

PLOTTED/REVISED: 14-DEC-2023

DISTRICT #: Metro  
PLOT NAME: T1735547\_sgl\_58  
FILENAME: Projects\DM\_065\00000\Traffic\Signals\23.28\_21186\_Crosstown\_Bld T1735547-PENDING\T1735547\_sgl.dgn

PVC LOOP DETECTORS		
NUMBER	SIZE	LOCATION
D1-1	2-6'X6'	20' & 35'
D1-2	6'X6'	5'
D2-1	6'X6'	625'
D2-2	6'X6'	315'
SD2-3	6'X6'	-150'
SD2-4	6'X6'	-150'
D3-1, D3-3	2-6'X6'	20' & 35'
D3-2, D3-4	6'X6'	5'
D4-1	6'X6'	400'
D4-2	2-6'X6'	-5' & 5'
D4-3	2-6'X6'	5' & 20'
D5-1	2-6'X6'	20' & 35'
D5-2	6'X6'	5'
D6-1	6'X6'	625'
D6-2	6'X6'	315'
SD6-3	6'X6'	-150'
SD6-4	6'X6'	-150'
D7-1	2-6'X6'	20' & 35'
D7-2	6'X6'	5'
D8-1	6'X6'	400'
D8-2	2-6'X6'	-5' & 5'
D8-3	2-6'X6'	5' & 20'

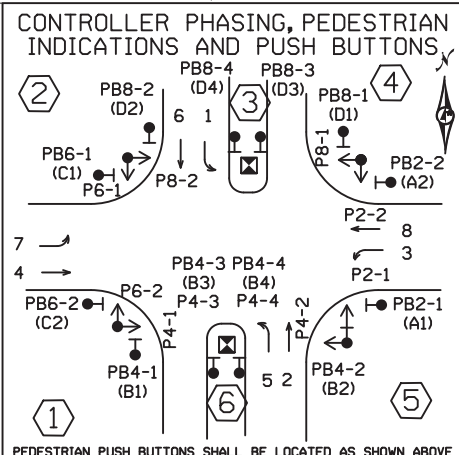
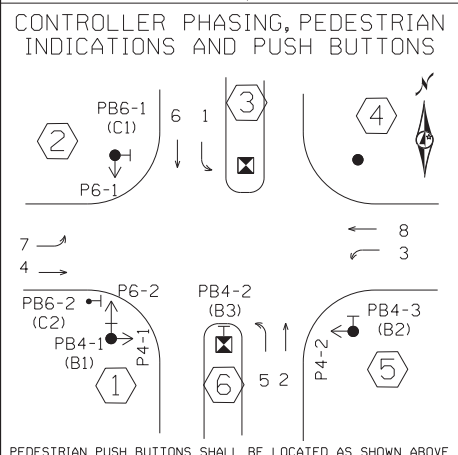
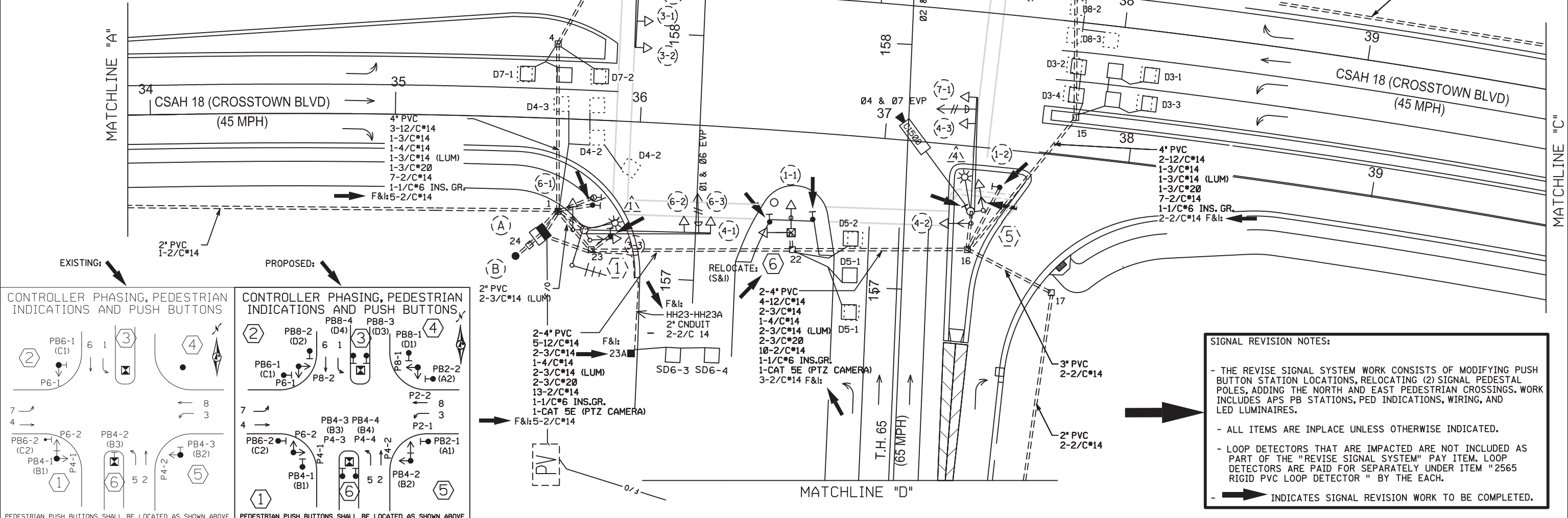
LOCATION:  
DISTANCE FROM STOP BAR TO FRONT OF LOOP DETECTOR

