

# MINNESOTA DEPARTMENT OF TRANSPORTATION

## CONSTRUCTION PLAN FOR ELECTRIC LIGHTING SYSTEM

LOCATED ON TH 52 FROM SOUTHVIEW BLVD TO PLATO BLVD

FEDERAL FUNDS NHPP 0052(332)

### GOVERNING SPECIFICATIONS

THE 2014 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" AND THE 2014 EDITION OF THE "MATERIALS LAB SUPPLEMENTAL SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN.

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THIS PLAN CONTAINS 31 SHEETS

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAW OF THE STATE OF MINNESOTA.

PRINT NAME: MICHAEL GERBENSKY LICENSE # 19863

SIGNATURE: \_\_\_\_\_ DATE \_\_\_\_\_

DESIGN SQUAD DAVID CROWLEY GREG BRANDT

RECOMMENDED FOR APPROVAL \_\_\_\_\_ DATE \_\_\_\_\_  
DISTRICT TRANSPORTATION ENGINEER

RECOMMENDED FOR APPROVAL \_\_\_\_\_ DATE \_\_\_\_\_  
DISTRICT TRAFFIC ENGINEER

RECOMMENDED FOR APPROVAL \_\_\_\_\_ DATE \_\_\_\_\_  
STATE PRE-LETTING ENGINEER

RECOMMENDED FOR APPROVAL \_\_\_\_\_ DATE \_\_\_\_\_

RECOMMENDED FOR APPROVAL \_\_\_\_\_ DATE \_\_\_\_\_

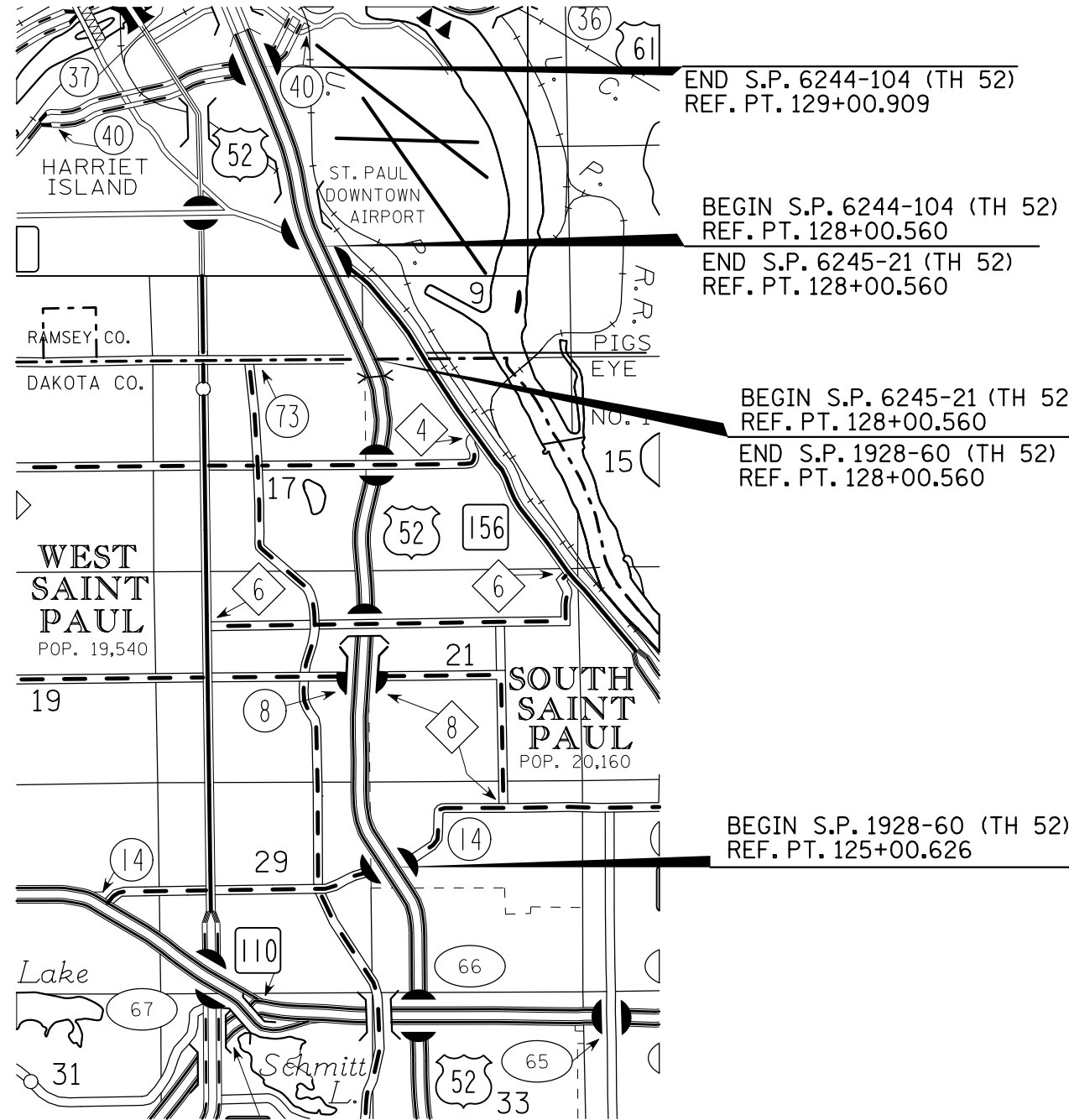
OFFICE OF LAND MANAGEMENT APPROVAL \_\_\_\_\_ DATE \_\_\_\_\_  
DIRECTOR, LAND MANAGEMENT

APPROVED \_\_\_\_\_ DATE \_\_\_\_\_  
STATE DESIGN ENGINEER

I HEREBY CERTIFY THAT THE FINAL FIELD REVISIONS, IF ANY, OF THIS PLAN WERE MADE BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

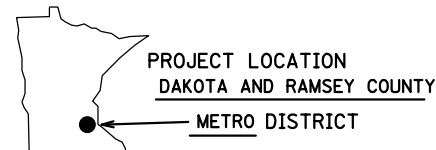
PRINT NAME: \_\_\_\_\_ LICENSE # \_\_\_\_\_

DATE: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_



INDEX MAP NOT TO SCALE

PLAN SCALE SCALE IN FEET



FOR PLANS & UTILITIES SYMBOLS SEE TECHNICAL MANUAL

PROJ. NO. \_\_\_\_\_ CHARGE IDENTIFIER \_\_\_\_\_

1928-60 \_\_\_\_\_

BY	DATE	REVISIONS

DRAWN BY: DC CKD BY: GB DATE: 8/2014

STATE PROJ. NO. 6244-104 (T.H. 52 = 112)  
STATE PROJ. NO. 6245-21 (T.H. 52 = 115)

**TITLE SHEET**

STATE PROJ. NO. 1928-60 (T.H. 52 = 115) SHEET NO. 1 OF 31 SHEETS

PLOTTED/REVISED: 9/16/2014

DISTRICT #: METRO  
PLOT NAME: 1928-60.II.sht  
PATH & FILENAME: IP\_PWP-d\5884\2\1928-60.II.dgn

# UTILITIES

NO UTILITIES WILL BE AFFECTED BY THIS PROJECT

THE FOLLOWING UTILITY OWNERS HAVE FACILITIES WITHIN THE PROJECT LIMITS BUT WILL NOT BE AFFECTED:

- Arvig Communications Systems
- Century Link
- City of Inver Grove Heights
- City of South Saint Paul
- City of West Saint Paul
- Comcast Cable Communications, Incorporated
- Dakota County IT Department
- Minnesota Dept. of Transportation
- Integra Telecom of Minnesota, Incorporated
- MCI Communication Services, Incorporated
- Metropolitan Council, Transit
- Metropolitan Airports Comm.
- Sprint Communications Company, LP
- Board of Water Commissioners of the City of Saint Paul
- TTM Operating Corp.
- Windstream Communications
- Xcel Energy

**NOTE:**  
 THE SUBSURFACE UTILITY INFORMATION IS UTILITY QUALITY LEVEL D. THIS UTILITY QUALITY LEVEL WAS DETERMINED ACCORDING TO THE THE GUIDELINES OF CI/ASCE 38-02, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA".  
 ALL WORK IS WITHIN MN/DOT RIGHT OF WAY

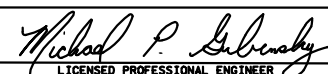
THE FOLLOWING STANDARD PLATES APPROVED BY THE MINNESOTA DEPT. OF TRANSPORTATION AND THE FEDERAL HIGHWAY ADMINISTRATION SHALL APPLY ON THIS PROJECT.

STANDARD PLATES	
PLATE NO.	DESCRIPTION
8106B	EQUIPMENT PAD B
8000I	STANDARD BARRICADES
8127C	LIGHT FOUNDATION DESIGN E
8128D	LIGHT FOUNDATION DESIGN H
8129A	SHIM AND WASHER

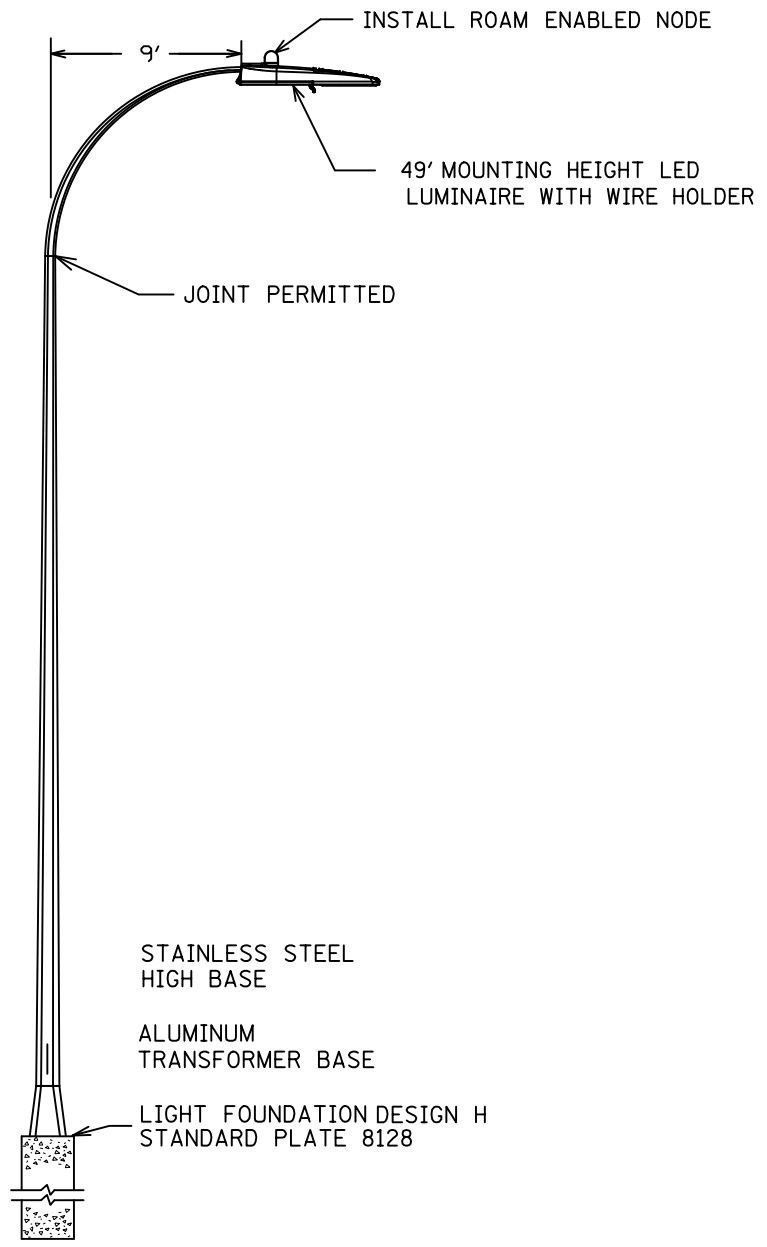
STATEMENT OF ESTIMATED QUANTITIES			
ITEM NO.	ITEM	UNIT	ESTIMATED QUANTITIES <sup>Ⓐ</sup>
2104.601	HAUL SALVAGED MATERIAL (1)	LUMP SUM	1
2545.501	ELECTRIC LIGHT SYSTEM	LUMP SUM	1

(1) 100% STATE FUNDS  
 Ⓐ 80% FEDERAL/20% STATE FUNDS

DISTRICT #: METRO  
 PLOT NAME: 1928-60.II.sht2  
 PATH & FILENAME: IP\_PWP-d\5884\2\1928-60.II.I.dgn  
 PLOTTED/REVISED: 9/16/2014

BY	DATE	REVISIONS	LOCATION: BETWEEN T.H.494 and PLATO BLVD	<b>LIGHTING QUANTITIES</b>
DRAWN BY: DC    CKD BY: GB    DATE: 8/2014			CERTIFIED BY:  L.C. NO. 19863    DATE: 9/16/2014	STATE PROJ. NO. 1928-60 (T.H.52)    SHEET NO. 2 OF 31 SHEETS

DISTRICT #: METRO  
 PLOT NAME: 1928-60.II.sth3  
 PATH & FILENAME: IP\_PWP-d\5884\2\1928-60.II.lodgn



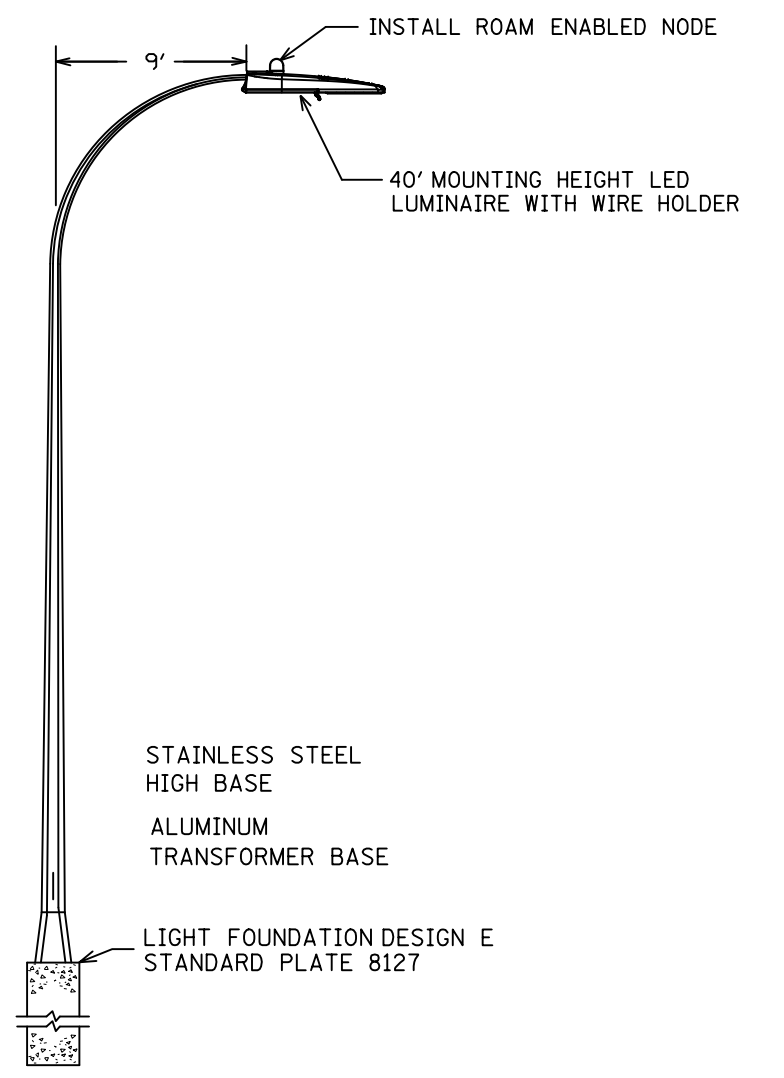
LIGHTING UNIT TYPE 9-49  
(BREAKAWAY)

RADIUS CHART (ENGLISH)

MAST ARM LENGTH	RADIUS
6	5
9	8
12	10

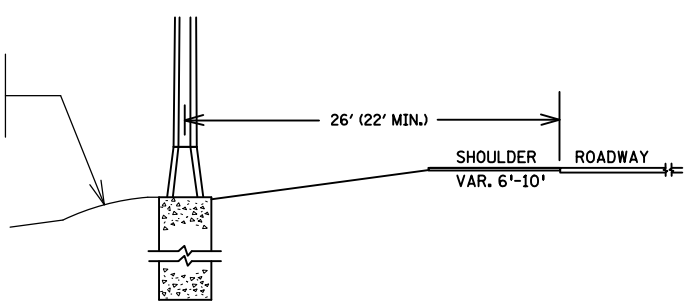
LUMINAIRES  
240-480 VOLT

USE THE MAXIMUM DISTANCE WHENEVER POSSIBLE,  
 IF THE MINIMUM DISTANCE CANNOT BE OBTAINED  
 CONTACT THE DISTRICT/DIVISION TRAFFIC ENGINEER  
 LIGHT FOUNDATIONS SHALL BE PLACED IN ACCORDANCE  
 WITH 2545.3F2.  
 DISTANCES SHALL BE MEASURED FROM THE  
 EDGE OF DRIVING LANE OR TURN LANE.



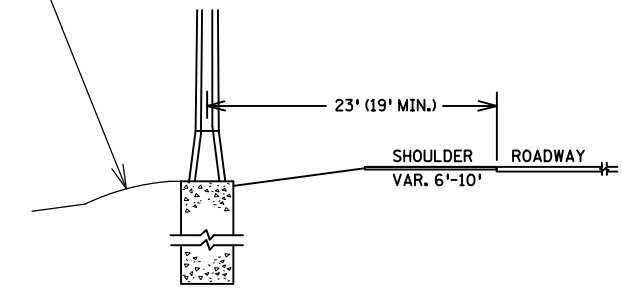
LIGHTING UNIT TYPE 9-40  
(BREAKAWAY)

FILL AROUND FOUNDATION TOP WITH EXCAVATED DIRT. GRADE DIRT LEVEL WITH BOTTOM OF CONCRETE CHAMFER.



PLACEMENT LIGHTING UNIT TYPE 9-49

FILL AROUND FOUNDATION TOP WITH EXCAVATED DIRT. GRADE DIRT LEVEL WITH BOTTOM OF CONCRETE CHAMFER.



PLACEMENT LIGHTING UNIT TYPE 9-40

BY	DATE	REVISIONS

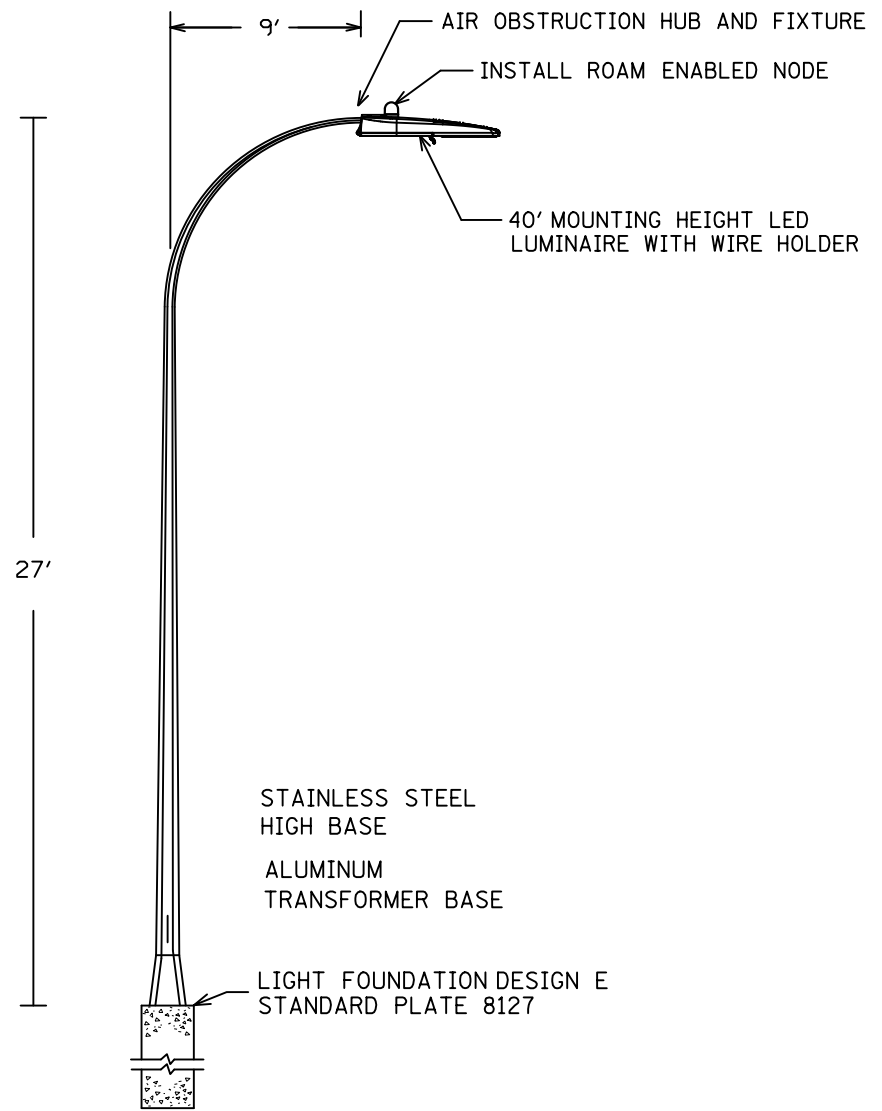
DRAWN BY: DC    CKD BY: GB    DATE: 8/2014

CERTIFIED BY *Michael P. Lubensky* LIC. NO. 19863 DATE: 9/16/2014  
LICENSED PROFESSIONAL ENGINEER

**LIGHTING DETAILS**

STATE PROJ. NO. 1928-60 (T.H.52)    SHEET NO. 3 OF 31 SHEETS

PLOTTED/REVISED: 9/16/2014



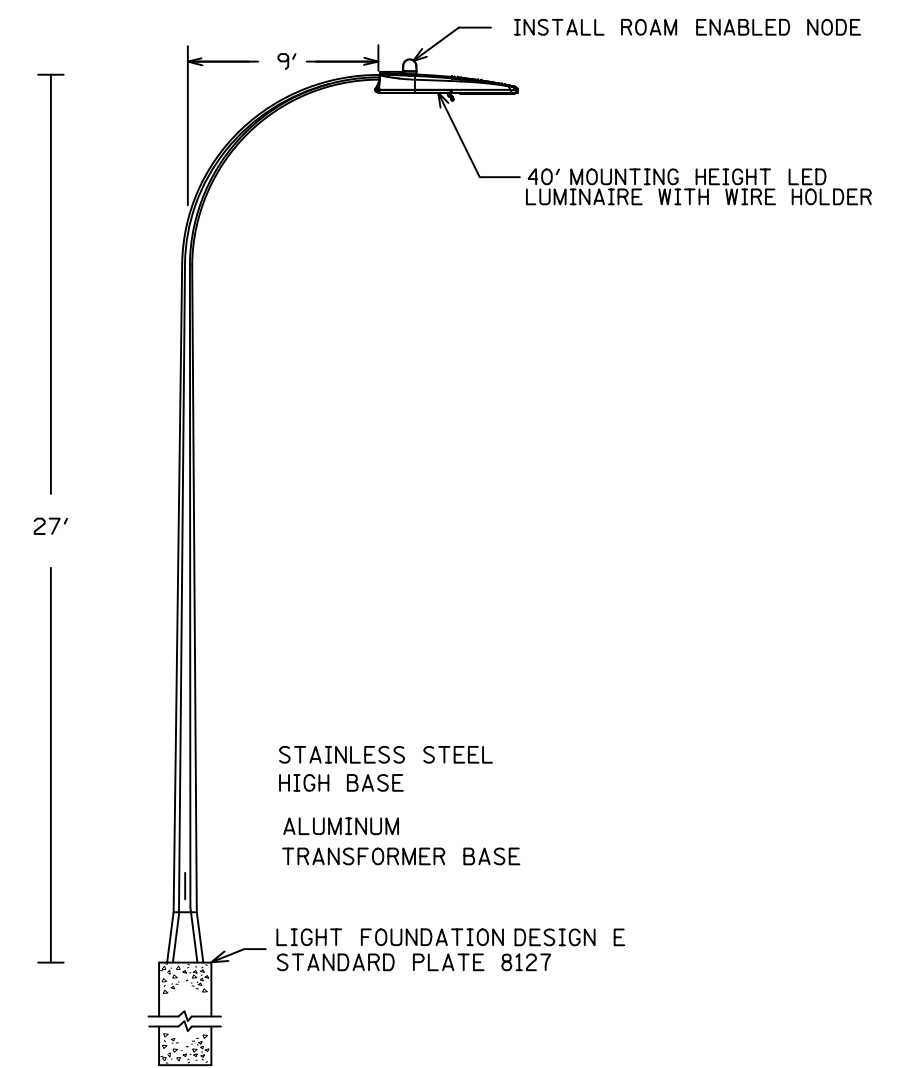
LIGHTING UNIT TYPE SPECIAL #2  
(BREAKAWAY)

RADIUS CHART (ENGLISH)

MAST ARM LENGTH	RADIUS
6	5
9	8
12	10

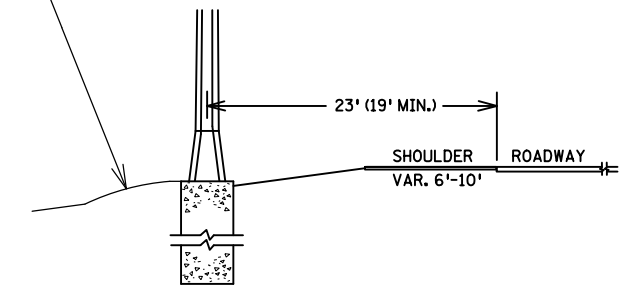
LUMINAIRES  
240-480 VOLT

USE THE MAXIMUM DISTANCE WHENEVER POSSIBLE, IF THE MINIMUM DISTANCE CANNOT BE OBTAINED CONTACT THE DISTRICT/DIVISION TRAFFIC ENGINEER LIGHT FOUNDATION SHALL BE PLACED IN ACCORDANCE WITH 2545.3F2. DISTANCES SHALL BE MEASURED FROM THE EDGE OF DRIVING LANE OR TURN LANE.



