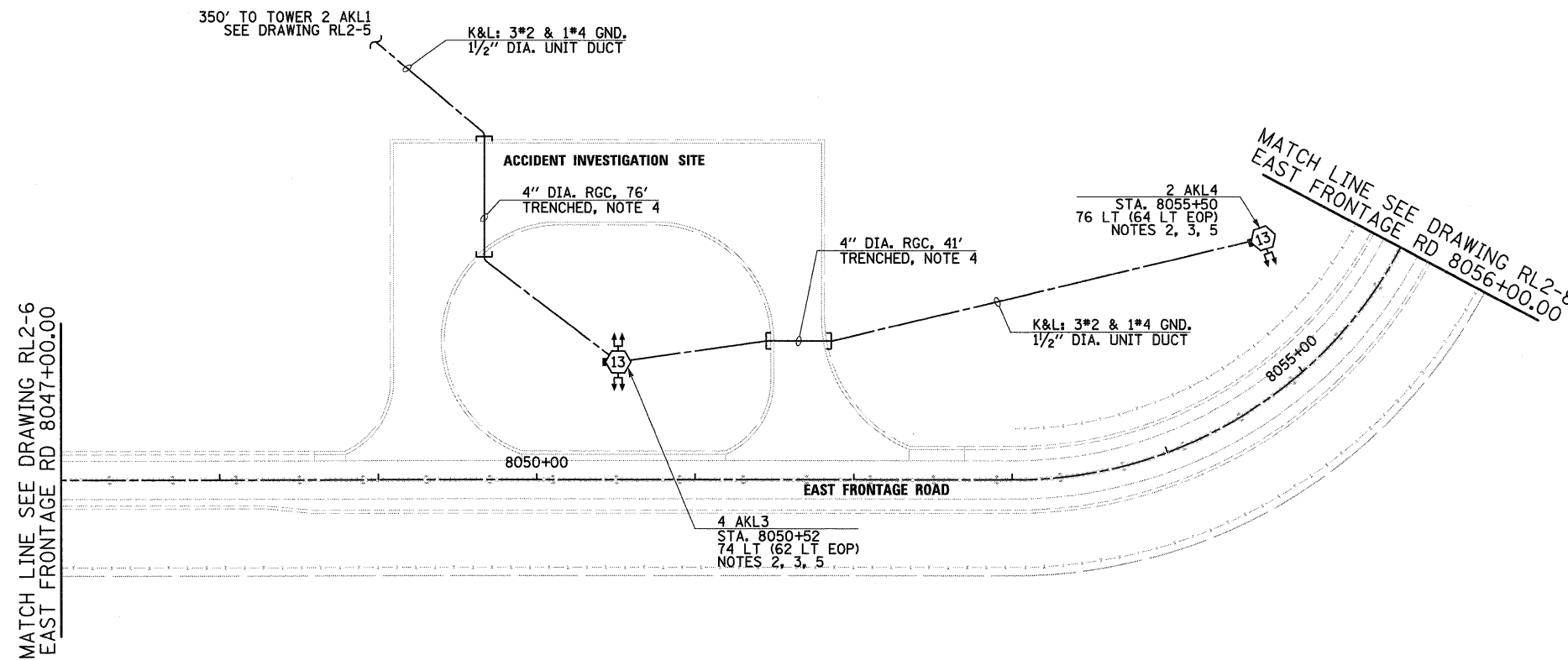
I-55 AT ARSENAL ROAD
PROPOSED ROADWAY LIGHTING PLAN-STAGE 2

SCALE: 1" = 50' SHEET NO. 6 OF 12 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-2B-1	WILL	756	364
CONTRACT NO. 60F12				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

NOTES:

1. SEE DRAWING GE-1 FOR ELECTRICAL SYMBOL LIST AND ABBREVIATIONS. SEE DRAWING GE-2 FOR ELECTRICAL GENERAL NOTES AND SUGGESTED LIGHTING PHASING NOTES.
2. FURNISH AND INSTALL HIGH MAST LIGHT TOWER FOUNDATIONS SHOWN. INCLUDE GROUND WELLS, GROUND RODS, GROUND WIRE, ANCHOR BOLTS, AND LIGHT TOWER SERVICE PAD. SEE DRAWINGS S-2 THROUGH S-5, AND ED-9 FOR HIGH MAST LIGHT TOWER FOUNDATION DETAILS. EXCEPT FOR THE LIGHT TOWER SERVICE PAD, THIS WORK SHALL BE INCLUDED IN THE "LIGHT TOWER FOUNDATION, 54" DIAMETER" PAY ITEM. EXCAVATION IN ROCK SHALL BE INCLUDED IN THE "ROCK EXCAVATION FOR STRUCTURES" PAY ITEM.
3. SEE IDOT STANDARD DRAWINGS BE-505a, BE-505b, AND BE-505c FOR HIGH MAST LIGHT TOWER INSTALLATION DETAILS. THIS WORK SHALL BE INCLUDED IN "LIGHT TOWER, 130 FOOT MOUNTING HEIGHT, LUMINAIRE MT. - 12" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
4. EXTEND CONDUIT SLEEVE A MINIMUM OF 2 FEET BEYOND THE SHOULDER.
5. SEE DRAWING ED-2 FOR CONDUIT INSTALLATION DETAILS FOR GROUND MOUNTED HIGH MAST LIGHT TOWERS.



FILE NAME = D:\160F12-SHT-RL2-7.dgn	USER NAME = TKIuegal	DESIGNED - JLW	REVISED -
		DRAWN - CJM	REVISED -
		CHECKED - KMY	REVISED -
		DATE - 2/4/11	REVISED -

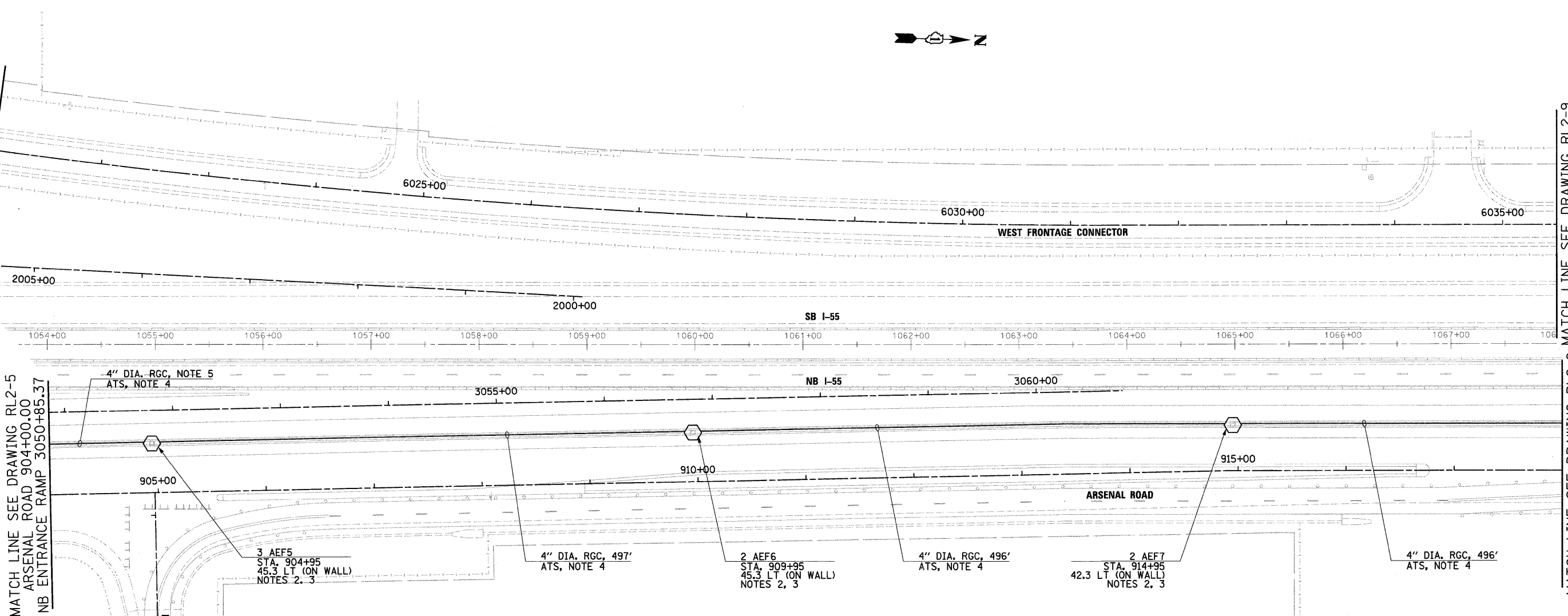
F.A.I. RTE. 55	SECTION 99-2HB-2B-1	COUNTY WILL	TOTAL SHEETS 756	SHEET NO. 365
CONTRACT NO. 60F12				
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				



MATCH LINE SEE DRAWING RL2-5
W. FRONTAGE CONN. 6021+00.00
SB EXIT RAMP 2005+51.17

MATCH LINE SEE DRAWING RL2-9
WEST FRONTAGE
CONNECTOR 6035+50.00

MATCH LINE SEE DRAWING RL2-9
ARSENAL RD 918+00.00

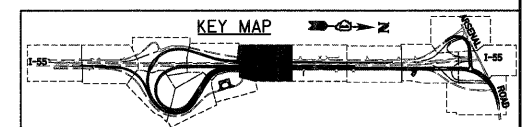
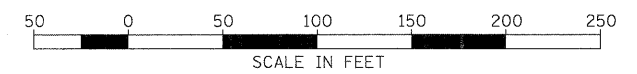


MATCH LINE SEE DRAWING RL2-5
ARSENAL ROAD 904+00.00
NB ENTRANCE RAMP 3050+85.37

MATCH LINE SEE DRAWING RL2-7
EAST FRONTAGE RD 8056+00.00

NOTES:

1. SEE DRAWING GE-1 FOR ELECTRICAL SYMBOL LIST AND ABBREVIATIONS. SEE DRAWING GE-2 FOR ELECTRICAL GENERAL NOTES AND SUGGESTED LIGHTING PHASING NOTES.
2. WORK SHOWN ON THIS DRAWING WILL BE DONE IN STAGES 2, 3, AND 4. INSTALL CONDUITS AND GROUND ROD FOR EACH HIGH MAST TOWER LOCATED ALONG THE RETAINING WALL AS THE TOWER FOUNDATION IS BEING CONSTRUCTED. THIS WORK SHALL BE INCLUDED IN THE "LIGHT TOWER FOUNDATION, 54\" DIA." PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
3. SEE DRAWINGS S-1 AND ED-1 FOR HIGH MAST LIGHT TOWER FOUNDATIONS INTEGRAL WITH RETAINING WALL DETAILS.
4. PROVIDE 4\" RGS CONDUIT BETWEEN HIGH MAST TOWERS LOCATED ALONG THE RETAINING WALL AFTER RETAINING WALL IS CONSTRUCTED AND PRIOR TO CONSTRUCTION OF THE BARRIER WALL. CONDUIT SHALL BE ATTACHED TO THE EAST SIDE OF THE RETAINING WALL. PROVIDE WATERTIGHT SEAL AT CONDUIT OPENINGS. THIS WORK SHALL BE INCLUDED IN THE "CONDUIT ATTACHED TO STRUCTURE, 4\" DIA., GALVANIZED STEEL" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
5. LENGTH NOT SHOWN. SEE DRAWING RL2-5 FOR RUN LENGTH.



McDonough Associates Inc.
Engineers / Architects
130 East Randolph Street Chicago, Illinois 60601

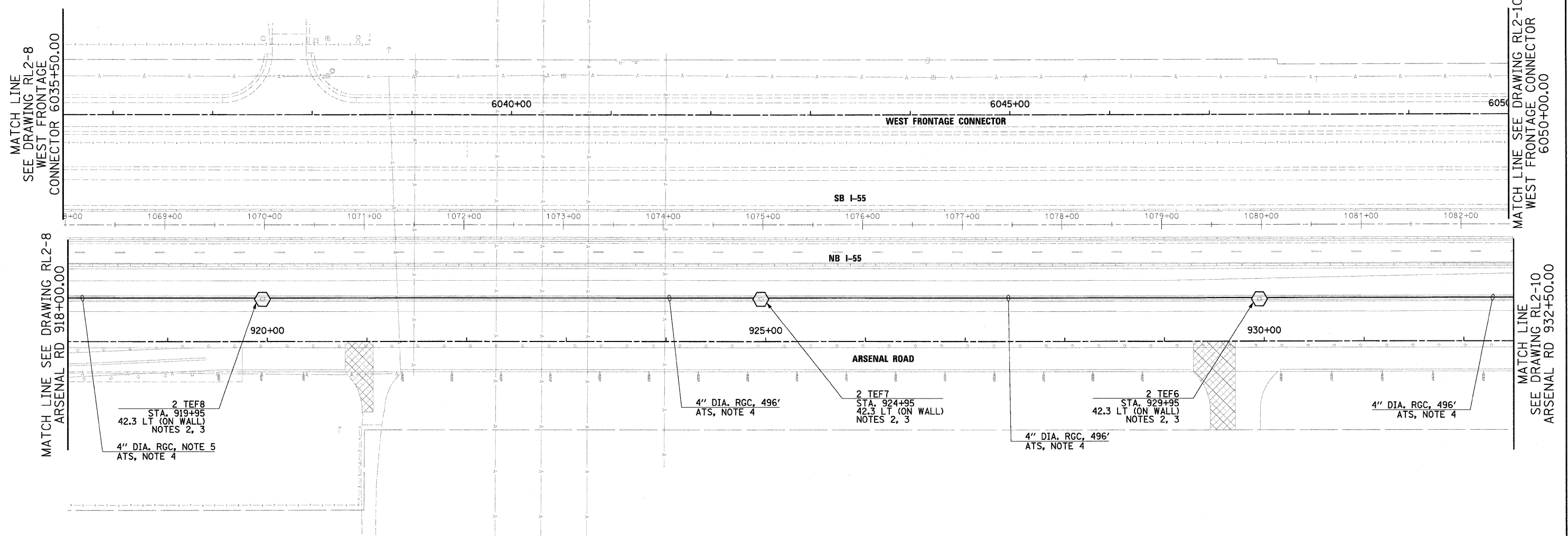
FILE NAME = D:\62\F12-SHT-RL2-8.dgn	USER NAME = TK\uegal	DESIGNED - JLW	REVISED -
		DRAWN - CJM	REVISED -
	PLOT SCALE = 1:500	CHECKED - KMY	REVISED -
	PLOT DATE = 2/3/2011	DATE - 2/4/11	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-55 AT ARSENAL ROAD
PROPOSED ROADWAY LIGHTING PLAN-STAGE 2**

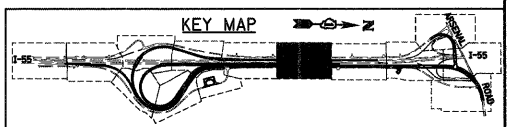
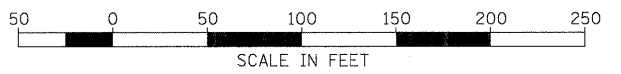
SCALE: 1" = 50' SHEET NO. 8 OF 12 SHEETS STA. TO STA.

F.A.I. RTE. 55	SECTION 99-2HB-2B-1	COUNTY WILL	TOTAL SHEETS 756	SHEET NO. 366
CONTRACT NO. 60F12			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	



NOTES:

- SEE DRAWING GE-1 FOR ELECTRICAL SYMBOL LIST AND ABBREVIATIONS. SEE DRAWING GE-2 FOR ELECTRICAL GENERAL NOTES AND SUGGESTED LIGHTING PHASING NOTES.
- WORK SHOWN ON THIS DRAWING WILL BE DONE IN STAGES 2, 3, AND 4. INSTALL CONDUITS AND GROUND ROD FOR EACH HIGH MAST TOWER LOCATED ALONG THE RETAINING WALL AS THE TOWER FOUNDATION IS BEING CONSTRUCTED. THIS WORK SHALL BE INCLUDED IN THE "LIGHT TOWER FOUNDATION, 54" DIAMETER" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
- SEE DRAWINGS S-1 AND ED-1 FOR HIGH MAST LIGHT TOWER FOUNDATIONS INTEGRAL WITH RETAINING WALL DETAILS.
- PROVIDE 4" RGS CONDUIT BETWEEN HIGH MAST TOWERS LOCATED ALONG THE RETAINING WALL AFTER RETAINING WALL IS CONSTRUCTED AND PRIOR TO CONSTRUCTION OF THE BARRIER WALL. CONDUIT SHALL BE ATTACHED TO THE EAST SIDE OF THE RETAINING WALL. PROVIDE WATERTIGHT SEAL AT CONDUIT OPENINGS. THIS WORK SHALL BE INCLUDED IN THE "CONDUIT ATTACHED TO STRUCTURE, 4" DIA., GALVANIZED STEEL" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
- LENGTH NOT SHOWN. SEE DRAWING RL2-8 FOR RUN LENGTH.
- INDICATES TEMPORARY PAVEMENT INSTALLATION LIMITS. SEE MAINTENANCE OF TRAFFIC DRAWINGS FOR CONSTRUCTION STAGING INFORMATION.



McDonough Associates Inc.
 Engineers / Architects
 130 East Randolph Street Chicago, Illinois 60601

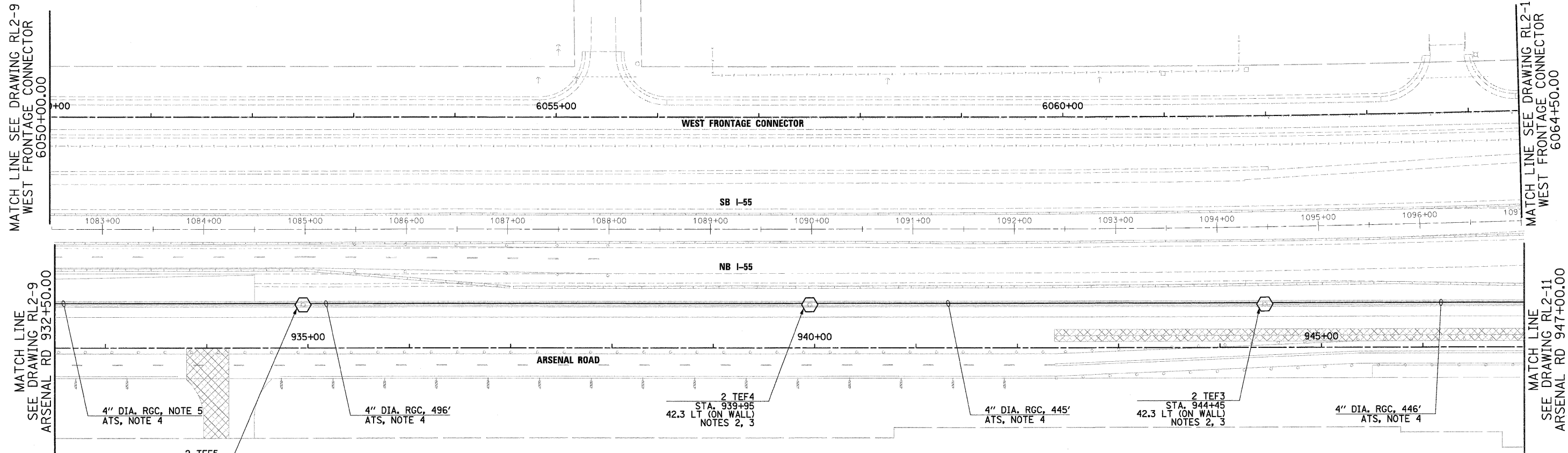
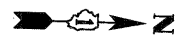
FILE NAME = 0160F12-SHT-RL2-9.dgn	USER NAME = TKluegel	DESIGNED - JLW	REVISED -
		DRAWN - CJM	REVISED -
		CHECKED - KMY	REVISED -
		DATE - 2/4/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-55 AT ARSENAL ROAD
PROPOSED ROADWAY LIGHTING PLAN-STAGE 2

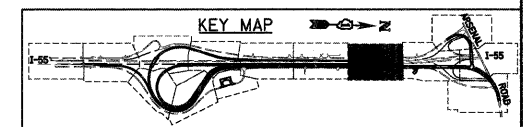
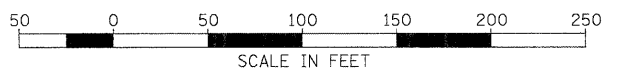
SCALE: 1" = 50' SHEET NO. 9 OF 12 SHEETS STA. TO STA.

F.A.I. RTE. 55	SECTION 99-2HB-2B-1	COUNTY WILL	TOTAL SHEETS 756	SHEET NO. 367
CONTRACT NO. 60F12			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	



NOTES:

1. SEE DRAWING GE-1 FOR ELECTRICAL SYMBOL LIST AND ABBREVIATIONS. SEE DRAWING GE-2 FOR ELECTRICAL GENERAL NOTES AND SUGGESTED LIGHTING PHASING NOTES.
2. WORK SHOWN ON THIS DRAWING WILL BE DONE IN STAGES 2, 3, AND 4. INSTALL CONDUITS AND GROUND ROD FOR EACH HIGH MAST TOWER LOCATED ALONG THE RETAINING WALL AS THE TOWER FOUNDATION IS BEING CONSTRUCTED. THIS WORK SHALL BE INCLUDED IN THE "LIGHT TOWER FOUNDATION, 54" DIAMETER" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
3. SEE DRAWINGS S-1 AND ED-1 FOR HIGH MAST LIGHT TOWER FOUNDATIONS INTEGRAL WITH RETAINING WALL DETAILS.
4. PROVIDE 4" RGS CONDUIT BETWEEN HIGH MAST TOWERS LOCATED ALONG THE RETAINING WALL AFTER RETAINING WALL IS CONSTRUCTED AND PRIOR TO CONSTRUCTION OF THE BARRIER WALL. CONDUIT SHALL BE ATTACHED TO THE EAST SIDE OF THE RETAINING WALL. PROVIDE WATERTIGHT SEAL AT CONDUIT OPENINGS. THIS WORK SHALL BE INCLUDED IN THE "CONDUIT ATTACHED TO STRUCTURE, 4" DIA., GALVANIZED STEEL" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
5. LENGTH NOT SHOWN. SEE DRAWING RL2-9 FOR RUN LENGTH.
6. [Hatched Area Symbol] INDICATES TEMPORARY PAVEMENT INSTALLATION LIMITS. SEE MAINTENANCE OF TRAFFIC DRAWINGS FOR CONSTRUCTION STAGING INFORMATION.



McDonough Associates Inc.
 Engineers / Architects
 130 East Randolph Street Chicago, Illinois 60601

FILE NAME = D162F12-SHT-RL2-10.dgn	USER NAME = TK\uegl	DESIGNED - JLW	REVISED -
		DRAWN - CJM	REVISED -
		CHECKED - KMY	REVISED -
		DATE - 2/4/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-55 AT ARSENAL ROAD
PROPOSED ROADWAY LIGHTING PLAN-STAGE 2

SCALE: 1" = 50' SHEET NO. 10 OF 12 SHEETS STA. TO STA.

F.A.I. RTE. 55	SECTION 99-2HB-2B-1	COUNTY WILL	TOTAL SHEETS 756	SHEET NO. 368
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 60F12	

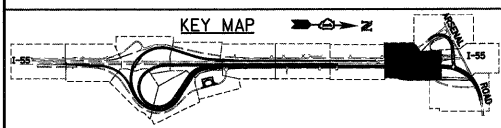
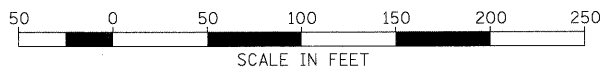
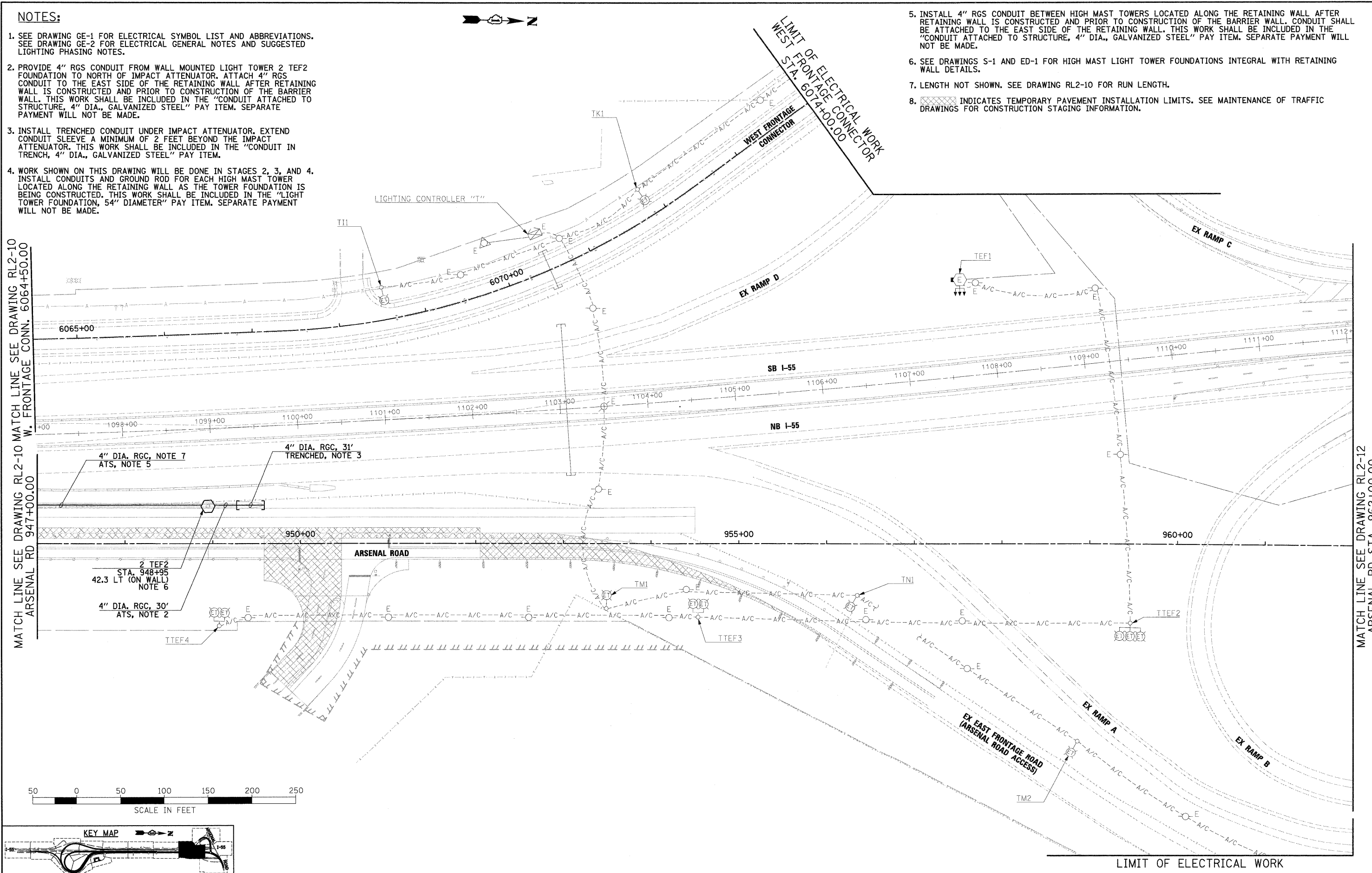
NOTES:

- SEE DRAWING GE-1 FOR ELECTRICAL SYMBOL LIST AND ABBREVIATIONS. SEE DRAWING GE-2 FOR ELECTRICAL GENERAL NOTES AND SUGGESTED LIGHTING PHASING NOTES.
- PROVIDE 4" RGS CONDUIT FROM WALL MOUNTED LIGHT TOWER 2 TEF2 FOUNDATION TO NORTH OF IMPACT ATTENUATOR. ATTACH 4" RGS CONDUIT TO THE EAST SIDE OF THE RETAINING WALL AFTER RETAINING WALL IS CONSTRUCTED AND PRIOR TO CONSTRUCTION OF THE BARRIER WALL. THIS WORK SHALL BE INCLUDED IN THE "CONDUIT ATTACHED TO STRUCTURE, 4" DIA., GALVANIZED STEEL" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
- INSTALL TRENCHED CONDUIT UNDER IMPACT ATTENUATOR. EXTEND CONDUIT SLEEVE A MINIMUM OF 2 FEET BEYOND THE IMPACT ATTENUATOR. THIS WORK SHALL BE INCLUDED IN THE "CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL" PAY ITEM.
- WORK SHOWN ON THIS DRAWING WILL BE DONE IN STAGES 2, 3, AND 4. INSTALL CONDUITS AND GROUND ROD FOR EACH HIGH MAST TOWER LOCATED ALONG THE RETAINING WALL AS THE TOWER FOUNDATION IS BEING CONSTRUCTED. THIS WORK SHALL BE INCLUDED IN THE "LIGHT TOWER FOUNDATION, 54" DIAMETER" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.