**SIGNAL SYSTEM OPERATION**  
 - THE SIGNAL SYSTEM FLASH MODE IS ALL RED.  
 - NORMAL OPERATION IS 8 PHASE.  
 - PHASES 2 AND 6 SHALL BE ON VEHICLE RECALL.  
 - PHASES 1, 3, 5, AND 7 SHALL BE PROTECTED LEFT TURNS.

MATCHLINE "B"

SIGNAL FACES			
FACE	R	Y	G
1-1, 1-2	←	←	←
2-1, 2-2, 2-3	○	○	○
3-1, 3-2, 3-3	←	←	←
4-1, 4-2, 4-3	○	○	○
5-1, 5-2	←	←	←
6-1, 6-2, 6-3	○	○	○
7-1, 7-2	←	←	←
8-1, 8-2, 8-3	○	○	○

- ALL SIGNAL INDICATIONS SHALL BE 12"  
 - ALL SIGNAL INDICATIONS SHALL BE LED  
 - ALL SIGNAL FACES SHALL HAVE A BACKGROUND SHIELD  
 - ALL SIGNAL INDICATIONS SHALL BE BLACK POLYCARBONITE.



**SIGNAL REVISION NOTES:**

- THE REVISE SIGNAL SYSTEM WORK CONSISTS OF MODIFYING PUSH BUTTON STATION LOCATIONS, RELOCATING (2) SIGNAL PEDESTAL POLES, ADDING THE NORTH AND EAST PEDESTRIAN CROSSINGS. WORK INCLUDES APS PB STATIONS, PED INDICATIONS, WIRING, AND LED LUMINAIRES.
- ALL ITEMS ARE INPLACE UNLESS OTHERWISE INDICATED.
- LOOP DETECTORS THAT ARE IMPACTED ARE NOT INCLUDED AS PART OF THE "REVISE SIGNAL SYSTEM" PAY ITEM. LOOP DETECTORS ARE PAID FOR SEPARATELY UNDER ITEM "2565 RIGID PVC LOOP DETECTOR" BY THE EACH.
- INDICATES SIGNAL REVISION WORK TO BE COMPLETED.