LIGHTING UNIT TYPE SPECIAL #1  
(BREAKAWAY)

FILL AROUND FOUNDATION TOP WITH EXCAVATED DIRT. GRADE DIRT LEVEL WITH BOTTOM OF CONCRETE CHAMFER.



PLACEMENT LIGHTING UNIT TYPE SPECIAL #1 AND SPECIAL #2

DISTRICT #: METRO  
PLOT NAME: 1928-60.II.sth4  
PATH & FILENAME: IP\_PWP-d\1928-60.II.II.dgn

BY	DATE	REVISIONS

DRAWN BY: DC    CKD BY: GB    DATE: 8/2014










CERTIFIED BY *Michael P. Lubensky* LIC. NO. 19863 DATE: 9/16/2014  
LICENSED PROFESSIONAL ENGINEER

**LIGHTING DETAILS**

STATE PROJ. NO. 1928-60 (T.H.52)    SHEET NO. 4 OF 31 SHEETS

PLOTTED/REVISED: 9/16/2014

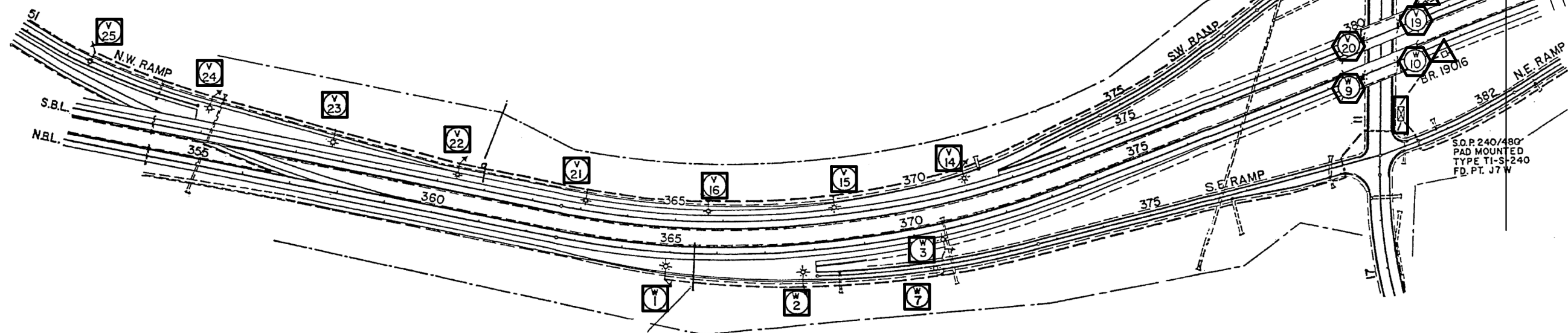
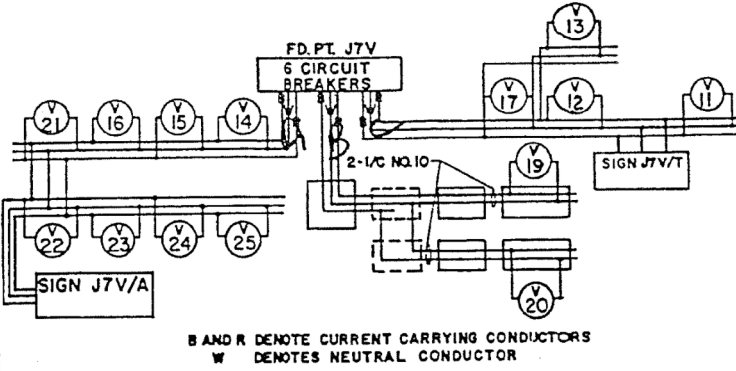
**LEGEND**

-  OR  REMOVE INPLACE LIGHTING UNIT  
REMOVE LIGHT FOUNDATION
-  SALVAGE SERVICE CABINET
-  REMOVE LUMINAIRE
-  SALVAGE LIGHTING UNIT  
REMOVE LIGHT FOUNDATION
-  SALVAGE SERVICE CABINET  
REMOVE CABINET FOUNDATION
-  REMOVE LIGHTING UNIT
-  INPLACE SERVICE CABINET
-  REMOVE HANDHOLE

NOTE: REMOVE INPLACE ARMORED CABLE.  
REMOVE CABLES IN BARRIER.  
CUT OFF ANCHOR BOLTS IN BARRIER FLUSH  
WITH TOP OF BARRIER.

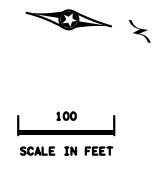
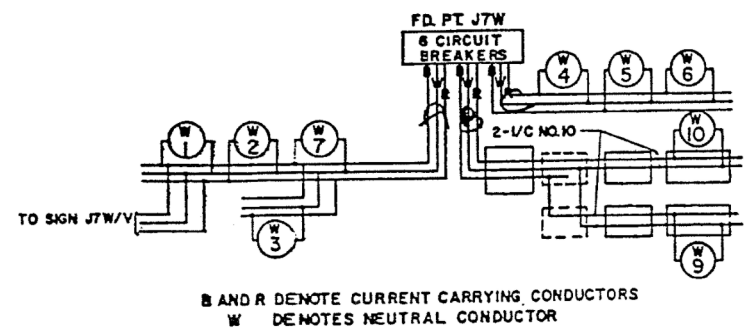
FD. PT. J7V  
LIGHT STANDARDS & FOUNDATIONS

NO.	STATION	LT.	RT.	LOCATION	TYPE
11	S.B. 390+80	-	-	TH 52	9-50
12	S.B. 388+00	-	-	TH 52	9-50
13	S.B. 385+40	-	-	TH 52	9-50
14	S.B. 371+00	-	-	TH 52	9-50
15	S.B. 368+35	-	-	TH 52	9-50
16	S.B. 365+70	-	-	TH 52	9-50
17	385+00	-	-	N.W. RAMP	6-50
19	9+20	-	-	SOUTHVIEW BLVD	L
20	9+30	-	-	SOUTHVIEW BLVD	L
21	S.B. 363+05	-	-	TH 52	9-50
22	S.B. 360+40	-	-	TH 52	9-50
23	S.B. 357+75	-	-	TH 52	9-50
24	S.B. 355+10	-	-	TH 52	9-50
25	52+45	-	-	S.W. RAMP	6-50



FD. PT. J7W  
LIGHT STANDARDS & FOUNDATIONS

NO.	STATION	LT.	RT.	LOCATION	TYPE
1	N.B. 364+95	-	-	TH 52	9-50
2	N.B. 367+75	-	-	TH 52	9-50
3	N.B. 370+50	-	-	TH 52	9-50
4	N.B. 390+50	-	-	TH 52	9-50
5	N.B. 393+40	-	-	TH 52	9-50
6	N.B. 396+30	-	-	TH 52	9-50
7	370+40	-	-	S.E. RAMP	6-50
9	10+15	-	-	SOUTHVIEW BLVD	L
10	9+85	-	-	SOUTHVIEW BLVD	L



FEED POINT J7V, J7W

DISTRICT #: METRO  
I/PLOT NAME: 1928-60 removal.sht5  
PATH & FILENAME: IP\_PWP-d\5884\2\1928-60 removal.dgn

BY	DATE	REVISIONS

DRAWN BY: DC      CKD BY:      DATE:

CERTIFIED BY *Michael P. Lubensky* L.I.C. NO. 19863 DATE: 9/16/2014  
LICENSED PROFESSIONAL ENGINEER

**SALVAGE AND REMOVAL PLAN**

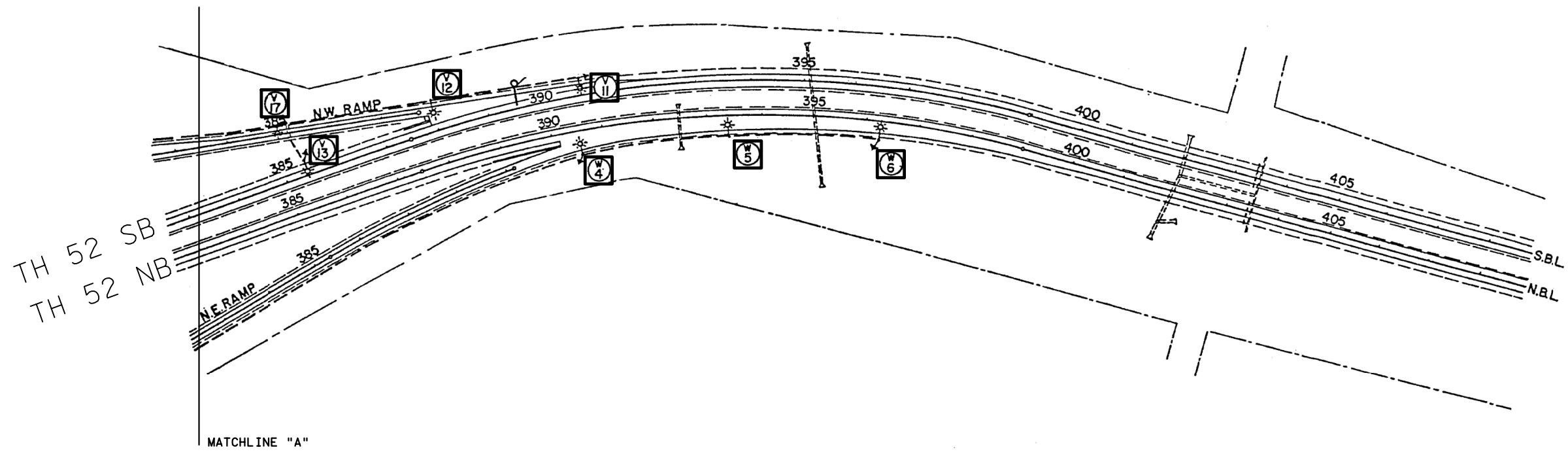
STATE PROJ. NO. 1928-60 (T.H. 52)      SHEET NO. 5 OF 31 SHEETS

SEE LEGEND SHEET 5



100  
SCALE IN FEET

PLOTTED/REVISED: 9/16/2014



DISTRICT #: METRO  
PLOT NAME: 1928-60 removal.sht6  
PATH & FILENAME: IP\_PWP-d\58842\1928-60 removal.dgn

FEED POINT J7V, J7W

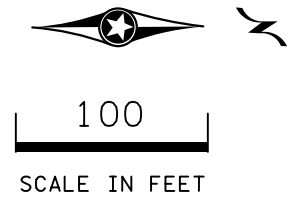
BY	DATE	REVISIONS

CERTIFIED BY *Michael P. Lubensky* L.I.C. NO. 19863 DATE: 9/16/2014  
LICENSED PROFESSIONAL ENGINEER

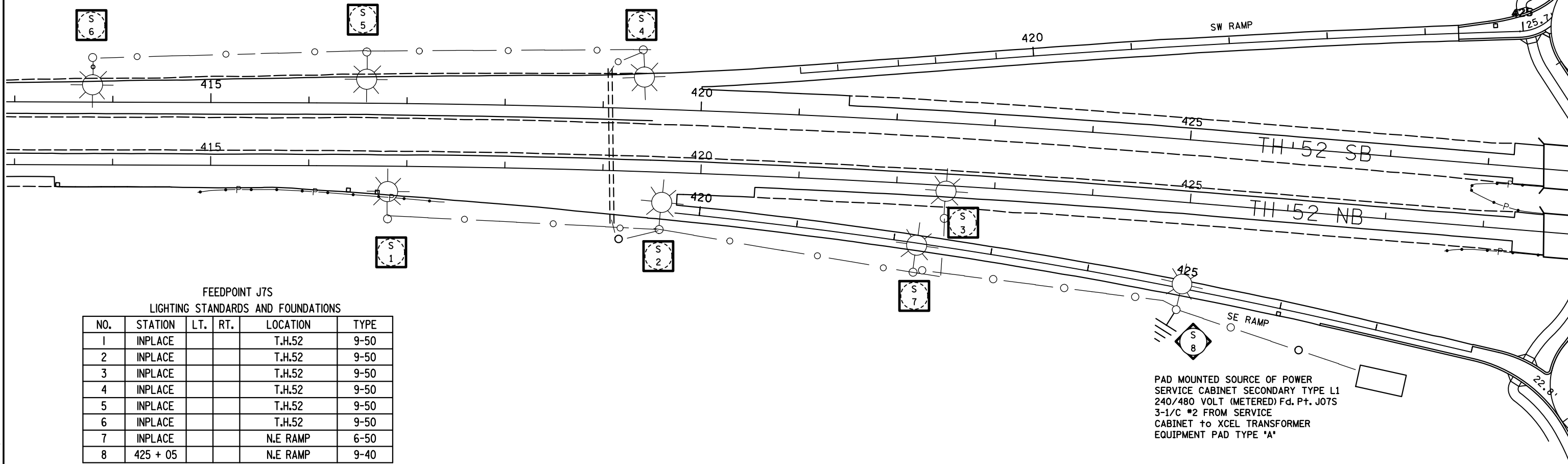
**SALVAGE AND REMOVAL PLAN**  
 STATE PROJ.NO.1928-60(T.H. 52) SHEET NO. 6 OF 31 SHEETS

DRAWN BY: DC CKD BY: DATE:

SEE LEGEND SHEET 5



PLOTTED/REVISED: 9/16/2014



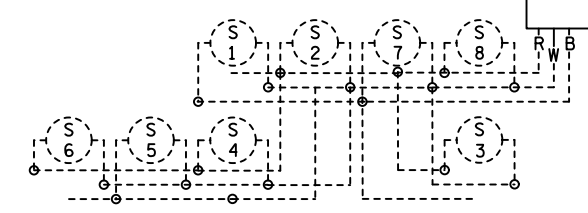
FEEDPOINT J7S  
LIGHTING STANDARDS AND FOUNDATIONS

NO.	STATION	LT.	RT.	LOCATION	TYPE
1	INPLACE			T.H.52	9-50
2	INPLACE			T.H.52	9-50
3	INPLACE			T.H.52	9-50
4	INPLACE			T.H.52	9-50
5	INPLACE			T.H.52	9-50
6	INPLACE			T.H.52	9-50
7	INPLACE			N.E RAMP	6-50
8	425 + 05			N.E RAMP	9-40

PAD MOUNTED SOURCE OF POWER  
SERVICE CABINET SECONDARY TYPE L1  
240/480 VOLT (METERED) Fd. Pt. J07S  
3-1/C #2 FROM SERVICE  
CABINET to XCEL TRANSFORMER  
EQUIPMENT PAD TYPE 'A'

DASHED LINES DENOTE INPLACE ITEMS  
B AND R DENOTE CURRENT CARRYING CONDUCTORS  
W DENOTES NEUTRAL CONDUCTOR

FD. PT. J7S  
240/480 VOLT  
1-2 POLE CIRCUIT  
BREAKER



FEED POINT J7S

DISTRICT #: METRO  
PLOT NAME: 1928-60 removal.shd  
PATH & FILENAME: IP\_PWP-d\5884\2\1928-60 removal.dgn

BY	DATE	REVISIONS

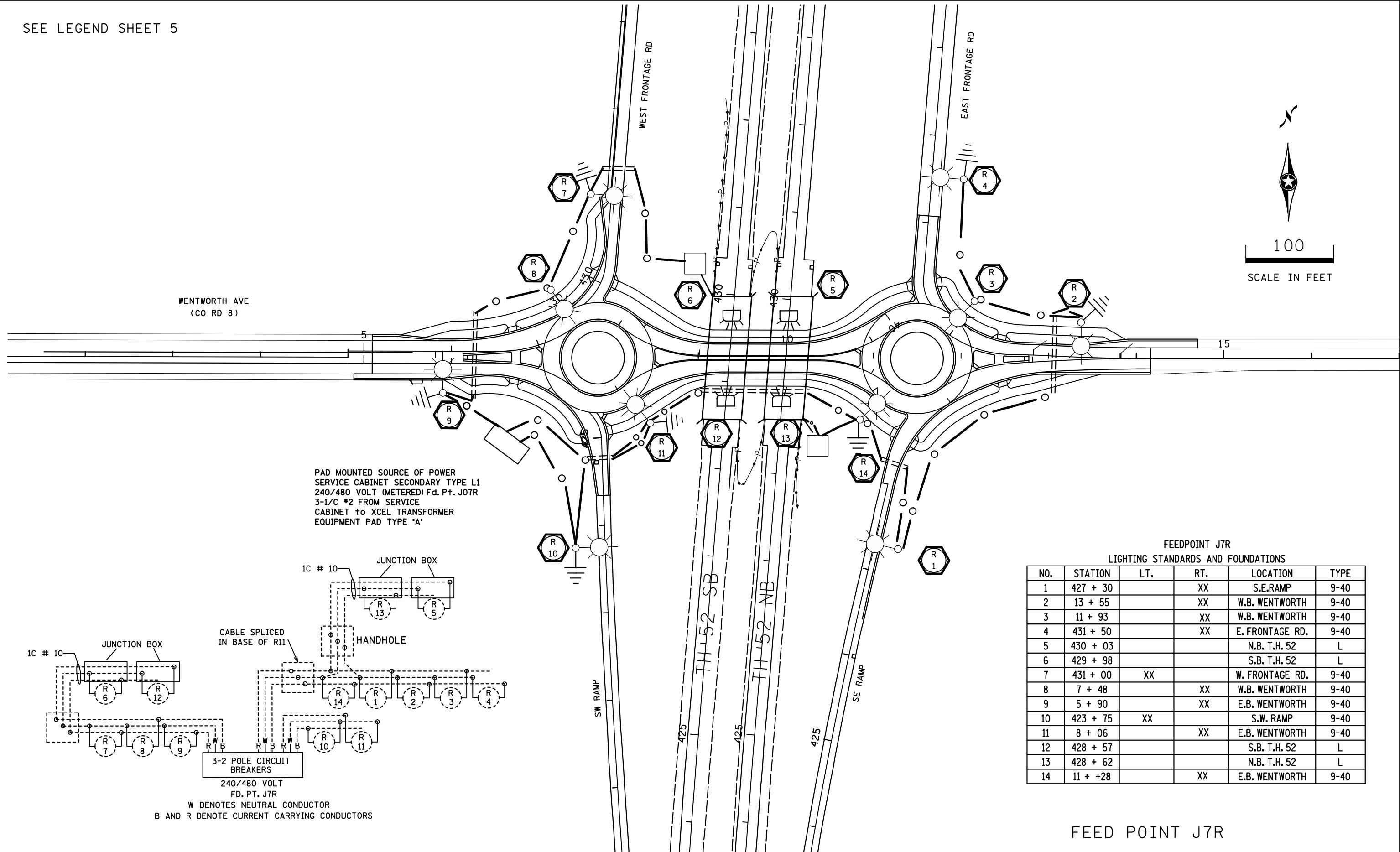
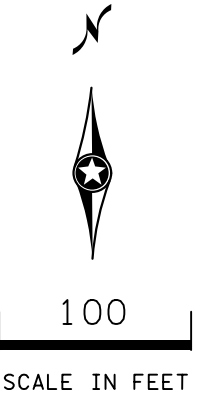
DRAWN BY: DC      CKD BY:      DATE:

CERTIFIED BY *Michael P. Lubensky* LIC. NO. 19863 DATE: 9/16/2014  
LICENSED PROFESSIONAL ENGINEER

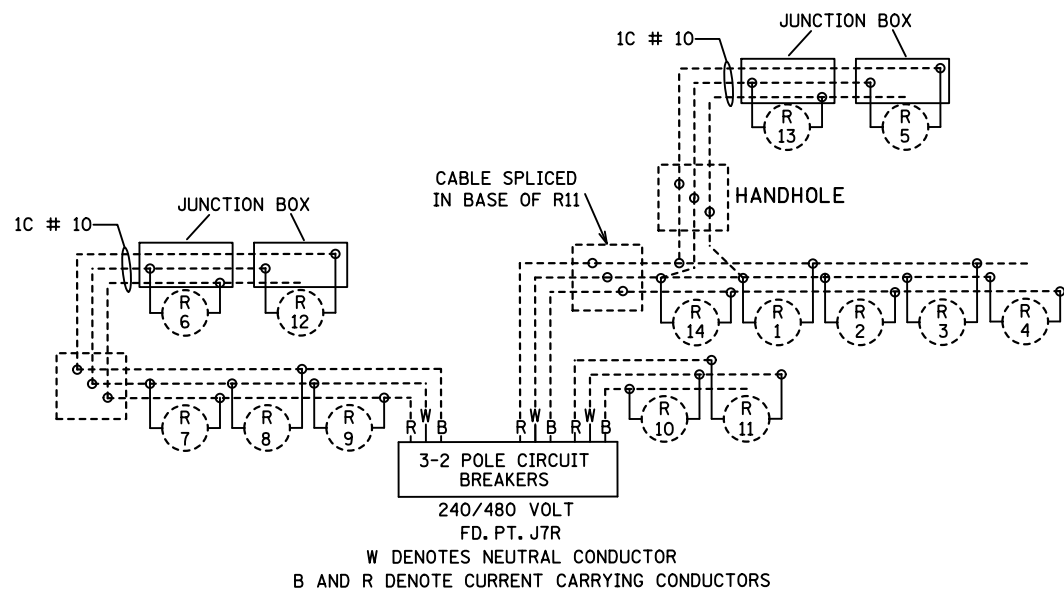
**SALVAGE AND REMOVAL PLAN**  
STATE PROJ.NO.1928-60(T.H. 52) SHEET NO. 7 OF 31 SHEETS

SEE LEGEND SHEET 5

PLOTTED/REVISED: 9/16/2014



PAD MOUNTED SOURCE OF POWER  
 SERVICE CABINET SECONDARY TYPE L1  
 240/480 VOLT (METERED) Fd. Pt. J07R  
 3-1/C #2 FROM SERVICE  
 CABINET to XCEL TRANSFORMER  
 EQUIPMENT PAD TYPE 'A'