- INSTALL 4" RGS CONDUIT BETWEEN HIGH MAST TOWERS LOCATED ALONG THE RETAINING WALL AFTER RETAINING WALL IS CONSTRUCTED AND PRIOR TO CONSTRUCTION OF THE BARRIER WALL. CONDUIT SHALL BE ATTACHED TO THE EAST SIDE OF THE RETAINING WALL. THIS WORK SHALL BE INCLUDED IN THE "CONDUIT ATTACHED TO STRUCTURE, 4" DIA., GALVANIZED STEEL" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
- SEE DRAWINGS S-1 AND ED-1 FOR HIGH MAST LIGHT TOWER FOUNDATIONS INTEGRAL WITH RETAINING WALL DETAILS.
- LENGTH NOT SHOWN. SEE DRAWING RL2-10 FOR RUN LENGTH.
- INDICATES TEMPORARY PAVEMENT INSTALLATION LIMITS. SEE MAINTENANCE OF TRAFFIC DRAWINGS FOR CONSTRUCTION STAGING INFORMATION.

MATCH LINE SEE DRAWING RL2-10 MATCH LINE SEE DRAWING RL2-10
W. FRONTAGE CONN. 6064+50.00
ARSENAL RD 947+00.00

MATCH LINE SEE DRAWING RL2-12
ARSENAL RD STA. 962+00.00



McDonough Associates Inc.
Engineers / Architects
130 East Randolph Street Chicago, Illinois 60601

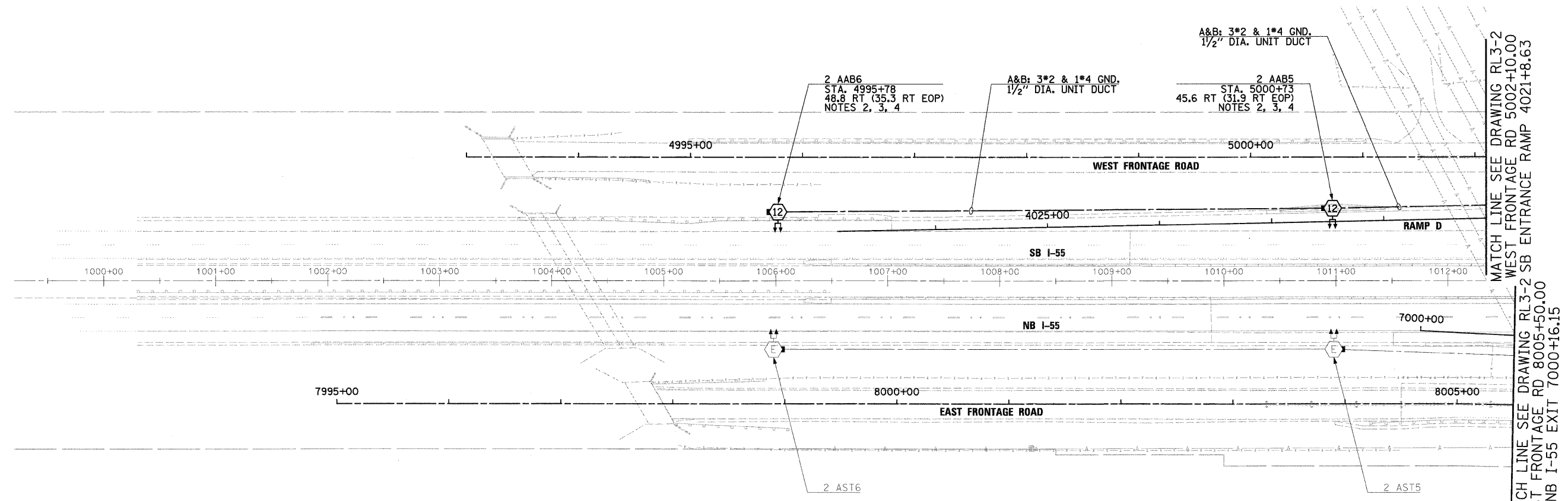
FILE NAME = D:\62\F12-SHT-RL2-11.dgn	USER NAME = TK1uegl	DESIGNED - JLW	REVISED -
		DRAWN - CJM	REVISED -
		CHECKED - KMY	REVISED -
		DATE - 2/4/11	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-55 AT ARSENAL ROAD
PROPOSED ROADWAY LIGHTING PLAN-STAGE 2**

SCALE: 1" = 50' SHEET NO. 11 OF 12 SHEETS STA. TO STA.

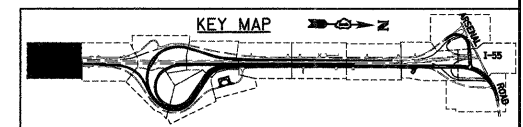
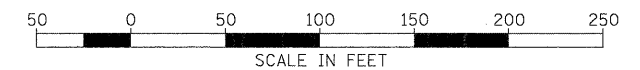
F.A.I. RTE. 55	SECTION 99-2HB-2B-1	COUNTY WILL	TOTAL SHEETS 756	SHEET NO. 369
CONTRACT NO. 60F12				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



MATCH LINE SEE DRAWING RL3-2
 WEST FRONTAGE RD 5002+10.00
 NB I-55 SB ENTRANCE RAMP 4021+8.63
 MATCH LINE SEE DRAWING RL3-2
 EAST FRONTAGE RD 8005+50.00
 NB I-55 EXIT 7000+16.15

NOTES:

1. SEE DRAWING GE-1 FOR ELECTRICAL SYMBOL LIST AND ABBREVIATIONS. SEE DRAWING GE-2 FOR ELECTRICAL GENERAL NOTES AND SUGGESTED LIGHTING PHASING NOTES.
2. FURNISH AND INSTALL HIGH MAST LIGHT TOWER FOUNDATIONS SHOWN. INCLUDE GROUND WELLS, GROUND RODS, GROUND WIRE, ANCHOR BOLTS, AND LIGHT TOWER SERVICE PAD. SEE DRAWINGS S-2 THROUGH S-5, AND ED-9 FOR HIGH MAST LIGHT TOWER FOUNDATION DETAILS. EXCEPT FOR THE LIGHT TOWER SERVICE PAD, THIS WORK SHALL BE INCLUDED IN THE "LIGHT TOWER FOUNDATION, 54" DIAMETER" PAY ITEM.
3. SEE IDOT STANDARD DRAWINGS BE-505a, BE-505b, AND BE-505c FOR HIGH MAST LIGHT TOWER INSTALLATION DETAILS. THIS WORK SHALL BE INCLUDED IN "LIGHT TOWER, 120 FOOT MOUNTING HEIGHT, LUMINAIRE MT. - 12" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
4. SEE DRAWING ED-2 FOR CONDUIT INSTALLATION DETAILS FOR GROUND MOUNTED HIGH MAST LIGHT TOWERS.



McDonough Associates Inc.
 Engineers / Architects
 130 East Randolph Street, Chicago, Illinois 60601

FILE NAME - 0160F12-SHT-RL3-1.dgn	USER NAME = TKluegel
--------------------------------------	----------------------

DESIGNED - JLW	REVISIONS -
DRAWN - CJM	REVISIONS -
CHECKED - KMY	REVISIONS -
DATE - 2/4/11	REVISIONS -

DATE - 2/4/11	REVISIONS -
---------------	-------------

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-55 AT ARSENAL ROAD
PROPOSED ROADWAY LIGHTING PLAN-STAGE 3

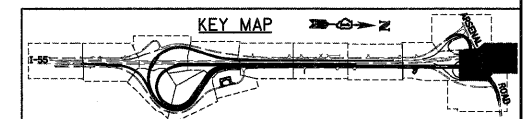
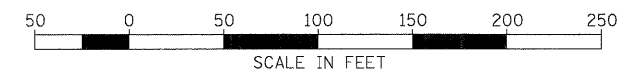
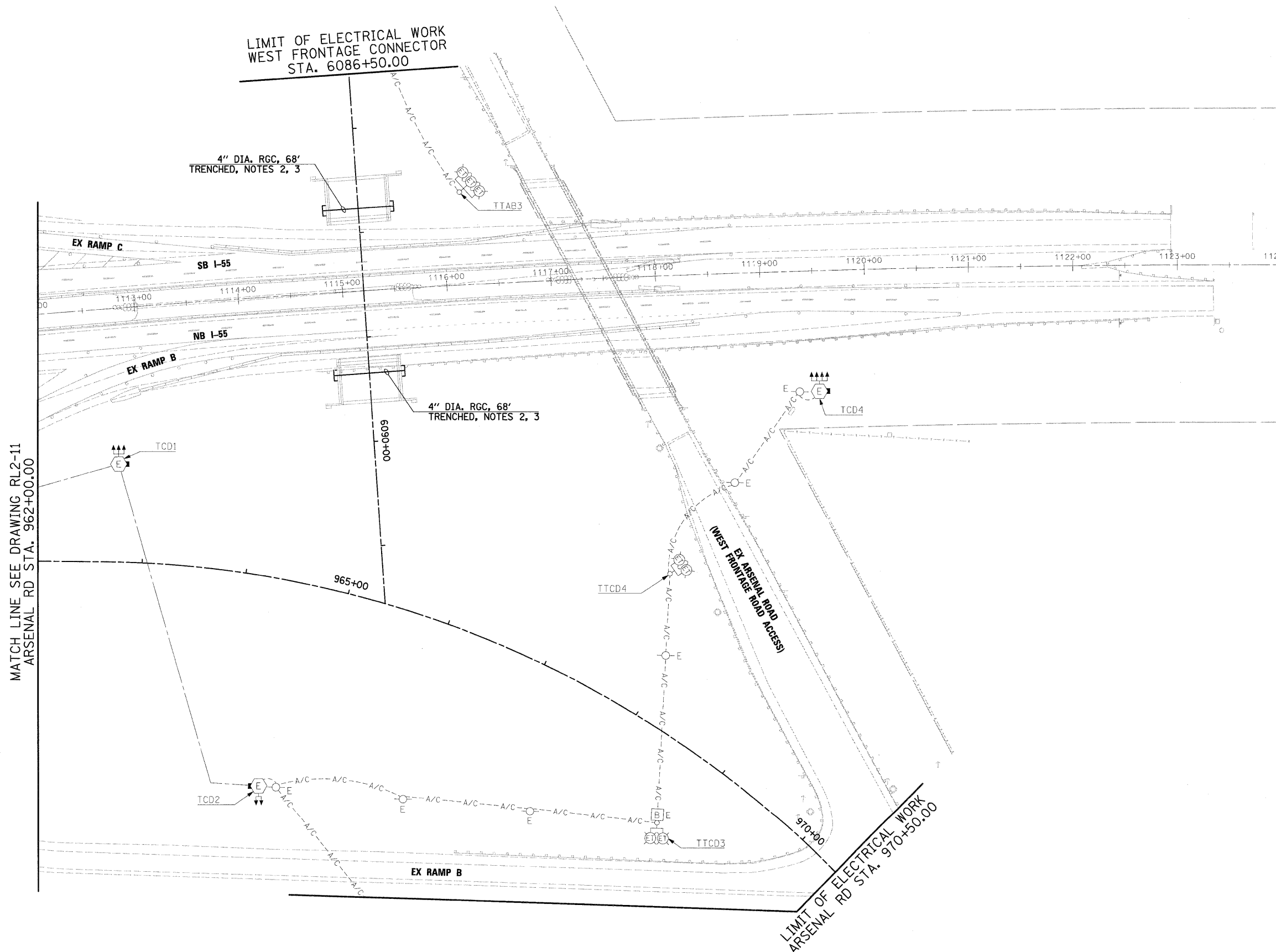
SCALE: 1" = 50' SHEET NO. 1 OF 11 SHEETS STA. TO STA.

F.A.I. RTE. 55	SECTION 99-2HB-2B-1	COUNTY WILL	TOTAL SHEETS 756	SHEET NO. 371
CONTRACT NO. 60F12				
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				



NOTES:

1. SEE DRAWING GE-1 FOR ELECTRICAL SYMBOL LIST AND ABBREVIATIONS. SEE DRAWING GE-2 FOR ELECTRICAL GENERAL NOTES AND SUGGESTED LIGHTING PHASING NOTES.
2. INSTALL TRENCHED CONDUIT FOR FUTURE USE. EXTEND CONDUIT SLEEVE A MINIMUM OF 2 FEET BEYOND THE SHOULDER. PROVIDE WATERTIGHT SEAL AT CONDUIT OPENINGS. MARK THE LOCATION OF ENDS OF CONDUIT. THIS WORK SHALL BE INCLUDED IN THE "CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
3. INSTALL TRENCHED CONDUITS UNDER WEST FRONTAGE ROAD AT BRIDGE BEFORE SLOPED WALL IS CONSTRUCTED.



McDonough Associates Inc.
 Engineers / Architects
 130 East Randolph Street, Chicago, Illinois 60601

FILE NAME =
 0160F12-SHT-RL2-12.dgn

USER NAME = TK1ueg1
 PLOT SCALE = 1:50
 PLOT DATE = 2/3/2011

DESIGNED - JLW
 DRAWN - CJM
 CHECKED - KMY
 DATE - 2/4/11

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**I-55 AT ARSENAL ROAD
 PROPOSED ROADWAY LIGHTING PLAN-STAGE 2**
 SCALE: 1" = 50' SHEET NO. 12 OF 12 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-2B-1	WILL	756	370
CONTRACT NO. 60F12			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	



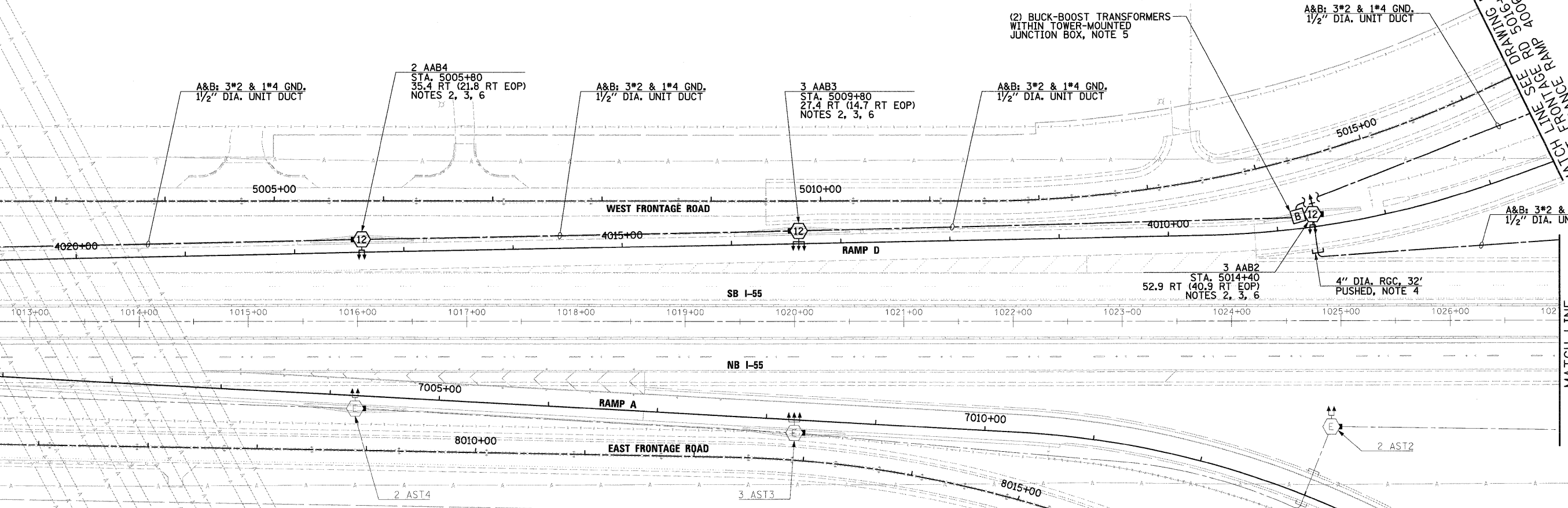
MATCH LINE SEE DRAWING RL3-1
WEST FRONTAGE RD 5002+10.00
SB ENTRANCE RAMP 4021+8.63

MATCH LINE SEE DRAWING RL3-1
EAST FRONTAGE RD 8005+50.00
NB I-55 EXIT 7000+16.15

MATCH LINE SEE DRAWING RL3-3
SB ENTRANCE RAMP 4006+38.90
WEST FRONTAGE RD 5016+50.00

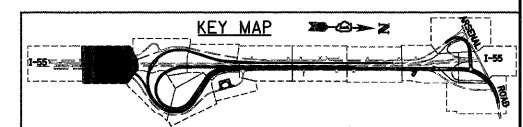
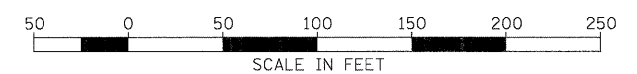
MATCH LINE
SEE DRAWING RL3-3
I-55 1027+00.00

LIMIT OF ELECTRICAL WORK
EAST FRONTAGE RD 8018+95.00
NB I-55 EXIT 7014+75.00



NOTES:

- SEE DRAWING GE-1 FOR ELECTRICAL SYMBOL LIST AND ABBREVIATIONS. SEE DRAWING GE-2 FOR ELECTRICAL GENERAL NOTES AND SUGGESTED LIGHTING PHASING NOTES.
- FURNISH AND INSTALL HIGH MAST LIGHT TOWER FOUNDATIONS SHOWN. INCLUDE GROUND WELLS, GROUND RODS, GROUND WIRE, ANCHOR BOLTS, AND LIGHT TOWER SERVICE PAD. SEE DRAWINGS S-2 THROUGH S-5, AND ED-9 FOR HIGH MAST LIGHT TOWER FOUNDATION DETAILS. EXCEPT FOR THE LIGHT TOWER SERVICE PAD, THIS WORK SHALL BE INCLUDED IN THE "LIGHT TOWER FOUNDATION, 54" DIAMETER" PAY ITEM.
- SEE IDOT STANDARD DRAWINGS BE-505a, BE-505b, AND BE-505c FOR HIGH MAST LIGHT TOWER INSTALLATION DETAILS. THIS WORK SHALL BE INCLUDED IN "LIGHT TOWER, 120 FOOT MOUNTING HEIGHT, LUMINAIRE MT. - 12" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
- EXTEND CONDUIT SLEEVE A MINIMUM OF 2 FEET BEYOND THE SHOULDER.
- BUCK-BOOST TRANSFORMERS TO BE INSTALLED AT THE DISCRETION OF THE ENGINEER. AFTER HIGH MAST LIGHT TOWERS 3 AAB3 AND 3 AAB4, SHOWN ON THIS DRAWING, 3 AAB5 AND 3 AAB6, SHOWN ON DRAWING RL3-1, AND 3 AAB7, 2 AAB8, AND 2 AAB9, SHOWN ON DRAWING RL3-3, ARE INSTALLED, THE CONTRACTOR SHALL TEST THE CIRCUITS BEFORE THE BUCK-BOOST TRANSFORMERS ARE INSTALLED IN CASE COMED IS PROVIDING VOLTAGE SIGNIFICANTLY HIGHER THAN EXPECTED AND THE BUCK-BOOST TRANSFORMER INSTALLATION CAN BE OMITTED. SHOULD THE ENGINEER DETERMINE THAT BUCK-BOOST TRANSFORMERS ARE REQUIRED, SEE DRAWING ED-5 FOR BUCK-BOOST TRANSFORMER INSTALLATION DETAILS. TESTING OF THE CIRCUITS TO DETERMINE IF BUCK-BOOST TRANSFORMERS ARE NECESSARY SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE APPLICABLE CABLE PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE. IF BUCK-BOOST TRANSFORMERS ARE REQUIRED, THE BUCK-BOOST TRANSFORMER, OVERCURRENT PROTECTION DEVICES, ENCLOSURE, MOUNTING HARDWARE, WIRING AND ALL INCIDENTALS NECESSARY FOR A COMPLETE AND FUNCTIONAL INSTALLATION SHALL BE INCLUDED IN THE "BUCK-BOOST TRANSFORMER, 1.5KVA, 240V PRIMARY, 24V SECONDARY" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
- SEE DRAWING ED-2 FOR CONDUIT INSTALLATION DETAILS FOR GROUND MOUNTED HIGH MAST LIGHT TOWERS.



McDonough Associates Inc.
Engineers / Architects
130 East Randolph Street Chicago, Illinois 60601

FILE NAME =
D:\68\F12-SHT-RL3-2.dgn

USER NAME = TKIuegl
PLOT SCALE = 1:50
PLOT DATE = 2/3/2011

DESIGNED - JLW
DRAWN - CJM
CHECKED - KMY
DATE - 2/4/11

REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-55 AT ARSENAL ROAD
PROPOSED ROADWAY LIGHTING PLAN-STAGE 3**

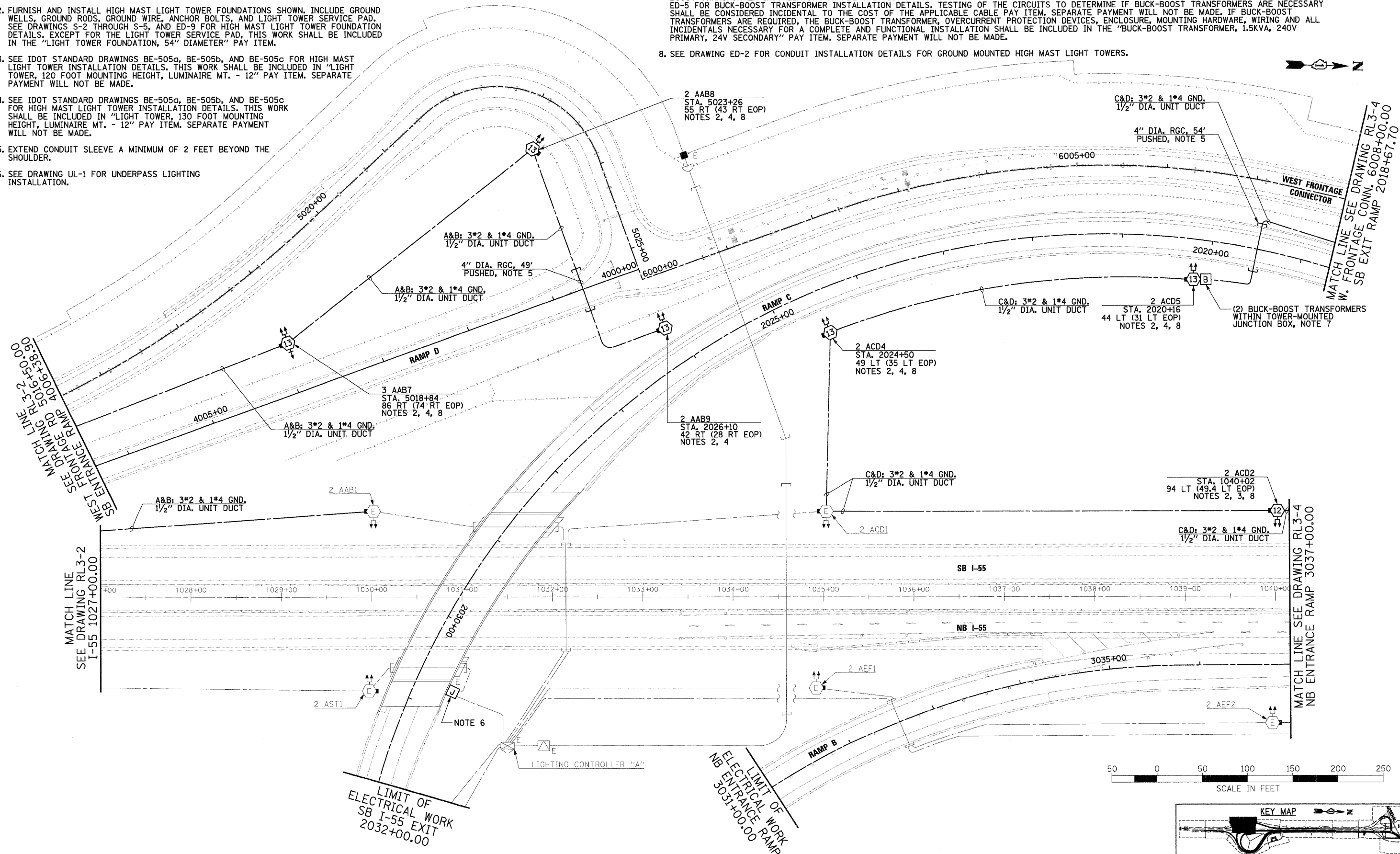
SCALE: 1" = 50' SHEET NO. 2 OF 11 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-2B-1	WILL	756	372
CONTRACT NO. 60F12				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

NOTES:

- SEE DRAWING GE-1 FOR ELECTRICAL SYMBOL LIST AND ABBREVIATIONS. SEE DRAWING GE-2 FOR ELECTRICAL GENERAL NOTES AND SUGGESTED LIGHTING PHASING NOTES.
- FURNISH AND INSTALL HIGH MAST LIGHT TOWER FOUNDATIONS SHOWN. INCLUDE GROUND WELLS, GROUND RODS, GROUND WIRE, ANCHOR BOLTS, AND LIGHT TOWER SERVICE PAD. SEE DRAWINGS S-2 THROUGH S-5, AND ED-9 FOR HIGH MAST LIGHT TOWER FOUNDATION DETAILS, EXCEPT FOR THE LIGHT TOWER SERVICE PAD, THIS WORK SHALL BE INCLUDED IN THE "LIGHT TOWER FOUNDATION, 54" DIAMETER" PAY ITEM.
- SEE IDOT STANDARD DRAWINGS BE-505a, BE-505b, AND BE-505c FOR HIGH MAST LIGHT TOWER INSTALLATION DETAILS. THIS WORK SHALL BE INCLUDED IN "LIGHT TOWER, 120 FOOT MOUNTING HEIGHT, LUMINAIRE MT. - 12" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
- SEE IDOT STANDARD DRAWINGS BE-505a, BE-505b, AND BE-505c FOR HIGH MAST LIGHT TOWER INSTALLATION DETAILS. THIS WORK SHALL BE INCLUDED IN "LIGHT TOWER, 130 FOOT MOUNTING HEIGHT, LUMINAIRE MT. - 12" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
- EXTEND CONDUIT SLEEVE A MINIMUM OF 2 FEET BEYOND THE SHOULDER.
- SEE DRAWING UL-1 FOR UNDERPASS LIGHTING INSTALLATION.

- BUCK-BOOST TRANSFORMERS TO BE INSTALLED AT THE DISCRETION OF THE ENGINEER. AFTER HIGH MAST LIGHT TOWERS 2 ACD6, 2 ACD7, AND 2 ACD8, SHOWN ON DRAWING RL3-4, AND 3 ACD9, 2 ACD10, AND 2 ACD11, SHOWN ON DRAWING RL3-5, ARE INSTALLED, THE CONTRACTOR SHALL TEST THE CIRCUITS BEFORE THE BUCK-BOOST TRANSFORMERS ARE INSTALLED IN CASE COMED IS PROVIDING VOLTAGE SIGNIFICANTLY HIGHER THAN EXPECTED AND THE BUCK-BOOST TRANSFORMER INSTALLATION CAN BE OMITTED. SHOULD THE ENGINEER DETERMINE THAT BUCK-BOOST TRANSFORMERS ARE REQUIRED, SEE DRAWING ED-5 FOR BUCK-BOOST TRANSFORMER INSTALLATION DETAILS. TESTING OF THE CIRCUITS TO DETERMINE IF BUCK-BOOST TRANSFORMERS ARE NECESSARY SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE APPLICABLE CABLE PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE IF BUCK-BOOST TRANSFORMERS ARE REQUIRED, THE BUCK-BOOST TRANSFORMER, OVERCURRENT PROTECTION DEVICES, ENCLOSURE, MOUNTING HARDWARE, WIRING AND ALL INCIDENTALS NECESSARY FOR A COMPLETE AND FUNCTIONAL INSTALLATION SHALL BE INCLUDED IN THE "BUCK-BOOST TRANSFORMER, 1.5KVA, 240V PRIMARY, 24V SECONDARY" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
- SEE DRAWING ED-2 FOR CONDUIT INSTALLATION DETAILS FOR GROUND MOUNTED HIGH MAST LIGHT TOWERS.