BY	DATE	REVISIONS

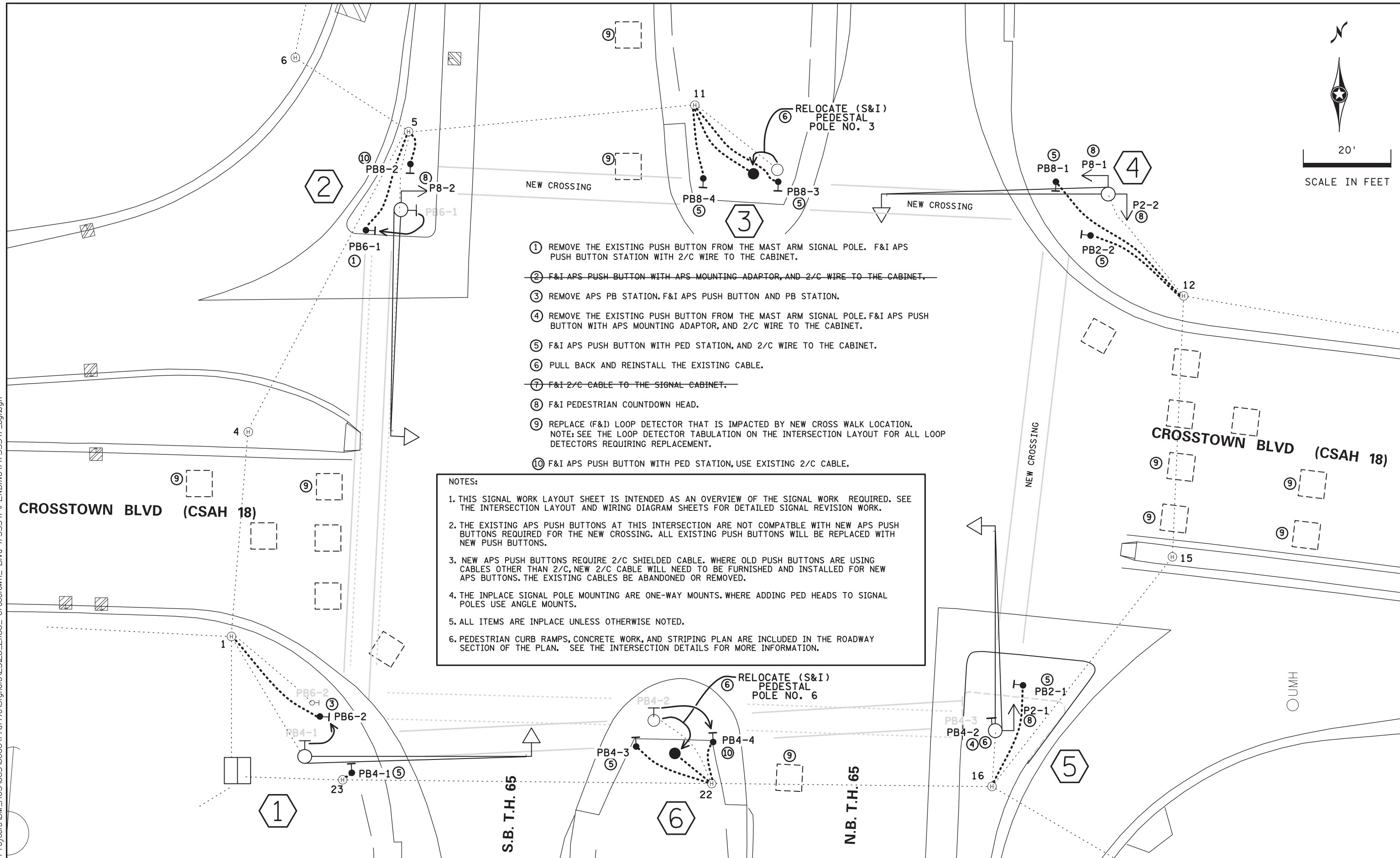
SYSTEM ID: 1735547 T.E. 103235  
 METER ADDRESS:  
 OLD SYSTEM ID: 21186

**REVISE SIGNAL SYSTEM "N"  
 INTERSECTION LAYOUT  
 TH 65 AT CSAH 18 (CROSSTOWN BLVD)  
 HAM LAKE, ANOKA COUNTY**

S.P. 002-632-021, S.P. 106-020-040, S.P. 106-125-009  
 DRAWN BY: HRL CKD BY: CDB DATE: 10/10/23  
 CERTIFIED BY LIC. NO. 26829 DATE: 12/11/23  
 STATE PROJ. NO. 0208-165 (T.H. 65) SHEET NO. SS62 OF SS87 SHEETS

PLOTTED/REVISED: 14-DEC-2023

DISTRICT \*: Metro  
PLOT NAME: T1735547\_sgl\_56  
FILENAME: Projects\DM\_FROSO650000\Traffic\Signals\23.28\_21186\_Crosstown\_Bld T1735547\_PENDING\T1735547\_sgl.dgn