FEEDPOINT J7R  
 LIGHTING STANDARDS AND FOUNDATIONS

NO.	STATION	LT.	RT.	LOCATION	TYPE
1	427 + 30		XX	S.E.RAMP	9-40
2	13 + 55		XX	W.B. WENTWORTH	9-40
3	11 + 93		XX	W.B. WENTWORTH	9-40
4	431 + 50		XX	E. FRONTAGE RD.	9-40
5	430 + 03			N.B. T.H. 52	L
6	429 + 98			S.B. T.H. 52	L
7	431 + 00	XX		W. FRONTAGE RD.	9-40
8	7 + 48		XX	W.B. WENTWORTH	9-40
9	5 + 90		XX	E.B. WENTWORTH	9-40
10	423 + 75	XX		S.W. RAMP	9-40
11	8 + 06		XX	E.B. WENTWORTH	9-40
12	428 + 57			S.B. T.H. 52	L
13	428 + 62			N.B. T.H. 52	L
14	11 + +28		XX	E.B. WENTWORTH	9-40

FEED POINT J7R

DISTRICT #: METRO  
 I/PLOT NAME: 1928-60 removal.sht8  
 PATH & FILENAME: IP\_PWP-d\5884\2\1928-60 removal.dgn

BY	DATE	REVISIONS

CERTIFIED BY *Michael P. Lubensky* LIC. NO. 19863 DATE: 9/16/2014  
LICENSED PROFESSIONAL ENGINEER

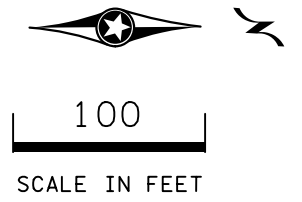
**SALVAGE AND REMOVAL PLAN**  
 STATE PROJ.NO.1928-60(T.H. 52) SHEET NO. 8 OF 31 SHEETS



SEE LEGEND SHEET 5

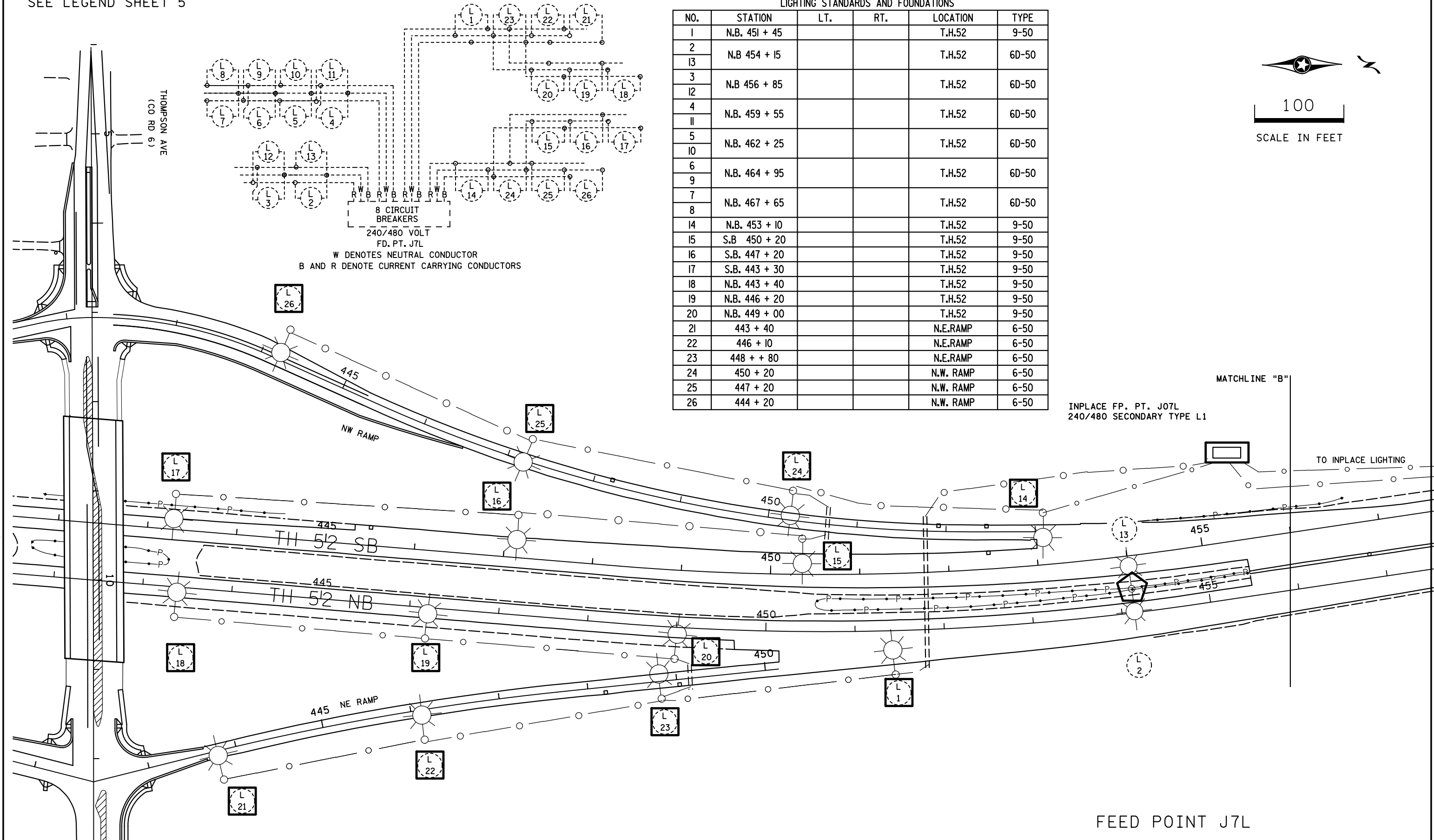
FEEDPOINT J7L  
LIGHTING STANDARDS AND FOUNDATIONS

NO.	STATION	LT.	RT.	LOCATION	TYPE
1	N.B. 451 + 45			T.H.52	9-50
2	N.B. 454 + 15			T.H.52	6D-50
13					
3	N.B. 456 + 85			T.H.52	6D-50
12					
4	N.B. 459 + 55			T.H.52	6D-50
11					
5	N.B. 462 + 25			T.H.52	6D-50
10					
6	N.B. 464 + 95			T.H.52	6D-50
9					
7	N.B. 467 + 65			T.H.52	6D-50
8					
14	N.B. 453 + 10			T.H.52	9-50
15	S.B. 450 + 20			T.H.52	9-50
16	S.B. 447 + 20			T.H.52	9-50
17	S.B. 443 + 30			T.H.52	9-50
18	N.B. 443 + 40			T.H.52	9-50
19	N.B. 446 + 20			T.H.52	9-50
20	N.B. 449 + 00			T.H.52	9-50
21	443 + 40			N.E.RAMP	6-50
22	446 + 10			N.E.RAMP	6-50
23	448 + + 80			N.E.RAMP	6-50
24	450 + 20			N.W. RAMP	6-50
25	447 + 20			N.W. RAMP	6-50
26	444 + 20			N.W. RAMP	6-50



PLOTTED/REVISED: 9/16/2014

DISTRICT #: METRO  
IPLLOT NAME: 1928-60 removal.sht9  
PATH & FILENAME: IP\_PWP-d\5884\2\1928-60 removal.dgn



INPLACE FP. PT. J07L  
240/480 SECONDARY TYPE L1

MATCHLINE "B"

TO INPLACE LIGHTING

FEED POINT J7L

BY	DATE	REVISIONS

DRAWN BY: DC      CKD BY:      DATE:

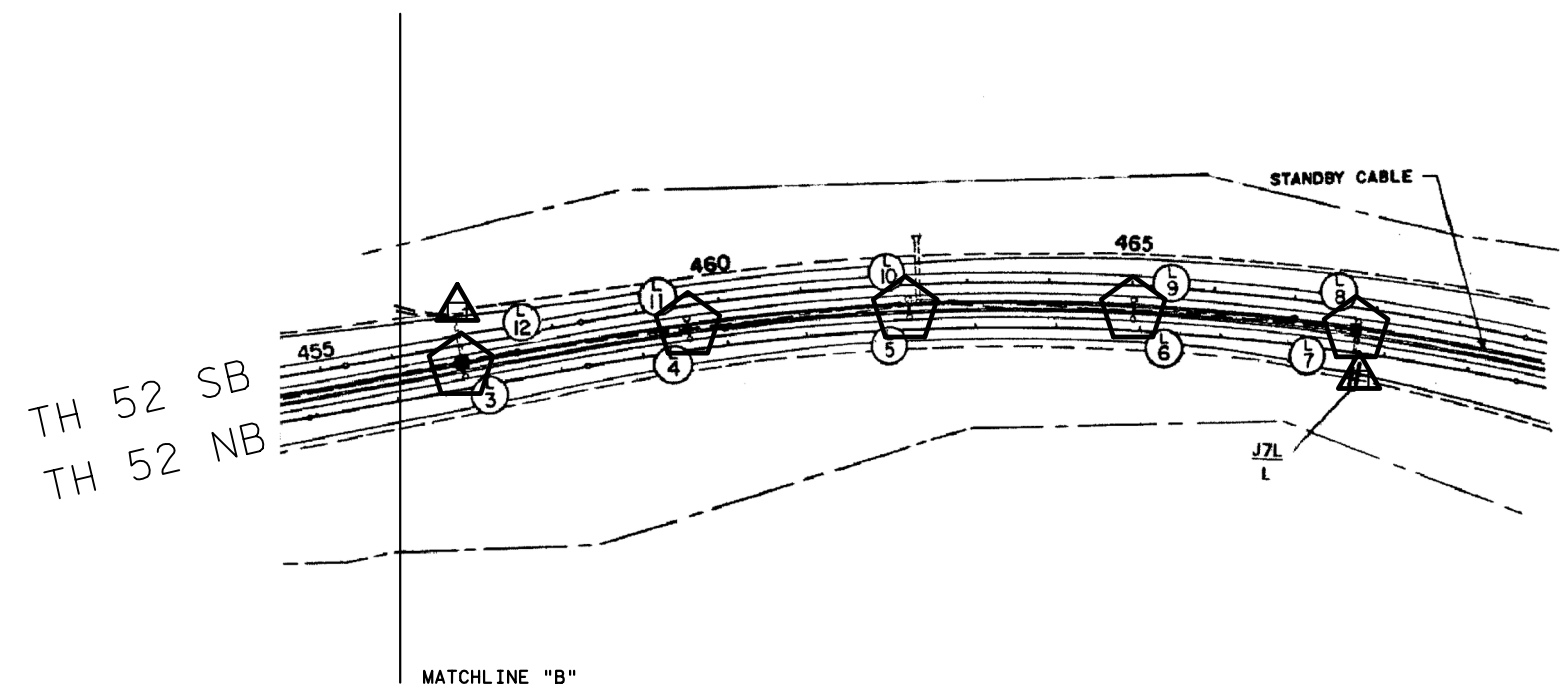
CERTIFIED BY *Michael P. Lubensky* LIC. NO. 19863 DATE: 9/16/2014  
LICENSED PROFESSIONAL ENGINEER

**SALVAGE AND REMOVAL PLAN**  
STATE PROJ.NO.1928-60(T.H. 52)      SHEET NO. 9 OF 31 SHEETS

SEE LEGEND SHEET 5



100  
SCALE IN FEET



FEED POINT J7L

DISTRICT #: METRO  
PLOT NAME: 1928-60 removal.sht10  
PATH & FILENAME: IP\_PWP-d\58842\1928-60 removal.dgn

BY	DATE	REVISIONS

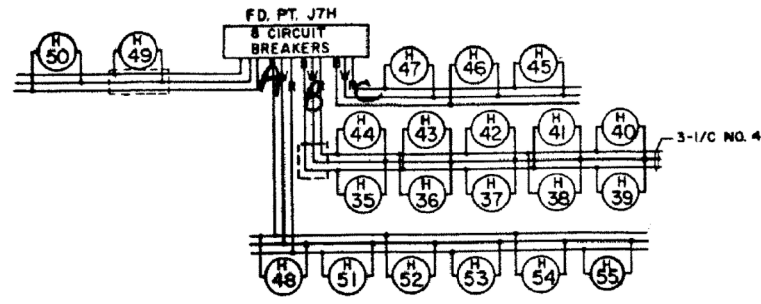
CERTIFIED BY *Michael P. Lubensky* LIC. NO. 19863 DATE: 9/16/2014  
LICENSED PROFESSIONAL ENGINEER

**SALVAGE AND REMOVAL PLAN**

STATE PROJ.NO.1928-60(T.H. 52) SHEET NO. 10 OF 31 SHEETS

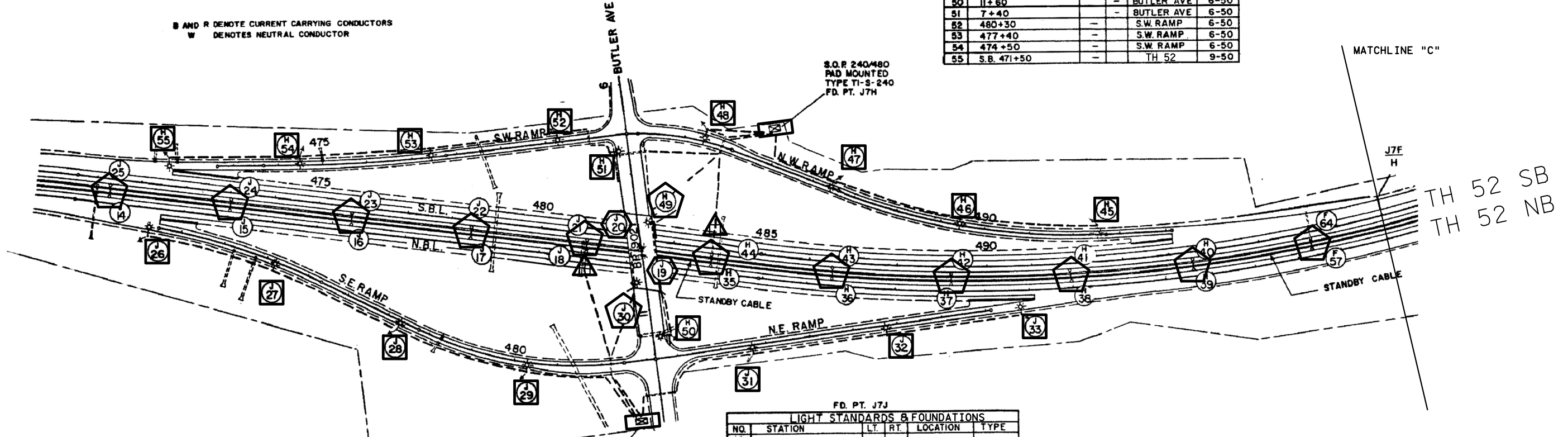
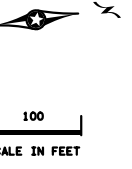
DRAWN BY: DC CKD BY: DATE:

SEE LEGEND SHEET 5

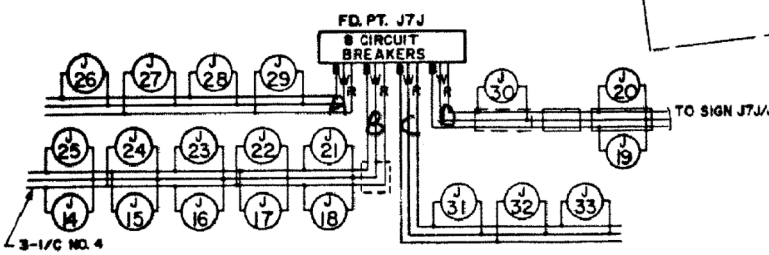


H AND R DENOTE CURRENT CARRYING CONDUCTORS  
W DENOTES NEUTRAL CONDUCTOR

FD. PT. J7H LIGHT STANDARDS & FOUNDATIONS					
NO.	STATION	LT.	RT.	LOCATION	TYPE
35	N.B. 483+85	-	-	TH 52	6D-50
44	N.B. 486+55	-	-	TH 52	6D-50
37	N.B. 489+25	-	-	TH 52	6D-50
42	N.B. 491+95	-	-	TH 52	6D-50
41	N.B. 494+65	-	-	TH 52	6D-50
45	492+40	-	-	N.W. RAMP	6-50
46	489+40	-	-	N.W. RAMP	6-50
47	486+40	-	-	N.W. RAMP	6-50
48	483+40	-	-	N.W. RAMP	6-50
49	9+04	-	-	BR. 19021	6BA-50
50	11+60	-	-	BUTLER AVE	6-50
51	7+40	-	-	BUTLER AVE	6-50
52	480+30	-	-	S.W. RAMP	6-50
53	477+40	-	-	S.W. RAMP	6-50
54	474+50	-	-	S.W. RAMP	6-50
55	S.B. 471+50	-	-	TH 52	9-50



MATCHLINE "C"  
TH 52 SB  
TH 52 NB



H AND R DENOTE CURRENT CARRYING CONDUCTORS  
W DENOTES NEUTRAL CONDUCTOR

FD. PT. J7J LIGHT STANDARDS & FOUNDATIONS					
NO.	STATION	LT.	RT.	LOCATION	TYPE
14	N.B. 470+35	-	-	TH 52	6D-50
25	N.B. 473+05	-	-	TH 52	6D-50
15	N.B. 475+75	-	-	TH 52	6D-50
24	N.B. 478+45	-	-	TH 52	6D-50
18	N.B. 481+07	-	-	TH 52	6D-50
23	N.B. 482+30	-	-	BR. 19021	L
17	N.B. 482+30	-	-	BR. 19021	L
22	N.B. 482+30	-	-	BR. 19021	L
19	N.B. 471+20	-	-	TH 52	9-50
21	474+30	-	-	S.E. RAMP	6-50
20	477+30	-	-	S.E. RAMP	6-50
26	480+30	-	-	S.E. RAMP	6-50
27	10+27	-	-	BR. 19021	6BA-50
28	484+70	-	-	N.E. RAMP	6-50
29	487+70	-	-	N.E. RAMP	6-50
30	490+70	-	-	N.E. RAMP	6-50

FEED POINT J7H, J7J

DISTRICT #: METRO  
 I/PLOT NAME: 1928-60 removal.sh11  
 PATH & FILENAME: IP\_PWP-d\5884\2\1928-60 removal.dgn  
 PLOTTED/REVISED: 9/16/2014

BY	DATE	REVISIONS

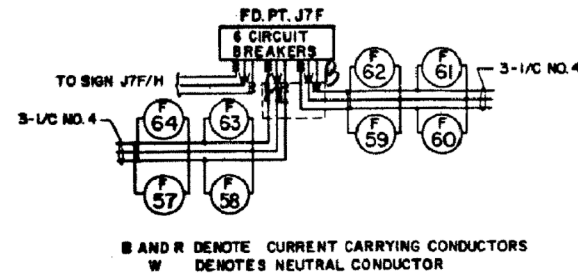
CERTIFIED BY *Michael P. Lubensky* L.I.C. NO. 19863 DATE: 9/16/2014  
LICENSED PROFESSIONAL ENGINEER

**SALVAGE AND REMOVAL PLAN**

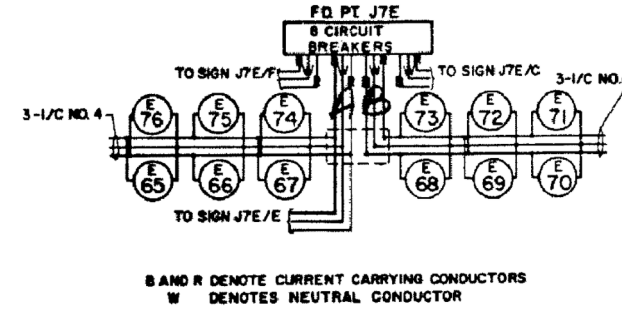
STATE PROJ. NO. 1928-60 (T.H. 52) SHEET NO. 11 OF 31 SHEETS

SEE LEGEND SHEET 5

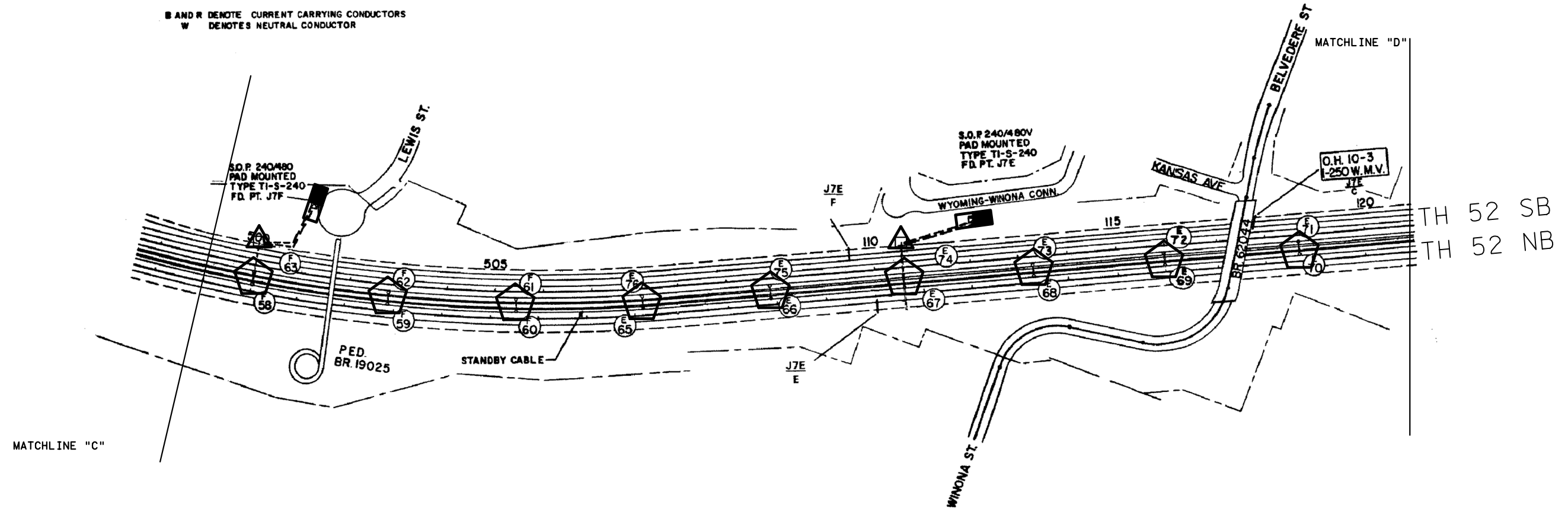
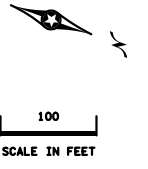
PLOTTED/REVISED: 9/16/2014



FD. PT. J7F					
LIGHT STANDARDS & FOUNDATIONS					
NO.	STATION	LT.	RT.	LOCATION	TYPE
57	N.B. 497+35	-	-	TH 52	6D-50
64	N.B. 500+05	-	-	TH 52	6D-50
58	N.B. 502+90	-	-	TH 52	6D-50
62	N.B. 505+55	-	-	TH 52	6D-50
61	N.B. 505+55	-	-	TH 52	6D-50



FD. PT. J7E					
LIGHT STANDARDS & FOUNDATIONS					
NO.	STATION	LT.	RT.	LOCATION	TYPE
65	N.B. 508+20	-	-	TH 52	6D-50
76	N.B. 107+90	-	-	TH 52	6D-50
66	N.B. 107+90	-	-	TH 52	6D-50
75	N.B. 110+60	-	-	TH 52	6D-50
74	N.B. 110+60	-	-	TH 52	6D-50
68	N.B. 113+30	-	-	TH 52	6D-50
73	N.B. 113+30	-	-	TH 52	6D-50
69	N.B. 116+00	-	-	TH 52	6D-50
72	N.B. 116+00	-	-	TH 52	6D-50
70	N.B. 118+70	-	-	TH 52	6D-50
71	N.B. 118+70	-	-	TH 52	6D-50