McDonough Associates Inc.
Engineers / Architects
130 East Randolph Street Chicago, Illinois 60601

FILE NAME = 0162F12-SHT-RL3-3.dgn	USER NAME = TKIuegal	DESIGNED - JLW	REVISED -
PLOT SCALE = 1:500	CHECKED - KMY	DRAWN - CJM	REVISED -
PLOT DATE = 2/3/2011	DATE - 2/4/11		REVISED -

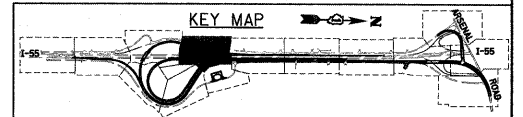
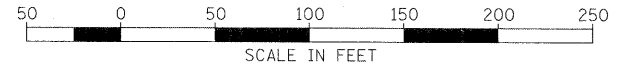
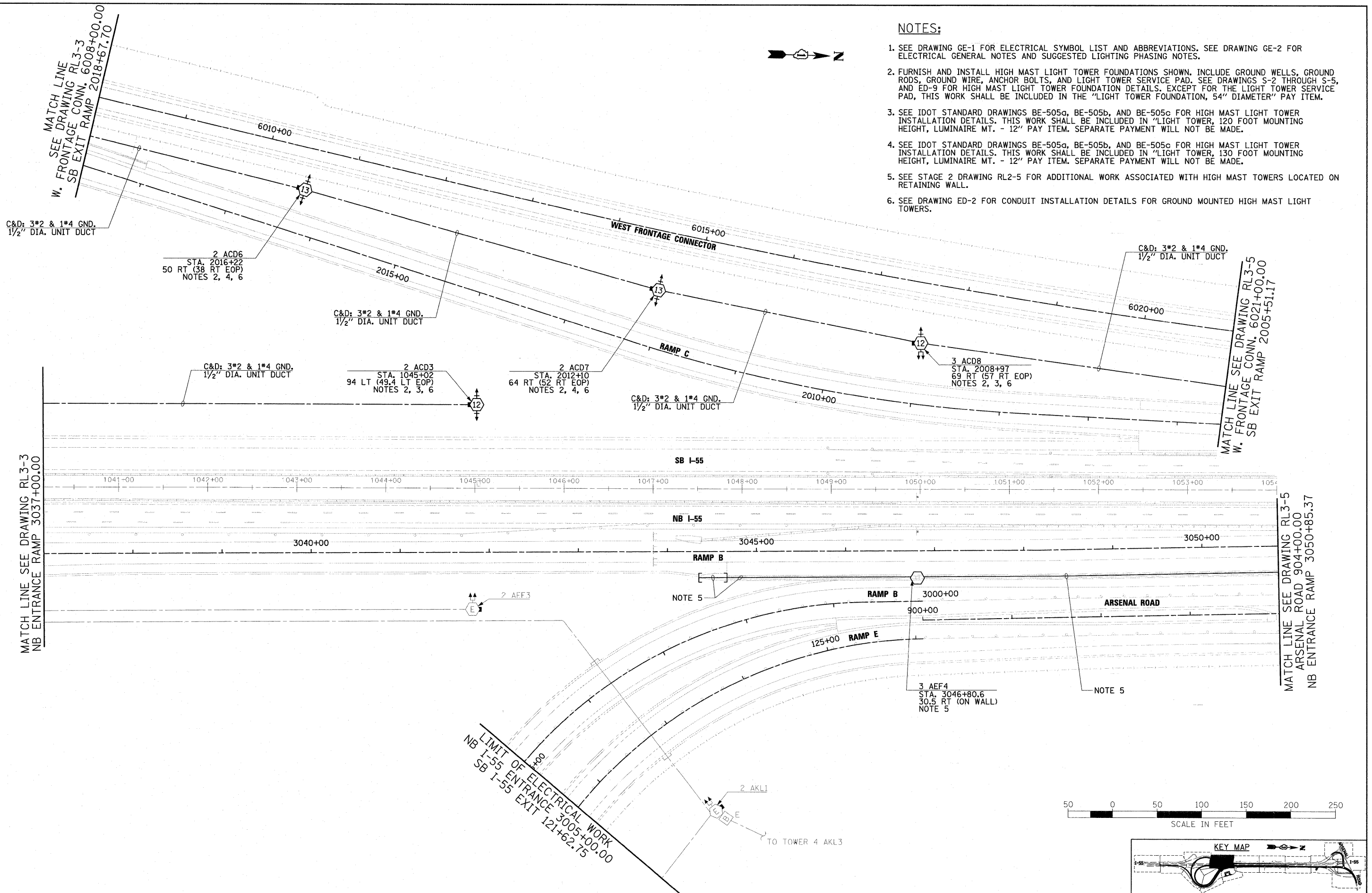
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-55 AT ARSENAL ROAD PROPOSED ROADWAY LIGHTING PLAN-STAGE 3	
SCALE: 1" = 50'	SHEET NO. 3 OF 11 SHEETS
STA.	TO STA.

F.A.I. RTE. 55	SECTION 99-2HB-2B-1	COUNTY WILL	TOTAL SHEETS 756	SHEET NO. 373
CONTRACT NO. 60F12				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

NOTES:

1. SEE DRAWING GE-1 FOR ELECTRICAL SYMBOL LIST AND ABBREVIATIONS. SEE DRAWING GE-2 FOR ELECTRICAL GENERAL NOTES AND SUGGESTED LIGHTING PHASING NOTES.
2. FURNISH AND INSTALL HIGH MAST LIGHT TOWER FOUNDATIONS SHOWN. INCLUDE GROUND WELLS, GROUND RODS, GROUND WIRE, ANCHOR BOLTS, AND LIGHT TOWER SERVICE PAD. SEE DRAWINGS S-2 THROUGH S-5, AND ED-9 FOR HIGH MAST LIGHT TOWER FOUNDATION DETAILS. EXCEPT FOR THE LIGHT TOWER SERVICE PAD, THIS WORK SHALL BE INCLUDED IN THE "LIGHT TOWER FOUNDATION, 54" DIAMETER" PAY ITEM.
3. SEE IDOT STANDARD DRAWINGS BE-505a, BE-505b, AND BE-505c FOR HIGH MAST LIGHT TOWER INSTALLATION DETAILS. THIS WORK SHALL BE INCLUDED IN "LIGHT TOWER, 120 FOOT MOUNTING HEIGHT, LUMINAIRE MT. - 12" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
4. SEE IDOT STANDARD DRAWINGS BE-505a, BE-505b, AND BE-505c FOR HIGH MAST LIGHT TOWER INSTALLATION DETAILS. THIS WORK SHALL BE INCLUDED IN "LIGHT TOWER, 130 FOOT MOUNTING HEIGHT, LUMINAIRE MT. - 12" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
5. SEE STAGE 2 DRAWING RL2-5 FOR ADDITIONAL WORK ASSOCIATED WITH HIGH MAST TOWERS LOCATED ON RETAINING WALL.
6. SEE DRAWING ED-2 FOR CONDUIT INSTALLATION DETAILS FOR GROUND MOUNTED HIGH MAST LIGHT TOWERS.



LIMIT OF ELECTRICAL WORK
 NB I-55 ENTRANCE 3005+00.00
 SB I-55 EXIT 121+62.75

McDonough Associates Inc.
 Engineers / Architects
 130 East Randolph Street, Chicago, Illinois 60601

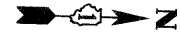
FILE NAME = D:\60F12-SHT-RL3-4.dgn	USER NAME = TKluegel	DESIGNED - JLW	REVISED -
PLDT SCALE = 1:50	DRAWN - CJM	CHECKED - KMY	REVISED -
PLDT DATE = 3/3/2011	DATE - 2/4/11		REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**I-55 AT ARSENAL ROAD
 PROPOSED ROADWAY LIGHTING PLAN-STAGE 3**

SCALE: 1" = 50' SHEET NO. 4 OF 11 SHEETS STA. TO STA.

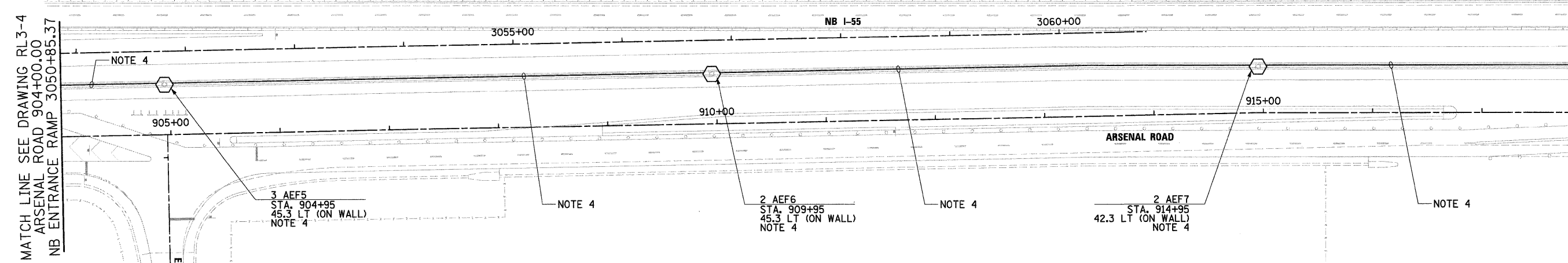
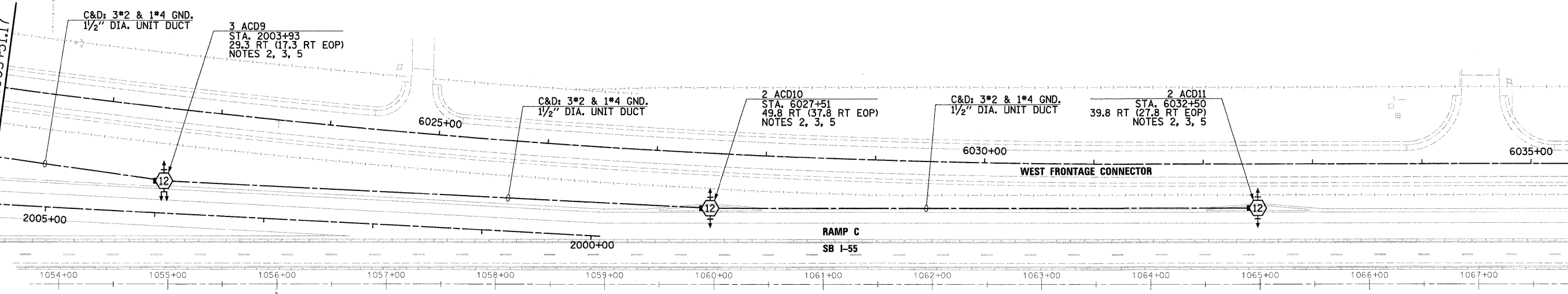
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-2B-1	WILL	756	374
CONTRACT NO. 60F12				



MATCH LINE SEE DRAWING RL3-4
W. FRONTAGE CONN. 6021+00.00
SB EXIT RAMP 2005+51.17

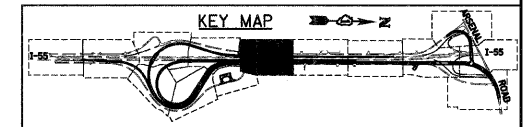
MATCH LINE SEE DRAWING RL3-6
WEST FRONTAGE
CONNECTOR 6035+50.00

MATCH LINE SEE DRAWING RL3-6
ARSENAL RD 918+00.00



NOTES:

1. SEE DRAWING GE-1 FOR ELECTRICAL SYMBOL LIST AND ABBREVIATIONS. SEE DRAWING GE-2 FOR ELECTRICAL GENERAL NOTES AND SUGGESTED LIGHTING PHASING NOTES.
2. FURNISH AND INSTALL HIGH MAST LIGHT TOWER FOUNDATIONS SHOWN. INCLUDE GROUND WELLS, GROUND RODS, GROUND WIRE, ANCHOR BOLTS, AND LIGHT TOWER SERVICE PAD. SEE DRAWINGS S-2 THROUGH S-5, AND ED-9 FOR HIGH MAST LIGHT TOWER FOUNDATION DETAILS. EXCEPT FOR THE LIGHT TOWER SERVICE PAD, THIS WORK SHALL BE INCLUDED IN THE "LIGHT TOWER FOUNDATION, 54" DIAMETER" PAY ITEM.
3. SEE IDOT STANDARD DRAWINGS BE-505a, BE-505b, AND BE-505c FOR HIGH MAST LIGHT TOWER INSTALLATION DETAILS. THIS WORK SHALL BE INCLUDED IN "LIGHT TOWER, 120 FOOT MOUNTING HEIGHT, LUMINAIRE MT. - 12" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
4. SEE STAGE 2 DRAWING RL2-8 FOR ADDITIONAL WORK ASSOCIATED WITH HIGH MAST TOWERS LOCATED ON RETAINING WALL.
5. SEE DRAWING ED-2 FOR CONDUIT INSTALLATION DETAILS FOR GROUND MOUNTED HIGH MAST LIGHT TOWERS.



McDonough Associates Inc.
Engineers / Architects
130 East Randolph Street, Chicago, Illinois 60601

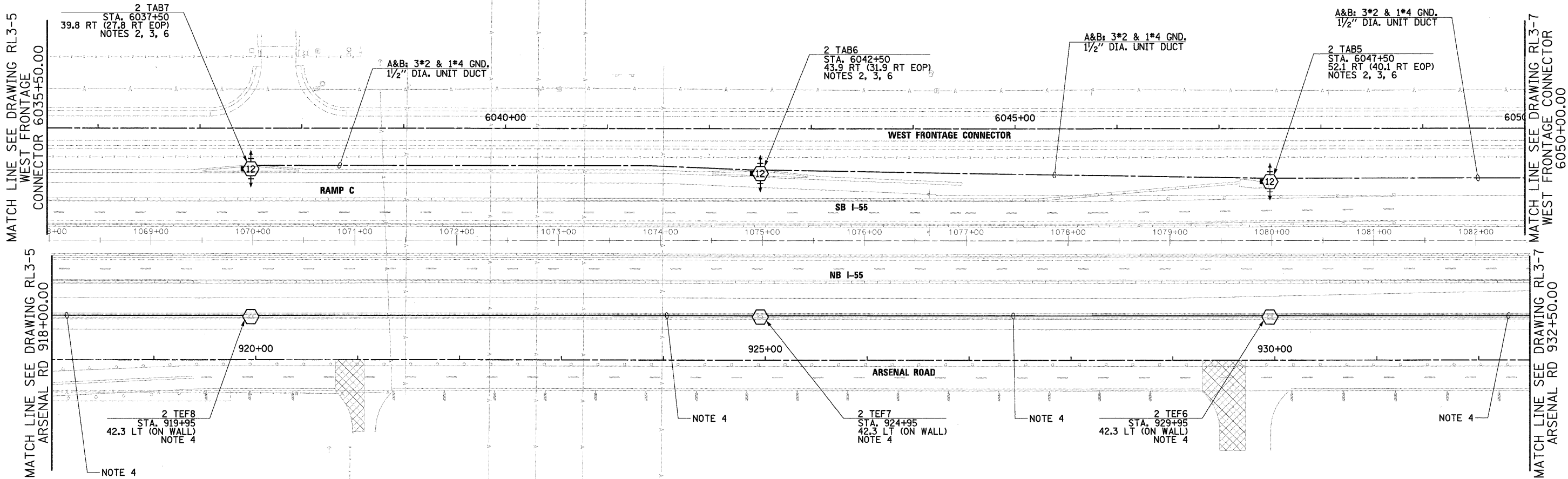
FILE NAME = D16BF12-SHT-RL3-5.dgn	USER NAME = TK1uega1	DESIGNED - JLW	REVISED -
PLOT SCALE = 1:50	CHECKED - KMY	DRAWN - CJM	REVISED -
PLOT DATE = 2/3/2011	DATE - 2/4/11		REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-55 AT ARSENAL ROAD
PROPOSED ROADWAY LIGHTING PLAN-STAGE 3**

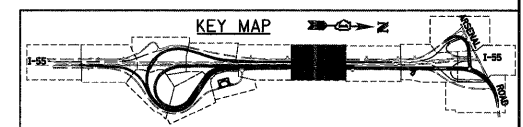
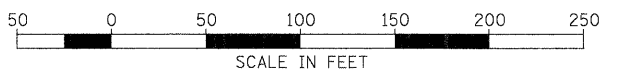
SCALE: 1" = 50' SHEET NO. 5 OF 11 SHEETS STA. TO STA.

F.A.I. RTE. 55	SECTION 99-2HB-2B-1	COUNTY WILL	TOTAL SHEETS 756	SHEET NO. 375
CONTRACT NO. 60F12			ILLINOIS FED. AID PROJECT	



NOTES:

1. SEE DRAWING GE-1 FOR ELECTRICAL SYMBOL LIST AND ABBREVIATIONS. SEE DRAWING GE-2 FOR ELECTRICAL GENERAL NOTES AND SUGGESTED LIGHTING PHASING NOTES.
2. FURNISH AND INSTALL HIGH MAST LIGHT TOWER FOUNDATIONS SHOWN. INCLUDE GROUND WELLS, GROUND RODS, GROUND WIRE, ANCHOR BOLTS, AND LIGHT TOWER SERVICE PAD. SEE DRAWINGS S-2 THROUGH S-5, AND ED-9 FOR HIGH MAST LIGHT TOWER FOUNDATION DETAILS. EXCEPT FOR THE LIGHT TOWER SERVICE PAD, THIS WORK SHALL BE INCLUDED IN THE "LIGHT TOWER FOUNDATION, 54" DIAMETER" PAY ITEM.
3. SEE IDOT STANDARD DRAWINGS BE-505a, BE-505b, AND BE-505c FOR HIGH MAST LIGHT TOWER INSTALLATION DETAILS. THIS WORK SHALL BE INCLUDED IN "LIGHT TOWER, 120 FOOT MOUNTING HEIGHT, LUMINAIRE MT. - 12" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
4. SEE STAGE 2 DRAWING RL2-9 FOR ADDITIONAL WORK ASSOCIATED WITH HIGH MAST TOWERS LOCATED ON RETAINING WALL.
5. INDICATES TEMPORARY PAVEMENT INSTALLATION LIMITS. SEE MAINTENANCE OF TRAFFIC DRAWINGS FOR CONSTRUCTION STAGING INFORMATION.
6. SEE DRAWING ED-2 FOR CONDUIT INSTALLATION DETAILS FOR GROUND MOUNTED HIGH MAST LIGHT TOWERS.



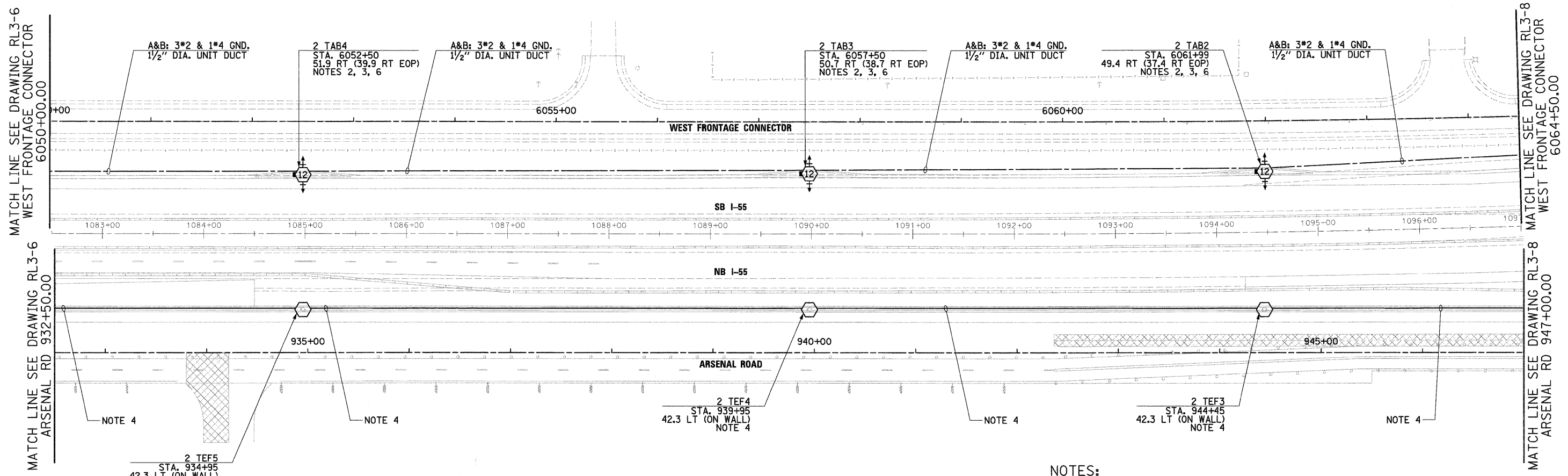
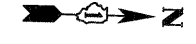
McDonough Associates Inc.
 Engineers / Architects
 130 East Randolph Street, Chicago, Illinois 60601

FILE NAME = 0162F12-SHT-RL3-6.dgn	USER NAME = TKIuse1	DESIGNED - JLW	REVISED -
PLOT SCALE = 1:50	CHECKED - KMY	DRAWN - CJM	REVISED -
PLOT DATE = 2/3/2011	DATE - 2/4/11		REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

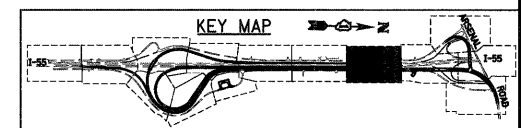
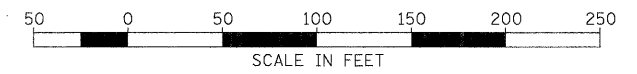
I-55 AT ARSENAL ROAD	
PROPOSED ROADWAY LIGHTING PLAN-STAGE 3	
SCALE: 1" = 50'	TO STA.
SHEET NO. 6 OF 11 SHEETS	

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-2B-1	WILL	756	376
CONTRACT NO. 60F12				
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				



NOTES:

1. SEE DRAWING GE-1 FOR ELECTRICAL SYMBOL LIST AND ABBREVIATIONS. SEE DRAWING GE-2 FOR ELECTRICAL GENERAL NOTES AND SUGGESTED LIGHTING PHASING NOTES.
2. FURNISH AND INSTALL HIGH MAST LIGHT TOWER FOUNDATIONS SHOWN. INCLUDE GROUND WELLS, GROUND RODS, GROUND WIRE, ANCHOR BOLTS, AND LIGHT TOWER SERVICE PAD. SEE DRAWINGS S-2 THROUGH S-5, AND ED-9 FOR HIGH MAST LIGHT TOWER FOUNDATION DETAILS. EXCEPT FOR THE LIGHT TOWER SERVICE PAD, THIS WORK SHALL BE INCLUDED IN THE "LIGHT TOWER FOUNDATION, 54" DIAMETER" PAY ITEM.
3. SEE IDOT STANDARD DRAWINGS BE-505a, BE-505b, AND BE-505c FOR HIGH MAST LIGHT TOWER INSTALLATION DETAILS. THIS WORK SHALL BE INCLUDED IN "LIGHT TOWER, 120 FOOT MOUNTING HEIGHT, LUMINAIRE MT. - 12" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
4. SEE STAGE 2 DRAWING RL2-10 FOR ADDITIONAL WORK ASSOCIATED WITH HIGH MAST TOWERS LOCATED ON RETAINING WALL.
5. [Hatched pattern symbol] INDICATES TEMPORARY PAVEMENT INSTALLATION LIMITS. SEE MAINTENANCE OF TRAFFIC DRAWINGS FOR CONSTRUCTION STAGING INFORMATION.
6. SEE DRAWING ED-2 FOR CONDUIT INSTALLATION DETAILS FOR GROUND MOUNTED HIGH MAST LIGHT TOWERS.



McDonough Associates Inc.
 Engineers / Architects
 130 East Randolph Street Chicago, Illinois 60601

FILE NAME = D160F12-SHT-RL3-7.dgn	USER NAME = TK1uege1	DESIGNED - JLW	REVISED -
PLOT SCALE = 1/8"=1'-0"		DRAWN - CJM	REVISED -
PLOT DATE = 2/3/2011		CHECKED - KMY	REVISED -
		DATE - 2/4/11	REVISED -


**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

I-55 AT ARSENAL ROAD PROPOSED ROADWAY LIGHTING PLAN-STAGE 3	
SCALE: 1" = 50'	SHEET NO. 7 OF 11 SHEETS
STA.	TO STA.

F.A.I. RTE. 55	SECTION 99-2HB-2B-1	COUNTY WILL	TOTAL SHEETS 756	SHEET NO. 377
CONTRACT NO. 60F12			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	

NOTES:

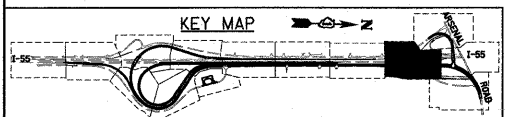
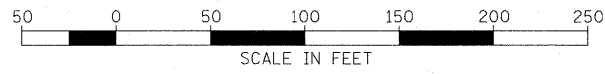
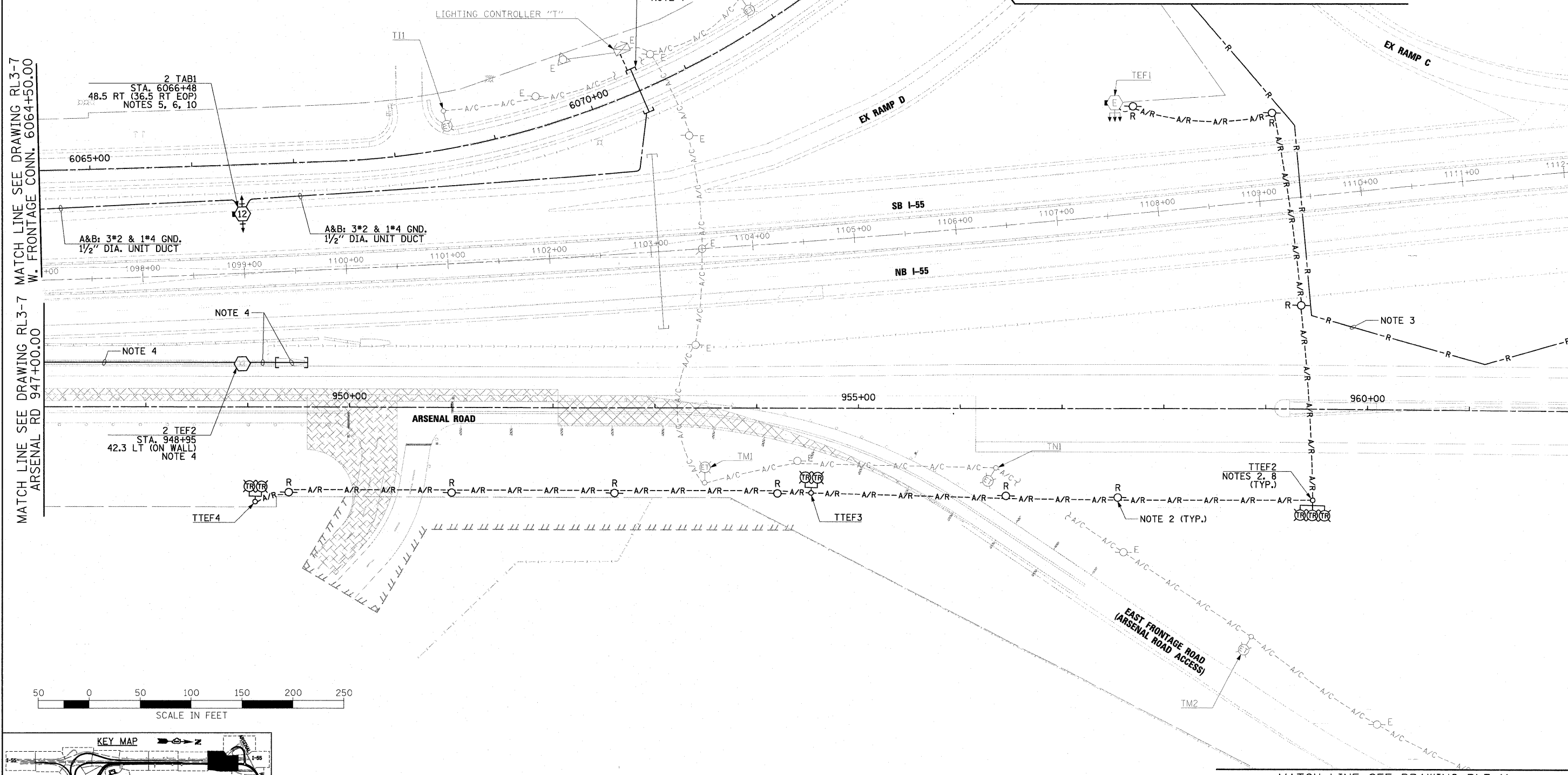
1. SEE DRAWING GE-1 FOR ELECTRICAL SYMBOL LIST AND ABBREVIATIONS. SEE DRAWING GE-2 FOR ELECTRICAL GENERAL NOTES AND SUGGESTED LIGHTING PHASING NOTES.
2. DISCONNECT AND REMOVE THE PART OF THE TEMPORARY LIGHTING SYSTEM SHOWN. THE WORK INCLUDES BUT IS NOT LIMITED TO, REMOVAL OF AERIAL CABLES, WOOD LIGHT POLE, MAST ARM, LUMINAIRE MOUNTING BRACKET AND LUMINAIRE(S). THIS WORK SHALL BE INCLUDED IN THE "REMOVAL OF LIGHTING UNIT, SALVAGE" PAY ITEM. REMOVAL OF WOOD LIGHT POLE FOUNDATION WILL BE PAID FOR SEPARATELY UNDER "REMOVAL OF WOOD POLE FOUNDATION, CONCRETE" PAY ITEM.
3. ABANDON EXISTING UNDERGROUND ELECTRIC CABLES AS SHOWN.
4. SEE STAGE 2 DRAWING RL2-11 FOR ADDITIONAL WORK ASSOCIATED WITH HIGH MAST TOWERS LOCATED ON RETAINING WALL.
5. FURNISH AND INSTALL HIGH MAST LIGHT TOWER FOUNDATIONS SHOWN. INCLUDE GROUND WELLS, GROUND RODS, GROUND WIRE, ANCHOR BOLTS, AND LIGHT TOWER SERVICE PAD. SEE DRAWINGS S-2 THROUGH S-5, AND ED-9 FOR HIGH MAST LIGHT TOWER FOUNDATION DETAILS. EXCEPT FOR THE LIGHT TOWER SERVICE PAD, THIS WORK SHALL BE INCLUDED IN THE "LIGHT TOWER FOUNDATION, 54" DIAMETER" PAY ITEM.