- ① REMOVE THE EXISTING PUSH BUTTON FROM THE MAST ARM SIGNAL POLE. F&I APS PUSH BUTTON STATION WITH 2/C WIRE TO THE CABINET.
- ② F&I APS PUSH BUTTON WITH APS MOUNTING ADAPTOR, AND 2/C WIRE TO THE CABINET.
- ③ REMOVE APS PB STATION. F&I APS PUSH BUTTON AND PB STATION.
- ④ REMOVE THE EXISTING PUSH BUTTON FROM THE MAST ARM SIGNAL POLE. F&I APS PUSH BUTTON WITH APS MOUNTING ADAPTOR, AND 2/C WIRE TO THE CABINET.
- ⑤ F&I APS PUSH BUTTON WITH PED STATION, AND 2/C WIRE TO THE CABINET.
- ⑥ PULL BACK AND REINSTALL THE EXISTING CABLE.
- ⑦ F&I 2/C CABLE TO THE SIGNAL CABINET.
- ⑧ F&I PEDESTRIAN COUNTDOWN HEAD.
- ⑨ REPLACE (F&I) LOOP DETECTOR THAT IS IMPACTED BY NEW CROSS WALK LOCATION. NOTE: SEE THE LOOP DETECTOR TABULATION ON THE INTERSECTION LAYOUT FOR ALL LOOP DETECTORS REQUIRING REPLACEMENT.
- ⑩ F&I APS PUSH BUTTON WITH PED STATION, USE EXISTING 2/C CABLE.

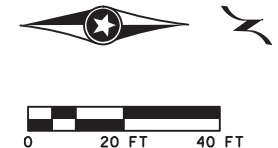
**NOTES:**

- THIS SIGNAL WORK LAYOUT SHEET IS INTENDED AS AN OVERVIEW OF THE SIGNAL WORK REQUIRED. SEE THE INTERSECTION LAYOUT AND WIRING DIAGRAM SHEETS FOR DETAILED SIGNAL REVISION WORK.
- THE EXISTING APS PUSH BUTTONS AT THIS INTERSECTION ARE NOT COMPATIBLE WITH NEW APS PUSH BUTTONS REQUIRED FOR THE NEW CROSSING. ALL EXISTING PUSH BUTTONS WILL BE REPLACED WITH NEW PUSH BUTTONS.
- NEW APS PUSH BUTTONS REQUIRE 2/C SHIELDED CABLE. WHERE OLD PUSH BUTTONS ARE USING CABLES OTHER THAN 2/C, NEW 2/C CABLE WILL NEED TO BE FURNISHED AND INSTALLED FOR NEW APS BUTTONS. THE EXISTING CABLES BE ABANDONED OR REMOVED.
- THE INPLACE SIGNAL POLE MOUNTING ARE ONE-WAY MOUNTS. WHERE ADDING PED HEADS TO SIGNAL POLES USE ANGLE MOUNTS.
- ALL ITEMS ARE INPLACE UNLESS OTHERWISE NOTED.
- PEDESTRIAN CURB RAMPS, CONCRETE WORK, AND STRIPING PLAN ARE INCLUDED IN THE ROADWAY SECTION OF THE PLAN. SEE THE INTERSECTION DETAILS FOR MORE INFORMATION.