DISTRICT #: METRO  
 I/PLOT NAME: 1928-60 removal.sht/2  
 PATH & FILENAME: IP\_PWP-d\5884\2\1928-60 removal.dgn

FEED POINT J7F, J7E

BY	DATE	REVISIONS

DRAWN BY: DC    CKD BY:    DATE:

CERTIFIED BY *Michael P. Lubensky* LIC. NO. 19863 DATE: 9/16/2014  
LICENSED PROFESSIONAL ENGINEER

**SALVAGE AND REMOVAL PLAN**  
 STATE PROJ. NO. 1928-60 (T.H. 52)    SHEET NO. 12 OF 31 SHEETS

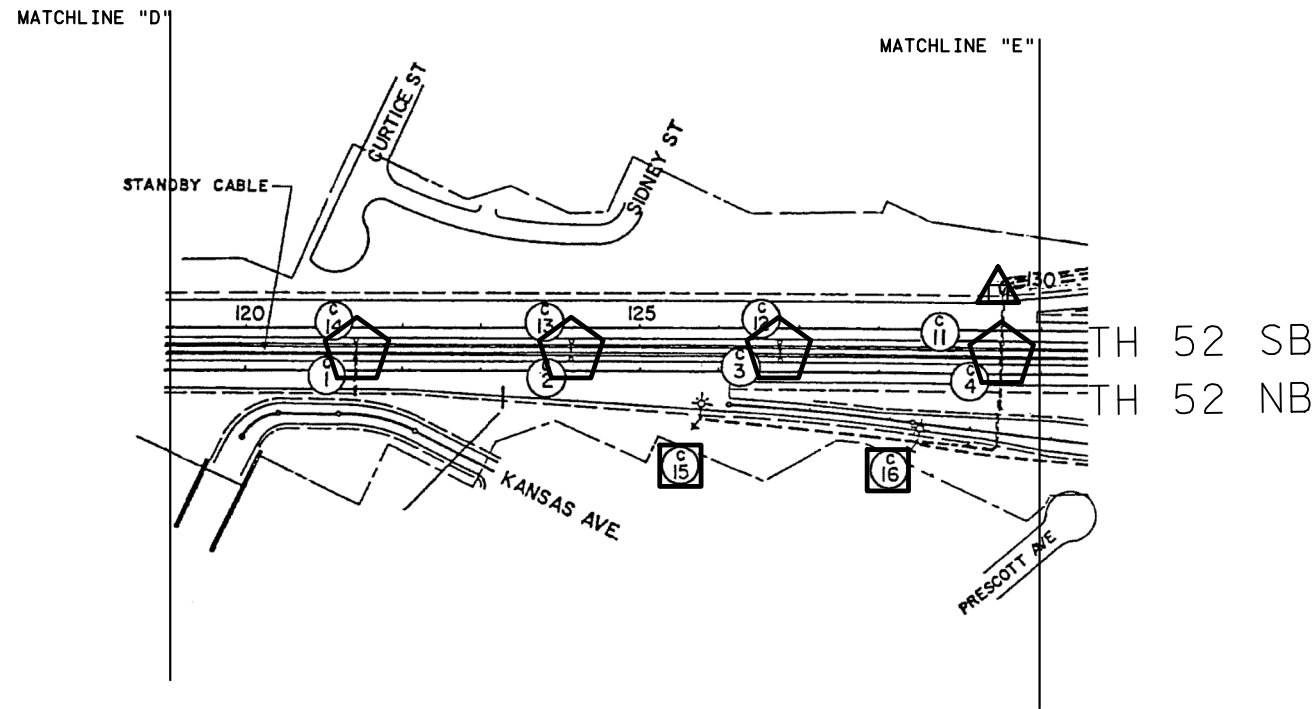
SEE LEGEND SHEET 5



100  
SCALE IN FEET

PLOTTED/REVISED: 9/16/2014

DISTRICT #: METRO  
PLOT NAME: 1928-60 removal.sht13  
PATH & FILENAME: IP\_PWP-d\5884\2\1928-60 removal.dgn



FD. PT. J7C

LIGHTING STANDARDS & FOUNDATIONS					
NO.	STATION	LT	RT	LOCATION	TYPE
1	N.B. 121+40	-		TH 52	6D-50
2	N.B. 124+10	-		TH 52	6D-50
3	N.B. 126+80	-		TH 52	6D-50
4	N.B. 129+50	-		TH 52	6D-50
11		-		TH 52	9-50
15	125+80	-		TH 52	9-50
16	2+40	-		RAMP C	6-50
17	5+10	-		RAMP C	6-50
18	7+80	-		RAMP C	6-50
19	6+60	-		RAMP A	6-50
20	3+60	-		RAMP A	6-50
21	0+60	-		RAMP A	6-50

FEED POINT J7C

BY	DATE	REVISIONS

DRAWN BY: DC      CKD BY:      DATE:     

CERTIFIED BY *Michael P. Lubensky* LIC. NO. 19863 DATE: 9/16/2014  
LICENSED PROFESSIONAL ENGINEER

**SALVAGE AND REMOVAL PLAN**

STATE PROJ. NO. 1928-60 (T.H. 52)      SHEET NO. 13 OF 31 SHEETS

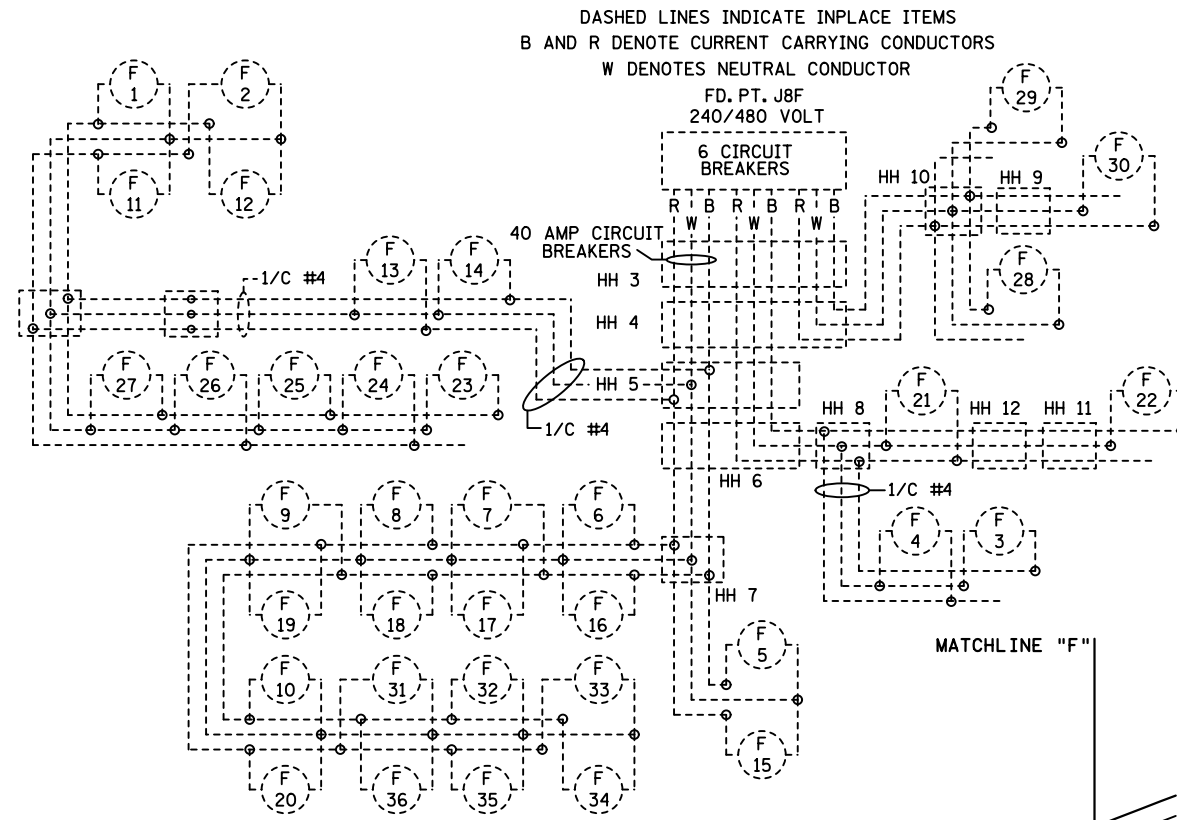
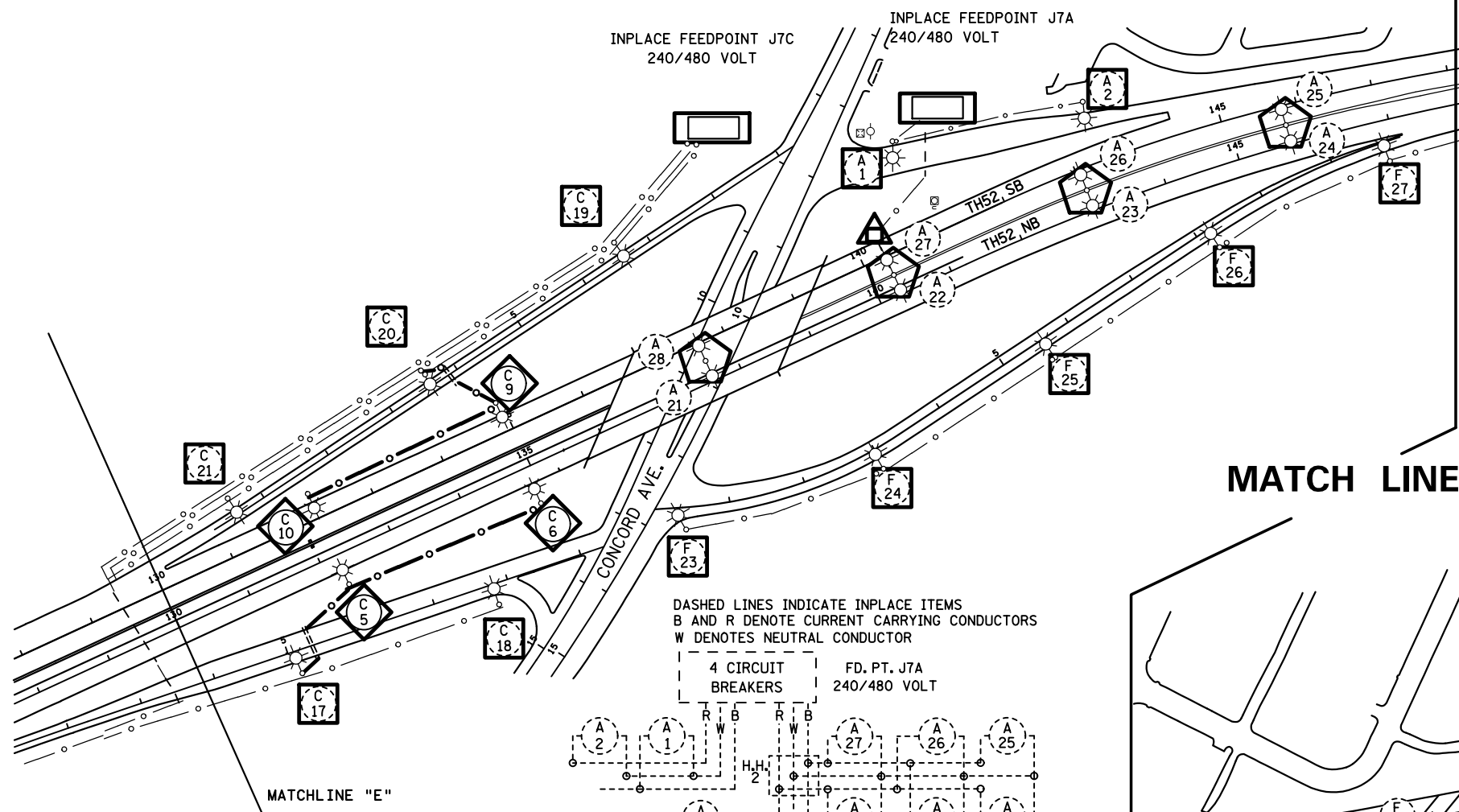
SEE LEGEND SHEET 5

FEEDPOINT J7A

LIGHTING STANDARDS AND FOUNDATIONS		
NO.	LOCATION	TYPE
1 - 2	RAMP B INPLACE	6-40
25 24	TH52 BARRIER INPLACE	6DB-50
28 23	TH52 BARRIER INPLACE	6DB-50

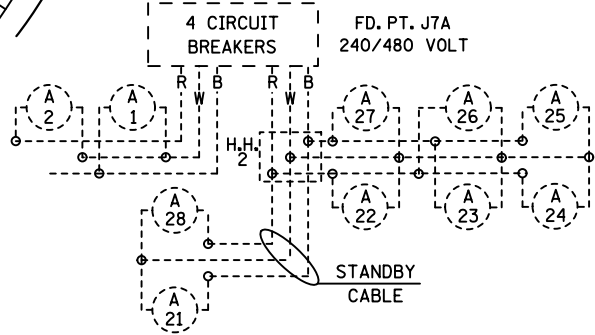


PLOTTED/REVISED: 9/16/2014



MATCH LINE

DASHED LINES INDICATE INPLACE ITEMS  
B AND R DENOTE CURRENT CARRYING CONDUCTORS  
W DENOTES NEUTRAL CONDUCTOR



FEEDPOINT J8C

LIGHTING STANDARDS AND FOUNDATIONS						
NO.	STATION	LT.	RT.	LOCATION	TYPE	WATTAGE
5	132+20			TH52NB	9-49	400
6	134+90			TH52NB		
9	134+90			TH52SB		
10	132+20			TH52SB	9B-49	400

ALL OTHER LIGHTING REMAINS INPLACE

INPLACE FEEDPOINT J8F  
240/480 VOLT

FEEDPOINT J8F LIGHTING STANDARDS AND FOUNDATIONS						
NO.	STATION	LT.	RT.	LOCATION	TYPE	WATTAGE
3	153+80			TH52NB	9B-49	400
4	156+50			TH52NB		
13	153+80			TH52SB		
14	156+50			TH52SB	9B-49	400

ALL OTHER LIGHTING REMAINS INPLACE

FEED POINT J7C, J7A, J8F

DISTRICT #: METRO  
IPLLOT NAME: 1928-60 removal.sht14  
PATH & FILENAME: IP\_PWP-d15884121928-60 removal.dgn

BY	DATE	REVISIONS

DRAWN BY: DC      CKD BY:      DATE:

CERTIFIED BY *Michael P. Lubensky* L.I.C. NO. 19863 DATE: 9/16/2014  
LICENSED PROFESSIONAL ENGINEER

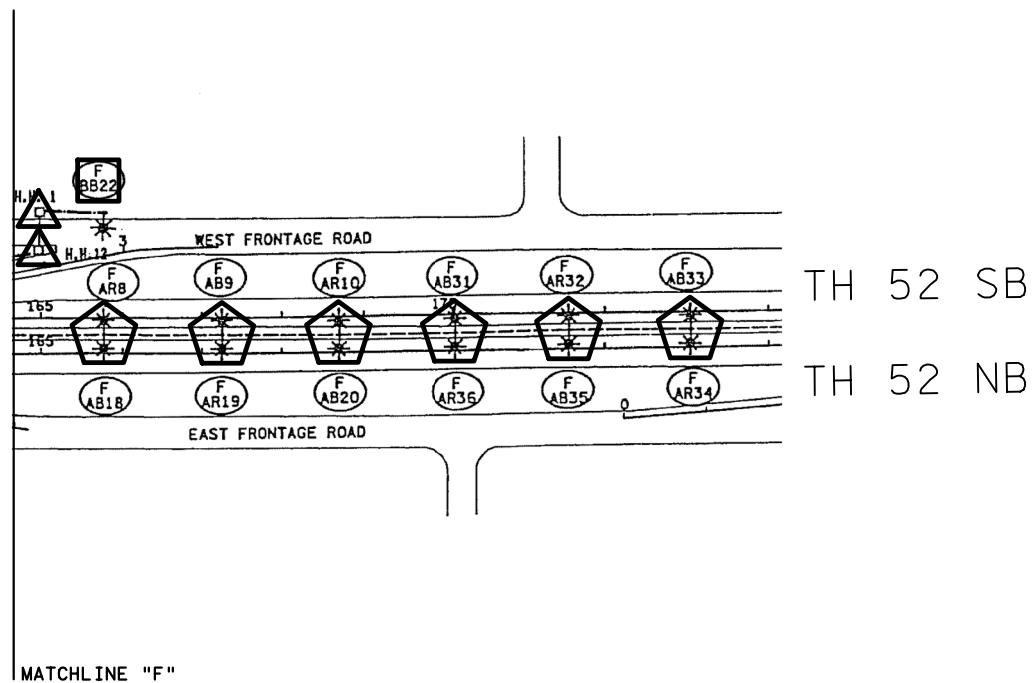
**SALVAGE AND REMOVAL PLAN**  
STATE PROJ.NO.1928-60(T.H. 52)      SHEET NO. 14 OF 31 SHEETS

SEE LEGEND SHEET 5

PLOTTED/REVISED: 9/16/2014



100  
SCALE IN FEET



FEED POINT J8F

DISTRICT #: METRO  
 PLOT NAME: 1928-60 removal.shf5  
 PATH & FILENAME: IP\_PWP-d\5884\2\1928-60 removal.dgn














BY	DATE	REVISIONS

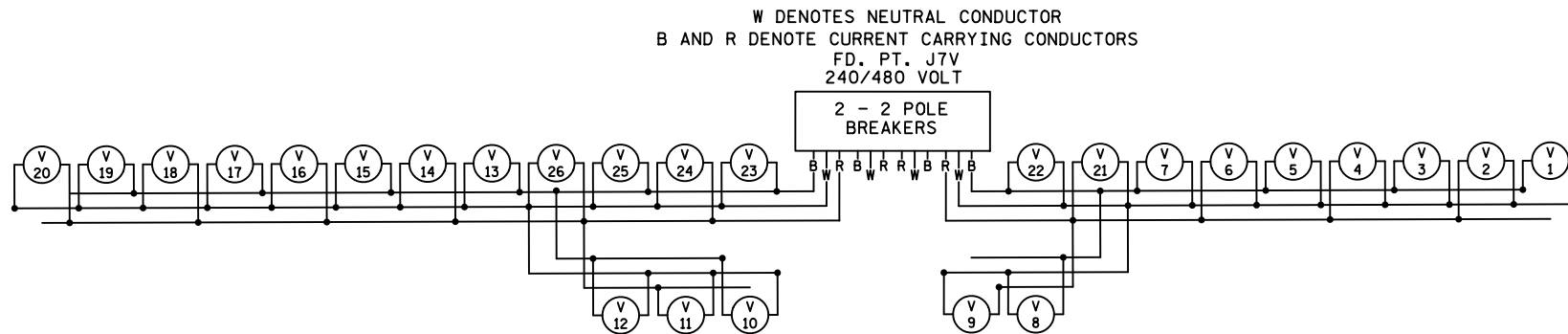
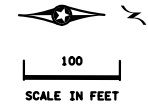
CERTIFIED BY *Michael P. Lubensky* LIC. NO. 19863 DATE: 9/16/2014  
LICENSED PROFESSIONAL ENGINEER

**SALVAGE AND REMOVAL PLAN**  
 STATE PROJ.NO.1928-60(T.H. 52) SHEET NO. 15 OF 31 SHEETS

DRAWN BY: DC CKD BY: DATE:

# LEGEND

-  LIGHTING UNIT
-  INPLACE LIGHT POLE - F&I L.E.D LUMINAIRE
-  INPLACE LIGHTING UNIT
-  INPLACE TYPE L - F&I LED LUMINAIRE
-  PERMANENT GROUND ROD (25 OHMS OR LESS)
-  DIRECT BURIED 4 CONDUCTOR NO. 4
-  PAD MOUNTED FD. PT. CABINET L1 EQUIPMENT PAD B
-  HANDHOLE
-  3" PVC (UNLESS OTHERWISE NOTED)
-  INPLACE HANDHOLE
-  INPLACE PAD MOUNTED FD. PT. CABINET
-  INPLACE CONDUIT
-  INPLACE DIRECT BURIED 4 CONDUCTOR NO. 4



FD. PT. J7V  
 PAD MOUNTED SERVICE CABINET  
 SECONDARY TYPE L1  
 240/480 V (METERED)  
 EQUIPMENT PAD TYPE B REQUIRE  
 2" R.S.C. 3-1/C #2 TO XCEL.  
 PAD MOUNTED TRANSFORMER

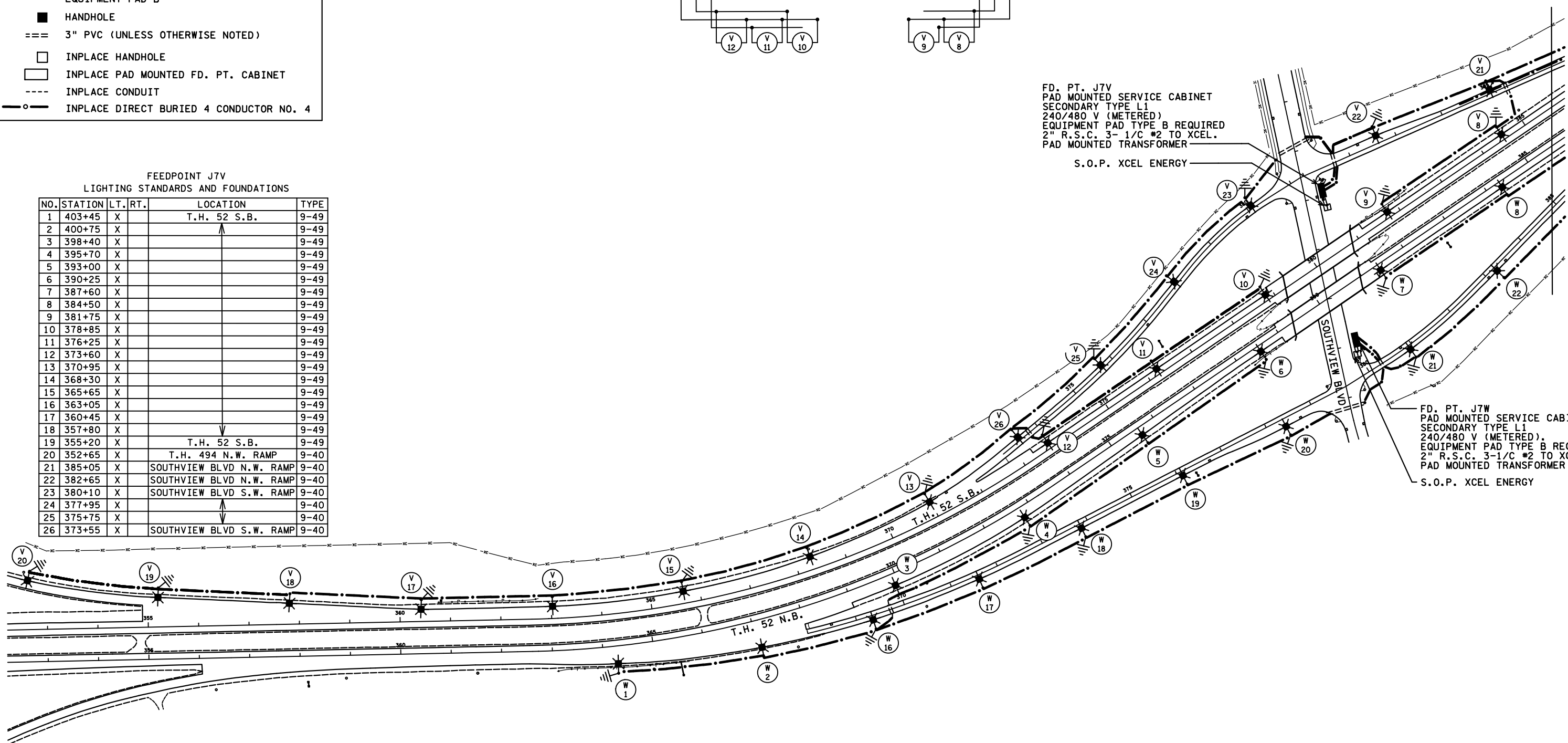
S.O.P. XCEL ENERGY

FD. PT. J7W  
 PAD MOUNTED SERVICE CABINET  
 SECONDARY TYPE L1  
 240/480 V (METERED).  
 EQUIPMENT PAD TYPE B REQUIRE  
 2" R.S.C. 3-1/C #2 TO XCEL  
 PAD MOUNTED TRANSFORMER

S.O.P. XCEL ENERGY

## FEEDPOINT J7V LIGHTING STANDARDS AND FOUNDATIONS

NO.	STATION	LT.	RT.	LOCATION	TYPE
1	403+45	X		T.H. 52 S.B.	9-49
2	400+75	X			9-49
3	398+40	X			9-49
4	395+70	X			9-49
5	393+00	X			9-49
6	390+25	X			9-49
7	387+60	X			9-49
8	384+50	X			9-49
9	381+75	X			9-49
10	378+85	X			9-49
11	376+25	X			9-49
12	373+60	X			9-49
13	370+95	X			9-49
14	368+30	X			9-49
15	365+65	X			9-49
16	363+05	X			9-49
17	360+45	X			9-49
18	357+80	X			9-49
19	355+20	X		T.H. 52 S.B.	9-49
20	352+65	X		T.H. 494 N.W. RAMP	9-40
21	385+05	X		SOUTHVIEW BLVD N.W. RAMP	9-40
22	382+65	X		SOUTHVIEW BLVD N.W. RAMP	9-40
23	380+10	X		SOUTHVIEW BLVD S.W. RAMP	9-40
24	377+95	X			9-40
25	375+75	X			9-40
26	373+55	X		SOUTHVIEW BLVD S.W. RAMP	9-40



J7V METER ADDRESS: 2450 SOUTHVIEW AVE SOUTH ST. PAUL 55075  
 J7W METER ADDRESS: 2300 SOUTHVIEW AVE SOUTH ST. PAUL 55075

FEED POINT J7V, J7W

FEEDPOINT: J7V - J7W LOCATION: TH52 AT CSAH 14/ SOUTHVIEW AVE.