6. SEE IDOT STANDARD DRAWINGS BE-505a, BE-505b, AND BE-505c FOR HIGH MAST LIGHT TOWER INSTALLATION DETAILS. THIS WORK SHALL BE INCLUDED IN "LIGHT TOWER, 120 FOOT MOUNTING HEIGHT, LUMINAIRE MT. - 12" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
7. FOUR PUSHED CONDUITS PREVIOUSLY INSTALLED IN STAGE 1. SEE DRAWING RL1-7. NO ADDITIONAL PAYMENT WILL BE MADE FOR THE CONDUIT. UTILIZE ONE OF THE EXISTING CONDUITS FOR UNIT DUCT RUN SHOWN.
8. LUMINAIRES REMOVED AS PART OF "REMOVAL OF LIGHTING UNIT, SALVAGE" PAY ITEM IN STAGE 3 SHALL BE UTILIZED FOR PERMANENT LIGHTING IN STAGE 4. ALL LUMINAIRES WILL BE INSPECTED BY THE ENGINEER. NON-OPERATING OR DAMAGED LUMINAIRES SHALL BE REPAIRED OR REPLACED IN KIND IN ACCORDANCE WITH STANDARD SPECIFICATION 841.02.
9.  INDICATES TEMPORARY PAVEMENT INSTALLATION LIMITS. SEE MAINTENANCE OF TRAFFIC DRAWINGS FOR CONSTRUCTION STAGING INFORMATION.
10. SEE DRAWING ED-2 FOR CONDUIT INSTALLATION DETAILS FOR GROUND MOUNTED HIGH MAST LIGHT TOWERS.

MATCH LINE SEE DRAWING RL3-7
W. FRONTAGE CONN. 6064+50.00

MATCH LINE SEE DRAWING RL3-7
ARSENAL RD 947+00.00

MATCH LINE SEE DRAWING RL3-10
ARSENAL RD STA. 962+00.00



McDonough Associates Inc.
Engineers / Architects
130 East Randolph Street Chicago, Illinois 60601

FILE NAME = D:\5012-SHT-RL3-8.dgn	USER NAME = TKLuegel	DESIGNED - JLW	REVISED -
PLOT SCALE = 1:52	CHECKED - KMY	DRAWN - CJM	REVISED -
PLOT DATE = 3/3/2011	DATE - 2/4/11		REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

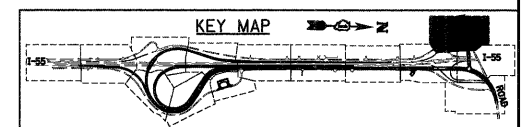
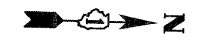
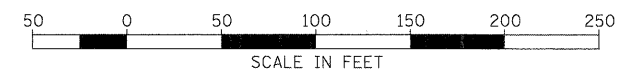
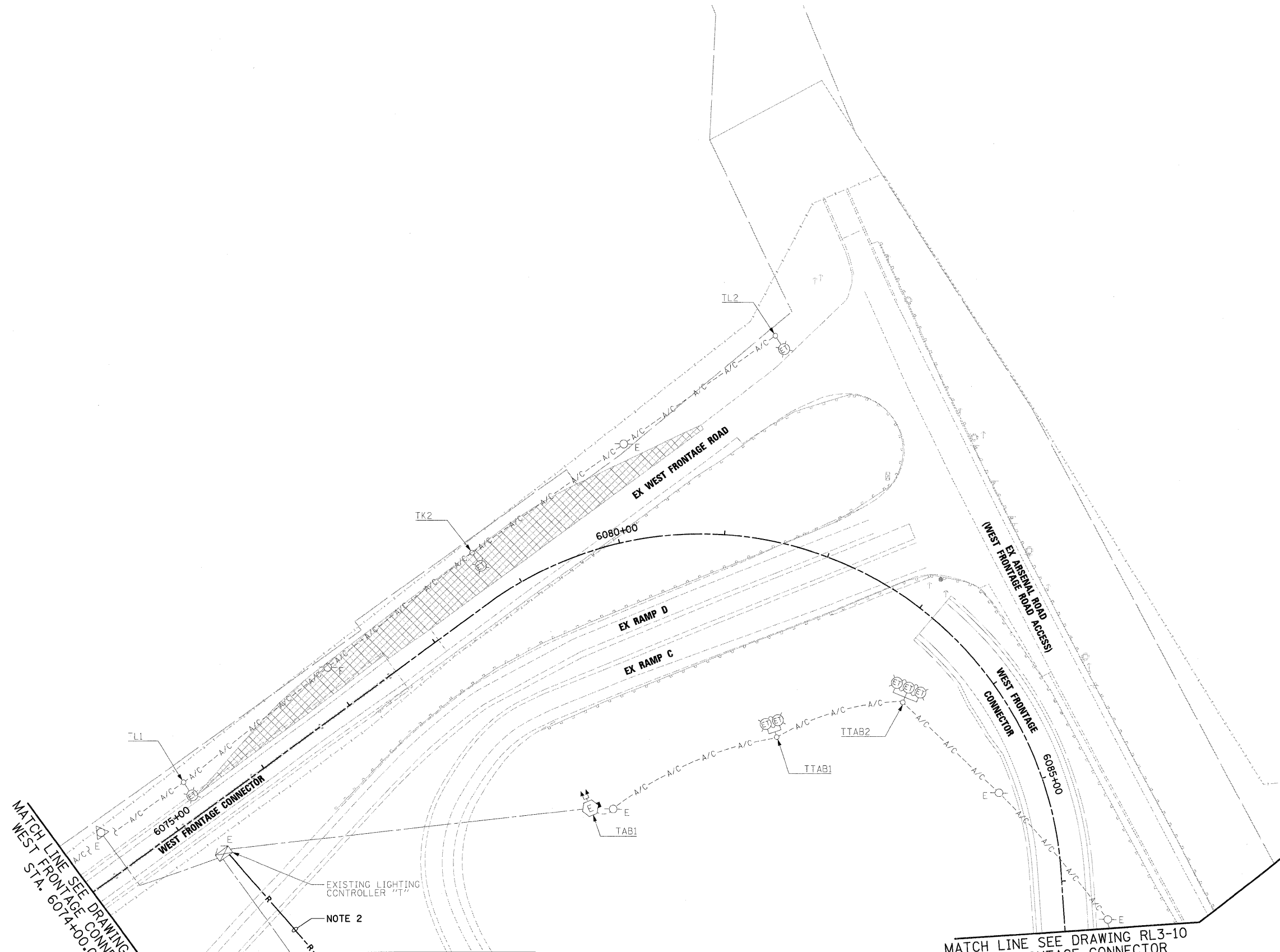
**I-55 AT ARSENAL ROAD
PROPOSED ROADWAY LIGHTING PLAN-STAGE 3**

SCALE: 1" = 50' SHEET NO. 8 OF 11 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-2B-1	WILL	756	378
CONTRACT NO. 60F12			ILLINOIS FED. AID PROJECT	

NOTES:

1. SEE DRAWING GE-1 FOR ELECTRICAL SYMBOL LIST AND ABBREVIATIONS. SEE DRAWING GE-2 FOR ELECTRICAL GENERAL NOTES AND SUGGESTED LIGHTING PHASING NOTES.
2. ABANDON EXISTING UNDERGROUND ELECTRIC CABLES AS SHOWN.
3. [Hatched Area Symbol] INDICATES TEMPORARY PAVEMENT INSTALLATION LIMITS. SEE MAINTENANCE OF TRAFFIC DRAWINGS FOR CONSTRUCTION STAGING INFORMATION.



MATCH LINE SEE DRAWING RL3-8
WEST FRONTAGE CONNECTOR
STA. 6074+00.00

MATCH LINE SEE DRAWING RL3-10
WEST FRONTAGE CONNECTOR
STA. 6086+50.00

EXISTING LIGHTING CONTROLLER "TK2"
NOTE 2

McDonough Associates Inc.
Engineers / Architects
130 East Randolph Street Chicago, Illinois 60601

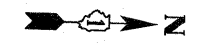
FILE NAME = D162F12-SHT-RL3-9.dgn	USER NAME = (Kluereg)	DESIGNED - JLW	REVISED -
		DRAWN - CJM	REVISED -
		CHECKED - KMY	REVISED -
		DATE - 2/4/11	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-55 AT ARSENAL ROAD
PROPOSED ROADWAY LIGHTING PLAN-STAGE 3**

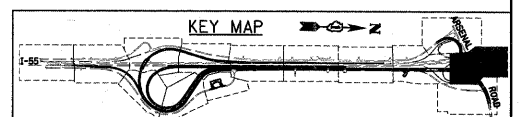
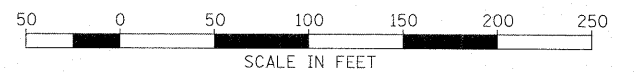
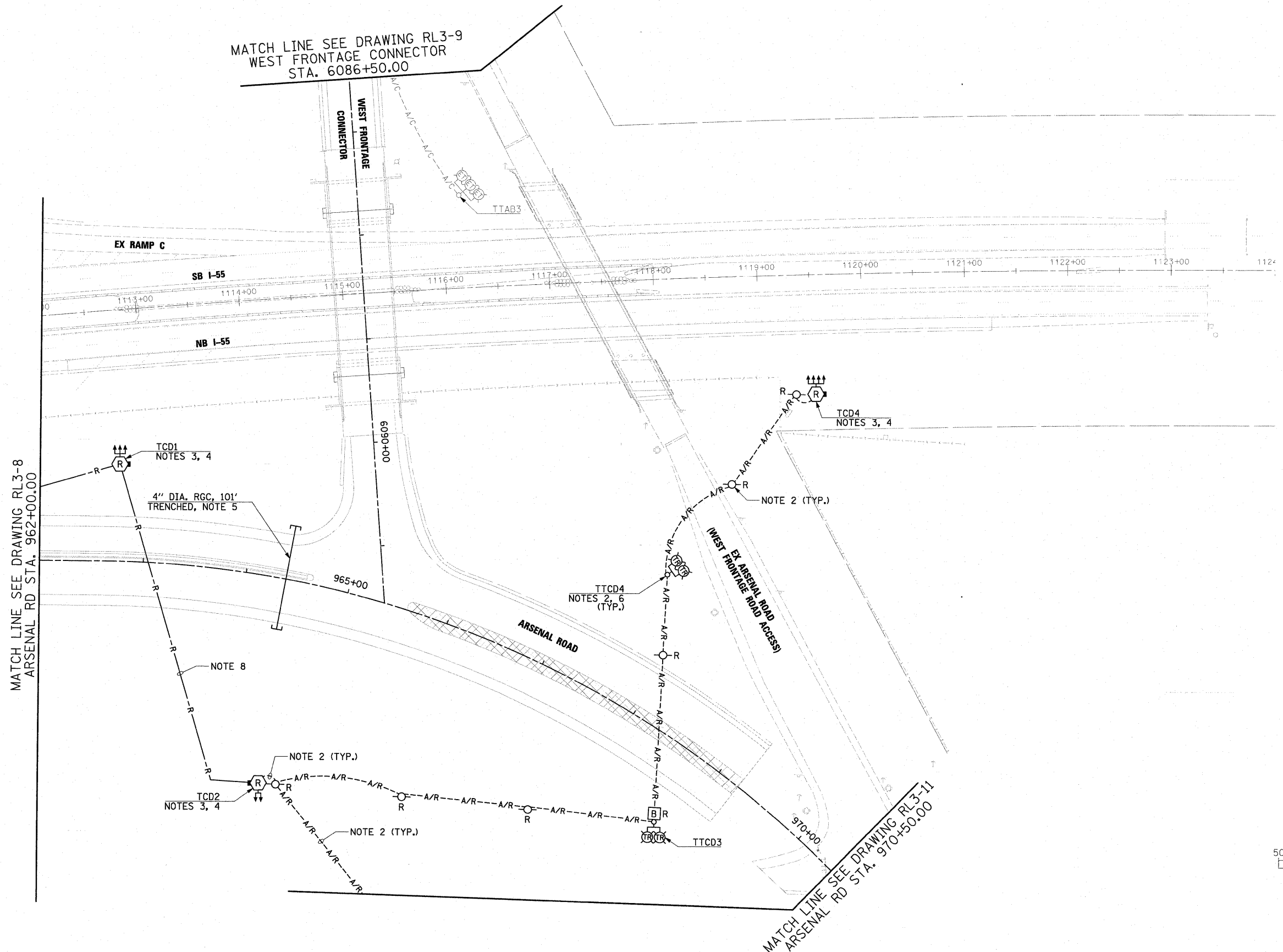
SCALE: 1" = 50' SHEET NO. 9 OF 11 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-2B-1	WILL	756	379
CONTRACT NO. 60F12				
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				



NOTES:

1. SEE DRAWING GE-1 FOR ELECTRICAL SYMBOL LIST AND ABBREVIATIONS, SEE DRAWING GE-2 FOR ELECTRICAL GENERAL NOTES AND SUGGESTED LIGHTING PHASING NOTES.
2. DISCONNECT AND REMOVE THE PART OF THE TEMPORARY LIGHTING SYSTEM SHOWN. THE WORK INCLUDES BUT IS NOT LIMITED TO: REMOVAL OF AERIAL CABLES, WOOD LIGHT POLE, MAST ARM, LUMINAIRE MOUNTING BRACKET AND LUMINAIRE(S). THIS WORK SHALL BE INCLUDED IN THE "REMOVAL OF LIGHTING UNIT, SALVAGE" PAY ITEM. REMOVAL OF WOOD LIGHT POLE FOUNDATION WILL BE PAID FOR SEPARATELY UNDER "REMOVAL OF POLE FOUNDATION" PAY ITEM.
3. REMOVE AND SALVAGE EXISTING HIGH MAST LIGHT TOWER IN ACCORDANCE WITH SPECIAL PROVISIONS. THIS WORK SHALL BE INCLUDED IN THE "REMOVAL OF EXISTING HIGH MAST LIGHT TOWER, SALVAGE" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
4. REMOVE EXISTING LIGHT TOWER FOUNDATION IN ACCORDANCE WITH SPECIAL PROVISIONS. THIS WORK SHALL BE INCLUDED IN THE "FOUNDATION REMOVAL" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
5. INSTALL TRENCHED CONDUIT FOR FUTURE USE. EXTEND CONDUIT SLEEVE A MINIMUM OF 2 FEET BEYOND THE SHOULDER. PROVIDE WATERTIGHT SEAL AT CONDUIT OPENINGS. MARK LOCATION OF ENDS OF CONDUIT. THIS WORK SHALL BE INCLUDED IN THE "CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
6. LUMINAIRES REMOVED AS PART OF "REMOVAL OF LIGHTING UNIT, SALVAGE" PAY ITEM IN STAGE 3 SHALL BE UTILIZED FOR PERMANENT LIGHTING IN STAGE 4. ALL LUMINAIRES WILL BE INSPECTED BY THE ENGINEER. NON-OPERATING OR DAMAGED LUMINAIRES SHALL BE REPAIRED OR REPLACED IN KIND IN ACCORDANCE WITH STANDARD SPECIFICATION 841.02.
7. INDICATES TEMPORARY PAVEMENT INSTALLATION LIMITS. SEE MAINTENANCE OF TRAFFIC DRAWINGS FOR CONSTRUCTION STAGING INFORMATION.
8. ABANDON EXISTING UNDERGROUND ELECTRIC CABLES AS SHOWN.



McDonough Associates Inc.
 Engineers / Architects
 130 East Randolph Street, Chicago, Illinois 60601

FILE NAME =	USER NAME = TK1uegal
D:\B0\F12-SHT-RL3-10.dgn	
PLOT SCALE = 1:50	
PLOT DATE = 3/3/2011	

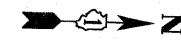
DESIGNED - JLW	REVISED -
DRAWN - CJM	REVISED -
CHECKED - KMY	REVISED -
DATE 2/4/11	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-55 AT ARSENAL ROAD
PROPOSED ROADWAY LIGHTING PLAN-STAGE 3**

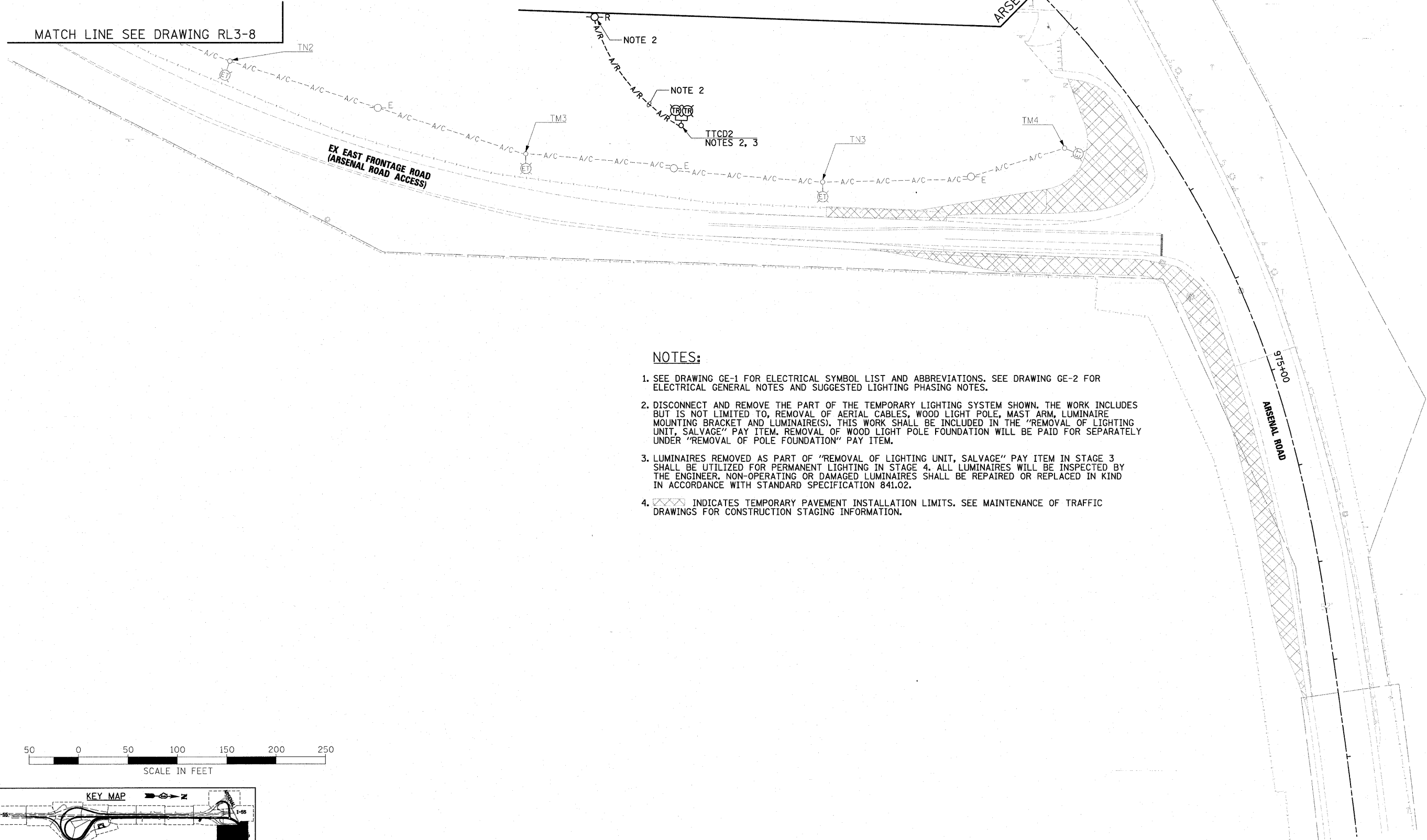
SCALE: 1" = 50' SHEET NO. 10 OF 11 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-2B-1	WILL	756	380
CONTRACT NO. 60F12				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



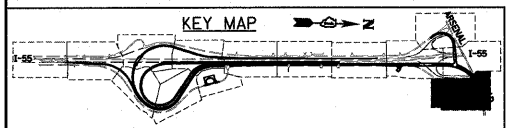
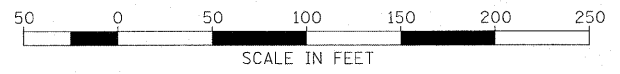
MATCH LINE
SEE DRAWING RL3-10
ARSENAL RD STA. 970+50.00

MATCH LINE SEE DRAWING RL3-8



NOTES:

1. SEE DRAWING GE-1 FOR ELECTRICAL SYMBOL LIST AND ABBREVIATIONS. SEE DRAWING GE-2 FOR ELECTRICAL GENERAL NOTES AND SUGGESTED LIGHTING PHASING NOTES.
2. DISCONNECT AND REMOVE THE PART OF THE TEMPORARY LIGHTING SYSTEM SHOWN. THE WORK INCLUDES BUT IS NOT LIMITED TO, REMOVAL OF AERIAL CABLES, WOOD LIGHT POLE, MAST ARM, LUMINAIRE MOUNTING BRACKET AND LUMINAIRE(S). THIS WORK SHALL BE INCLUDED IN THE "REMOVAL OF LIGHTING UNIT, SALVAGE" PAY ITEM. REMOVAL OF WOOD LIGHT POLE FOUNDATION WILL BE PAID FOR SEPARATELY UNDER "REMOVAL OF POLE FOUNDATION" PAY ITEM.
3. LUMINAIRES REMOVED AS PART OF "REMOVAL OF LIGHTING UNIT, SALVAGE" PAY ITEM IN STAGE 3 SHALL BE UTILIZED FOR PERMANENT LIGHTING IN STAGE 4. ALL LUMINAIRES WILL BE INSPECTED BY THE ENGINEER. NON-OPERATING OR DAMAGED LUMINAIRES SHALL BE REPAIRED OR REPLACED IN KIND IN ACCORDANCE WITH STANDARD SPECIFICATION 841.02.
4. INDICATES TEMPORARY PAVEMENT INSTALLATION LIMITS. SEE MAINTENANCE OF TRAFFIC DRAWINGS FOR CONSTRUCTION STAGING INFORMATION.



McDonough Associates Inc.
 Engineers / Architects
 130 East Randolph Street, Chicago, Illinois 60601

FILE NAME = D:\60F12-SHT-RL3-11.dgn	USER NAME = TKluugel	DESIGNED - JLW	REVISED -
		DRAWN - CJM	REVISED -
		CHECKED - KMY	REVISED -
		DATE - 2/4/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-55 AT ARSENAL ROAD
PROPOSED ROADWAY LIGHTING PLAN-STAGE 3

SCALE: 1" = 50' SHEET NO. 11 OF 11 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-2B-1	WILL	756	381
CONTRACT NO. 60F12			ILLINOIS FED. AID PROJECT	

NOTES:

1. SEE DRAWING GE-1 FOR ELECTRICAL SYMBOL LIST AND ABBREVIATIONS. SEE DRAWING GE-2 FOR ELECTRICAL GENERAL NOTES AND SUGGESTED LIGHTING PHASING NOTES.
2. SEE DRAWINGS RL2-5 AND RL3-4 FOR ADDITIONAL WORK ASSOCIATED WITH WALL MOUNTED LIGHT TOWER FOUNDATIONS AND CONDUIT INSTALLATION.
3. SEE DRAWINGS S-1 AND ED-1 FOR HIGH MAST LIGHT TOWER FOUNDATIONS INTEGRAL WITH RETAINING WALL DETAILS.
4. SEE IDOT STANDARD DRAWINGS BE-505a, BE-505b, AND BE-505c FOR HIGH MAST LIGHT TOWER INSTALLATION DETAILS. THIS WORK SHALL BE INCLUDED IN "LIGHT TOWER, 120 FOOT MOUNTING HEIGHT, LUMINAIRE MT. - 12" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
5. CONDUIT PREVIOUSLY INSTALLED IN STAGE 2 AS SHOWN ON DRAWING RL2-5. NO ADDITIONAL PAYMENT WILL BE MADE.



LIMIT OF ELECTRICAL WORK
W. FRONTAGE CONN. 6008+00.00
SB EXIT RAMP 2018+67.70

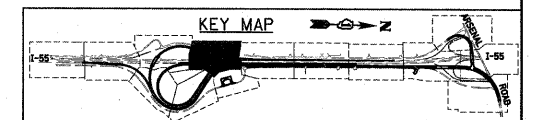
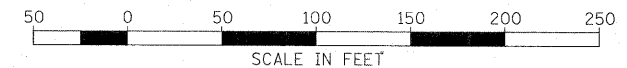
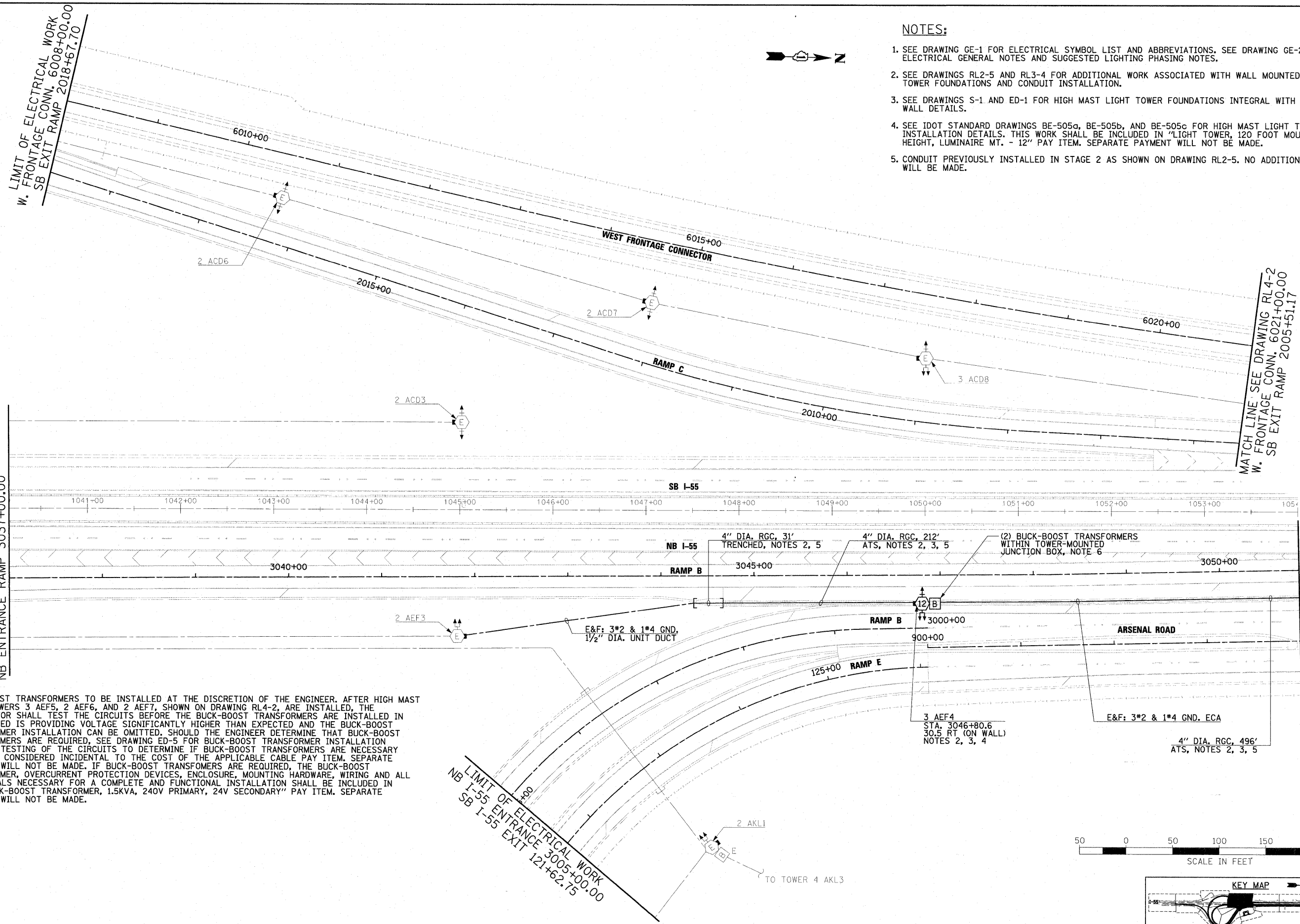
MATCH LINE SEE DRAWING RL4-2
W. FRONTAGE CONN. 6021+00.00
SB EXIT RAMP 2005+51.17

MATCH LINE SEE DRAWING RL4-2
ARSENAL ROAD 904+00.00
NB ENTRANCE RAMP 3050+85.37

LIMIT OF ELECTRICAL WORK
NB ENTRANCE RAMP 3037+00.00

6. BUCK-BOOST TRANSFORMERS TO BE INSTALLED AT THE DISCRETION OF THE ENGINEER. AFTER HIGH MAST LIGHT TOWERS 3 AEF5, 2 AEF6, AND 2 AEF7, SHOWN ON DRAWING RL4-2, ARE INSTALLED, THE CONTRACTOR SHALL TEST THE CIRCUITS BEFORE THE BUCK-BOOST TRANSFORMERS ARE INSTALLED. IN CASE COMED IS PROVIDING VOLTAGE SIGNIFICANTLY HIGHER THAN EXPECTED AND THE BUCK-BOOST TRANSFORMER INSTALLATION CAN BE OMITTED. SHOULD THE ENGINEER DETERMINE THAT BUCK-BOOST TRANSFORMERS ARE REQUIRED, SEE DRAWING ED-5 FOR BUCK-BOOST TRANSFORMER INSTALLATION DETAILS. TESTING OF THE CIRCUITS TO DETERMINE IF BUCK-BOOST TRANSFORMERS ARE NECESSARY SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE APPLICABLE CABLE PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE. IF BUCK-BOOST TRANSFORMERS ARE REQUIRED, THE BUCK-BOOST TRANSFORMER, OVERCURRENT PROTECTION DEVICES, ENCLOSURE, MOUNTING HARDWARE, WIRING AND ALL INCIDENTALS NECESSARY FOR A COMPLETE AND FUNCTIONAL INSTALLATION SHALL BE INCLUDED IN THE "BUCK-BOOST TRANSFORMER, 1.5KVA, 240V PRIMARY, 24V SECONDARY" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.