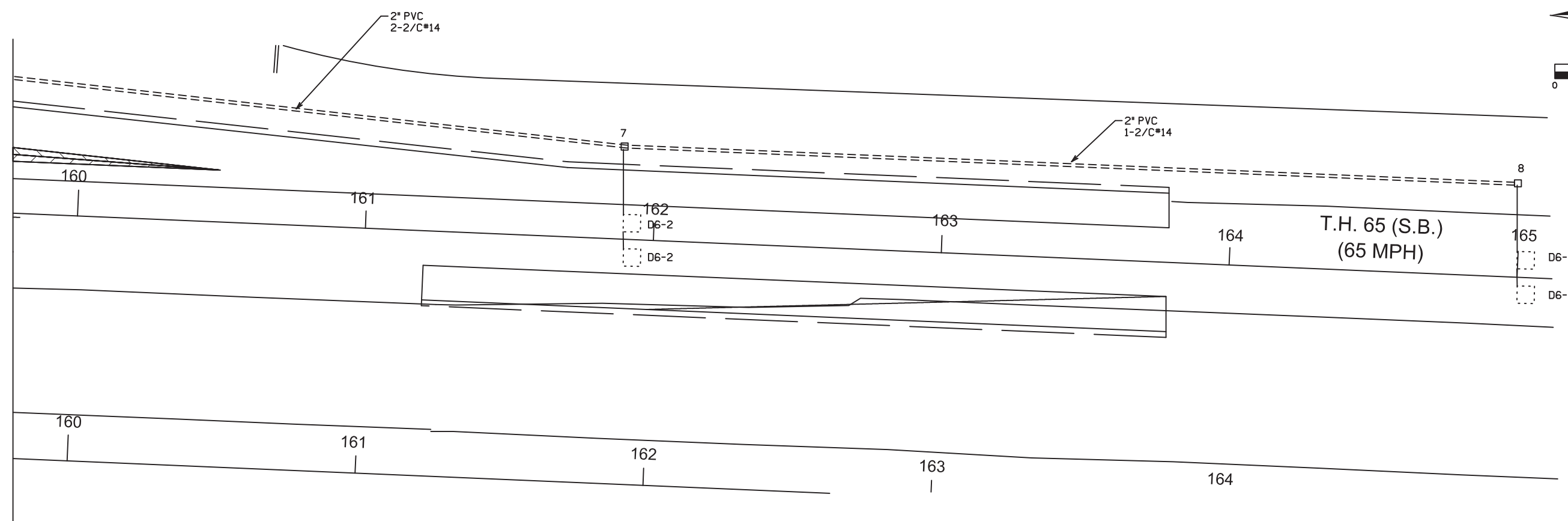
BY	DATE	REVISIONS	SYSTEM ID:	T.E. 103235	<b>REVISE SIGNAL SYSTEM "N"</b> <b>SIGNAL WORK LAYOUT</b> <b>TH 65 AT CSAH 18 (CROSTOWN BLVD)</b> <b>HAM LAKE, ANOKA COUNTY</b>	S.P. 002-632-021, S.P. 106-020-040, S.P. 106-125-009	DRAWN BY: CDB	CKD BY: CDB	DATE: 10/10/23	
			METER ADDRESS:			CERTIFIED BY: <i>Gregory Kern</i>	LIC. NO. 26829	DATE: 12/12/23		
			OLD SYSTEM ID:			STATE PROJ. NO. 0208-165 (T.H. 65)		SHEET NO. SS60 OF SS87 SHEETS		

PLOTTED/REVISED: 3-NOV-2023

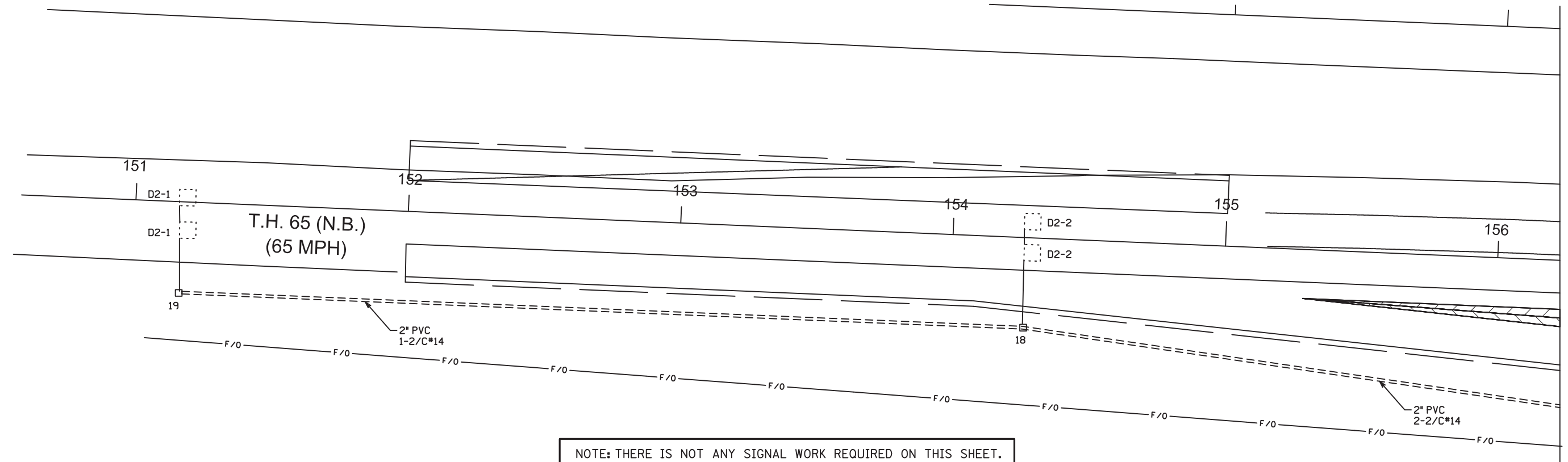
DISTRICT #: Metro  
PLOT NAME: T1735547\_sgl\_59  
FILENAME: Projects\DM\_FOS\06500000\Traffic\Signals\23.28\_21186\_Crosstown\_Bld T1735547\PE\DRAWING\T1735547\_sgl.dgn