## LIGHTING PLAN

BY	DATE	REVISIONS

CERTIFIED BY *Michael P. Libensky* LIC. NO. 19863 DATE: 9/16/2014  
LICENSED PROFESSIONAL ENGINEER

STATE PROJ.NO. 1928-60 (T.H. 52) SHEET NO. 16 OF 31 SHEETS

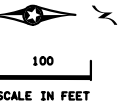
DRAWN BY: DC CKD BY: GB DATE: 8/2014

PLOTTED/REVISED: 9/16/2014

DISTRICT #: METRO  
 I/PLOT NAME: 1928-60.L1.sht16  
 PATH & FILENAME: IP\_PWP-d\5884\2\1928-60.L1.dgn

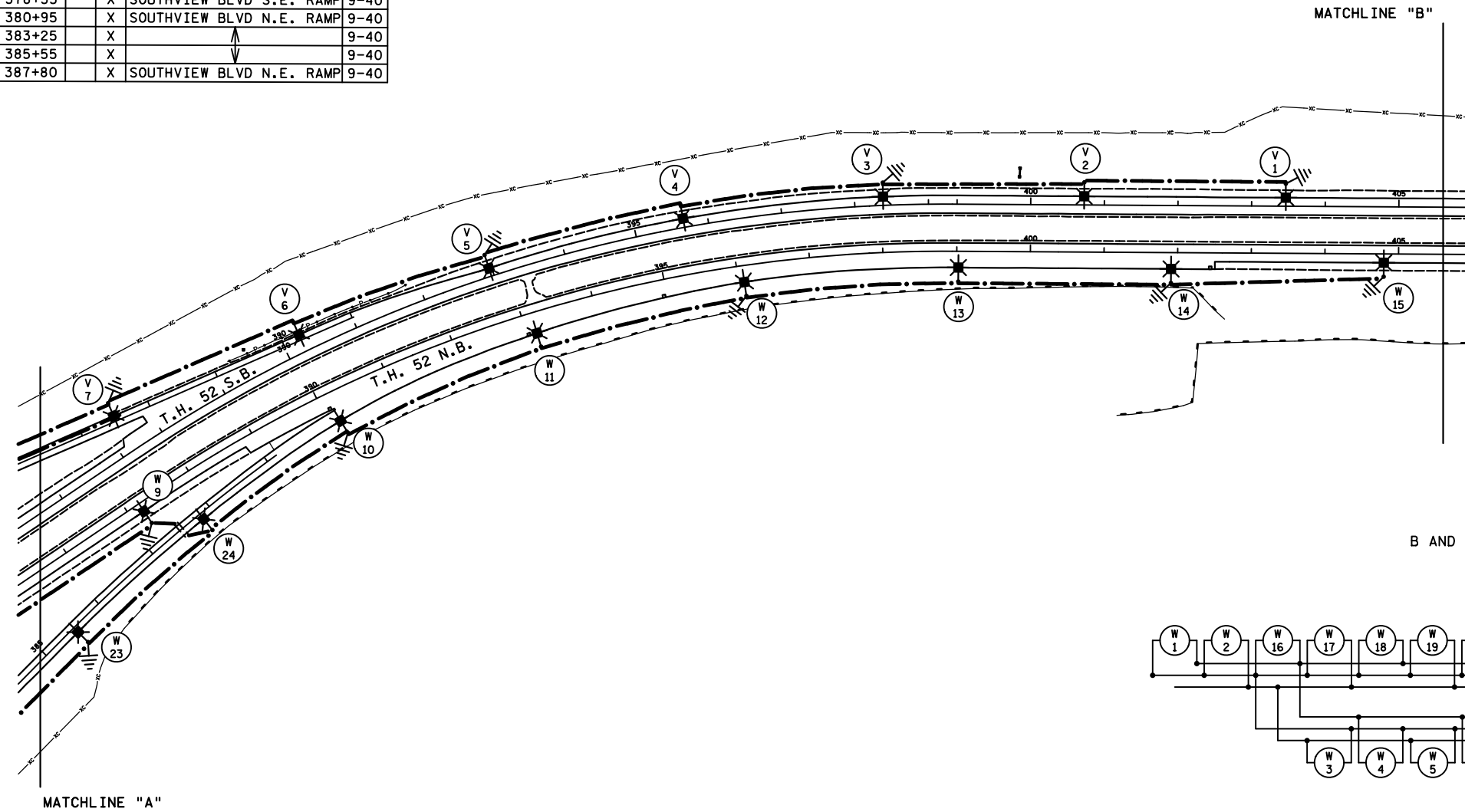


SEE LEGEND SHEET 16

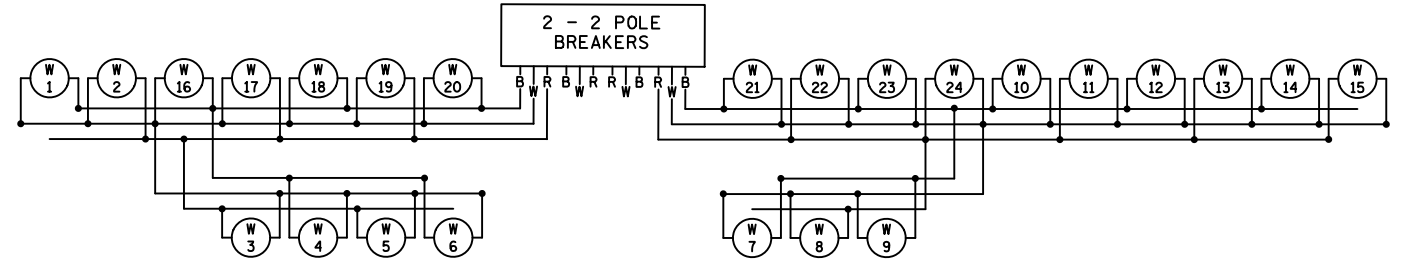


FEEDPOINT J7W  
LIGHTING STANDARDS AND FOUNDATIONS

NO.	STATION	LT.	RT.	LOCATION	TYPE
1	364+25		X	T.H. 52 N.B.	9-49
2	367+05		X		9-49
3	369+95		X		9-49
4	372+80		X		9-49
5	375+65		X		9-49
6	378+50		X		9-49
7	381+40		X		9-49
8	384+30		X		9-49
9	387+20		X		9-49
10	390+15		X		9-49
11	393+15		X		9-49
12	396+10		X		9-49
13	399+00		X		9-49
14	401+90		X		9-49
15	404+80		X	T.H. 52 N.B.	9-49
16	369+30	X		SOUTHVIEW BLVD S.E. RAMP	9-40
17	371+55	X			9-40
18	373+85	X			9-40
19	376+10	X			9-40
20	378+35	X		SOUTHVIEW BLVD S.E. RAMP	9-40
21	380+95	X		SOUTHVIEW BLVD N.E. RAMP	9-40
22	383+25	X			9-40
23	385+55	X			9-40
24	387+80	X		SOUTHVIEW BLVD N.E. RAMP	9-40



W DENOTES NEUTRAL CONDUCTOR  
B AND R DENOTE CURRENT CARRYING CONDUCTORS  
FD. PT. J7W  
240/480 VOLT



J7V METER ADDRESS: 2450 SOUTHVIEW AVE SOUTH ST. PAUL 55075  
J7W METER ADDRESS: 2300 SOUTHVIEW AVE SOUTH ST. PAUL 55075

FEED POINT J7V, J7W

FEEDPOINT: J7V - J7W LOCATION: TH52 AT CSAH 14/ SOUTHVIEW AVE.

**LIGHTING PLAN**

BY	DATE	REVISIONS

DRAWN BY: DC CKD BY: GB DATE: 8/2014

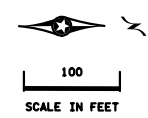
CERTIFIED BY *Michael P. Libensky* LIC. NO. 19863 DATE: 9/16/2014  
LICENSED PROFESSIONAL ENGINEER

STATE PROJ.NO. 1928-60 (T.H. 52) SHEET NO. 17 OF 31 SHEETS

PLOTTED/REVISED: 9/16/2014

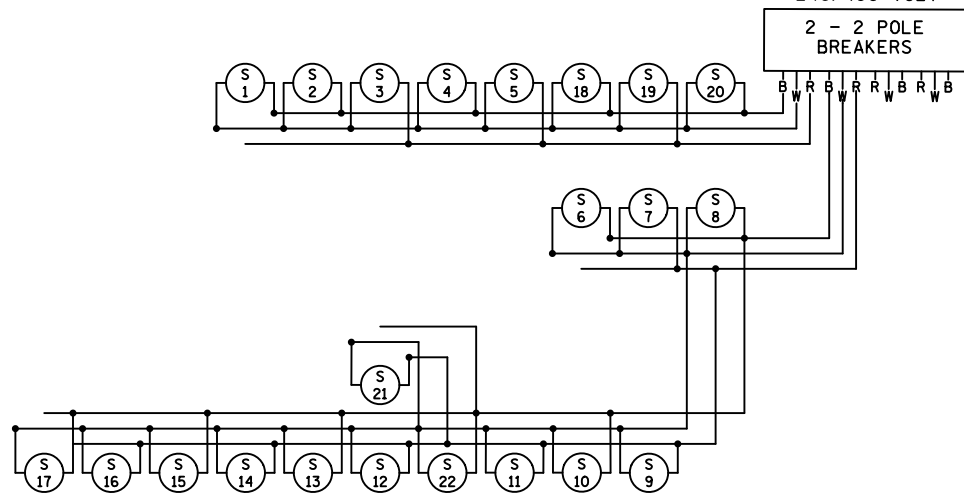
DISTRICT #: METRO  
PLOT NAME: 1928-60.L17.dgn  
PATH & FILENAME: IP\_PWP-d\5884\2\1928-60.L17.dgn

SEE LEGEND SHEET 16



PLOTTED/REVISED: 9/16/2014

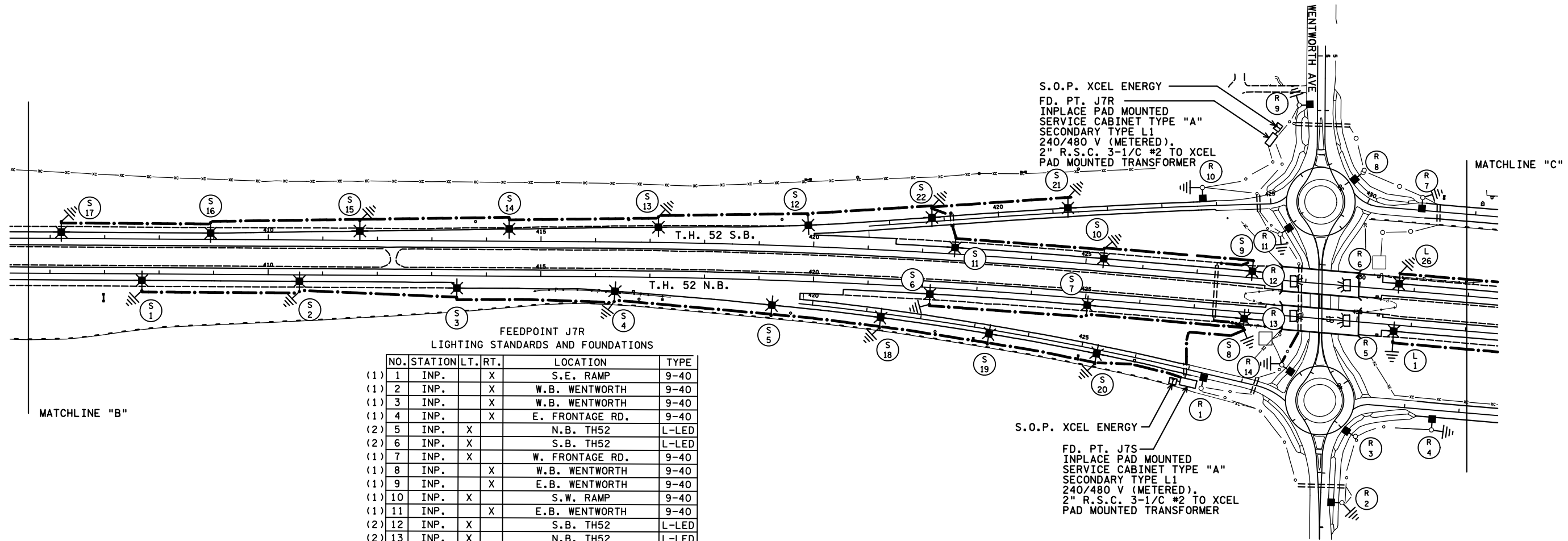
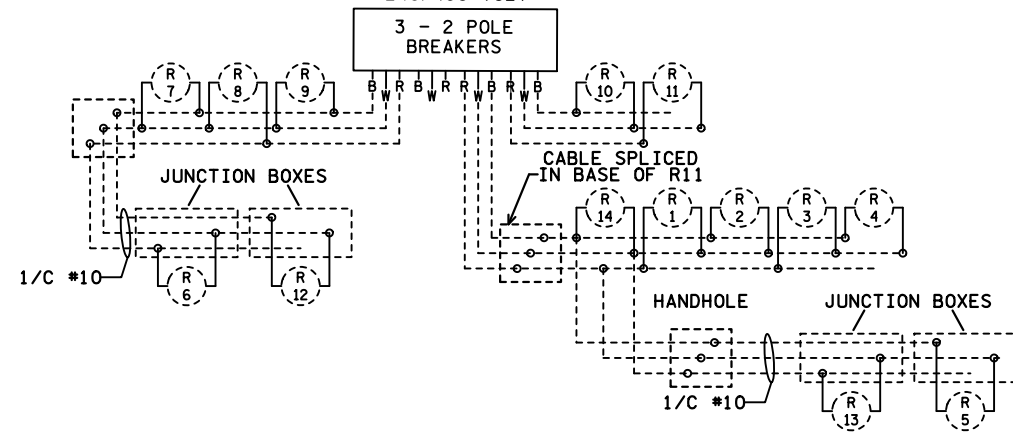
W DENOTES NEUTRAL CONDUCTOR  
B AND R DENOTE CURRENT CARRYING CONDUCTORS  
FD. PT. J7S  
240/480 VOLT



FEEDPOINT J7S  
LIGHTING STANDARDS AND FOUNDATIONS

NO.	STATION	LT.	RT.	LOCATION	TYPE
1	407+70		X	T.H. 52 N.B.	9-49
2	410+55		X		9-49
3	413+45		X		9-49
4	416+35		X		9-49
5	419+25		X		9-49
6	422+15		X		9-49
7	425+05		X		9-49
8	427+95		X	T.H. 52 N.B.	9-49
9	428+00	X		T.H. 52 S.B.	9-49
10	425+30	X			9-49
11	422+60	X			9-49
12	419+90	X			9-49
13	417+15	X			9-49
14	414+40	X			9-49
15	411+70	X			9-49
16	408+95	X			9-49
17	406+20	X		T.H. 52 S.B.	9-49
18	421+25		X	WENTWORTH AVE S.E. RAMP	9-40
19	423+30		X	WENTWORTH AVE S.E. RAMP	9-40
20	425+30		X	WENTWORTH AVE S.E. RAMP	9-40
21	421+30	X		WENTWORTH AVE S.W. RAMP	9-40
22	418+80	X		WENTWORTH AVE S.W. RAMP	9-40

W DENOTES NEUTRAL CONDUCTOR  
B AND R DENOTE CURRENT CARRYING CONDUCTORS  
FD. PT. J7R  
240/480 VOLT



FEEDPOINT J7R  
LIGHTING STANDARDS AND FOUNDATIONS

NO.	STATION	LT.	RT.	LOCATION	TYPE
(1)	1	INP.	X	S.E. RAMP	9-40
(1)	2	INP.	X	W.B. WENTWORTH	9-40
(1)	3	INP.	X	W.B. WENTWORTH	9-40
(1)	4	INP.	X	E. FRONTAGE RD.	9-40
(2)	5	INP.	X	N.B. TH52	L-LED
(2)	6	INP.	X	S.B. TH52	L-LED
(1)	7	INP.	X	W. FRONTAGE RD.	9-40
(1)	8	INP.	X	W.B. WENTWORTH	9-40
(1)	9	INP.	X	E.B. WENTWORTH	9-40
(1)	10	INP.	X	S.W. RAMP	9-40
(1)	11	INP.	X	E.B. WENTWORTH	9-40
(2)	12	INP.	X	S.B. TH52	L-LED
(2)	13	INP.	X	N.B. TH52	L-LED
(1)	14	INP.	X	E.B. WENTWORTH	9-40

(1) F&I 40' TYPE LUMINAIRE  
(2) F&I TYPE L LUMINAIRE

J7S METER ADDRESS: 2455 WENTWORTH AVE SOUTH ST. PAUL 55075  
J7S METER ADDRESS: 400 WENTWORTH AVE WEST ST. PAUL 55118

FEED POINT J7S, J7R, J7L

DISTRICT #: METRO  
PLOT NAME: 1928-60.L1.sht18  
PATH & FILENAME: IP\_PWP-d\5884\2\1928-60.L1.dgn

BY	DATE	REVISIONS	FEEDPOINT: J7S, J7R	LOCATION: TH52 AT WENTWORTH AVE.	<b>LIGHTING PLAN</b>
DRAWN BY: DC			CERTIFIED BY: <i>Michael P. Libensky</i>		STATE PROJ. NO. 1928-60 (T.H. 52) SHEET NO. 18 OF 31
CKD BY: GB			LIC. NO. 19863		
DATE: 8/2014			DATE: 9/16/2014		

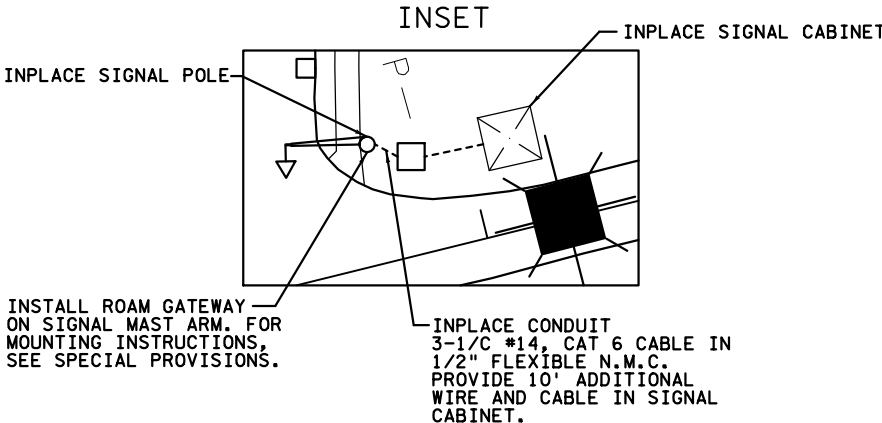
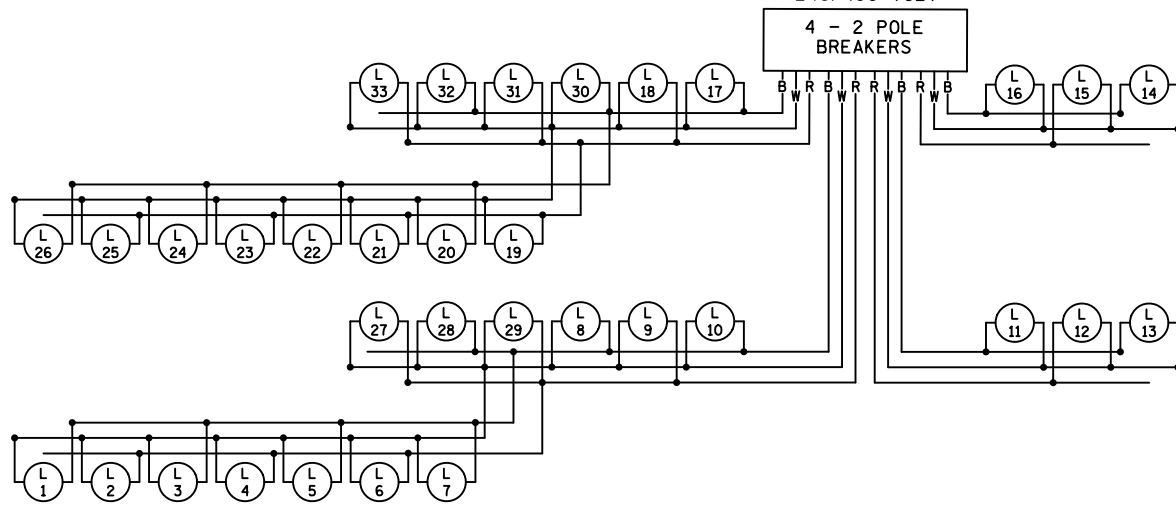
SEE LEGEND SHEET 16