LIMIT OF ELECTRICAL WORK
NB I-55 ENTRANCE 3005+00.00
SB I-55 EXIT 121+62.75



McDonough Associates Inc.
Engineers / Architects
130 East Randolph Street, Chicago, Illinois 60601

FILE NAME =	USER NAME = TKluegel
D162F12-SHT-RL4-1.dgn	
PLOT SCALE = 1:50	
PLOT DATE = 3/3/2011	

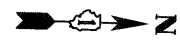
DESIGNED - JLW	REVISED -
DRAWN - CJM	REVISED -
CHECKED - KMY	REVISED -
DATE - 2/4/11	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-55 AT ARSENAL ROAD
PROPOSED ROADWAY LIGHTING PLAN-STAGE 4**

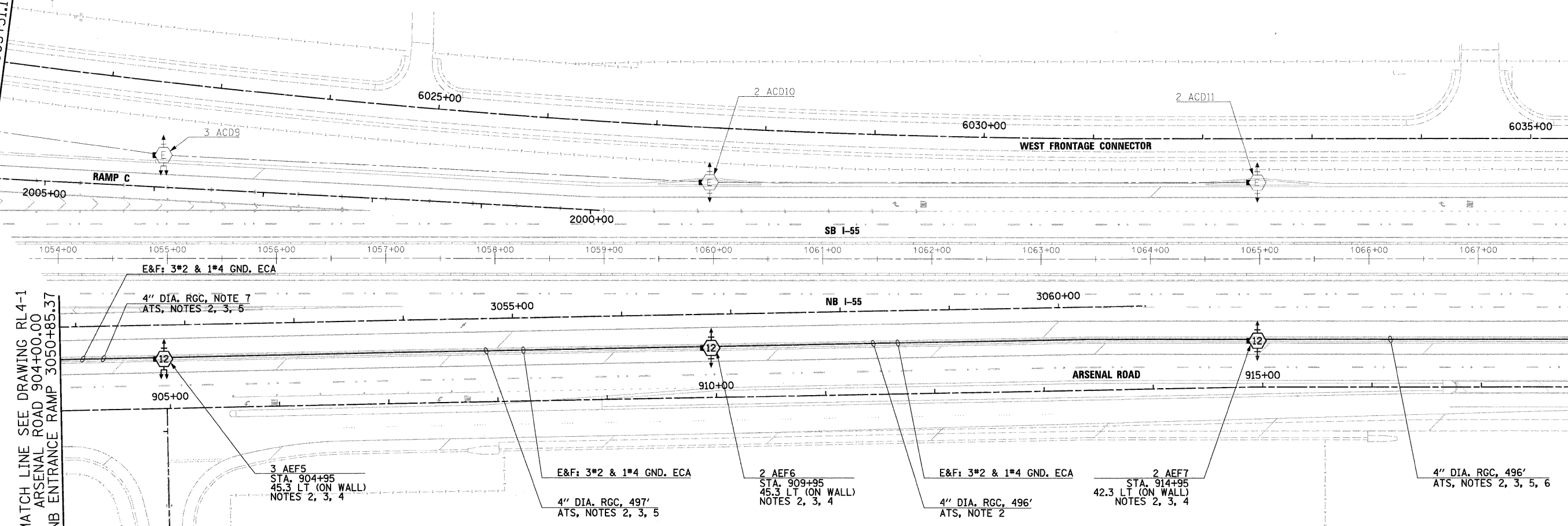
SCALE: 1" = 50' SHEET NO. 1 OF 8 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-2B-1	WILL	756	382
CONTRACT NO. 60F12				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



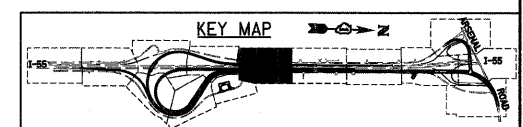
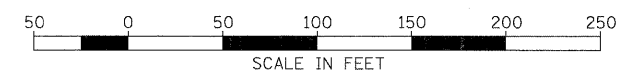
MATCH LINE SEE DRAWING RL4-1
W. FRONTAGE CONN. 6021+00.00
SB EXIT RAMP 2005+51.17

MATCH LINE SEE DRAWING RL4-3
WEST FRONTAGE
CONNECTOR 6035+50.00



NOTES:

1. SEE DRAWING GE-1 FOR ELECTRICAL SYMBOL LIST AND ABBREVIATIONS. SEE DRAWING GE-2 FOR ELECTRICAL GENERAL NOTES AND SUGGESTED LIGHTING PHASING NOTES.
2. SEE DRAWINGS RL2-8 AND RL3-5 FOR ADDITIONAL WORK ASSOCIATED WITH WALL MOUNTED LIGHT TOWER FOUNDATIONS AND CONDUIT INSTALLATION.
3. SEE DRAWINGS S-1 AND ED-1 FOR HIGH MAST LIGHT TOWER FOUNDATIONS INTEGRAL WITH RETAINING WALL DETAILS.
4. SEE IDOT STANDARD DRAWINGS BE-505a, BE-505b, AND BE-505c FOR HIGH MAST LIGHT TOWER INSTALLATION DETAILS. THIS WORK SHALL BE INCLUDED IN "LIGHT TOWER, 120 FOOT MOUNTING HEIGHT, LUMINAIRE MT. - 12" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
5. CONDUIT PREVIOUSLY INSTALLED IN STAGE 2 AS SHOWN ON DRAWING RL2-8. NO ADDITIONAL PAYMENT WILL BE MADE.
6. SPARE CONDUIT ATTACHED TO RETAINING WALL BETWEEN TOWERS 2 AEF7 AND 2 TEF8, SHOWN ON DRAWING RL4-3. CONDUIT OPENINGS TO RETAIN WATERTIGHT SEAL AFTER INSTALLATION OF HIGH MAST TOWERS ON RETAINING WALL.
7. LENGTH NOT SHOWN. SEE DRAWING RL4-1 FOR RUN LENGTH.



McDonough Associates Inc.
Engineers / Architects
130 East Randolph Street Chicago, Illinois 60601

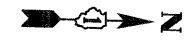
FILE NAME = D162F12-SHT-RL4-2.dgn	USER NAME = Tkluogel	DESIGNED - JLW	REVISED -
		DRAWN - CJM	REVISED -
	PLOT SCALE = 1:50	CHECKED - KMY	REVISED -
	PLOT DATE = 2/3/2011	DATE - 2/4/11	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-55 AT ARSENAL ROAD
PROPOSED ROADWAY LIGHTING PLAN-STAGE 4**

SCALE: 1" = 50' SHEET NO. 2 OF 8 SHEETS STA. TO STA.

F.A.I. RTE. 55	SECTION 99-2HB-2B-1	COUNTY WILL	TOTAL SHEETS 756	SHEET NO. 383
CONTRACT NO. 60F12				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

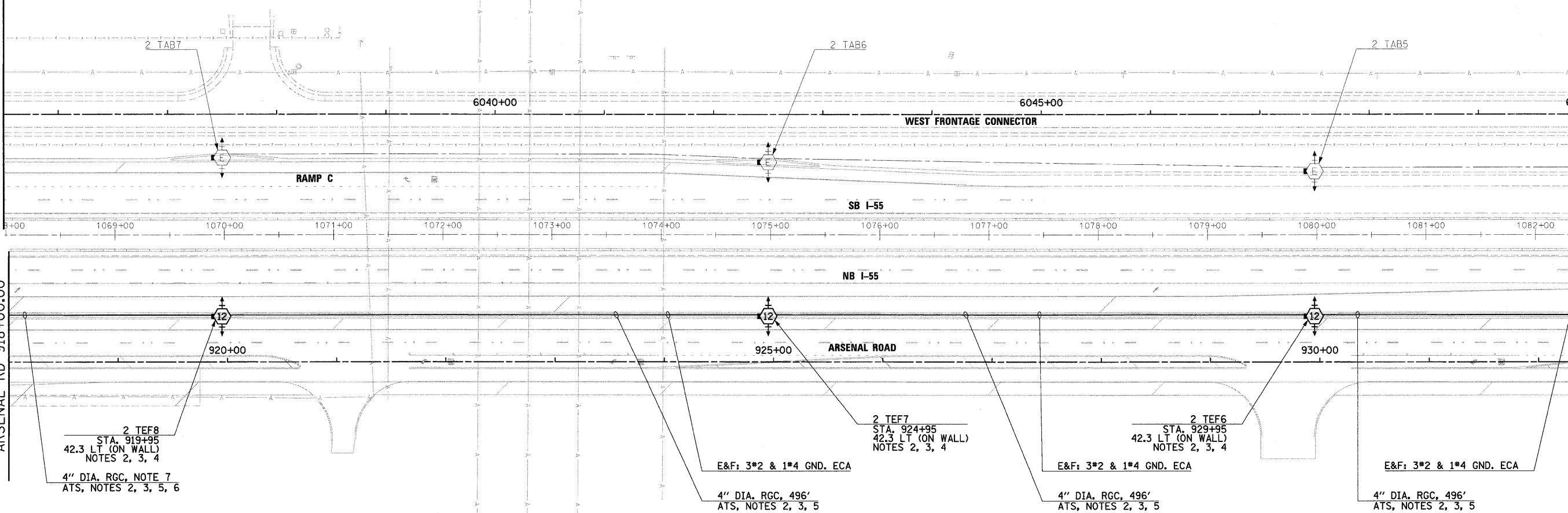


MATCH LINE SEE DRAWING RL4-2
WEST FRONTAGE
CONNECTOR 6035+50.00

MATCH LINE SEE DRAWING RL4-4
WEST FRONTAGE
CONNECTOR
6050+00.00

MATCH LINE SEE DRAWING RL4-2
ARSENAL RD 918+00.00

MATCH LINE SEE DRAWING RL4-4
ARSENAL RD 932+50.00



2 TEF8
STA. 919+95
42.3 LT (ON WALL)
NOTES 2, 3, 4
4" DIA. RGC, NOTE 7
ATS, NOTES 2, 3, 5, 6

E&F: 3*2 & 1*4 GND. ECA
4" DIA. RGC, 496'
ATS, NOTES 2, 3, 5

2 TEF7
STA. 924+95
42.3 LT (ON WALL)
NOTES 2, 3, 4

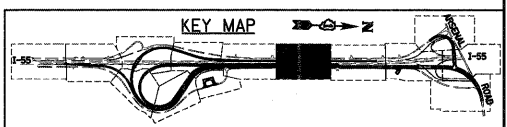
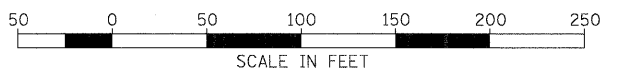
E&F: 3*2 & 1*4 GND. ECA
4" DIA. RGC, 496'
ATS, NOTES 2, 3, 5

2 TEF6
STA. 929+95
42.3 LT (ON WALL)
NOTES 2, 3, 4

E&F: 3*2 & 1*4 GND. ECA
4" DIA. RGC, 496'
ATS, NOTES 2, 3, 5

NOTES:

1. SEE DRAWING GE-1 FOR ELECTRICAL SYMBOL LIST AND ABBREVIATIONS. SEE DRAWING GE-2 FOR ELECTRICAL GENERAL NOTES AND SUGGESTED LIGHTING PHASING NOTES.
2. SEE DRAWINGS RL2-9 AND RL3-6 FOR ADDITIONAL WORK ASSOCIATED WITH WALL MOUNTED LIGHT TOWER FOUNDATIONS AND CONDUIT INSTALLATION.
3. SEE DRAWINGS S-1 AND ED-1 FOR HIGH MAST LIGHT TOWER FOUNDATIONS INTEGRAL WITH RETAINING WALL DETAILS.
4. SEE IDOT STANDARD DRAWINGS BE-505a, BE-505b, AND BE-505c FOR HIGH MAST LIGHT TOWER INSTALLATION DETAILS. THIS WORK SHALL BE INCLUDED IN "LIGHT TOWER, 120 FOOT MOUNTING HEIGHT, LUMINAIRE MT. - 12" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
5. CONDUIT PREVIOUSLY INSTALLED IN STAGE 2 AS SHOWN ON DRAWING RL2-9. NO ADDITIONAL PAYMENT WILL BE MADE.
6. SPARE CONDUIT ATTACHED TO RETAINING WALL BETWEEN TOWERS 2 AEF7, SHOWN ON DRAWING RL4-2, AND 2 TEF8. CONDUIT OPENINGS TO RETAIN WATERTIGHT SEAL AFTER INSTALLATION OF HIGH MAST TOWERS ON RETAINING WALL.
7. LENGTH NOT SHOWN. SEE DRAWING RL4-2 FOR RUN LENGTH.



McDonough Associates Inc.
Engineers / Architects
130 East Randolph Street Chicago, Illinois 60601

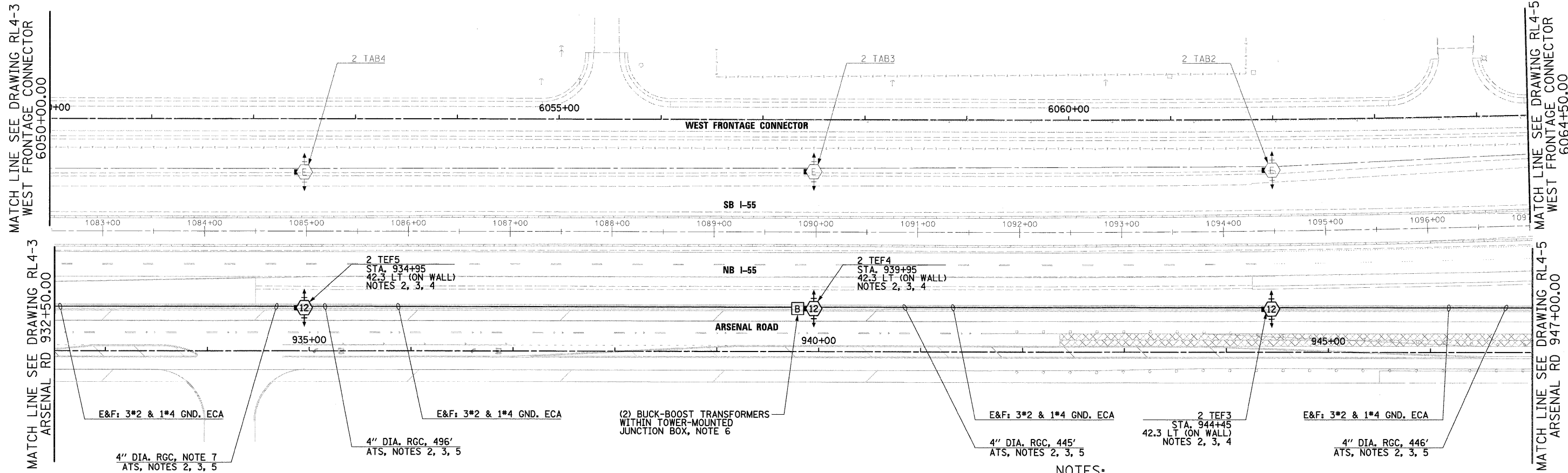
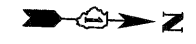
FILE NAME = 0160F12-SHT-RL4-3.dgn	USER NAME = TKluegel	DESIGNED - JLW	REVISED -
PLOT SCALE = 1:50	CHECKED - KMY	DRAWN - CJM	REVISED -
PLOT DATE = 2/3/2011	DATE - 2/4/11	CHECKED - KMY	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-55 AT ARSENAL ROAD
PROPOSED ROADWAY LIGHTING PLAN-STAGE 4**

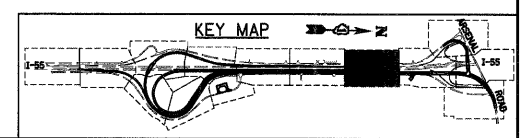
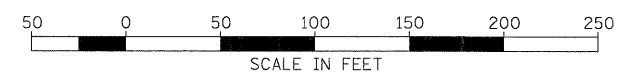
SCALE: 1" = 50' SHEET NO. 3 OF 8 SHEETS STA. TO STA.

F.A.I. RTE. 55	SECTION 99-2HB-2B-1	COUNTY WILL	TOTAL SHEETS 756	SHEET NO. 384
CONTRACT NO. 60F12				
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				



NOTES:

1. SEE DRAWING GE-1 FOR ELECTRICAL SYMBOL LIST AND ABBREVIATIONS. SEE DRAWING GE-2 FOR ELECTRICAL GENERAL NOTES AND SUGGESTED LIGHTING PHASING NOTES.
2. SEE DRAWINGS RL2-10 AND RL3-7 FOR ADDITIONAL WORK ASSOCIATED WITH WALL MOUNTED LIGHT TOWER FOUNDATIONS AND CONDUIT INSTALLATION.
3. SEE DRAWINGS S-1 AND ED-1 FOR HIGH MAST LIGHT TOWER FOUNDATIONS INTEGRAL WITH RETAINING WALL DETAILS.
4. SEE IDOT STANDARD DRAWINGS BE-505a, BE-505b, AND BE-505c FOR HIGH MAST LIGHT TOWER INSTALLATION DETAILS. THIS WORK SHALL BE INCLUDED IN "LIGHT TOWER, 120 FOOT MOUNTING HEIGHT, LUMINAIRE MT. - 12" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
5. CONDUIT PREVIOUSLY INSTALLED IN STAGE 2 AS SHOWN ON DRAWING RL2-10. NO ADDITIONAL PAYMENT WILL BE MADE.
6. BUCK-BOOST TRANSFORMERS TO BE INSTALLED AT THE DISCRETION OF THE ENGINEER. AFTER HIGH MAST LIGHT TOWERS 2 TEF5, SHOWN ON THIS DRAWING, AND 2 TEF6, 2 TEF7, AND 2 TEF8, SHOWN ON DRAWING RL4-3, ARE INSTALLED, THE CONTRACTOR SHALL TEST THE CIRCUITS BEFORE THE BUCK-BOOST TRANSFORMERS ARE INSTALLED IN CASE COMED IS PROVIDING VOLTAGE SIGNIFICANTLY HIGHER THAN EXPECTED AND THE BUCK-BOOST TRANSFORMER INSTALLATION CAN BE OMITTED. SHOULD THE ENGINEER DETERMINE THAT BUCK-BOOST TRANSFORMERS ARE REQUIRED, SEE DRAWING ED-5 FOR BUCK-BOOST TRANSFORMER INSTALLATION DETAILS. TESTING OF THE CIRCUITS TO DETERMINE IF BUCK-BOOST TRANSFORMERS ARE NECESSARY SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE APPLICABLE CABLE PAY ITEM. IF BUCK-BOOST TRANSFORMERS ARE REQUIRED, THE BUCK-BOOST TRANSFORMER, OVERCURRENT PROTECTION DEVICES, ENCLOSURE, MOUNTING HARDWARE, WIRING AND ALL INCIDENTALS NECESSARY FOR A COMPLETE AND FUNCTIONAL INSTALLATION SHALL BE INCLUDED IN THE "BUCK-BOOST TRANSFORMER, 1.5KVA, 240V PRIMARY, 24V SECONDARY" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
7. LENGTH NOT SHOWN. SEE DRAWING RL4-3 FOR RUN LENGTH.
8. INDICATES TEMPORARY PAVEMENT INSTALLATION LIMITS. SEE MAINTENANCE OF TRAFFIC DRAWINGS FOR CONSTRUCTION STAGING INFORMATION.



McDonough Associates Inc.
 Engineers/Architects
 130 East Randolph Street Chicago, Illinois 60601

FILE NAME = D:\168F12-SHT-RL4-4.dgn	USER NAME = TK1uegel	DESIGNED - JLW	REVISED -
PLOT SCALE = 1:50	CHECKED - KMY	DRAWN - CJM	REVISED -
PLOT DATE = 2/3/2011	DATE - 2/4/11		REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-55 AT ARSENAL ROAD
PROPOSED ROADWAY LIGHTING PLAN-STAGE 4

SCALE: 1" = 50' SHEET NO. 4 OF 8 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-2B-1	WILL	756	385
CONTRACT NO. 60F12				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

NOTES:

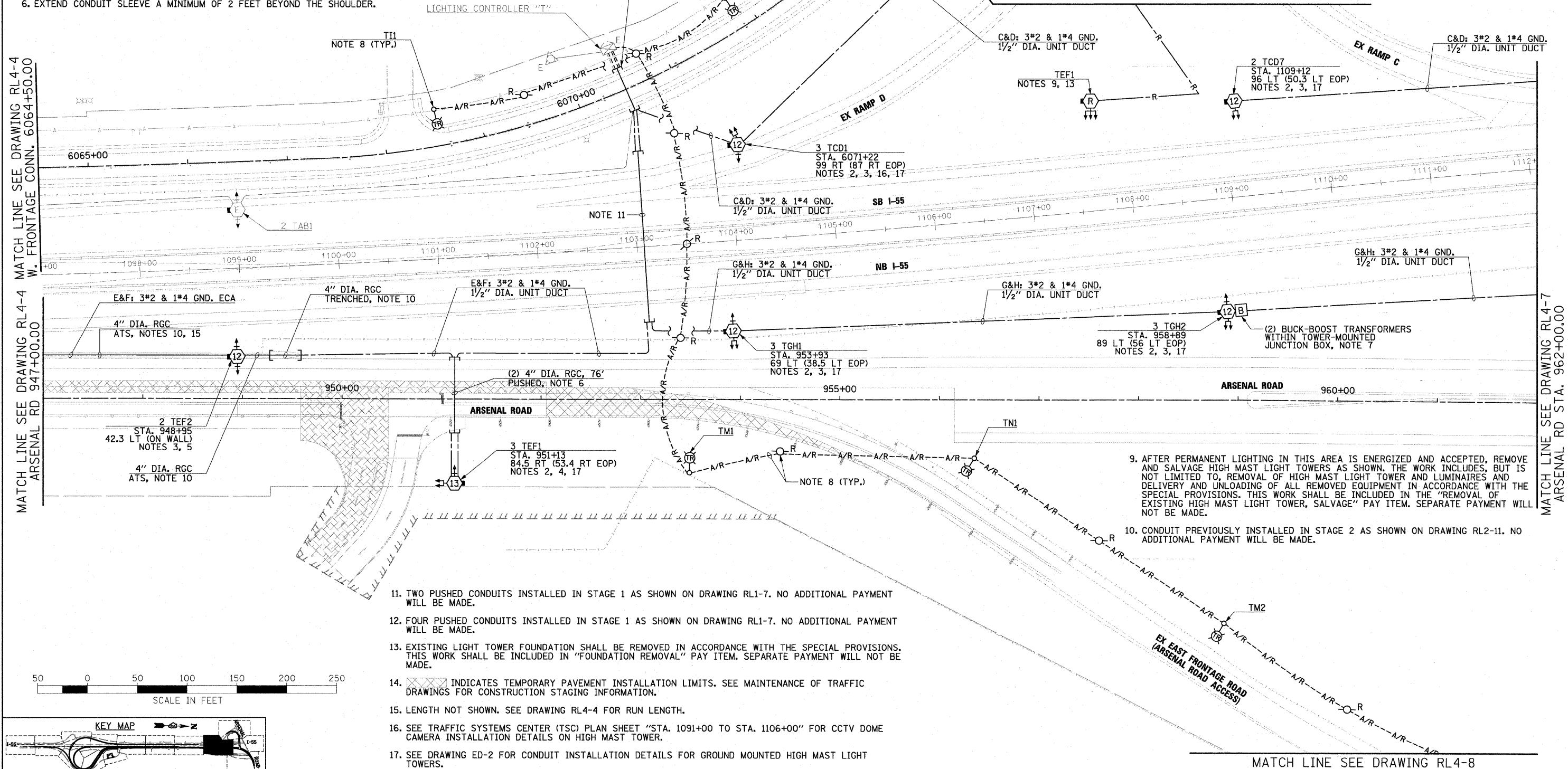
- SEE DRAWING GE-1 FOR ELECTRICAL SYMBOL LIST AND ABBREVIATIONS. SEE DRAWING GE-2 FOR ELECTRICAL GENERAL NOTES AND SUGGESTED LIGHTING PHASING NOTES.
- FURNISH AND INSTALL HIGH MAST LIGHT TOWER FOUNDATIONS SHOWN. INCLUDE GROUND WELLS, GROUND RODS, GROUND WIRE, ANCHOR BOLTS, AND LIGHT TOWER SERVICE PAD. SEE DRAWINGS S-2 THROUGH S-5, AND ED-9 FOR HIGH MAST LIGHT TOWER FOUNDATION DETAILS. EXCEPT FOR THE LIGHT TOWER SERVICE PAD, THIS WORK SHALL BE INCLUDED IN THE "LIGHT TOWER FOUNDATION, 54" DIAMETER" PAY ITEM.
- SEE IDOT STANDARD DRAWINGS BE-505a, BE-505b, AND BE-505c FOR HIGH MAST LIGHT TOWER INSTALLATION DETAILS. THIS WORK SHALL BE INCLUDED IN "LIGHT TOWER, 120 FOOT MOUNTING HEIGHT, LUMINAIRE MT. - 12" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
- SEE IDOT STANDARD DRAWINGS BE-505a, BE-505b, AND BE-505c FOR HIGH MAST LIGHT TOWER INSTALLATION DETAILS. THIS WORK SHALL BE INCLUDED IN "LIGHT TOWER, 130 FOOT MOUNTING HEIGHT, LUMINAIRE MT. - 12" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
- SEE DRAWINGS RL2-11 AND RL3-8 FOR ADDITIONAL WORK ASSOCIATED WITH WALL MOUNTED LIGHT TOWER FOUNDATIONS AND CONDUIT INSTALLATION.
- EXTEND CONDUIT SLEEVE A MINIMUM OF 2 FEET BEYOND THE SHOULDER.

- BUCK-BOOST TRANSFORMERS TO BE INSTALLED AT THE DISCRETION OF THE ENGINEER. AFTER HIGH MAST LIGHT TOWERS 4 TGH3, 3 TGH4, 2 TGH5, AND 2 TGH6, SHOWN ON DRAWING RL4-7, AND 2 TGH7, 2 TGH8, AND 2 TGH9, SHOWN ON DRAWING RL4-8, ARE INSTALLED, THE CONTRACTOR SHALL TEST THE CIRCUITS BEFORE THE BUCK-BOOST TRANSFORMERS ARE INSTALLED IN CASE COMED IS PROVIDING VOLTAGE SIGNIFICANTLY HIGHER THAN EXPECTED AND THE BUCK-BOOST TRANSFORMER INSTALLATION CAN BE OMITTED. SHOULD THE ENGINEER DETERMINE THAT BUCK-BOOST TRANSFORMERS ARE REQUIRED, SEE DRAWING ED-5 FOR BUCK-BOOST TRANSFORMER INSTALLATION DETAILS. TESTING OF THE CIRCUITS TO DETERMINE IF BUCK-BOOST TRANSFORMERS ARE NECESSARY SHALL BE CONSIDERED INCIDENTAL TO THE COST OF RELATED CABLE PAY ITEM. IF BUCK-BOOST TRANSFORMERS ARE REQUIRED, THE BUCK-BOOST TRANSFORMER, OVERCURRENT PROTECTION DEVICES, ENCLOSURE, WIRING, AND ALL INCIDENTALS NECESSARY FOR A COMPLETE AND FUNCTIONAL INSTALLATION SHALL BE INCLUDED IN THE "BUCK-BOOST TRANSFORMER, 1.5KVA, 240V PRIMARY, 24V SECONDARY" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
- AFTER PERMANENT LIGHTING IN THIS AREA IS ENERGIZED AND ACCEPTED, DISCONNECT AND REMOVE THE TEMPORARY LIGHTING SYSTEM SHOWN. THE WORK INCLUDES, BUT IS NOT LIMITED TO, REMOVAL OF AERIAL CABLES, ALL TEMPORARY POLES, ALL MAST ARMS, LUMINAIRE MOUNTING BRACKETS AND ALL LUMINAIRES. THIS WORK SHALL BE INCLUDED IN THE "REMOVAL OF LIGHTING UNIT, SALVAGE" PAY ITEM. REMOVAL OF WOOD LIGHT POLE FOUNDATION WILL BE PAID SEPARATELY UNDER "REMOVAL OF POLE FOUNDATION" PAY ITEM.