W DENOTES NEUTRAL CONDUCTOR  
 B AND R DENOTE CURRENT CARRYING CONDUCTORS  
 FD. PT. J7L  
 240/480 VOLT

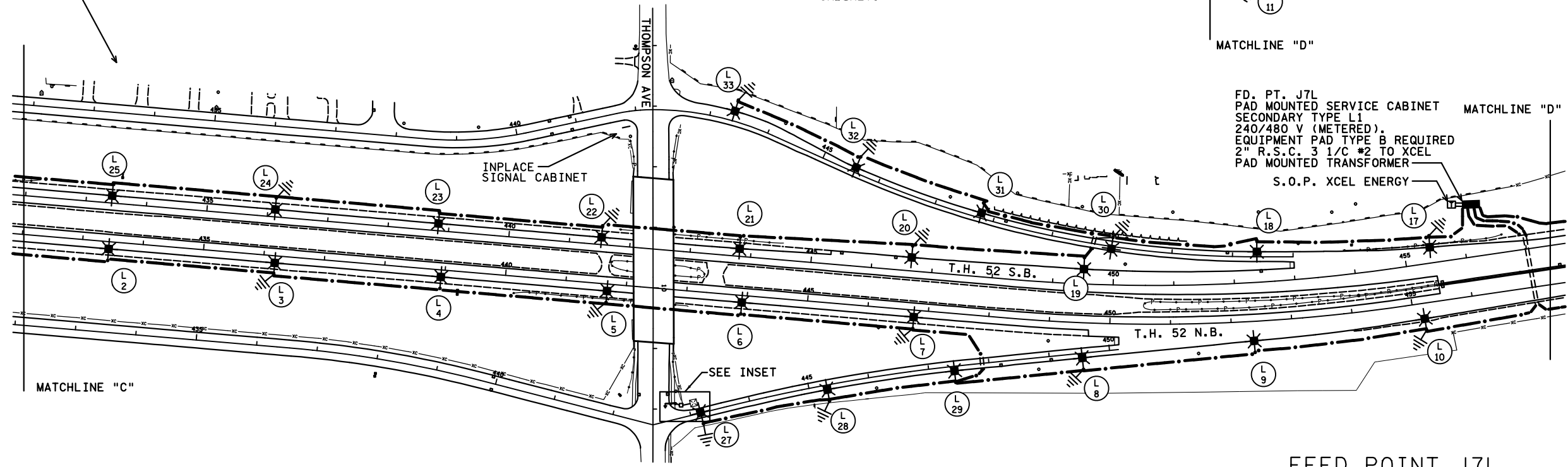
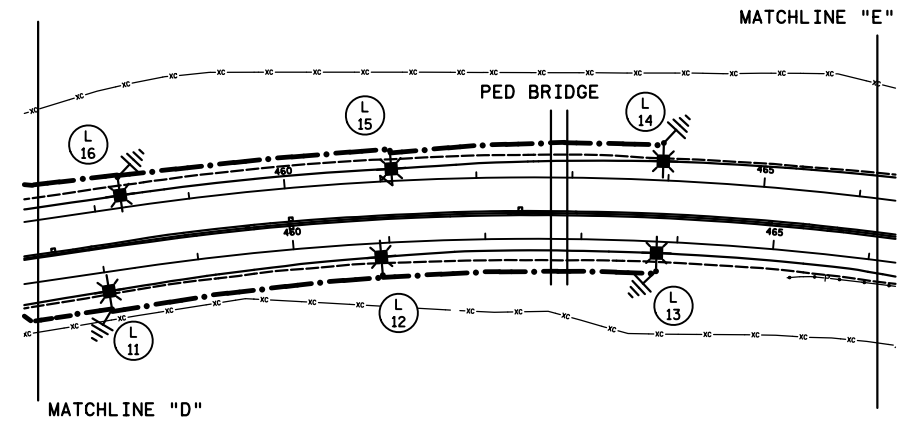


FEEDPOINT J7L  
 LIGHTING STANDARDS AND FOUNDATIONS

NO.	STATION	LT.	RT.	LOCATION	TYPE
1	430+70		X	T.H. 52 N.B.	9-49
2	433+45		X		9-49
3	436+20		X		9-49
4	438+95		X		9-49
5	441+70		X		9-49
6	443+90		X		9-49
7	446+75		X		9-49
8	449+60		X		9-49
9	452+40		X		9-49
10	455+20		X		9-49
11	458+05		X		9-49
12	460+90		X		9-49
13	463+80		X	T.H. 52 N.B.	9-49
14	463+95	X		T.H. 52 S.B.	9-49
15	461+10	X			9-49
16	458+30	X			9-49
17	455+45	X			9-49
18	452+40	X			9-49
19	449+50	X			9-49
20	446+65	X			9-49
21	443+80	X			9-49
22	441+50	X			9-49
23	438+80	X			9-49
24	436+10	X			9-49
25	433+40	X			9-49
26	430+70	X		T.H. 52 S.B.	9-49
27	443+15	X		THOMPSON AVE N.E. RAMP	9-40
28	445+30	X		THOMPSON AVE N.E. RAMP	9-40
29	447+40	X		THOMPSON AVE N.E. RAMP	9-40
30	450+00	X		THOMPSON AVE N.W. RAMP	9-40
31	447+75	X			9-40
32	445+55	X			9-40
33	443+40	X		THOMPSON AVE N.W. RAMP	9-40



NOTE: INSTALL ROAM GATEWAY ON SIGNAL MAST ARM. FOR MOUNTING INSTRUCTION SEE SPECIAL PROVISIONS.



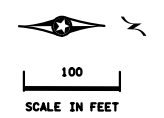
FD. PT. J7L  
 PAD MOUNTED SERVICE CABINET  
 SECONDARY TYPE L1  
 240/480 V (METERED).  
 EQUIPMENT PAD TYPE B REQUIRED  
 2" R.S.C. 3 1/2" #2 TO XCEL  
 PAD MOUNTED TRANSFORMER  
 S.O.P. XCEL ENERGY

FEED POINT J7L

BY	DATE	REVISIONS	FEEDPOINT: J7L	LOCATION: TH52 AT THOMPSON AVE	LIGHTING PLAN
			METER ADDRESS: 1380 WATERLOO AVE WEST ST. PAUL 55118		
DRAWN BY: DC			CERTIFIED BY: <i>Michael P. Libensky</i>	LIC. NO. 19863	DATE: 9/16/2014
CKD BY: GB			DATE: 8/2014	STATE PROJ.NO. 1928-60 (T.H. 52) SHEET NO. 19 OF 31 SHEETS	

DISTRICT #: METRO  
 PLOT NAME: 1928-60.L1.stm19  
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 PLOTTED/REVISED: 9/16/2014

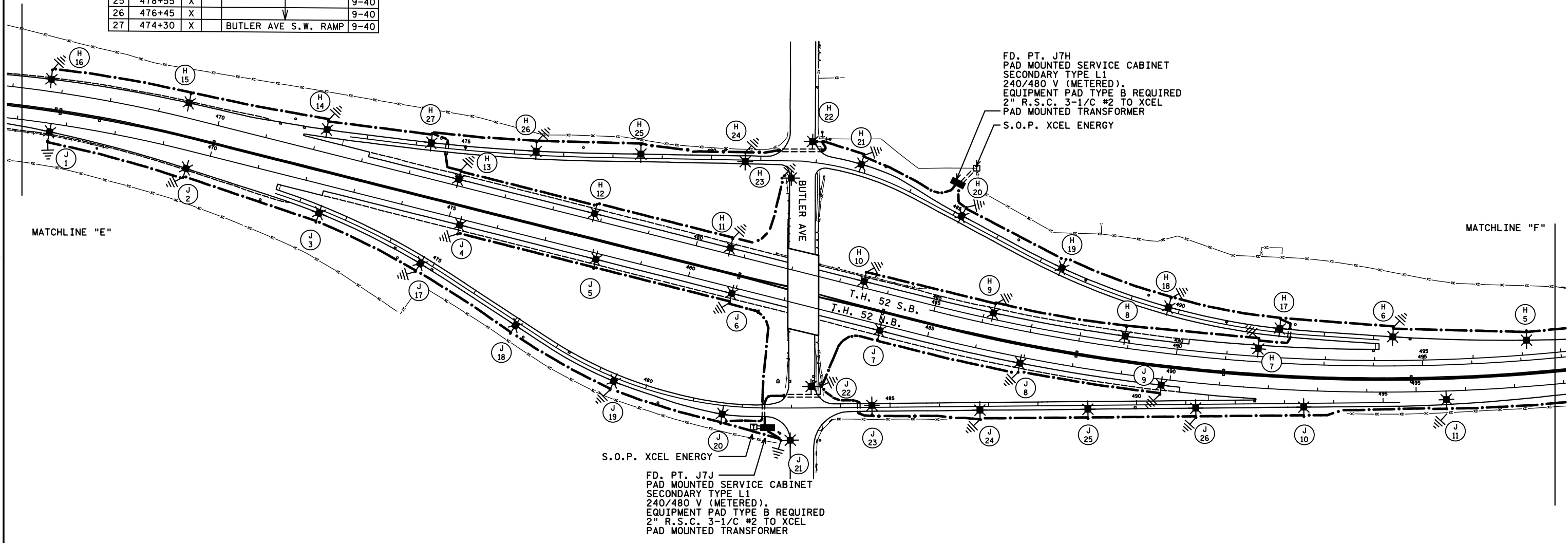
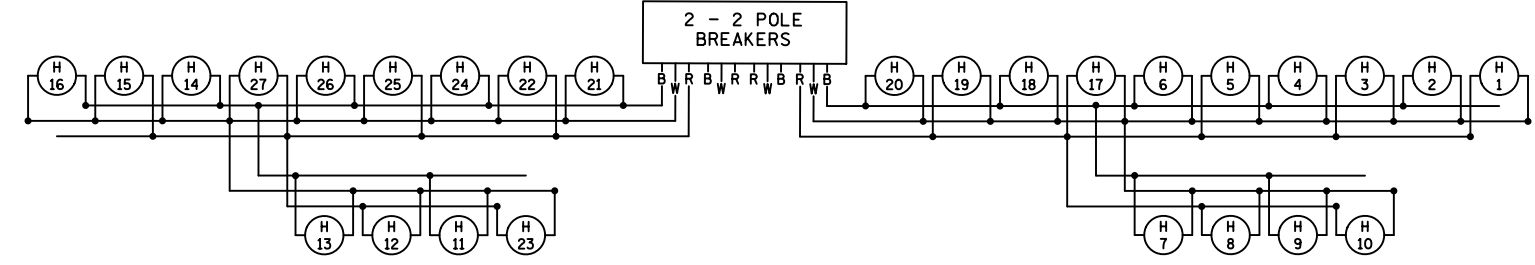
SEE LEGEND SHEET 16



FEEDPOINT J7H  
LIGHTING STANDARDS AND FOUNDATIONS

NO.	STATION	LT.	RT.	LOCATION	TYPE
1	508+25		X	T.H. 52 S.B.	9-49
2	505+55		X		9-49
3	502+80		X		9-49
4	500+10		X		9-49
5	497+10		X		9-49
6	494+40		X		9-49
7	491+65		X		9-49
8	488+90		X		9-49
9	486+20		X		9-49
10	483+50		X		9-49
11	480+70		X		9-49
12	477+85		X		9-49
13	475+00		X		9-49
14	472+15		X		9-49
15	469+55		X		9-49
16	466+75		X	T.H. 52 S.B.	9-49
17	492+10	X		BUTLER AVE N.W. RAMP	9-40
18	489+75	X			9-40
19	487+45	X			9-40
20	485+15	X			9-40
21	482+95	X			9-40
22	AS SHOWN	X		BUTLER AVE N.W. RAMP	9-40
23	AS SHOWN	X	X	BUTLER AVE S.W. RAMP	9-40
24	480+70	X			9-40
25	478+55	X			9-40
26	476+45	X			9-40
27	474+30	X		BUTLER AVE S.W. RAMP	9-40

W DENOTES NEUTRAL CONDUCTOR  
B AND R DENOTE CURRENT CARRYING CONDUCTORS  
FD. PT. J7H  
240/480 VOLT



J7H METER ADDRESS: 440 STANLEY ST. WEST ST. PAUL 55118  
J7J METER ADDRESS: 2201 BUTLER AVE SOUTH ST. PAUL 55075

FEED POINT J7H, J7J

BY	DATE	REVISIONS	FEEDPOINT: J7H - J7J	LOCATION: TH 52 AT BUTLER AVE	LIGHTING PLAN
DC	8/2014				
DRAWN BY: DC CKD BY: GB DATE: 8/2014			CERTIFIED BY <i>Michael P. Libensky</i> LIC. NO. 19863 DATE: 9/16/2014		STATE PROJ. NO. 1928-60 (T.H. 52) SHEET NO. 20 OF 31 SHEETS

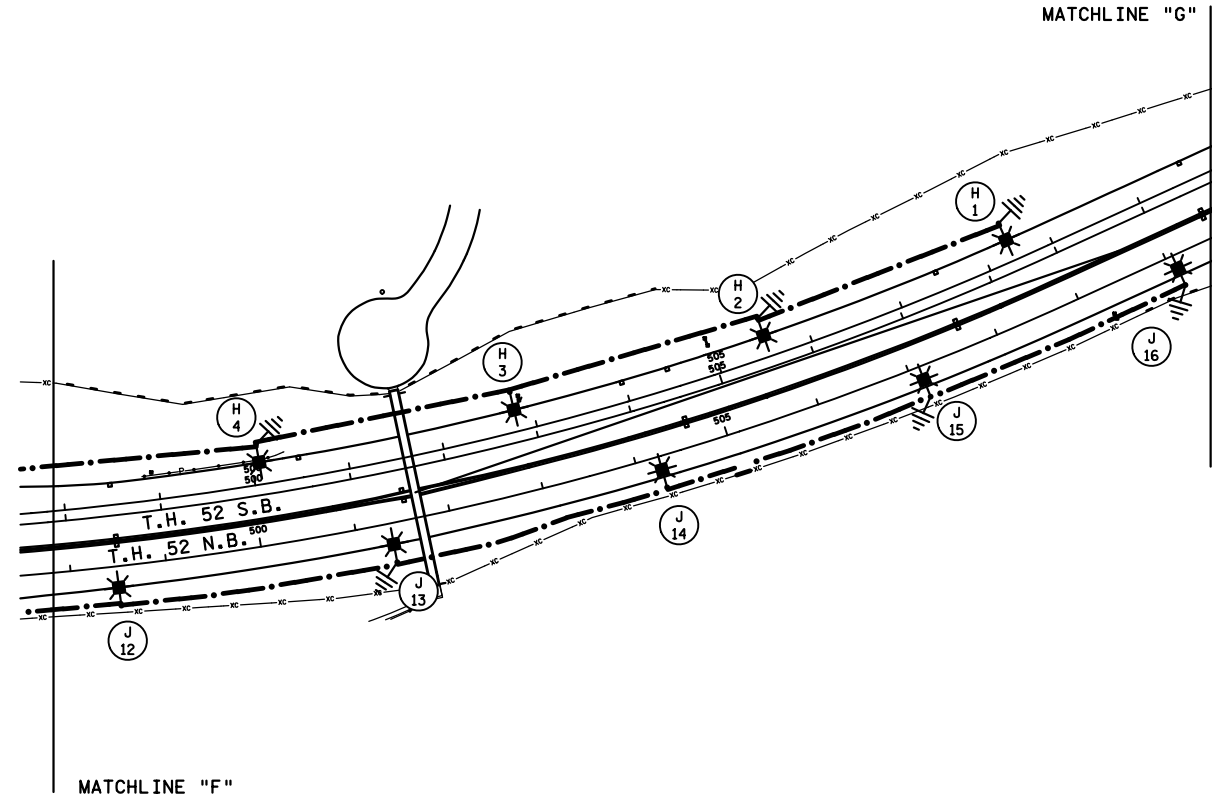
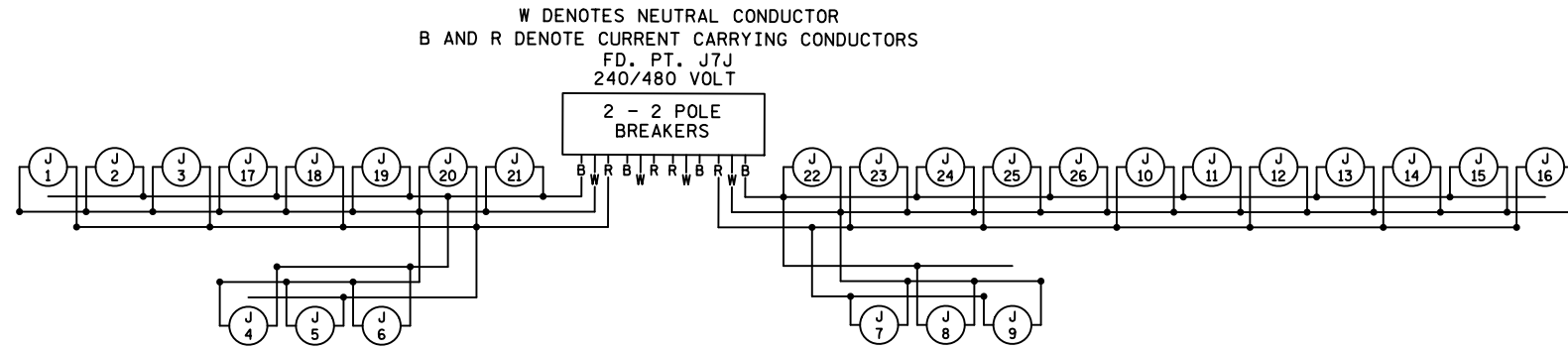
DISTRICT #: METRO  
 PLOT NAME: 1928-60.II.sht20  
 PATH & FILENAME: IP\_PWP-d\5884\2\1928-60.II.lo.dgn  
 PLOTTED/REVISED: 9/16/2014

SEE LEGEND SHEET 16



FEEDPOINT J7J  
LIGHTING STANDARDS AND FOUNDATIONS

NO.	STATION	LT.	RT.	LOCATION	TYPE
1	466+85		X	T.H. 52 N.B.	9-49
2	469+55		X		9-49
3	472+40		X		9-49
4	475+25		X		9-49
5	478+10		X		9-49
6	480+95		X		9-49
7	484+05		X		9-49
8	486+95		X		9-49
9	489+85		X		9-49
10	492+75		X		9-49
11	495+60		X		9-49
12	498+50		X		9-49
13	501+35		X		9-49
14	504+25		X		9-49
15	507+10		X		9-49
16	107+10		X	T.H. 52 N.B.	9-49
17	474+75		X	BUTLER AVE S.E. RAMP	9-40
18	477+05		X		9-40
19	479+35		X		9-40
20	481+65		X		9-40
21	AS SHOWN		X	BUTLER AVE S.E. RAMP	9-40
22	AS SHOWN	X	X	BUTLER AVE N.E. RAMP	9-40
23	484+65		X		9-40
24	486+80		X		9-40
25	489+00		X		9-40
26	491+20		X	BUTLER AVE N.E. RAMP	9-40



J7H METER ADDRESS: 440 STANLEY ST. WEST ST. PAUL 55118  
J7J METER ADDRESS: 2201 BUTLER AVE SOUTH ST. PAUL 55075

FEED POINT J7H, J7J

FEEDPOINT: J7H - J7J LOCATION: TH52 AT BUTLER AVE

LIGHTING PLAN

BY	DATE	REVISIONS

CERTIFIED BY *Michael P. Libensky* LIC. NO. 19863 DATE: 9/16/2014  
LICENSED PROFESSIONAL ENGINEER

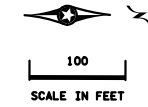
STATE PROJ.NO. 1928-60 (T.H. 52) SHEET NO. 21 OF 31 SHEETS

DRAWN BY: DC CKD BY: GB DATE: 8/2014

PLOTTED/REVISED: 9/16/2014

DISTRICT #: METRO  
PLOT NAME: 1928-60.II.stf121  
PATH & FILENAME: IP\_PWP-d\5884\2\1928-60.II.II.dgn

SEE LEGEND SHEET 16

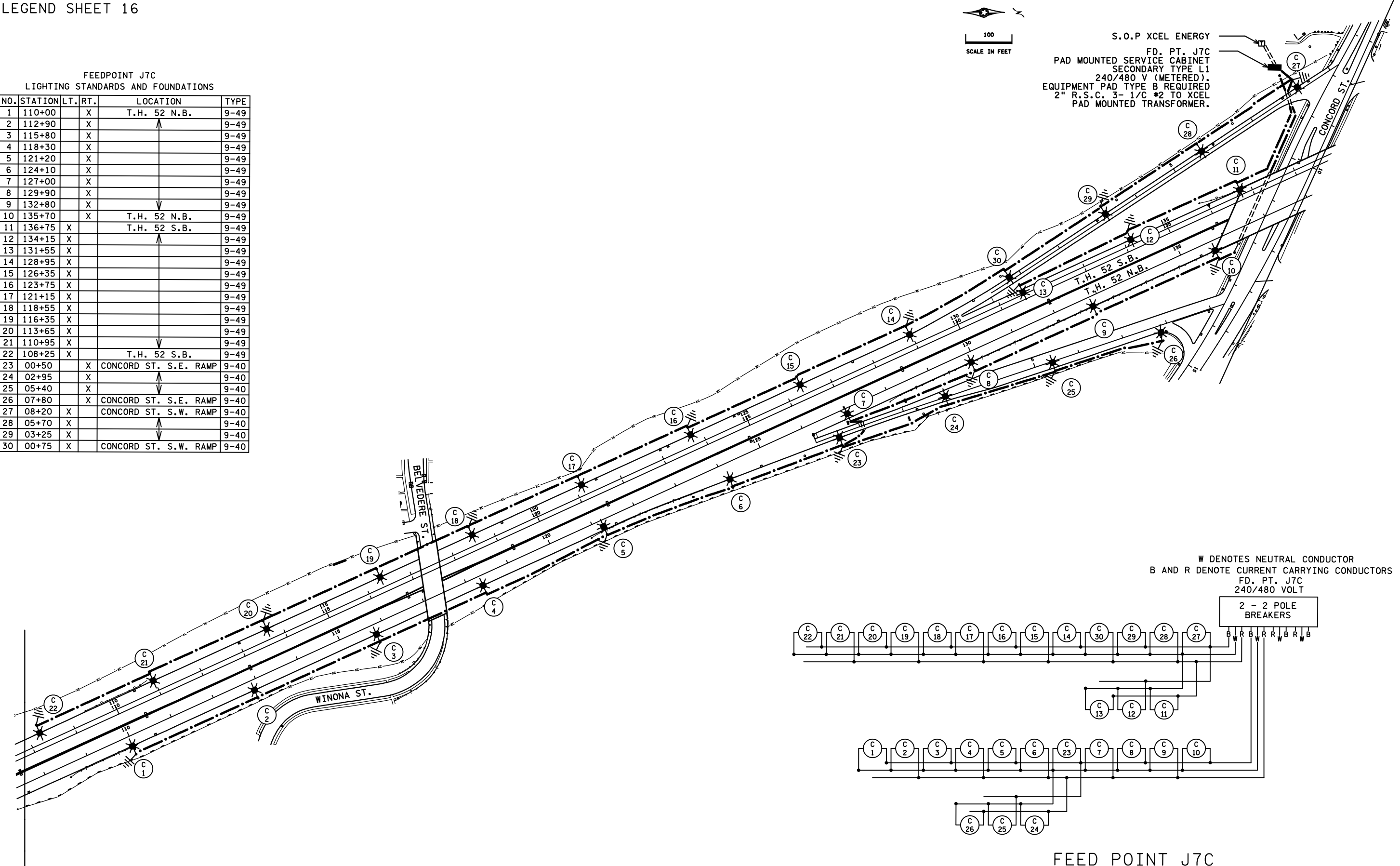


MATCHLINE "H"

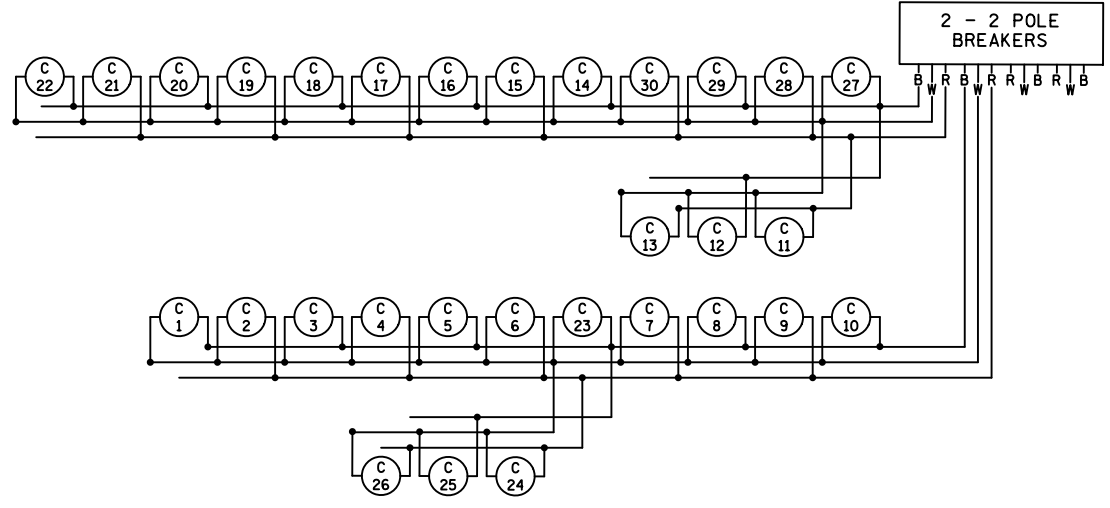
S.O.P XCEL ENERGY  
 FD. PT. J7C  
 PAD MOUNTED SERVICE CABINET  
 SECONDARY TYPE L1  
 240/480 V (METERED).  
 EQUIPMENT PAD TYPE B REQUIRED  
 2" R.S.C. 3- 1/C #2 TO XCEL  
 PAD MOUNTED TRANSFORMER.