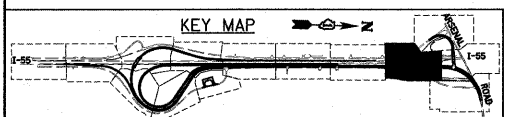
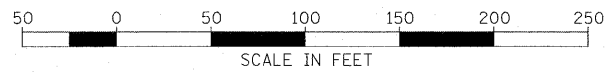
MATCH LINE SEE DRAWING RL4-4 W. FRONTAGE CONN. 6064+50.00

MATCH LINE SEE DRAWING RL4-4 ARSENAL RD 947+00.00

MATCH LINE SEE DRAWING RL4-7 ARSENAL RD STA. 962+00.00



- TWO PUSHED CONDUITS INSTALLED IN STAGE 1 AS SHOWN ON DRAWING RL1-7. NO ADDITIONAL PAYMENT WILL BE MADE.
- FOUR PUSHED CONDUITS INSTALLED IN STAGE 1 AS SHOWN ON DRAWING RL1-7. NO ADDITIONAL PAYMENT WILL BE MADE.
- EXISTING LIGHT TOWER FOUNDATION SHALL BE REMOVED IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THIS WORK SHALL BE INCLUDED IN "FOUNDATION REMOVAL" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
- XXXXX INDICATES TEMPORARY PAVEMENT INSTALLATION LIMITS. SEE MAINTENANCE OF TRAFFIC DRAWINGS FOR CONSTRUCTION STAGING INFORMATION.
- LENGTH NOT SHOWN. SEE DRAWING RL4-4 FOR RUN LENGTH.
- SEE TRAFFIC SYSTEMS CENTER (TSC) PLAN SHEET "STA. 1091+00 TO STA. 1106+00" FOR CCTV DOME CAMERA INSTALLATION DETAILS ON HIGH MAST TOWER.
- SEE DRAWING ED-2 FOR CONDUIT INSTALLATION DETAILS FOR GROUND MOUNTED HIGH MAST LIGHT TOWERS.



McDonough Associates Inc.
Engineers / Architects
130 East Randolph Street, Chicago, Illinois 60601

FILE NAME = D:\60F12-SHT-RL4-5.dgn	USER NAME = TK1uegel	DESIGNED - JLW	REVISED -
PLDT SCALE = 1:50	CHECKED - KMY	DRAWN - CJM	REVISED -
PLDT DATE = 3/3/2011	DATE - 2/4/11	CHECKED - KMY	REVISED -


**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

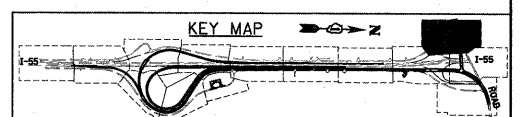
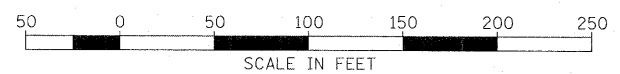
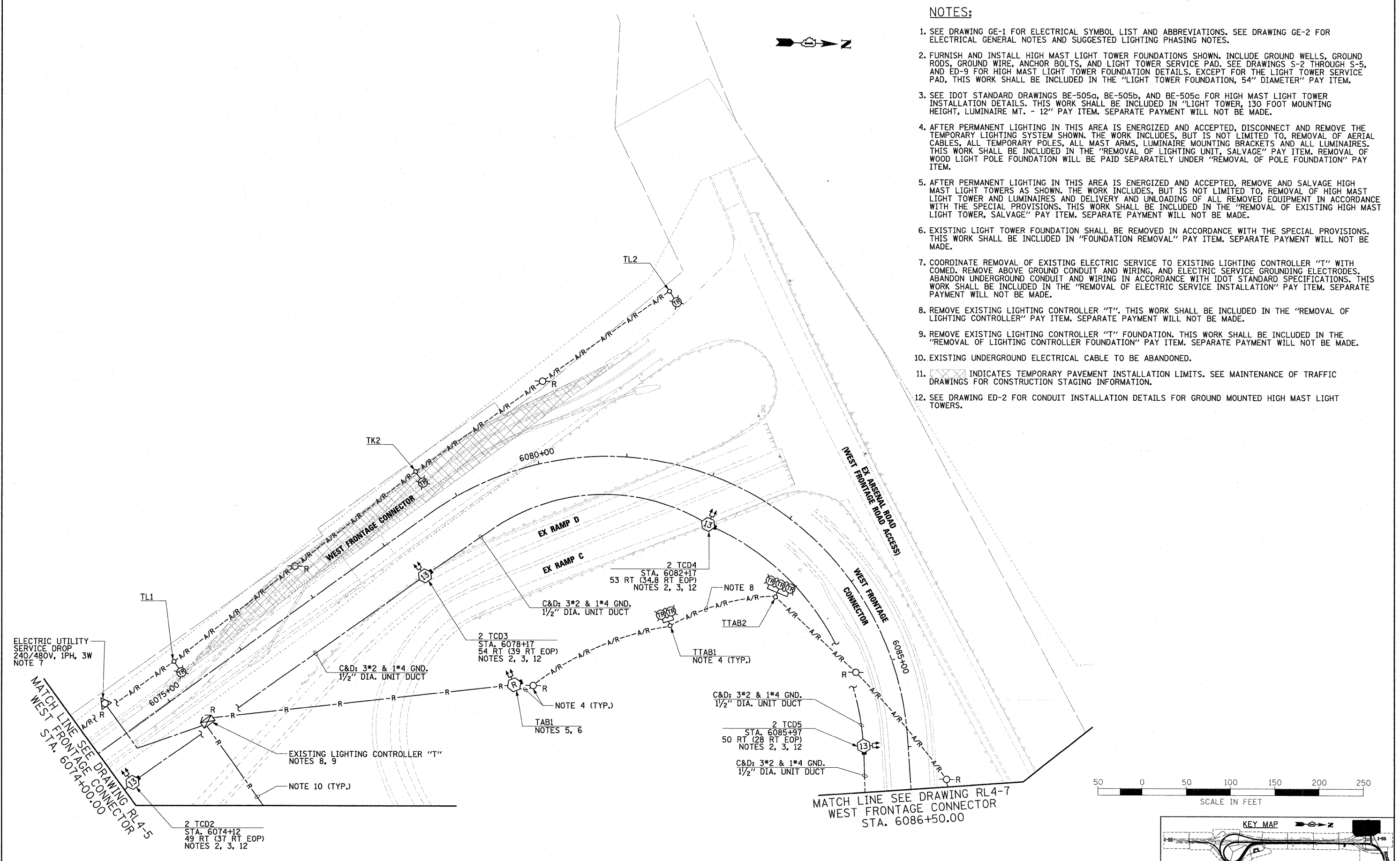
**I-55 AT ARSENAL ROAD
PROPOSED ROADWAY LIGHTING PLAN-STAGE 4**

SCALE: 1" = 50' SHEET NO. 5 OF 8 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-2B-1	WILL	756	386
CONTRACT NO. 60F12			ILLINOIS FED. AID PROJECT	

NOTES:


1. SEE DRAWING GE-1 FOR ELECTRICAL SYMBOL LIST AND ABBREVIATIONS. SEE DRAWING GE-2 FOR ELECTRICAL GENERAL NOTES AND SUGGESTED LIGHTING PHASING NOTES.
2. FURNISH AND INSTALL HIGH MAST LIGHT TOWER FOUNDATIONS SHOWN. INCLUDE GROUND WELLS, GROUND RODS, GROUND WIRE, ANCHOR BOLTS, AND LIGHT TOWER SERVICE PAD. SEE DRAWINGS S-2 THROUGH S-5, AND ED-9 FOR HIGH MAST LIGHT TOWER FOUNDATION DETAILS. EXCEPT FOR THE LIGHT TOWER SERVICE PAD, THIS WORK SHALL BE INCLUDED IN THE "LIGHT TOWER FOUNDATION, 54" DIAMETER" PAY ITEM.
3. SEE IDOT STANDARD DRAWINGS BE-505a, BE-505b, AND BE-505c FOR HIGH MAST LIGHT TOWER INSTALLATION DETAILS. THIS WORK SHALL BE INCLUDED IN "LIGHT TOWER, 130 FOOT MOUNTING HEIGHT, LUMINAIRE MT. - 12" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
4. AFTER PERMANENT LIGHTING IN THIS AREA IS ENERGIZED AND ACCEPTED, DISCONNECT AND REMOVE THE TEMPORARY LIGHTING SYSTEM SHOWN. THE WORK INCLUDES, BUT IS NOT LIMITED TO, REMOVAL OF AERIAL CABLES, ALL TEMPORARY POLES, ALL MAST ARMS, LUMINAIRE MOUNTING BRACKETS AND ALL LUMINAIRES. THIS WORK SHALL BE INCLUDED IN THE "REMOVAL OF LIGHTING UNIT, SALVAGE" PAY ITEM. REMOVAL OF WOOD LIGHT POLE FOUNDATION WILL BE PAID SEPARATELY UNDER "REMOVAL OF POLE FOUNDATION" PAY ITEM.
5. AFTER PERMANENT LIGHTING IN THIS AREA IS ENERGIZED AND ACCEPTED, REMOVE AND SALVAGE HIGH MAST LIGHT TOWERS AS SHOWN. THE WORK INCLUDES, BUT IS NOT LIMITED TO, REMOVAL OF HIGH MAST LIGHT TOWER AND LUMINAIRES AND DELIVERY AND UNLOADING OF ALL REMOVED EQUIPMENT IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THIS WORK SHALL BE INCLUDED IN THE "REMOVAL OF EXISTING HIGH MAST LIGHT TOWER, SALVAGE" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
6. EXISTING LIGHT TOWER FOUNDATION SHALL BE REMOVED IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THIS WORK SHALL BE INCLUDED IN "FOUNDATION REMOVAL" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
7. COORDINATE REMOVAL OF EXISTING ELECTRIC SERVICE TO EXISTING LIGHTING CONTROLLER "T" WITH COMED. REMOVE ABOVE GROUND CONDUIT AND WIRING, AND ELECTRIC SERVICE GROUNDING ELECTRODES. ABANDON UNDERGROUND CONDUIT AND WIRING IN ACCORDANCE WITH IDOT STANDARD SPECIFICATIONS. THIS WORK SHALL BE INCLUDED IN THE "REMOVAL OF ELECTRIC SERVICE INSTALLATION" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
8. REMOVE EXISTING LIGHTING CONTROLLER "T". THIS WORK SHALL BE INCLUDED IN THE "REMOVAL OF LIGHTING CONTROLLER" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
9. REMOVE EXISTING LIGHTING CONTROLLER "T" FOUNDATION. THIS WORK SHALL BE INCLUDED IN THE "REMOVAL OF LIGHTING CONTROLLER FOUNDATION" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
10. EXISTING UNDERGROUND ELECTRICAL CABLE TO BE ABANDONED.
11.  INDICATES TEMPORARY PAVEMENT INSTALLATION LIMITS. SEE MAINTENANCE OF TRAFFIC DRAWINGS FOR CONSTRUCTION STAGING INFORMATION.
12. SEE DRAWING ED-2 FOR CONDUIT INSTALLATION DETAILS FOR GROUND MOUNTED HIGH MAST LIGHT TOWERS.

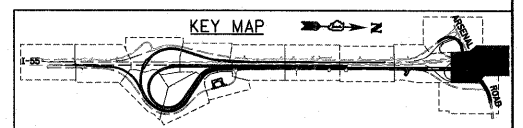
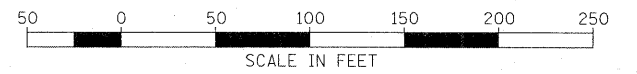
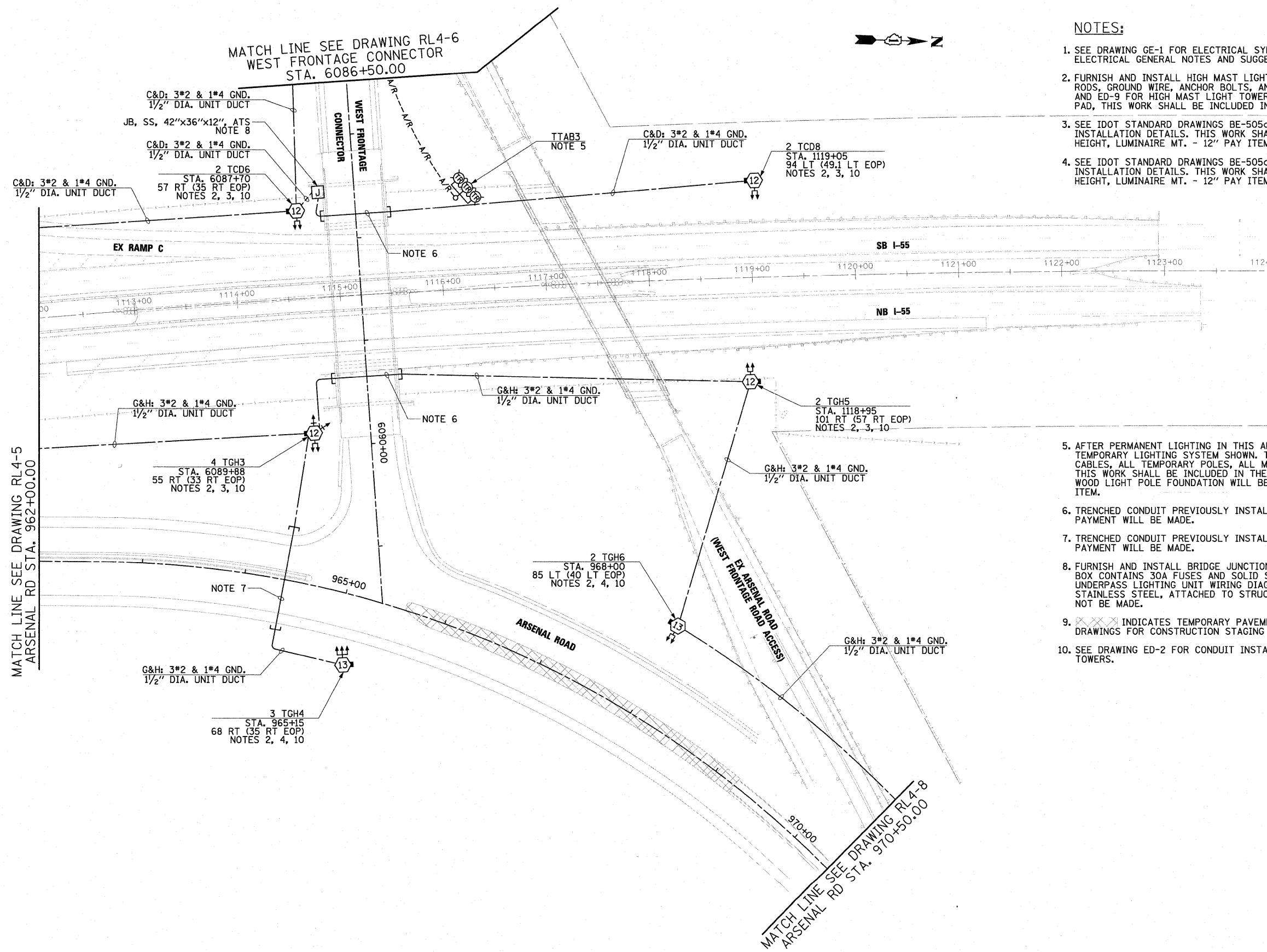


McDonough Associates Inc.
 Engineers / Architects
 130 East Randolph Street, Chicago, Illinois 60601

FILE NAME = 0162F12-SHT-RL4-6.dgn	USER NAME = TK1uege1	DESIGNED - JLW DRAWN - CJM CHECKED - KMY DATE - 2/4/11	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	I-55 AT ARSENAL ROAD PROPOSED ROADWAY LIGHTING PLAN-STAGE 4	F.A.I. RTE. 55 SECTION 99-2HB-2B-1 COUNTY WILL TOTAL SHEETS 756 SHEET NO. 387 CONTRACT NO. 60F12
SCALE: 1" = 50' SHEET NO. 6 OF 8 SHEETS STA. TO STA.				FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		

NOTES:

1. SEE DRAWING GE-1 FOR ELECTRICAL SYMBOL LIST AND ABBREVIATIONS. SEE DRAWING GE-2 FOR ELECTRICAL GENERAL NOTES AND SUGGESTED LIGHTING PHASING NOTES.
2. FURNISH AND INSTALL HIGH MAST LIGHT TOWER FOUNDATIONS SHOWN. INCLUDE GROUND WELLS, GROUND RODS, GROUND WIRE, ANCHOR BOLTS, AND LIGHT TOWER SERVICE PAD. SEE DRAWINGS S-2 THROUGH S-5, AND ED-9 FOR HIGH MAST LIGHT TOWER FOUNDATION DETAILS. EXCEPT FOR THE LIGHT TOWER SERVICE PAD, THIS WORK SHALL BE INCLUDED IN THE "LIGHT TOWER FOUNDATION, 54" DIAMETER" PAY ITEM.
3. SEE IDOT STANDARD DRAWINGS BE-505a, BE-505b, AND BE-505c FOR HIGH MAST LIGHT TOWER INSTALLATION DETAILS. THIS WORK SHALL BE INCLUDED IN "LIGHT TOWER, 120 FOOT MOUNTING HEIGHT, LUMINAIRE MT. - 12" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
4. SEE IDOT STANDARD DRAWINGS BE-505a, BE-505b, AND BE-505c FOR HIGH MAST LIGHT TOWER INSTALLATION DETAILS. THIS WORK SHALL BE INCLUDED IN "LIGHT TOWER, 130 FOOT MOUNTING HEIGHT, LUMINAIRE MT. - 12" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
5. AFTER PERMANENT LIGHTING IN THIS AREA IS ENERGIZED AND ACCEPTED, DISCONNECT AND REMOVE THE TEMPORARY LIGHTING SYSTEM SHOWN. THE WORK INCLUDES, BUT IS NOT LIMITED TO, REMOVAL OF AERIAL CABLES, ALL TEMPORARY POLES, ALL MAST ARMS, LUMINAIRE MOUNTING BRACKETS AND ALL LUMINAIRES. THIS WORK SHALL BE INCLUDED IN THE "REMOVAL OF LIGHTING UNIT, SALVAGE" PAY ITEM. REMOVAL OF WOOD LIGHT POLE FOUNDATION WILL BE PAID SEPARATELY UNDER "REMOVAL OF POLE FOUNDATION" PAY ITEM.
6. TRENCHED CONDUIT PREVIOUSLY INSTALLED IN STAGE 2 AS SHOWN ON DRAWING RL2-12. NO ADDITIONAL PAYMENT WILL BE MADE.
7. TRENCHED CONDUIT PREVIOUSLY INSTALLED IN STAGE 3 AS SHOWN ON DRAWING RL3-8. NO ADDITIONAL PAYMENT WILL BE MADE.
8. FURNISH AND INSTALL BRIDGE JUNCTION BOX. SEE DRAWING ED-4 FOR INSTALLATION DETAILS. JUNCTION BOX CONTAINS 30A FUSES AND SOLID SLUG FOR NEUTRAL CONDUCTOR. SEE DRAWING UL-1 FOR TYPICAL UNDERPASS LIGHTING UNIT WIRING DIAGRAM. THIS WORK SHALL BE INCLUDED IN THE "JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 42" X 36" X 12" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
9.  INDICATES TEMPORARY PAVEMENT INSTALLATION LIMITS. SEE MAINTENANCE OF TRAFFIC DRAWINGS FOR CONSTRUCTION STAGING INFORMATION.
10. SEE DRAWING ED-2 FOR CONDUIT INSTALLATION DETAILS FOR GROUND MOUNTED HIGH MAST LIGHT TOWERS.



McDonough Associates Inc.
 Engineers / Architects
 130 East Randolph Street, Chicago, Illinois 60601

FILE NAME = D:\60\F12-SHT-RL4-7.dgn
 USER NAME = TK1uegel
 DESIGNED - JLW
 DRAWN - CJM
 CHECKED - KMY
 DATE - 2/4/11

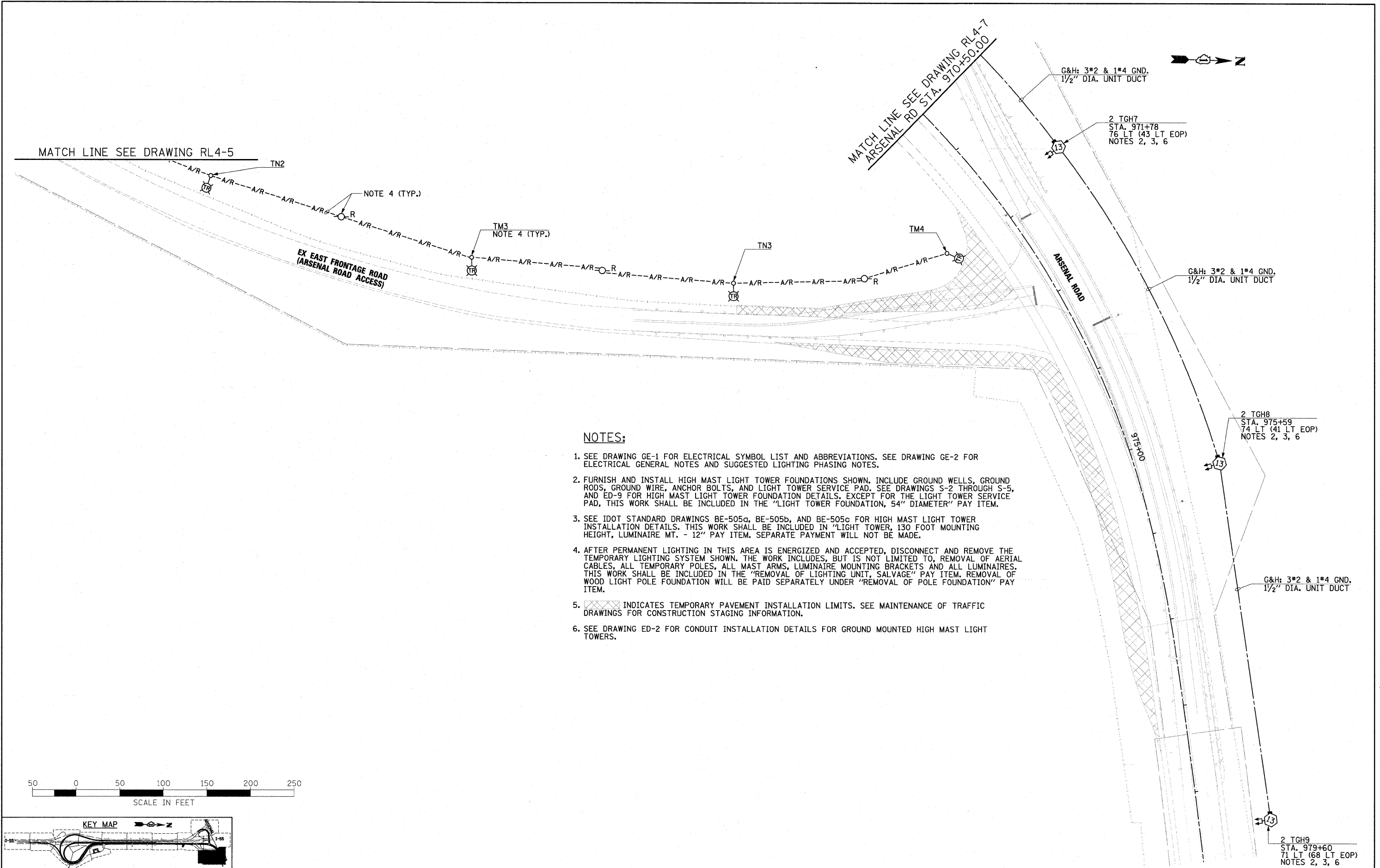
REVISIONS:
 REVISION NO. | DATE | BY | DESCRIPTION
 1 | | | |
 2 | | | |
 3 | | | |
 4 | | | |
 5 | | | |
 6 | | | |
 7 | | | |
 8 | | | |
 9 | | | |
 10 | | | |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-55 AT ARSENAL ROAD
PROPOSED ROADWAY LIGHTING PLAN-STAGE 4

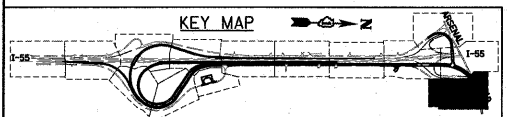
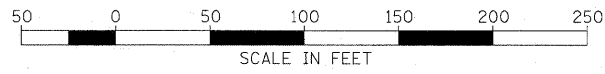
SCALE: 1" = 50' SHEET NO. 7 OF 8 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-28-1	WILL	756	388
CONTRACT NO. 60F12				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NOTES:

1. SEE DRAWING GE-1 FOR ELECTRICAL SYMBOL LIST AND ABBREVIATIONS. SEE DRAWING GE-2 FOR ELECTRICAL GENERAL NOTES AND SUGGESTED LIGHTING PHASING NOTES.
2. FURNISH AND INSTALL HIGH MAST LIGHT TOWER FOUNDATIONS SHOWN. INCLUDE GROUND WELLS, GROUND RODS, GROUND WIRE, ANCHOR BOLTS, AND LIGHT TOWER SERVICE PAD. SEE DRAWINGS S-2 THROUGH S-5, AND ED-9 FOR HIGH MAST LIGHT TOWER FOUNDATION DETAILS. EXCEPT FOR THE LIGHT TOWER SERVICE PAD, THIS WORK SHALL BE INCLUDED IN THE "LIGHT TOWER FOUNDATION, 54" DIAMETER" PAY ITEM.
3. SEE IDOT STANDARD DRAWINGS BE-505a, BE-505b, AND BE-505c FOR HIGH MAST LIGHT TOWER INSTALLATION DETAILS. THIS WORK SHALL BE INCLUDED IN "LIGHT TOWER, 130 FOOT MOUNTING HEIGHT, LUMINAIRE MT. - 12" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
4. AFTER PERMANENT LIGHTING IN THIS AREA IS ENERGIZED AND ACCEPTED, DISCONNECT AND REMOVE THE TEMPORARY LIGHTING SYSTEM SHOWN. THE WORK INCLUDES, BUT IS NOT LIMITED TO, REMOVAL OF AERIAL CABLES, ALL TEMPORARY POLES, ALL MAST ARMS, LUMINAIRE MOUNTING BRACKETS AND ALL LUMINAIRES. THIS WORK SHALL BE INCLUDED IN THE "REMOVAL OF LIGHTING UNIT, SALVAGE" PAY ITEM. REMOVAL OF WOOD LIGHT POLE FOUNDATION WILL BE PAID SEPARATELY UNDER "REMOVAL OF POLE FOUNDATION" PAY ITEM.
5. INDICATES TEMPORARY PAVEMENT INSTALLATION LIMITS. SEE MAINTENANCE OF TRAFFIC DRAWINGS FOR CONSTRUCTION STAGING INFORMATION.
6. SEE DRAWING ED-2 FOR CONDUIT INSTALLATION DETAILS FOR GROUND MOUNTED HIGH MAST LIGHT TOWERS.



McDonough Associates Inc.
 Engineers / Architects
 130 East Randolph Street, Chicago, Illinois 60601

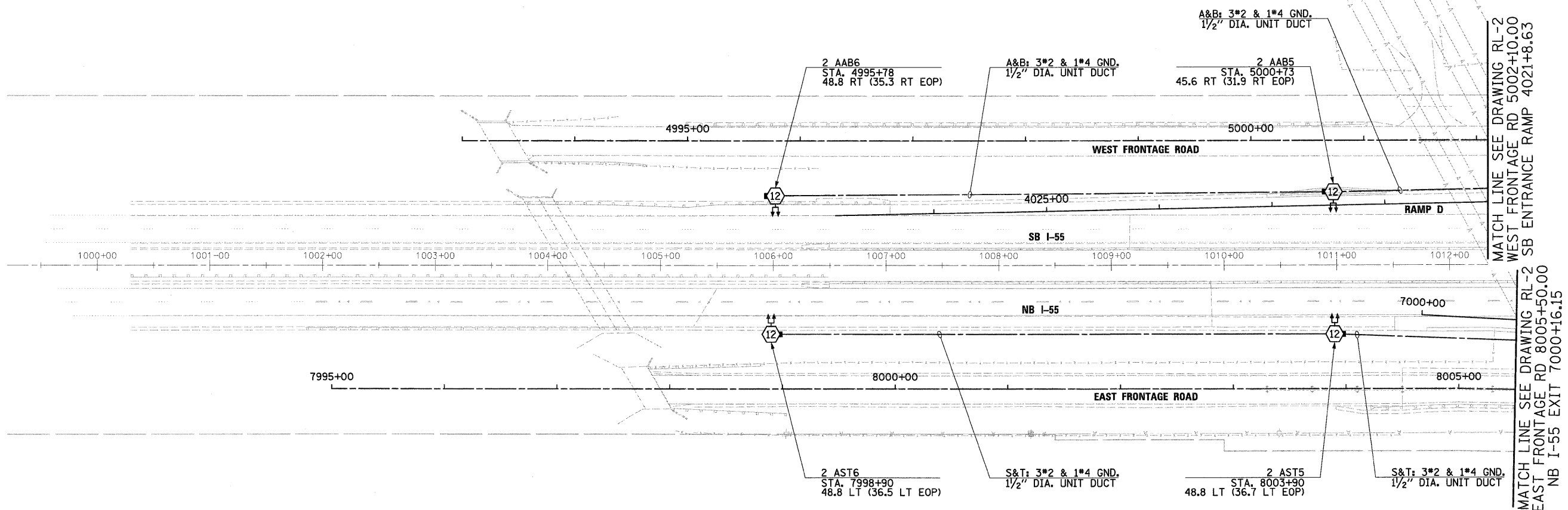
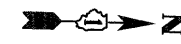
FILE NAME = D:\60F12-SHT-RL4-8.dgn	USER NAME = TK1uegel	DESIGNED - JLW	REVISED -
PLOT SCALE = 1/4"=1'		DRAWN - CJM	REVISED -
PLOT DATE = 3/3/2011		CHECKED - KMY	REVISED -
		DATE - 2/4/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-55 AT ARSENAL ROAD
PROPOSED ROADWAY LIGHTING PLAN-STAGE 4

F.A.T. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-2B-1	WILL	756	389
CONTRACT NO. 60F12				

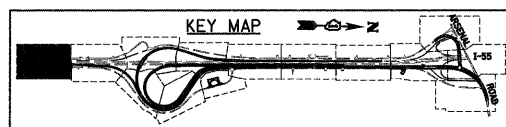
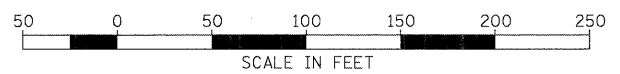
SCALE: 1" = 50' SHEET NO. 8 OF 8 SHEETS STA. TO STA. FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT



MATCH LINE SEE DRAWING RL-2
 WEST FRONTAGE RD 5002+10.00
 SB ENTRANCE RAMP 4021+8.63
 MATCH LINE SEE DRAWING RL-2
 EAST FRONTAGE RD 8005+50.00
 NB I-55 EXIT 7000+16.15

NOTES:

1. SEE DRAWING GE-1 FOR ELECTRICAL SYMBOL LIST AND ABBREVIATIONS.
2. SEE DRAWING S-3 FOR HIGH MAST LIGHT TOWER FOUNDATION TABLE.



McDonough Associates Inc.
 Engineers / Architects
 130 East Randolph Street Chicago, Illinois 60601

FILE NAME = D168F12-SHT-RL-1.dgn	USER NAME = TKluegel	DESIGNED - JLW	REVISED -
		DRAWN - CJM	REVISED -
		CHECKED - KMY	REVISED -
		DATE - 2/4/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-55 AT ARSENAL ROAD
PROPOSED ROADWAY LIGHTING PLAN FINAL CONDITIONS

SCALE: 1" = 50' SHEET NO. 1 OF 14 SHEETS STA. TO STA.

F.A.I. RTE. 55	SECTION 99-2HB-2B-1	COUNTY WILL	TOTAL SHEETS 756	SHEET NO. 390
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60F12	



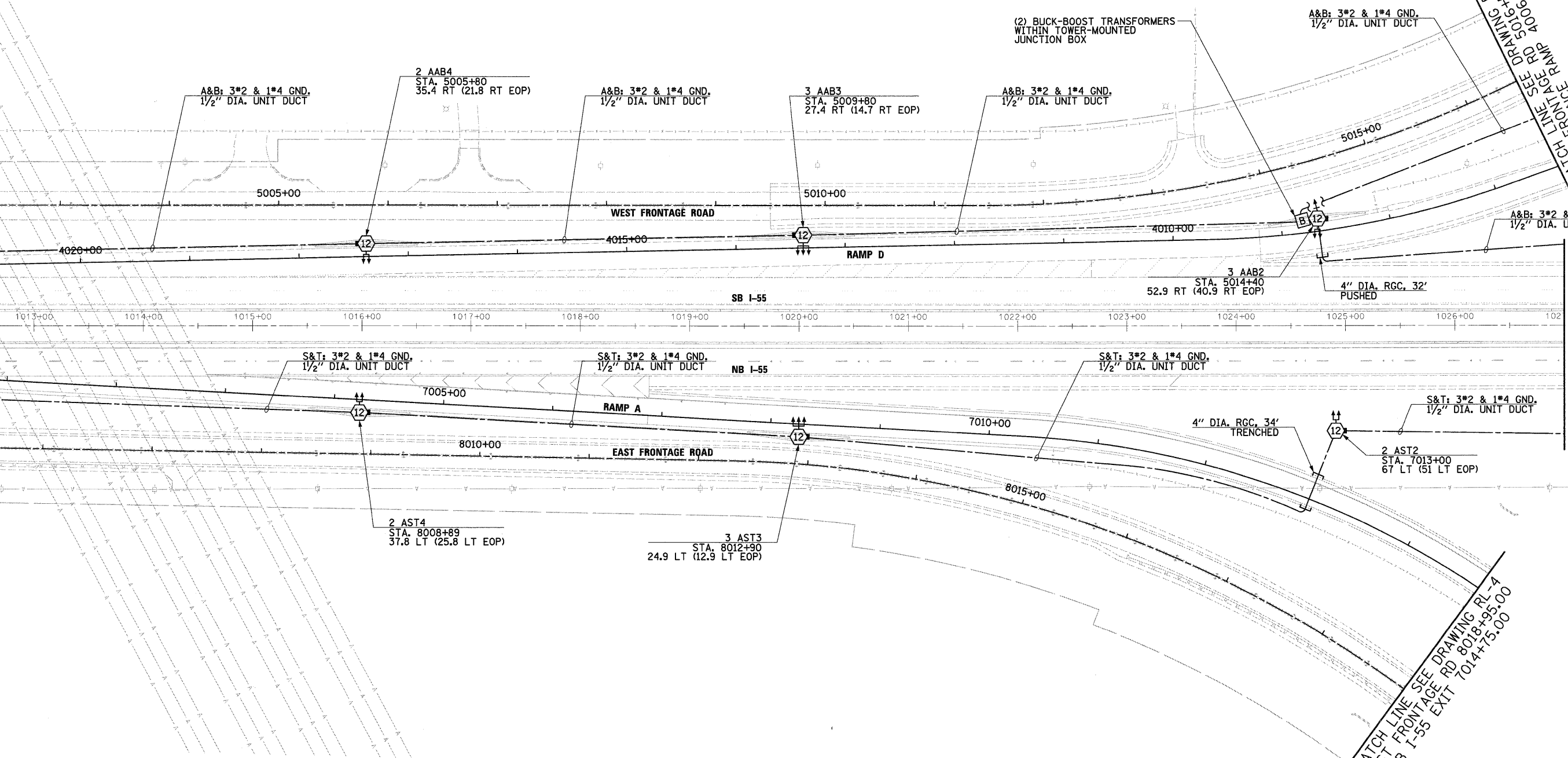
MATCH LINE SEE DRAWING RL-1
WEST FRONTAGE RD 5002+10.00
SB ENTRANCE RAMP 4021+8.63

MATCH LINE SEE DRAWING RL-1
EAST FRONTAGE RD 8005+50.00
NB I-55 EXIT 7000+16.15

MATCH LINE SEE DRAWING RL-2
SB ENTRANCE RAMP 4006+38.90
WEST FRONTAGE RD 5016+50.00

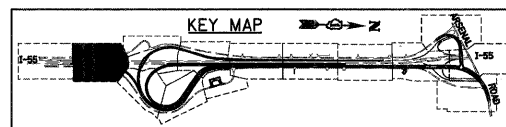
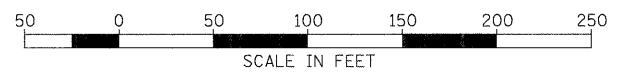
MATCH LINE SEE DRAWING RL-3
I-55 1027+00.00

MATCH LINE SEE DRAWING RL-4
EAST FRONTAGE RD 8018+95.00
NB I-55 EXIT 7014+75.00



NOTES:

1. SEE DRAWING GE-1 FOR ELECTRICAL SYMBOL LIST AND ABBREVIATIONS.
2. SEE DRAWING S-3 FOR HIGH MAST LIGHT TOWER FOUNDATION TABLE.

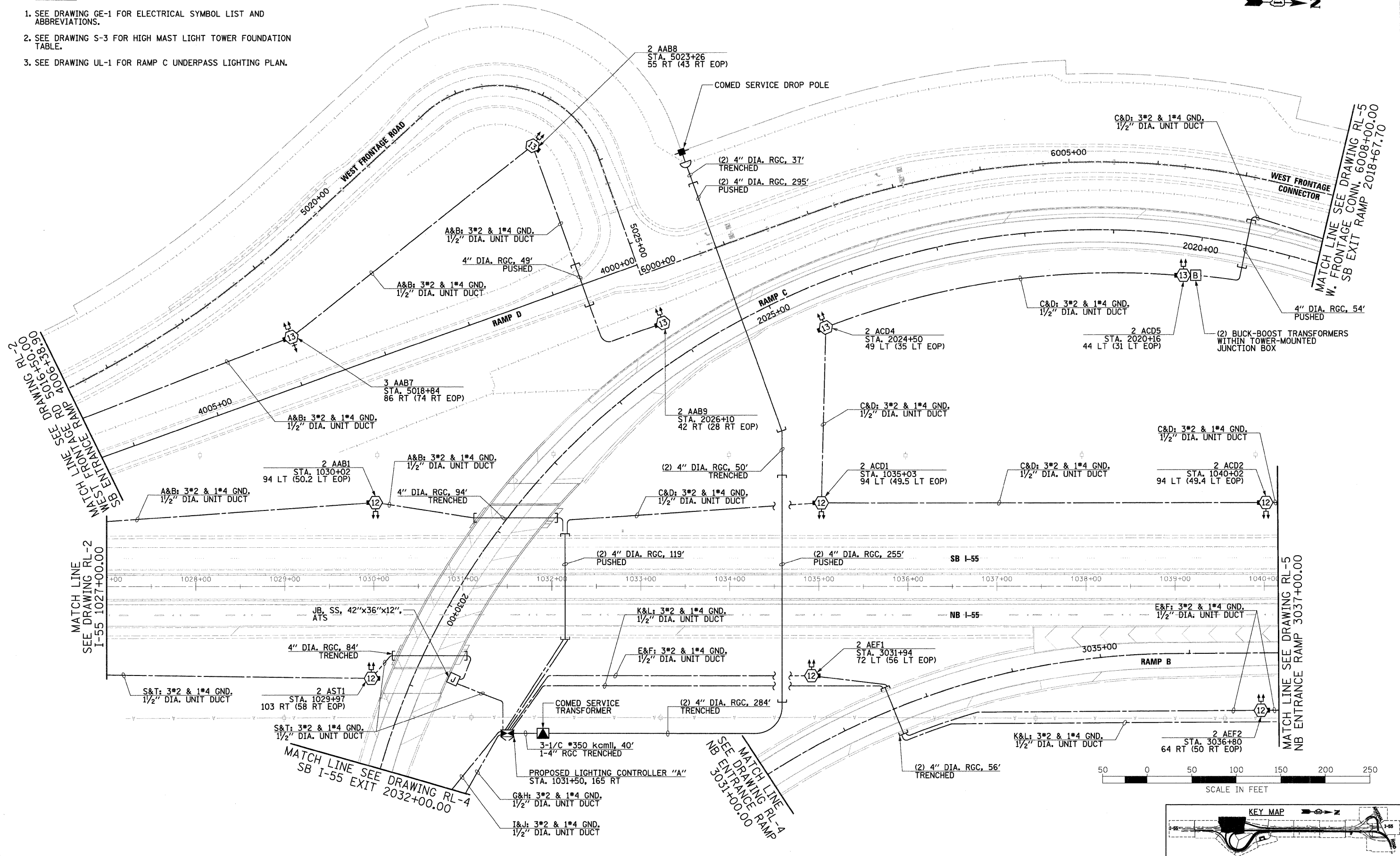
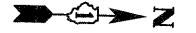


McDonough Associates Inc.
 Engineers / Architects
 130 East Randolph Street, Chicago, Illinois 60601

FILE NAME = D:\B\F12-SHT-RL-2.dgn	USER NAME = TKLuegel	DESIGNED - JLW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	I-55 AT ARSENAL ROAD PROPOSED ROADWAY LIGHTING PLAN FINAL CONDITIONS		F.A.I. RTE. 55	SECTION 99-2HB-2B-1	COUNTY WILL	TOTAL SHEETS 756	SHEET NO. 391	
	PLOT SCALE = 1:50	DRAWN - CJM	REVISED -		SCALE: 1" = 50'	SHEET NO. 2 OF 14 SHEETS	STA.	TO STA.	CONTRACT NO. 60F12			
	PLOT DATE = 2/3/2011	CHECKED - KMY	REVISED -						ILLINOIS FED. AID PROJECT			
		DATE - 2/4/11	REVISED -									

NOTES:

1. SEE DRAWING GE-1 FOR ELECTRICAL SYMBOL LIST AND ABBREVIATIONS.
2. SEE DRAWING S-3 FOR HIGH MAST LIGHT TOWER FOUNDATION TABLE.
3. SEE DRAWING UL-1 FOR RAMP C UNDERPASS LIGHTING PLAN.



MATCH LINE SEE DRAWING RL-2
SB ENTRANCE RAMP RD 5016+50.00
4006+38.90

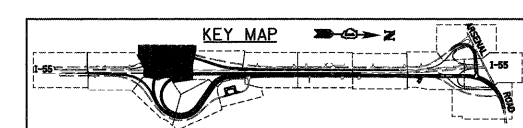
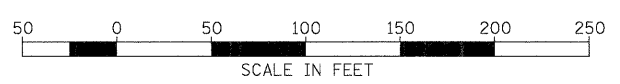
MATCH LINE SEE DRAWING RL-2
I-55 1027+00.00

MATCH LINE SEE DRAWING RL-4
SB I-55 EXIT 2032+00.00

MATCH LINE SEE DRAWING RL-4
NB ENTRANCE RAMP
3031+00.00

MATCH LINE SEE DRAWING RL-5
W. FRONTAGE CONN. 6008+00.00
SB EXIT RAMP 2018+67.70

MATCH LINE SEE DRAWING RL-5
NB ENTRANCE RAMP 3037+00.00

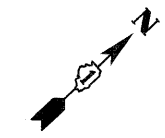


McDonough Associates Inc.
 Engineers / Architects
 130 East Randolph Street, Chicago, Illinois 60601

FILE NAME = D160F12-SHT-RL-3.dgn	USER NAME = TKluegel	DESIGNED - JLW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	I-55 AT ARSENAL ROAD PROPOSED ROADWAY LIGHTING PLAN FINAL CONDITIONS		F.A.I. RTE. 55	SECTION 99-2HB-2B-1	COUNTY WILL	TOTAL SHEETS 756	SHEET NO. 392
PLOT SCALE = 1/8"=1'-0"	CHECKED - KMY	DATE - 2/4/11	REVISED -		SCALE: 1" = 50'	SHEET NO. 3 OF 14 SHEETS	STA. TO STA.	CONTRACT NO. 60F12		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	

NOTES:

1. SEE DRAWING GE-1 FOR ELECTRICAL SYMBOL LIST AND ABBREVIATIONS.
2. SEE DRAWING S-3 FOR HIGH MAST LIGHT TOWER FOUNDATION TABLE.

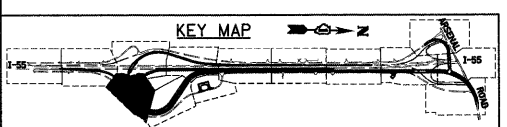
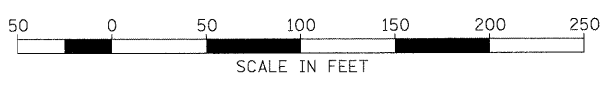
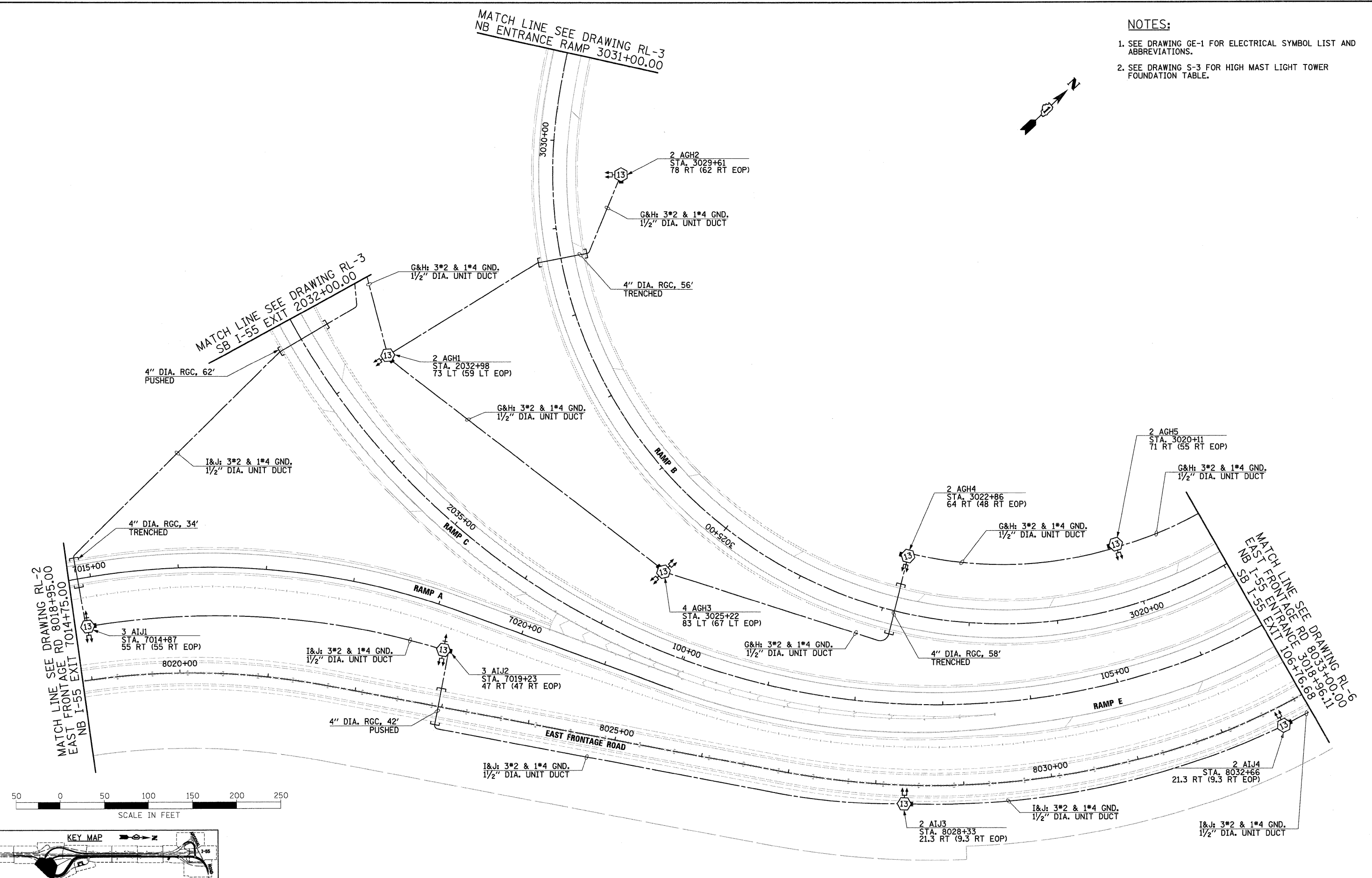


MATCH LINE SEE DRAWING RL-3
NB ENTRANCE RAMP 3031+00.00

MATCH LINE SEE DRAWING RL-3
SB I-55 EXIT 2032+00.00

MATCH LINE SEE DRAWING RL-2
EAST FRONTAGE RD 8018+95.00
NB I-55 EXIT 7014+75.00

MATCH LINE SEE DRAWING RL-6
EAST FRONTAGE RD 8035+00.00
SB I-55 ENTRANCE 3018+96.11



McDonough Associates Inc.
 Engineers / Architects
 130 East Randolph Street, Chicago, Illinois 60601

FILE NAME = D:\SHP12-SHT-RL-4.dgn	USER NAME = TKLuegl	DESIGNED - JLW	REVISED -
		DRAWN - CJM	REVISED -
	PLOT SCALE = 1:50	CHECKED - KMY	REVISED -
	PLOT DATE = 2/3/2011	DATE - 2/4/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

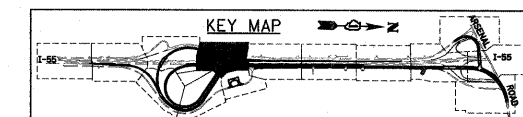
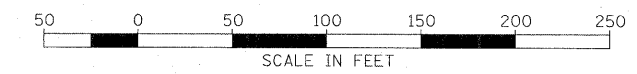
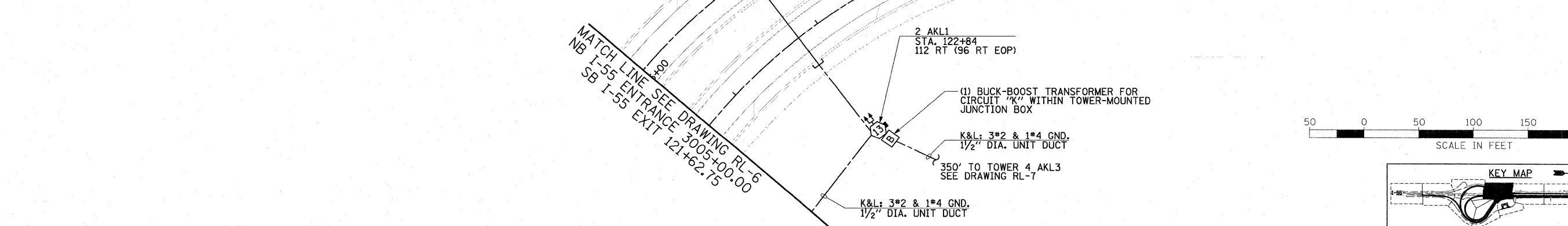
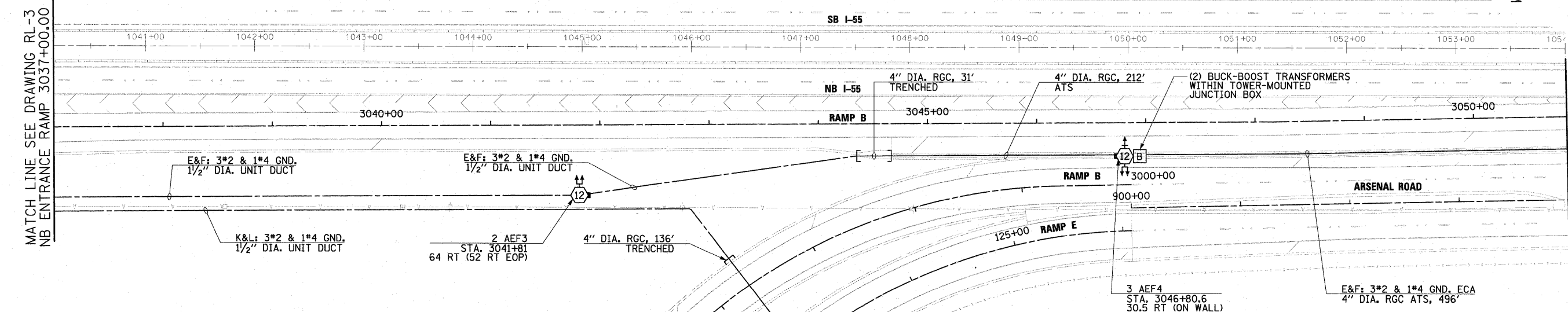
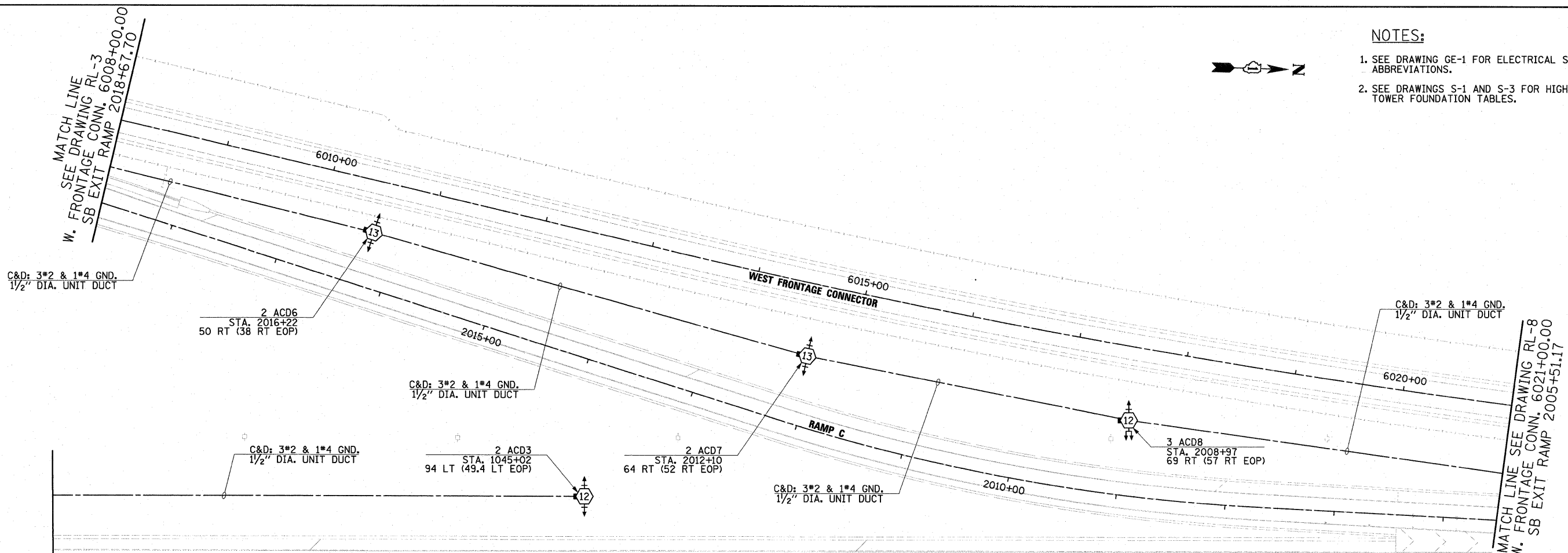
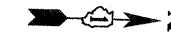
I-55 AT ARSENAL ROAD
PROPOSED ROADWAY LIGHTING PLAN FINAL CONDITIONS

SCALE: 1" = 50' SHEET NO. 4 OF 14 SHEETS STA. TO STA.

F.A.I. RTE. 55	SECTION 99-2HB-2B-1	COUNTY WILL	TOTAL SHEETS 756	SHEET NO. 393
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60F12	

NOTES:

- SEE DRAWING GE-1 FOR ELECTRICAL SYMBOL LIST AND ABBREVIATIONS.
- SEE DRAWINGS S-1 AND S-3 FOR HIGH MAST LIGHT TOWER FOUNDATION TABLES.