FEEDPOINT J7C  
 LIGHTING STANDARDS AND FOUNDATIONS

NO.	STATION	LT.	RT.	LOCATION	TYPE
1	110+00		X	T.H. 52 N.B.	9-49
2	112+90		X		9-49
3	115+80		X		9-49
4	118+30		X		9-49
5	121+20		X		9-49
6	124+10		X		9-49
7	127+00		X		9-49
8	129+90		X		9-49
9	132+80		X		9-49
10	135+70		X	T.H. 52 N.B.	9-49
11	136+75	X		T.H. 52 S.B.	9-49
12	134+15	X			9-49
13	131+55	X			9-49
14	128+95	X			9-49
15	126+35	X			9-49
16	123+75	X			9-49
17	121+15	X			9-49
18	118+55	X			9-49
19	116+35	X			9-49
20	113+65	X			9-49
21	110+95	X			9-49
22	108+25	X		T.H. 52 S.B.	9-49
23	00+50	X	X	CONCORD ST. S.E. RAMP	9-40
24	02+95		X		9-40
25	05+40		X		9-40
26	07+80	X	X	CONCORD ST. S.E. RAMP	9-40
27	08+20	X		CONCORD ST. S.W. RAMP	9-40
28	05+70	X			9-40
29	03+25	X			9-40
30	00+75	X	X	CONCORD ST. S.W. RAMP	9-40



W DENOTES NEUTRAL CONDUCTOR  
 B AND R DENOTE CURRENT CARRYING CONDUCTORS  
 FD. PT. J7C  
 240/480 VOLT



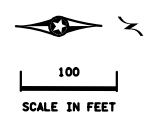
FEED POINT J7C

PLOTTED/REVISED: 9/16/2014

DISTRICT #: METRO  
 I/PLOT NAME: 1928-60.II.sht22  
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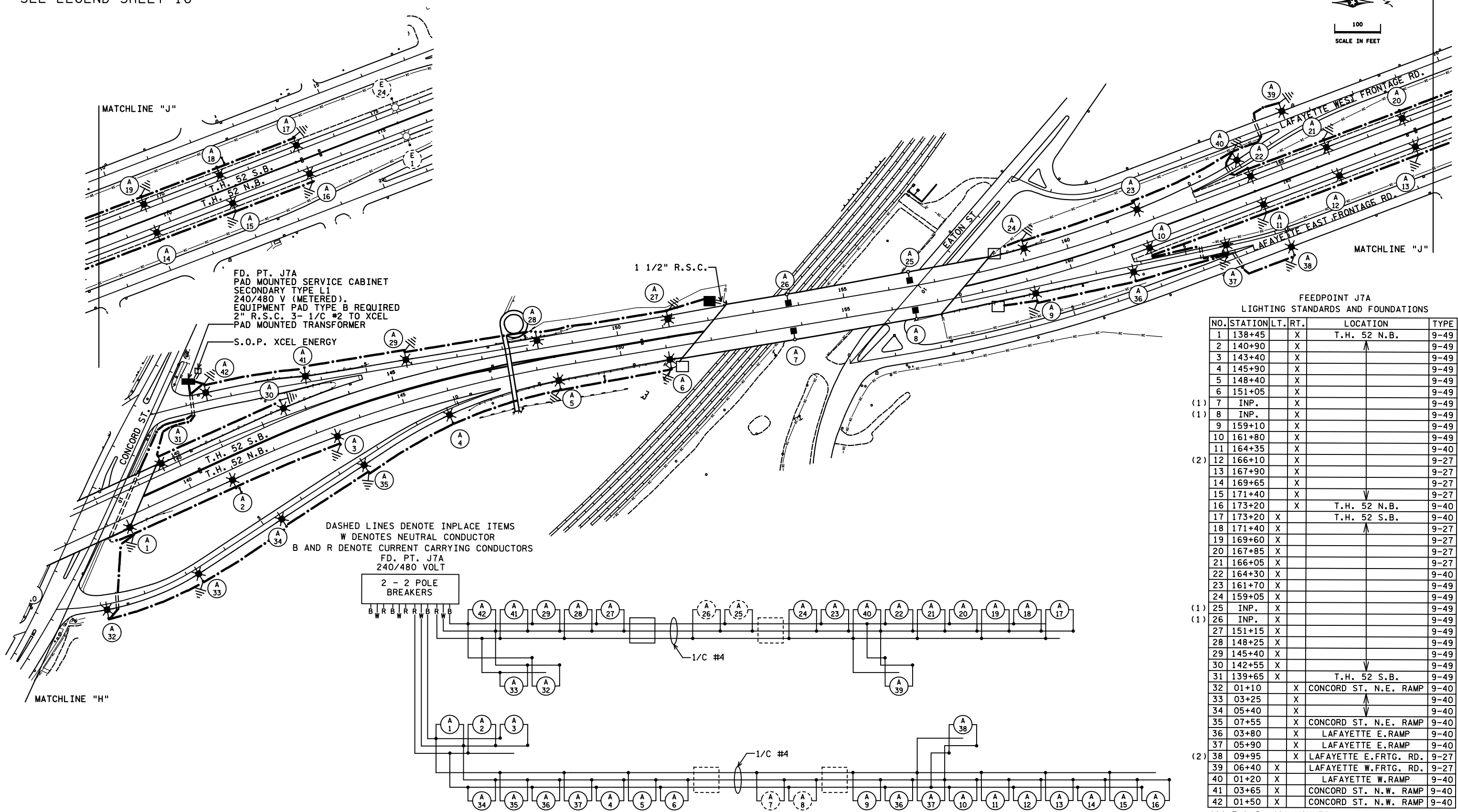
BY	DATE	REVISIONS	FEEDPOINT: J7C	LOCATION: TH52 AT CONCORD ST.	<b>LIGHTING PLAN</b>
			METER ADDRESS: 360 CONCORD ST. ST. PAUL 55107		
DRAWN BY: DC	CKD BY: GB	DATE: 8/2014	CERTIFIED BY <i>Michael P. Libensky</i>	LIC. NO. 19863	DATE: 9/16/2014
			STATE PROJ.NO. 1928-60 (T.H. 52) SHEET NO. 22 OF 31 SHEETS		

SEE LEGEND SHEET 16



PLOTTED/REVISED: 9/16/2014

DISTRICT #: METRO  
 I/PLOT NAME: 1928-60.II.sht23  
 PATH & FILENAME: IP\_PWP-d\5884\2\1928-60.II.dwg



FD. PT. J7A  
 PAD MOUNTED SERVICE CABINET  
 SECONDARY TYPE L1  
 240/480 V (METERED)  
 EQUIPMENT PAD TYPE B REQUIRED  
 2" R.S.C. 3- 1/C #2 TO XCEL  
 PAD MOUNTED TRANSFORMER

S.O.P. XCEL ENERGY

1 1/2" R.S.C.

DASHED LINES DENOTE INPLACE ITEMS  
 W DENOTES NEUTRAL CONDUCTOR  
 B AND R DENOTE CURRENT CARRYING CONDUCTORS  
 FD. PT. J7A  
 240/480 VOLT

2 - 2 POLE  
 BREAKERS

FEEDPOINT J7A  
 LIGHTING STANDARDS AND FOUNDATIONS

NO.	STATION	LT.	RT.	LOCATION	TYPE
1	138+45		X	T.H. 52 N.B.	9-49
2	140+90		X		9-49
3	143+40		X		9-49
4	145+90		X		9-49
5	148+40		X		9-49
6	151+05		X		9-49
(1) 7	INP.		X		9-49
(1) 8	INP.		X		9-49
9	159+10		X		9-49
10	161+80		X		9-49
11	164+35		X		9-40
(2) 12	166+10		X		9-27
13	167+90		X		9-27
14	169+65		X		9-27
15	171+40		X		9-27
16	173+20		X	T.H. 52 N.B.	9-40
17	173+20	X		T.H. 52 S.B.	9-40
18	171+40	X			9-27
19	169+60	X			9-27
20	167+85	X			9-27
21	166+05	X			9-27
22	164+30	X			9-40
23	161+70	X			9-49
24	159+05	X			9-49
(1) 25	INP.	X			9-49
(1) 26	INP.	X			9-49
27	151+15	X			9-49
28	148+25	X			9-49
29	145+40	X			9-49
30	142+55	X			9-49
31	139+65	X		T.H. 52 S.B.	9-49
32	01+10	X		CONCORD ST. N.E. RAMP	9-40
33	03+25	X			9-40
34	05+40	X			9-40
35	07+55	X		CONCORD ST. N.E. RAMP	9-40
36	03+80	X		LAFAYETTE E. RAMP	9-40
37	05+90	X		LAFAYETTE E. RAMP	9-40
(2) 38	09+95	X		LAFAYETTE E. FRTG. RD.	9-27
39	06+40	X		LAFAYETTE W. FRTG. RD.	9-27
40	01+20	X		LAFAYETTE W. RAMP	9-40
41	03+65	X		CONCORD ST. N.W. RAMP	9-40
42	01+50	X		CONCORD ST. N.W. RAMP	9-40

(1) F & I: 49' MOUNTING HEIGHT LUMINAIRE  
 (2) F & I: AIR OBSTRUCTION LIGHT

FEED POINT J7A

BY	DATE	REVISIONS	FEEDPOINT: J7A	LOCATION: TH 52 AT CONCORD ST.	<b>LIGHTING PLAN</b>
			METER ADDRESS: 350 CONCORD ST. ST. PAUL 55107		
DRAWN BY: DC			CERTIFIED BY: <i>Michael P. Libensky</i>		STATE PROJ. NO. 1928-60 (T.H. 52) SHEET NO. 23 OF 31 SHEETS
CKD BY: GB			LIC. NO. 19863 DATE: 9/16/2014		
DATE: 8/2014					

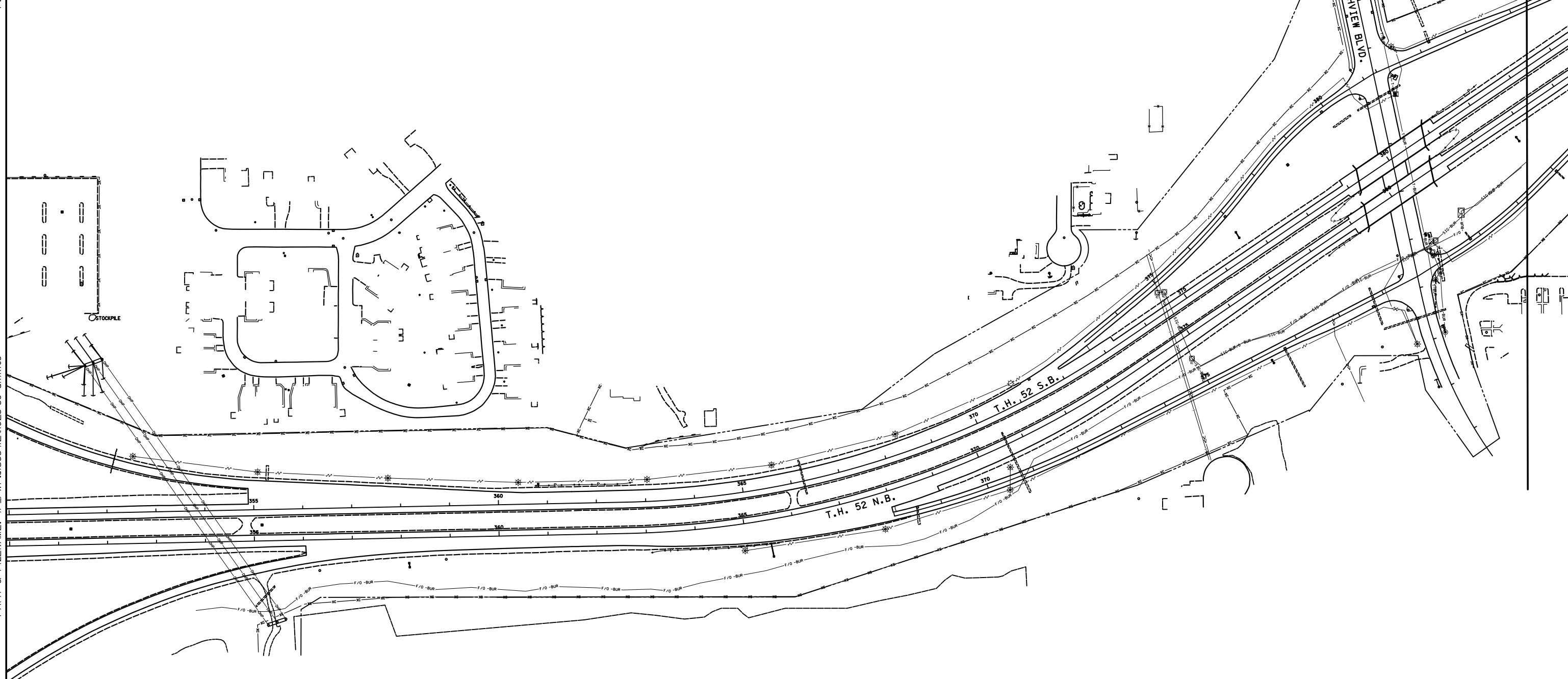
PLOTTED/REVISED: 9/16/2014

DISTRICT #: METRO  
 IPLOT NAME: 1928-60 utilities.sht24  
 PATH & FILENAME: IP\_PWP-d\58842\1928-60 utilities

UTILITY OWNERSHIP	
OVERHEAD ELECTRIC -OHP- OHP -OHP-	XCEL ENERGY
BURIED ELECTRIC -P-BUR-	XCEL ENERGY
BURIED ELECTRIC -W- W -W-	MN/DOT
BURIED ELECTRIC -SIG-BUR-	MN/DOT
BURIED FIBER -F/O-BUR-	MN/DOT
WATER LINE -W- W -W-	SOUTH ST. PAUL
SANITARY SEWER -S- S -S-	SOUTH ST. PAUL
BURIED TELEPHONE -T-BUR-	CENTURY LINK



MATCHLINE "A"



BY	DATE	REVISIONS

DRAWN BY: DC    CKD BY: GB    DATE: 9/16/2014

CERTIFIED BY *Michael P. Lubensky* LIC. NO. 19863 DATE: 9/16/2014  
LICENSED PROFESSIONAL ENGINEER

**UTILITIES INFORMATION**

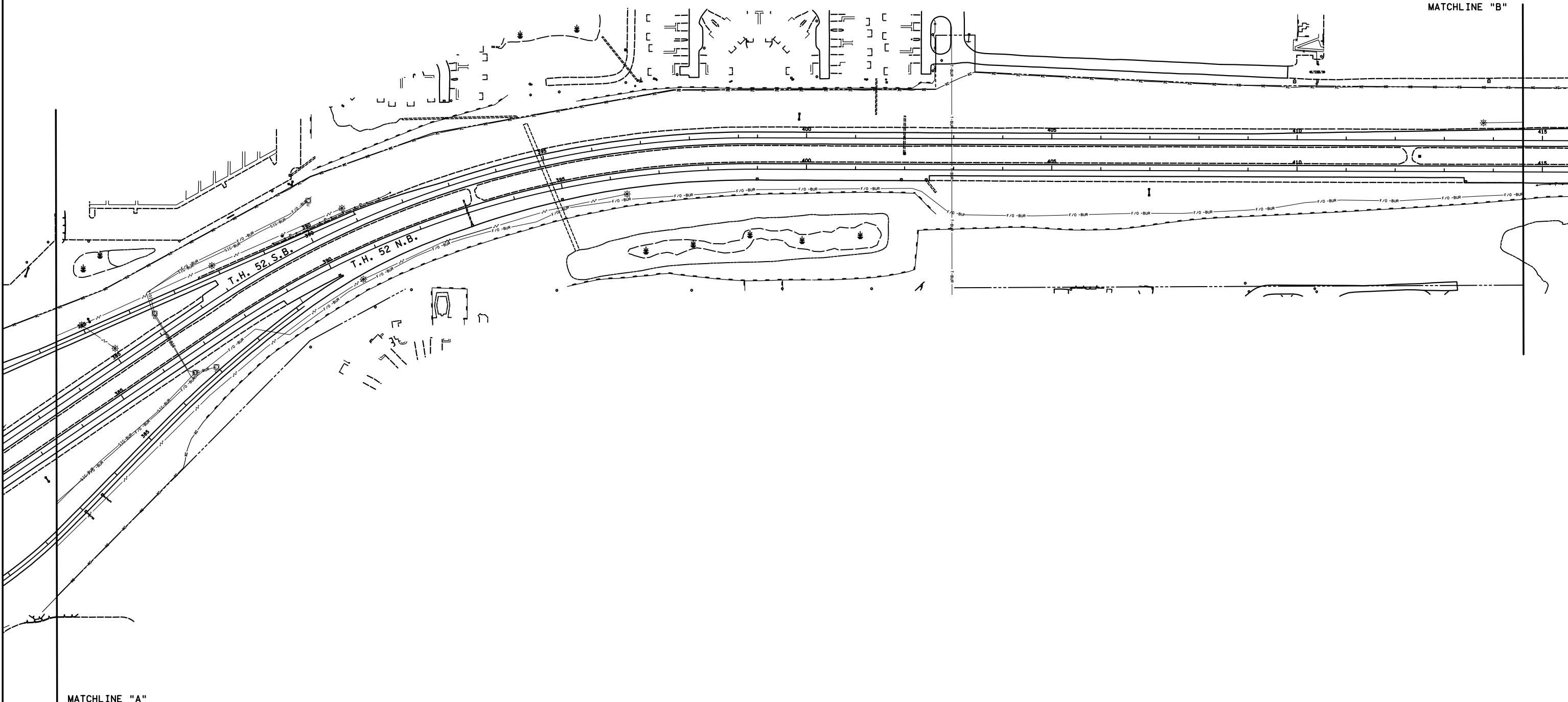
STATE PROJ.NO.1928-60 (T.H.52 )    SHEET NO. 24 OF 31 SHEETS



PLOTTED/REVISED: 9/16/2014

DISTRICT #: METRO  
PLOT NAME: 1928-60 utilities.sht25  
PATH & FILENAME: IP\_PWP-d\5884\2\1928-60 utilities

UTILITY OWNERSHIP	
BURIED TELEPHONE -T-BUR-	CENTURY LINK
BURIED ELECTRIC -E-BUR-	MN/DOT
BURIED ELECTRIC -SIG-BUR-	MN/DOT
BURIED FIBER -F/O-BUR-	MN/DOT



BY	DATE	REVISIONS

DRAWN BY: DC      CKD BY: GB      DATE: 9/16/2014

CERTIFIED BY *Michael P. Lubensky* LIC. NO. 19863 DATE: 9/16/2014  
LICENSED PROFESSIONAL ENGINEER

**UTILITIES INFORMATION**

STATE PROJ.NO.1928-60 (T.H.52 )      SHEET NO. 25 OF 31 SHEETS

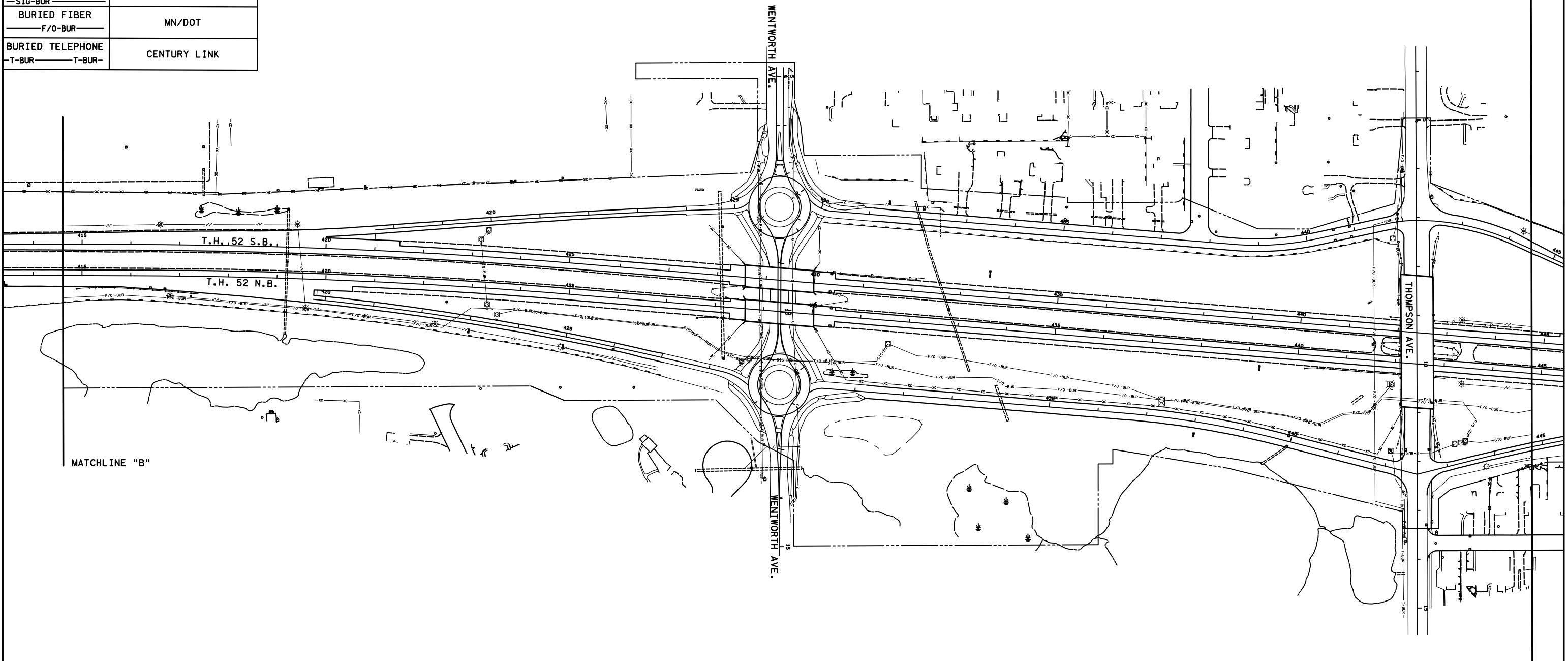
PLOTTED/REVISED: 9/16/2014

DISTRICT #: METRO  
PLOT NAME: 1928-60 utilities.sht26  
PATH & FILENAME: IP\_PWP-d\1928-60 utilities

UTILITY OWNERSHIP	
BURIED ELECTRIC - P-BUR -	XCEL ENERGY
BURIED GAS - G - G - G -	XCEL ENERGY
BURIED ELECTRIC - W -	MN/DOT
BURIED ELECTRIC - SIG-BUR -	MN/DOT
BURIED FIBER - F/O-BUR -	MN/DOT
BURIED TELEPHONE - T-BUR - T-BUR -	CENTURY LINK



MATCHLINE "C"



MATCHLINE "B"

BY	DATE	REVISIONS

DRAWN BY: DC    CKD BY: GB    DATE: 9/16/2014

CERTIFIED BY *Michael P. Lubensky* LIC. NO. 19863 DATE: 9/16/2014  
LICENSED PROFESSIONAL ENGINEER