MATCH LINE SEE DRAWING RL-6
NB I-55 ENTRANCE 3005+00.00
SB I-55 EXIT 121+62.75

MATCH LINE SEE DRAWING RL-3
NB ENTRANCE RAMP 3037+00.00

MATCH LINE SEE DRAWING RL-8
W. FRONTAGE CONN. 6021+00.00
SB EXIT RAMP 2005+51.17

MATCH LINE SEE DRAWING RL-8
ARSENAL ROAD 904+00.00
NB ENTRANCE RAMP 3050+85.37

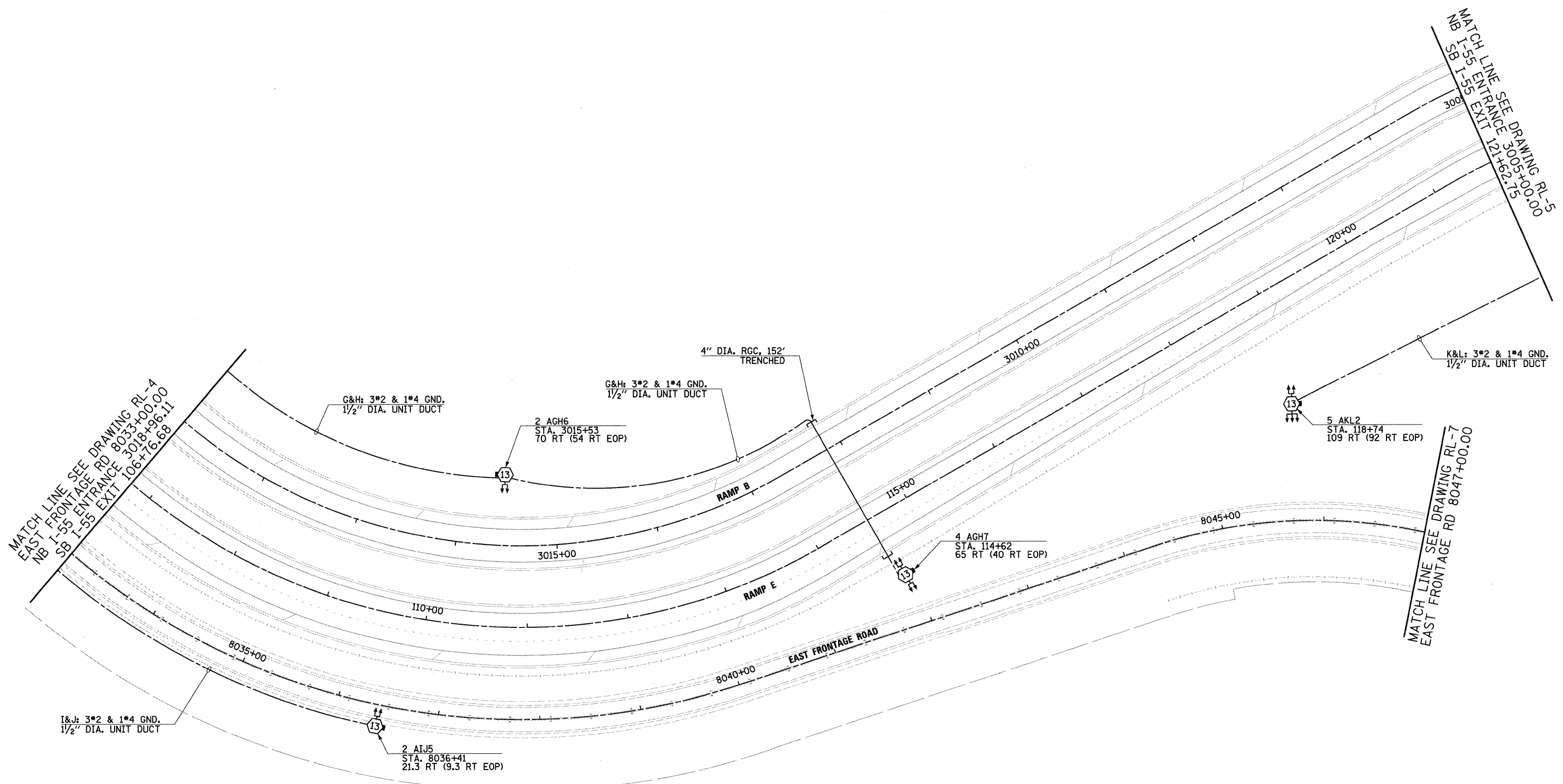
FILE NAME = D:\60F12-SHT-RL-5.dgn	USER NAME = TKluegel	DESIGNED - JLW	REVISED -
PLOT SCALE = 1/8"		DRAWN - CJM	REVISED -
PLOT DATE = 3/3/2011		CHECKED - KMY	REVISED -
		DATE - 2/4/11	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-55 AT ARSENAL ROAD
PROPOSED ROADWAY LIGHTING PLAN FINAL CONDITIONS**

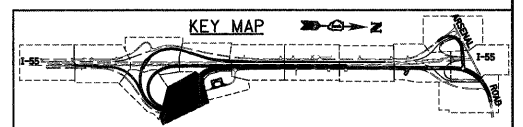
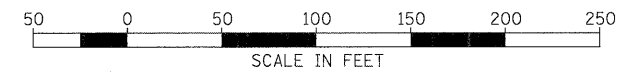
SCALE: 1" = 50' SHEET NO. 5 OF 14 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-2B-1	WILL	756	394
CONTRACT NO. 60F12				



NOTES:

- SEE DRAWING GE-1 FOR ELECTRICAL SYMBOL LIST AND ABBREVIATIONS.
- SEE DRAWING S-3 FOR HIGH MAST LIGHT TOWER FOUNDATION TABLE.



McDonough Associates Inc.
 Engineers / Architects
 130 East Randolph Street, Chicago, Illinois 60601

F.I.L.L. NAME = D160P12-SMT-RL-6.dgn	USER NAME = TK1uegel	DESIGNED - JLW	REVISED -
		DRAWN - CJM	REVISED -
	PLOT SCALE = 1:50	CHECKED - KMY	REVISED -
	PLOT DATE = 2/3/2011	DATE - 2/4/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-55 AT ARSENAL ROAD
PROPOSED ROADWAY LIGHTING PLAN FINAL CONDITIONS

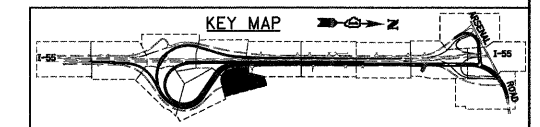
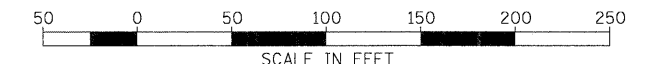
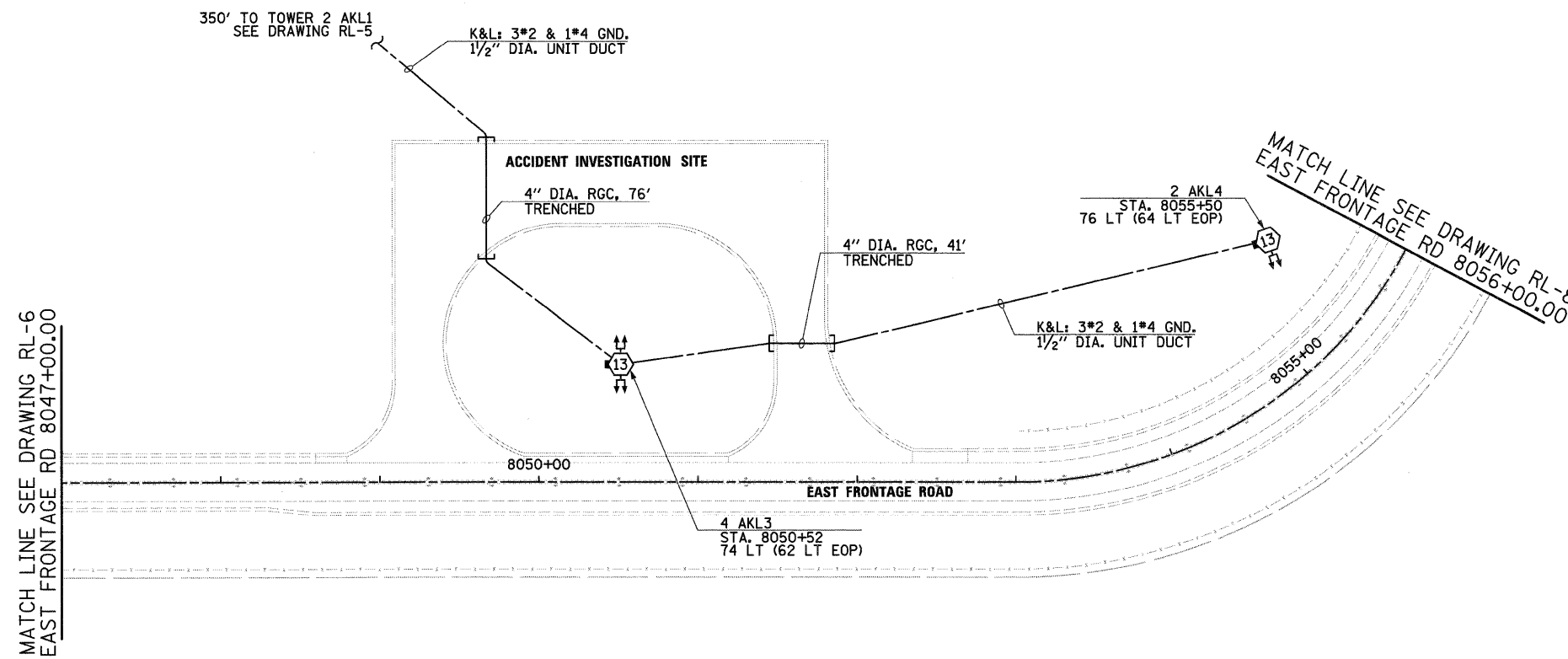
SCALE: 1" = 50' SHEET NO. 6 OF 14 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-2B-1	WILL	756	395
				CONTRACT NO. 60F12
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NOTES:

1. SEE DRAWING GE-1 FOR ELECTRICAL SYMBOL LIST AND ABBREVIATIONS.
2. SEE DRAWING S-3 FOR HIGH MAST LIGHT TOWER FOUNDATION SCHEDULE.



McDonough Associates Inc.
 Engineers / Architects
 130 East Randolph Street, Chicago, Illinois 60601

FILE NAME = D168F12-SHT-RL-7.dgn	USER NAME = TKluegel	DESIGNED - JLW	REVISED -
		DRAWN - CJM	REVISED -
		CHECKED - KMY	REVISED -
		DATE - 2/4/11	REVISED -
PLOT SCALE = 1:50			
PLOT DATE = 2/3/2011			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

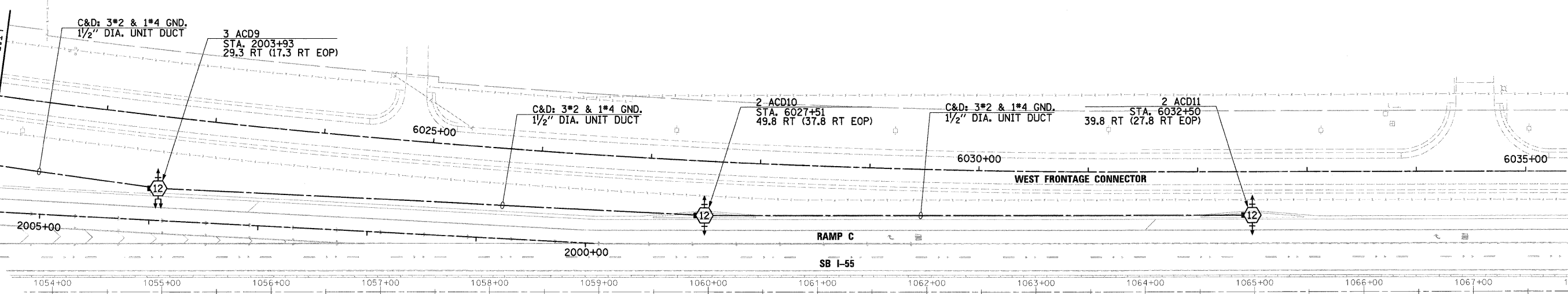
I-55 AT ARSENAL ROAD
PROPOSED ROADWAY LIGHTING PLAN FINAL CONDITIONS

SCALE: 1" = 50' SHEET NO. 7 OF 14 SHEETS STA. TO STA.

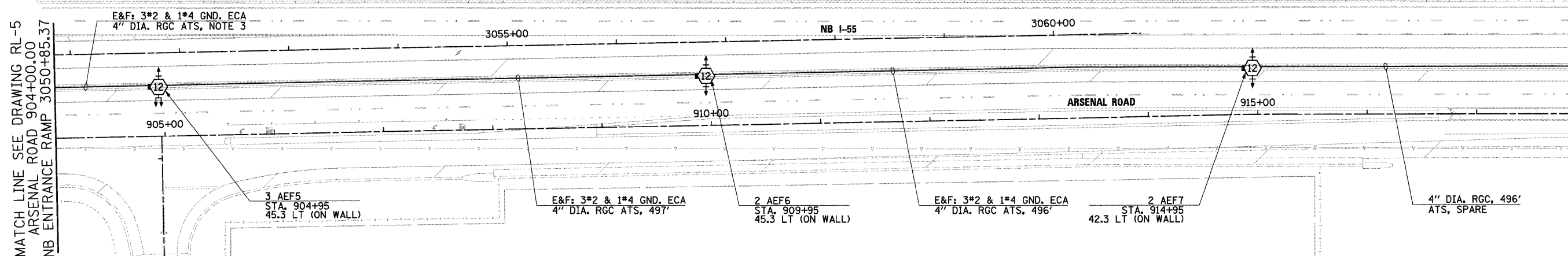
F.A.I. RTE. 55	SECTION 99-2HB-2B-1	COUNTY WILL	TOTAL SHEETS 756	SHEET NO. 396
FED. ROAD DIST. NO. 1			ILLINOIS FED. AID PROJECT	
CONTRACT NO. 60F12				



MATCH LINE SEE DRAWING RL-5
W. FRONTAGE CONN. 6021+00.00
SB EXIT RAMP 2005+51.17



MATCH LINE SEE DRAWING RL-9
WEST FRONTAGE
CONNECTOR 6035+50.00



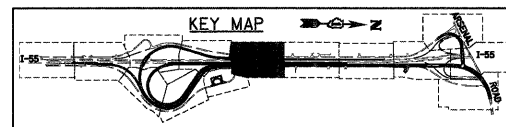
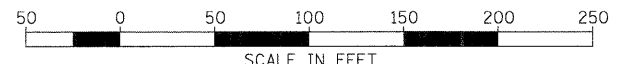
MATCH LINE SEE DRAWING RL-5
ARSENAL ROAD 904+00.00
NB ENTRANCE RAMP 3050+85.37

MATCH LINE SEE DRAWING RL-9
ARSENAL RD 918+00.00

NOTES:

1. SEE DRAWING GE-1 FOR ELECTRICAL SYMBOL LIST AND ABBREVIATIONS.
2. SEE DRAWINGS S-1 AND S-3 FOR HIGH MAST LIGHT TOWER FOUNDATION TABLES.
3. LENGTH NOT SHOWN, SEE DRAWING RL-5 FOR RUN LENGTH.

MATCH LINE SEE DRAWING RL-7
EAST FRONTAGE RD 8056+00.00



McDonough Associates Inc.
Engineers / Architects
130 East Randolph Street, Chicago, Illinois 60601

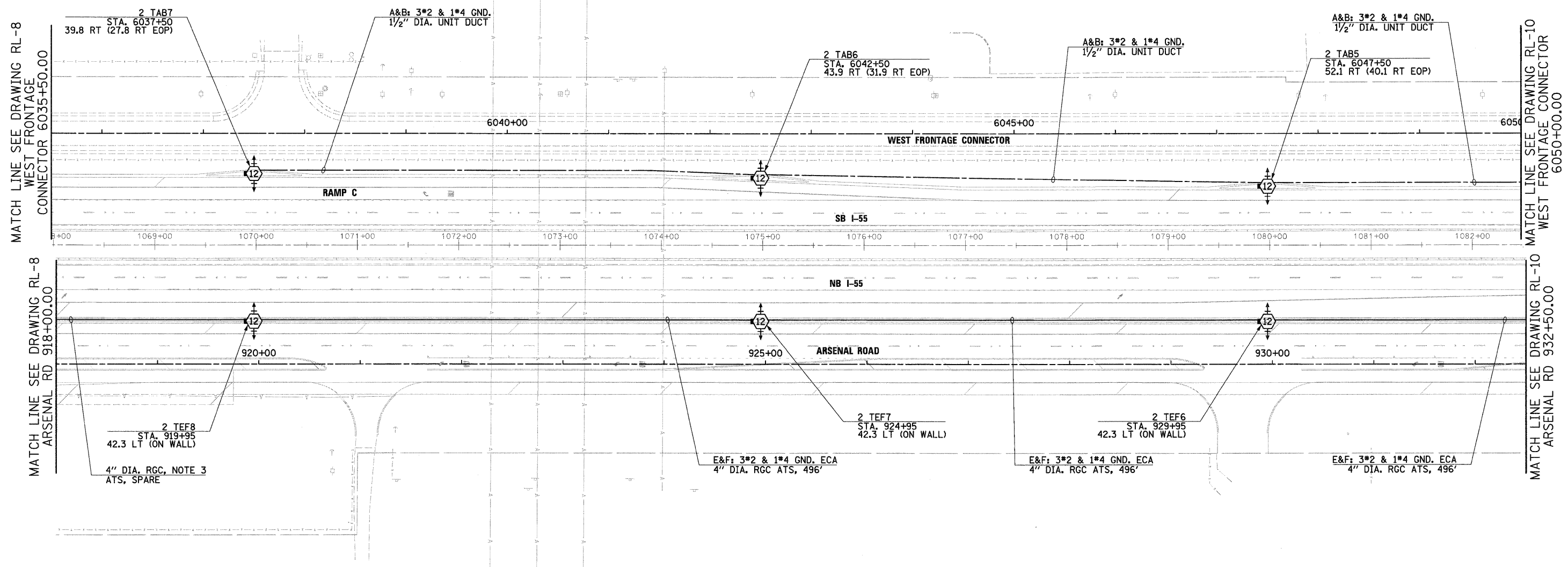
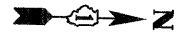
FILE NAME = D162P12-SHT-RL-8.dgn	USER NAME = TKluegel	DESIGNED - JLW	REVISED -
		DRAWN - CJM	REVISED -
	PLOT SCALE = 1:500	CHECKED - KMY	REVISED -
	PLOT DATE = 2/3/2011	DATE - 2/4/11	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-55 AT ARSENAL ROAD
PROPOSED ROADWAY LIGHTING PLAN FINAL CONDITIONS**

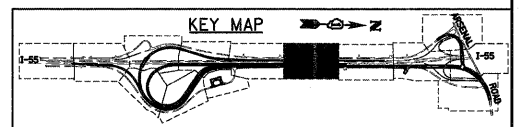
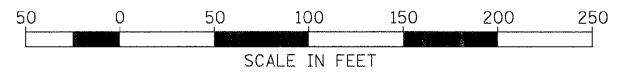
SCALE: 1" = 50' SHEET NO. 8 OF 14 SHEETS STA. TO STA.

F.A.I. RTE. 55	SECTION 99-2HB-2B-1	COUNTY WILL	TOTAL SHEETS 756	SHEET NO. 397
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60F12	



NOTES:

1. SEE DRAWING GE-1 FOR ELECTRICAL SYMBOL LIST AND ABBREVIATIONS.
2. SEE DRAWINGS S-1 AND S-3 FOR HIGH MAST LIGHT TOWER FOUNDATION TABLES.
3. LENGTH NOT SHOWN, SEE DRAWING RL-8 FOR RUN LENGTH.



McDonough Associates Inc.
 Engineers / Architects
 130 East Randolph Street, Chicago, Illinois 60601

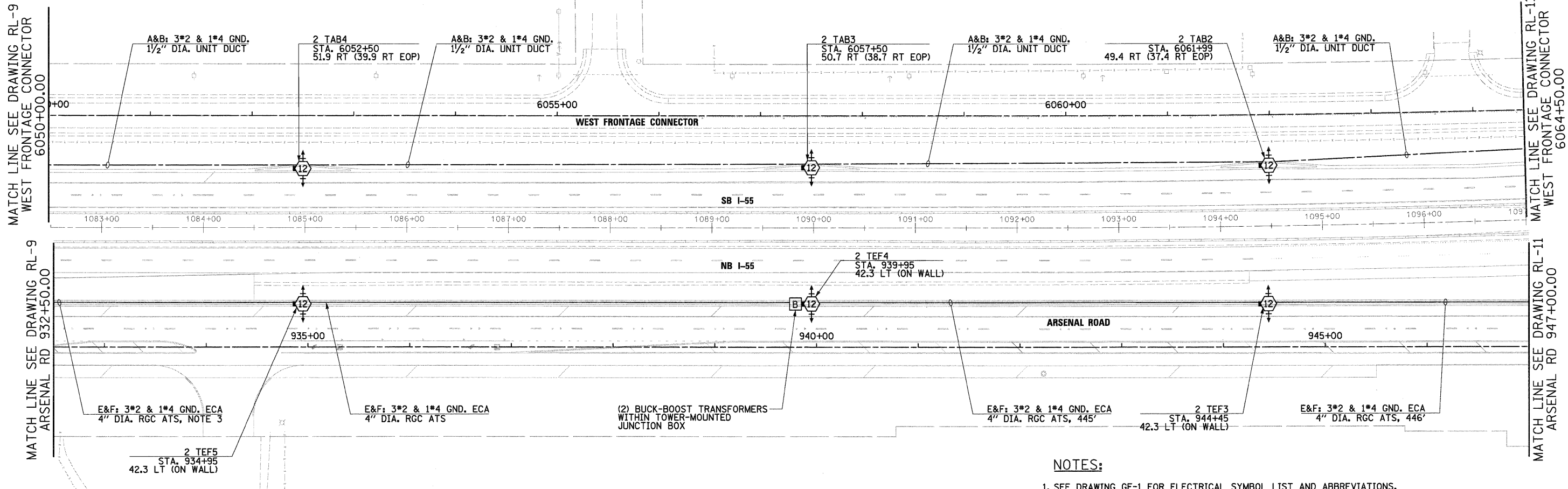
FILE NAME = D:\60F12-SHT-RL-9.dgn	USER NAME = TKLuegel	DESIGNED - JLW	REVISED -
		DRAWN - CJM	REVISED -
		CHECKED - KMY	REVISED -
		DATE - 2/4/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

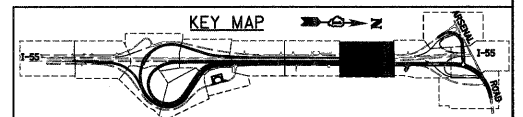
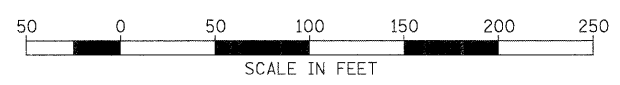
I-55 AT ARSENAL ROAD
PROPOSED ROADWAY LIGHTING PLAN FINAL CONDITIONS

SCALE: 1" = 50' SHEET NO. 9 OF 14 SHEETS STA. TO STA.

F.A.I. RTE. 55	SECTION 99-2HB-2B-1	COUNTY WILL	TOTAL SHEETS 756	SHEET NO. 398
CONTRACT NO. 60F12			ILLINOIS FED. AID PROJECT	



- NOTES:**
1. SEE DRAWING GE-1 FOR ELECTRICAL SYMBOL LIST AND ABBREVIATIONS.
 2. SEE DRAWINGS S-1 AND S-3 FOR HIGH MAST LIGHT TOWER FOUNDATION TABLES.
 3. LENGTH NOT SHOWN. SEE DRAWING RL-9 FOR RUN LENGTH.

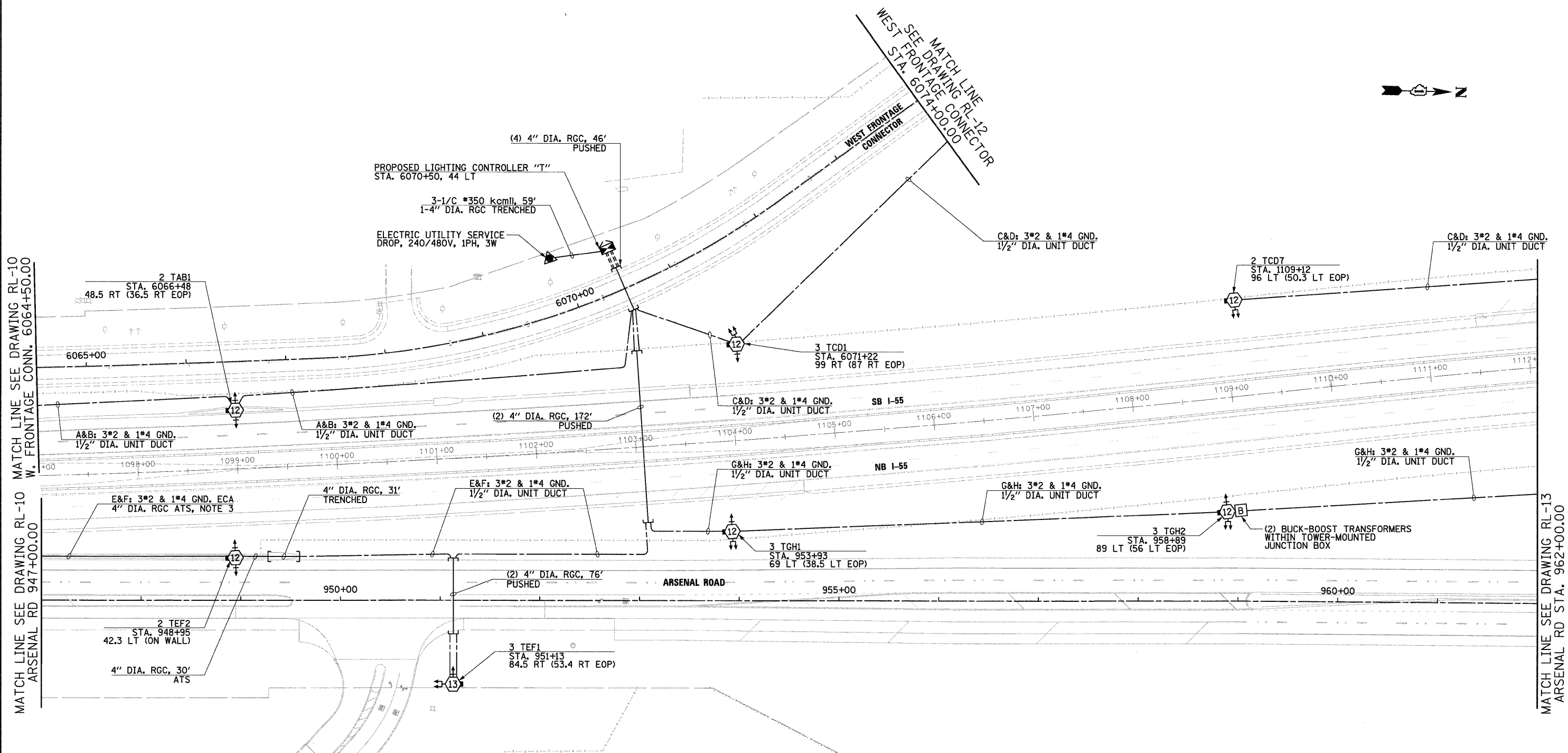


FILE NAME = D:\60F12-SHT-RL-10.dgn	USER NAME = TKluegel	DESIGNED - JLW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	I-55 AT ARSENAL ROAD PROPOSED ROADWAY LIGHTING PLAN FINAL CONDITIONS		F.A.I R.T.E. 55	SECTION 99-2HB-2B-1	COUNTY WILL	TOTAL SHEETS 756	SHEET NO. 399	
	PLOT SCALE = 1:50	CHECKED - KMY	REVISED -		SCALE: 1" = 50'	SHEET NO. 10 OF 14 SHEETS	STA. TO STA.	CONTRACT NO. 60F12		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		
	PLOT DATE = 2/3/2011	DATE = 2/4/11	REVISED -									

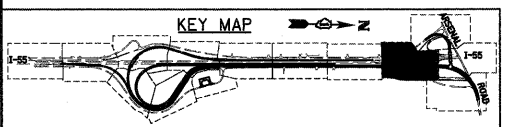
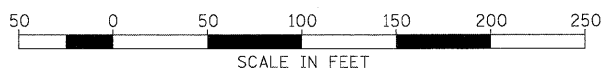


MATCH LINE SEE DRAWING RL-10 W. FRONTAGE CONN. 6064+50.00

MATCH LINE SEE DRAWING RL-13 ARSENAL RD STA. 962+00.00



- NOTES:**
- SEE DRAWING GE-1 FOR ELECTRICAL SYMBOL LIST AND ABBREVIATIONS.
 - SEE DRAWINGS S-1 AND S-3 FOR HIGH MAST LIGHT TOWER FOUNDATION TABLES.
 - LENGTH NOT SHOWN. SEE DRAWING RL-10 FOR RUN LENGTH.



McDonough Associates Inc.
 Engineers / Architects
 130 East Randolph Street, Chicago, Illinois 60601

FILE NAME = D:\B0F12-SHT-RL-11.dgn	USER NAME = TKLuegel	DESIGNED - JLW	REVISED -
		DRAWN - CJM	REVISED -
		CHECKED - KMY	REVISED -
		DATE - 2/4/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-55 AT ARSENAL ROAD
PROPOSED ROADWAY LIGHTING PLAN FINAL CONDITIONS

SCALE: 1" = 50' SHEET NO. 11 OF 14 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-2B-1	WILL	756	400
CONTRACT NO. 60F12				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				