**UTILITIES INFORMATION**

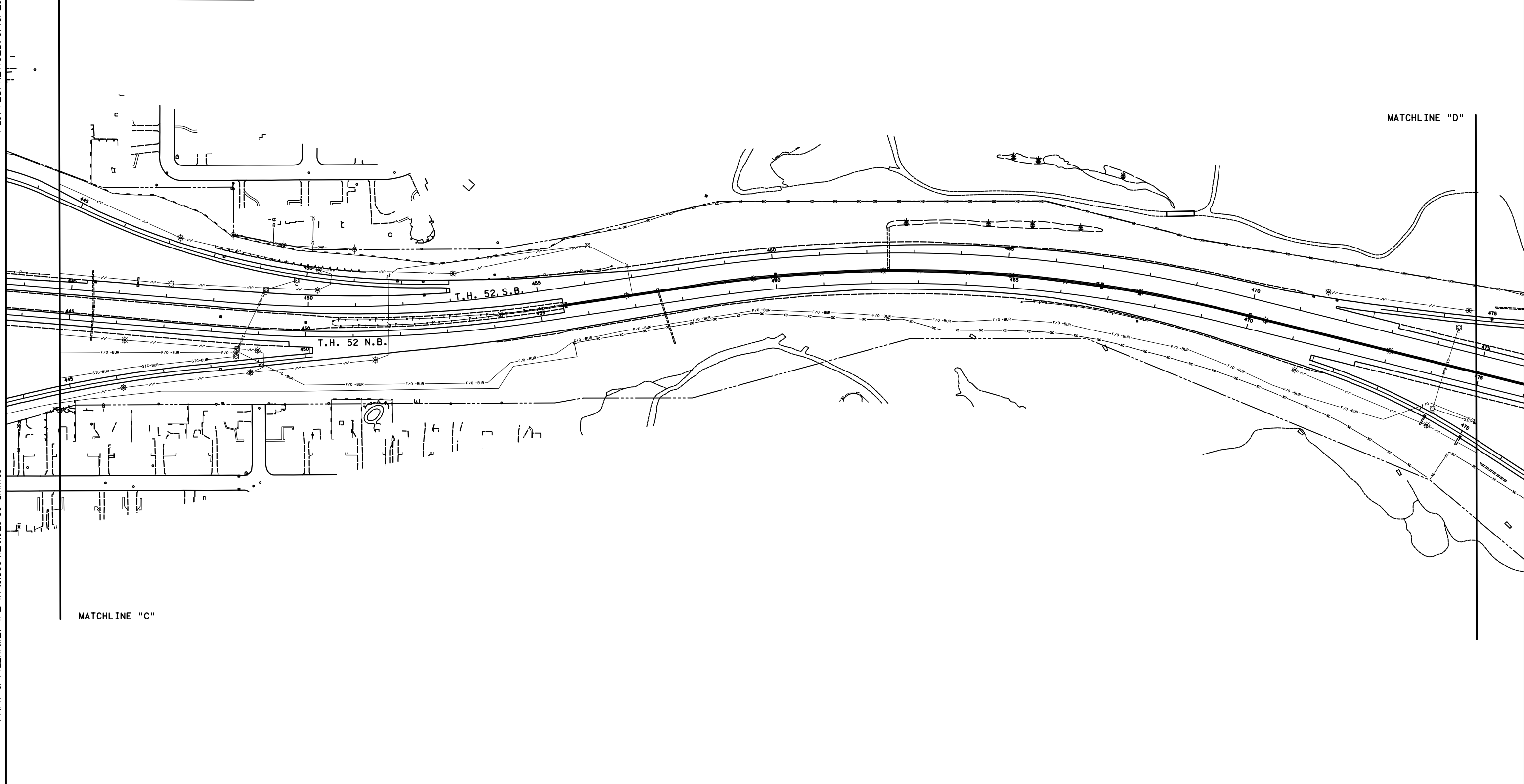
STATE PROJ.NO.1928-60 (T.H.52 )    SHEET NO. 26 OF 31 SHEETS

UTILITY OWNERSHIP	
OVERHEAD ELECTRIC -OHP—OHP—OHP-	XCEL ENERGY
BURIED ELECTRIC —√—	MN/DOT
BURIED ELECTRIC —SIG-BUR—	MN/DOT
BURIED FIBER —F/O-BUR—	MN/DOT



PLOTTED/REVISED: 9/16/2014

DISTRICT #: METRO  
PLOT NAME: 1928-60 utilities.sht27  
PATH & FILENAME: IP\_PWP-d\5884\2\1928-60 utilities



BY	DATE	REVISIONS

DRAWN BY: DC    CKD BY: GB    DATE: 9/16/2014

CERTIFIED BY *Michael P. Lubensky* LIC. NO. 19863 DATE: 9/16/2014  
LICENSED PROFESSIONAL ENGINEER

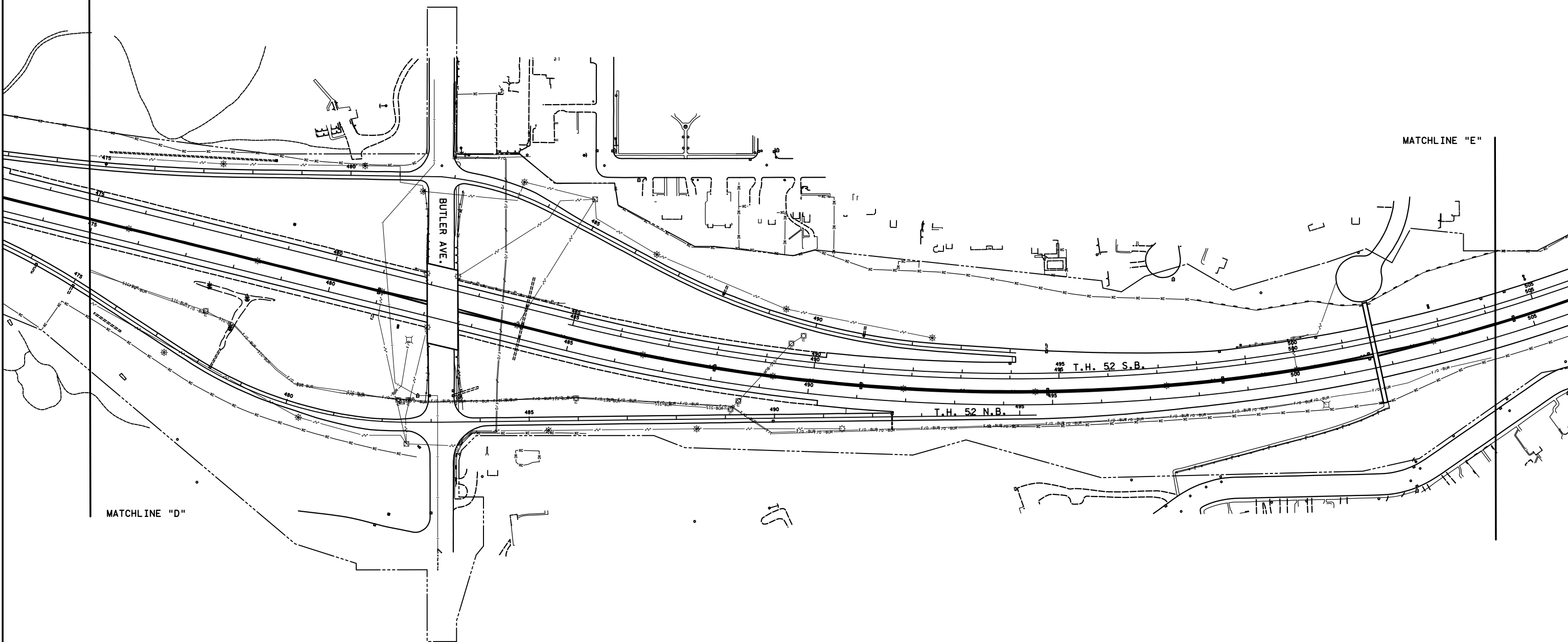
**UTILITIES INFORMATION**

STATE PROJ. NO. 1928-60 (T.H. 52)    SHEET NO. 27 OF 31 SHEETS

PLOTTED/REVISED: 9/16/2014

DISTRICT #: METRO  
PLOT NAME: 1928-60 utilities.sht28  
PATH & FILENAME: IP\_PWP-d1588412\1928-60 utilities

UTILITY OWNERSHIP	
BURIED FIBER F/O-BUR	SPRINT - WINDSTREAM
BURIED ELECTRIC ✓	MN/DOT
BURIED ELECTRIC -SIG-BUR	MN/DOT
BURIED FIBER F/O-BUR	MN/DOT
WATER LINE	SOUTH ST. PAUL



BY	DATE	REVISIONS

DRAWN BY: DC      CKD BY: GB      DATE: 9/16/2014

CERTIFIED BY *Michael P. Lubensky* LIC. NO. 19863 DATE: 9/16/2014  
LICENSED PROFESSIONAL ENGINEER

**UTILITIES INFORMATION**

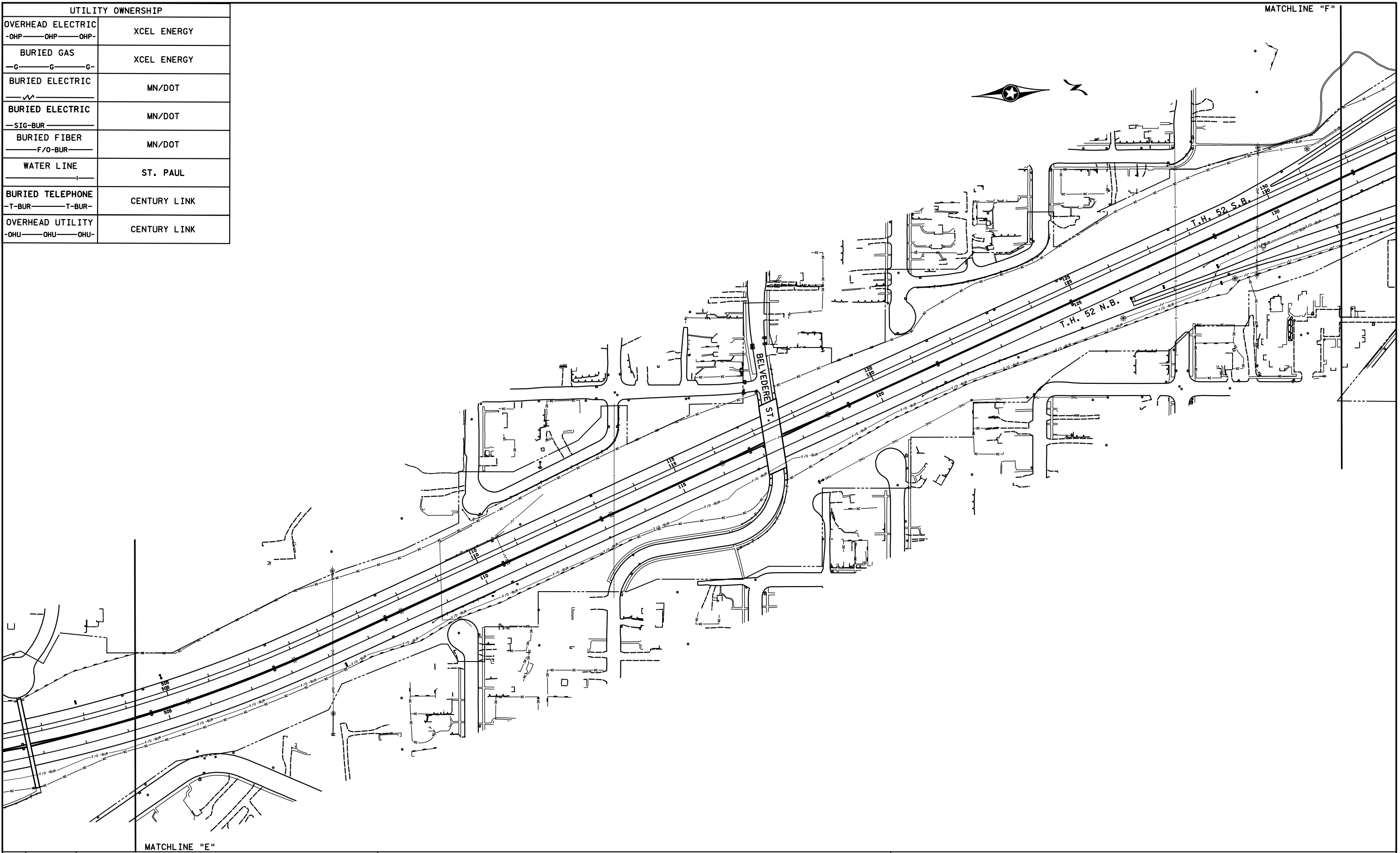
STATE PROJ.NO.1928-60 (T.H.52 )      SHEET NO. 28 OF 31 SHEETS

UTILITY OWNERSHIP

OVERHEAD ELECTRIC -OHP—OHP—OHP-	XCEL ENERGY
BURIED GAS -G—G—G-	XCEL ENERGY
BURIED ELECTRIC -E—E—E-	MN/DOT
BURIED ELECTRIC -SIG-BUR	MN/DOT
BURIED FIBER -F/O-BUR	MN/DOT
WATER LINE -W—W—W-	ST. PAUL
BURIED TELEPHONE -T-BUR—T-BUR-	CENTURY LINK
OVERHEAD UTILITY -OHU—OHU—OHU-	CENTURY LINK

PLOTTED/REVISED: 9/16/2014

DISTRICT #: METRO  
PLOT NAME: 1928-60 utilities.sht29  
PATH & FILENAME: IP\_PWP-d\5884\2\1928-60 utilities



MATCHLINE "E"

BY	DATE	REVISIONS

DRAWN BY: DC    CKD BY: GB    DATE: 9/16/2014

CERTIFIED BY *Michael P. Lubensky* LIC. NO. 19863 DATE: 9/16/2014  
LICENSED PROFESSIONAL ENGINEER

**UTILITIES INFORMATION**

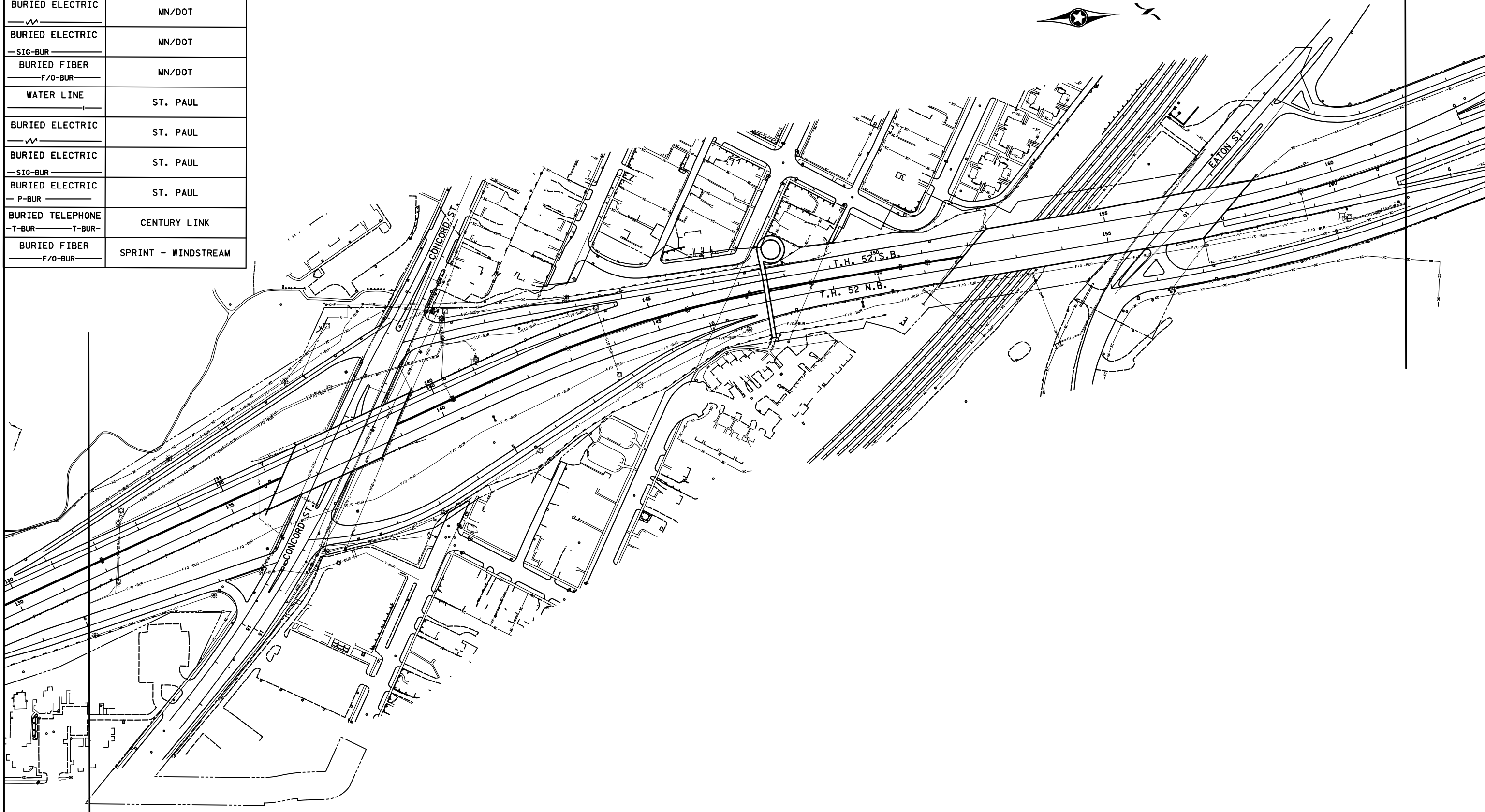
STATE PROJ.NO.1928-60 (T.H.52 )    SHEET NO. 29 OF 31 SHEETS

PLOTTED/REVISED: 9/16/2014

DISTRICT #: METRO  
PLOT NAME: 1928-60 utilities.sht 30  
PATH & FILENAME: IP\_PWP-d1588412\1928-60 utilities

UTILITY OWNERSHIP	
OVERHEAD ELECTRIC -OHP—OHP—OHP-	XCEL ENERGY
BURIED GAS —G—G—G—	XCEL ENERGY
BURIED ELECTRIC —W—	MN/DOT
BURIED ELECTRIC —SIG-BUR—	MN/DOT
BURIED FIBER —F/O-BUR—	MN/DOT
WATER LINE — —	ST. PAUL
BURIED ELECTRIC —W—	ST. PAUL
BURIED ELECTRIC —SIG-BUR—	ST. PAUL
BURIED ELECTRIC —P-BUR—	ST. PAUL
BURIED TELEPHONE —T-BUR—T-BUR—	CENTURY LINK
BURIED FIBER —F/O-BUR—	SPRINT - WINDSTREAM

MATCHLINE "G"



MATCHLINE "F"

BY	DATE	REVISIONS

DRAWN BY: DC    CKD BY: GB    DATE: 9/16/2014

CERTIFIED BY *Michael P. Lubensky* LIC. NO. 19863 DATE: 9/16/2014  
LICENSED PROFESSIONAL ENGINEER

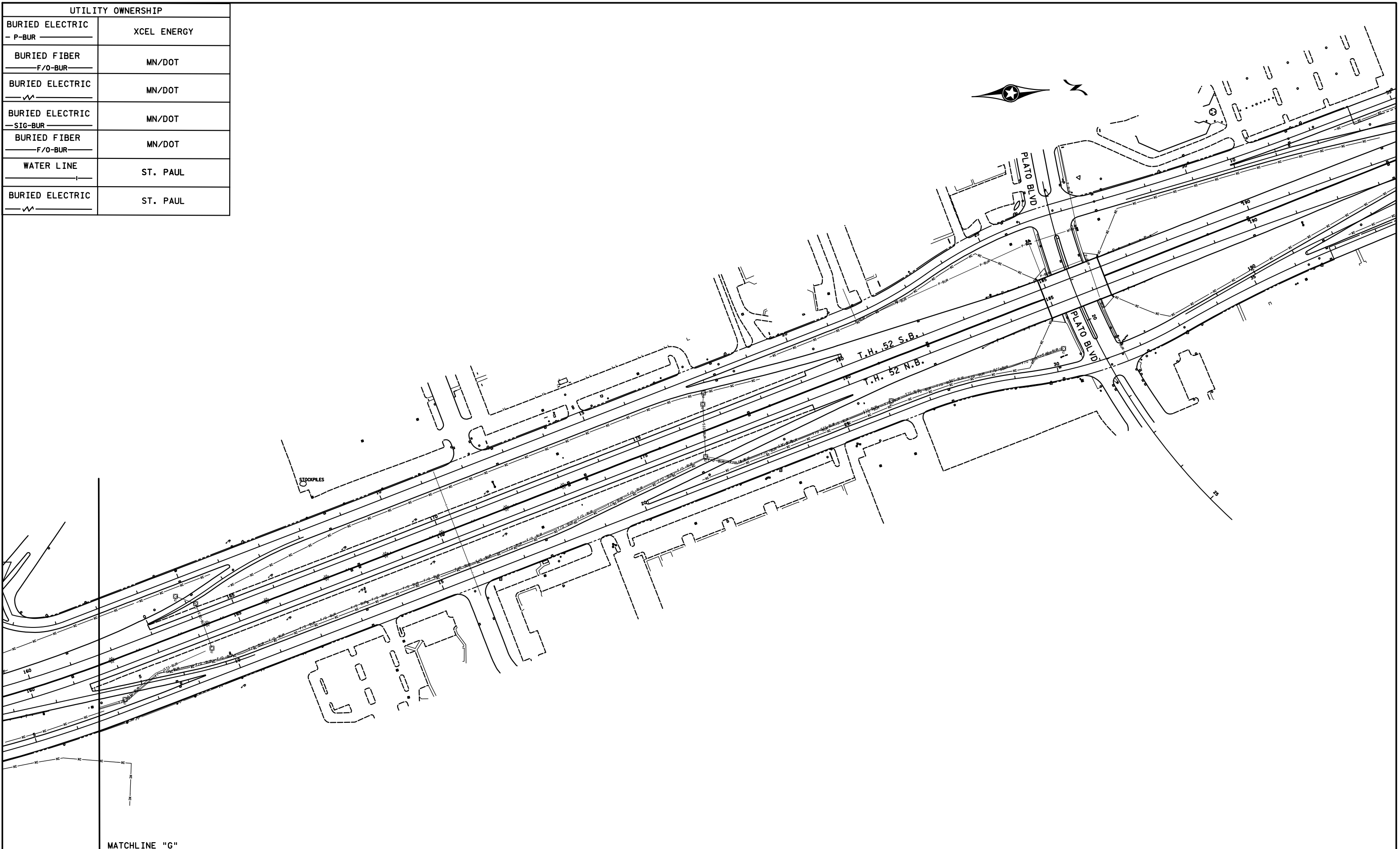
**UTILITIES INFORMATION**

STATE PROJ.NO.1928-60 (T.H.52 )    SHEET NO. 30 OF 31 SHEETS

PLOTTED/REVISED: 9/16/2014

DISTRICT #: METRO  
PLOT NAME: 1928-60 utilities.sht31  
PATH & FILENAME: IP\_PWP-d1588412\1928-60 utilities

UTILITY OWNERSHIP	
BURIED ELECTRIC - P-BUR	XCEL ENERGY
BURIED FIBER - F/O-BUR	MN/DOT
BURIED ELECTRIC - W	MN/DOT
BURIED ELECTRIC - SIG-BUR	MN/DOT
BURIED FIBER - F/O-BUR	MN/DOT
WATER LINE	ST. PAUL
BURIED ELECTRIC - W	ST. PAUL



BY	DATE	REVISIONS

DRAWN BY: DC    CKD BY: GB    DATE: 9/16/2014

CERTIFIED BY *Michael P. Lubensky* LIC. NO. 19863 DATE: 9/16/2014  
LICENSED PROFESSIONAL ENGINEER

**UTILITIES INFORMATION**

STATE PROJ. NO. 1928-60 (T.H. 52)    SHEET NO. 31 OF 31 SHEETS