MATCHLINE "B"



MATCHLINE "D"



NOTE: THERE IS NOT ANY SIGNAL WORK REQUIRED ON THIS SHEET.

BY	DATE	REVISIONS

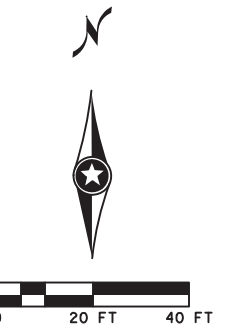
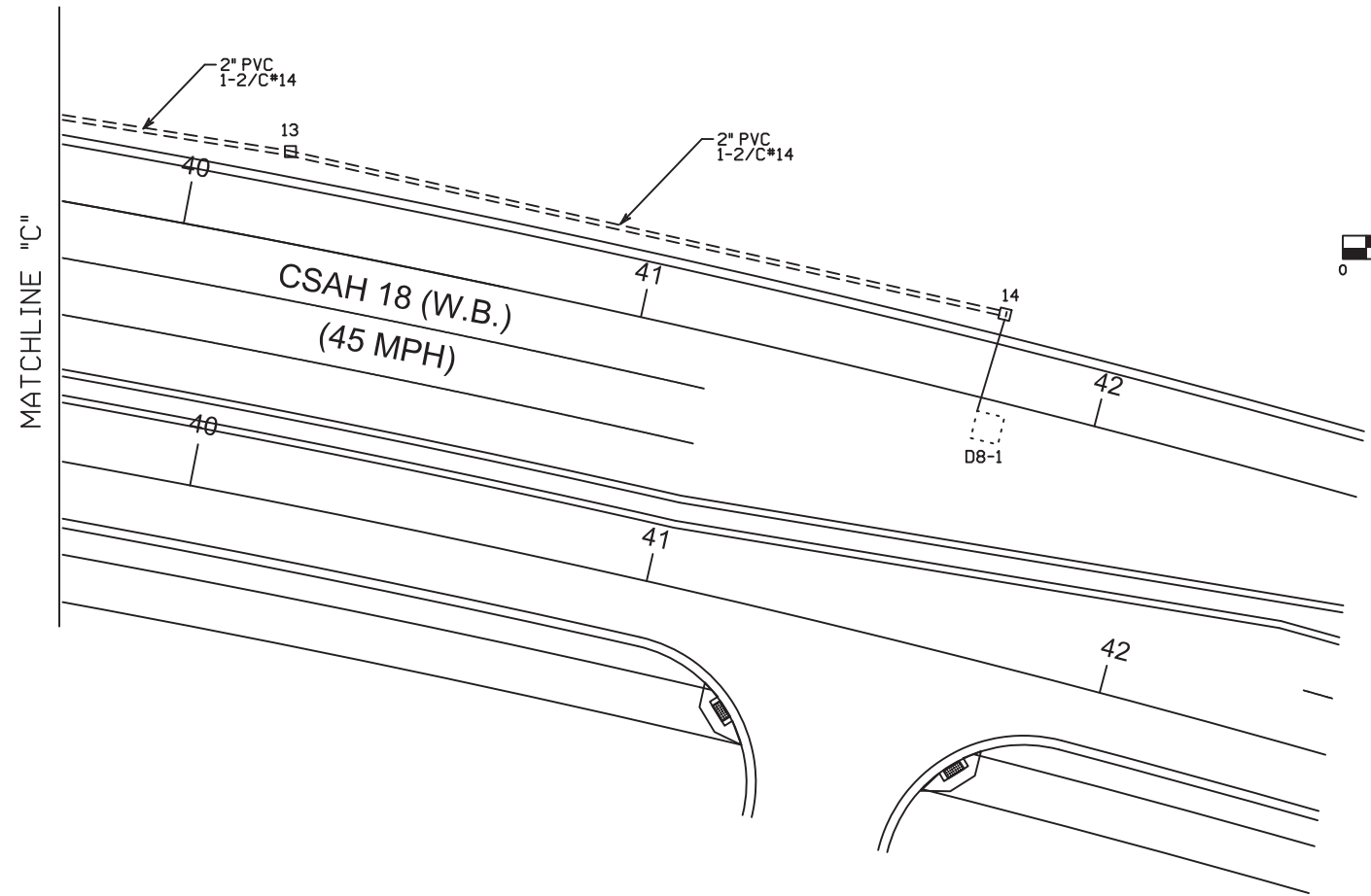
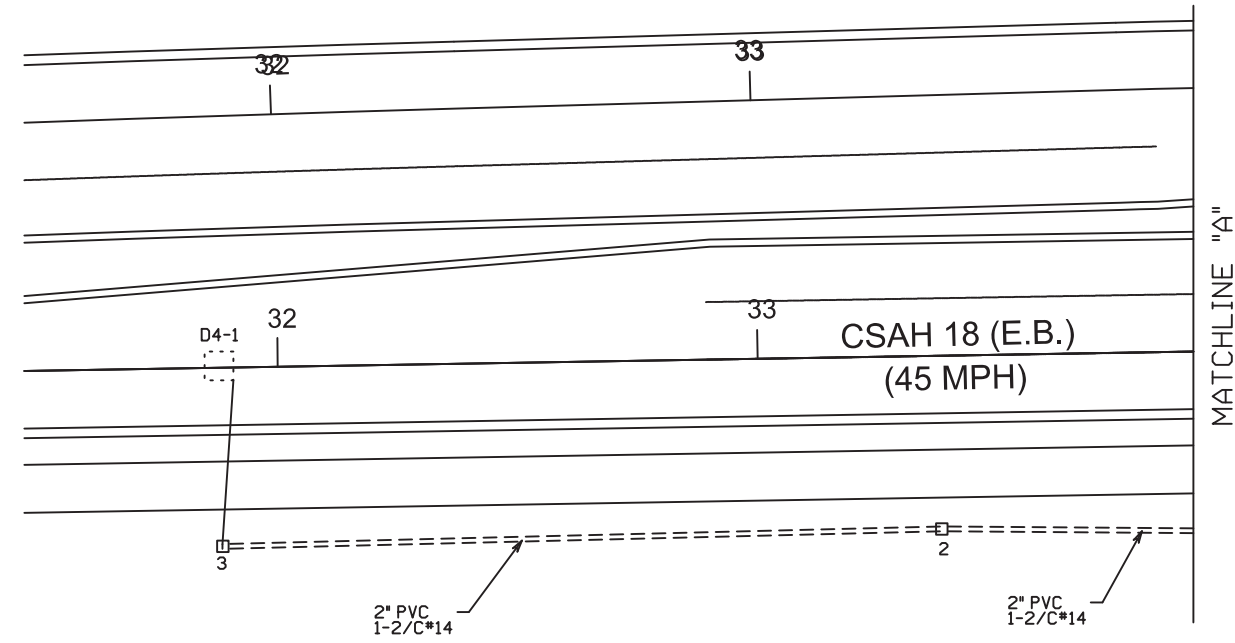
SYSTEM ID: 1735547 T.E. 103235  
 METER ADDRESS:  
 OLD SYSTEM ID: 21186

**REVISE SIGNAL SYSTEM "N"**  
**MATCH LINES 1 OF 2**  
**TH 65 AT CSAH 18 (CROSTOWN BLVD)**  
**HAM LAKE, ANOKA COUNTY**

S.P.002-632-021, S.P.106-020-040, S.P.106-125-009  
 DRAWN BY: HRL CKD BY: CDB DATE: 10/10/23  
 CERTIFIED BY *Gregory Ken* LIC. NO. 26829 DATE: 10/12/23  
 STATE PROJ. NO. 0208-165 (T.H.65) SHEET NO. SS63 OF SS87 SHEETS

PLOTTED/REVISED: 14-DEC-2023

DISTRICT \*: Metro  
 PLOT NAME: T:\735547\_sgl\_60  
 FILENAME: Projects\DM\_FROSO6500000\Traffic\Signals\23.28\_21186\_Crosstown\_Bldg\735547\PE\DRAWING\T1735547\_sgl.dgn



NOTE: THERE IS NOT ANY SIGNAL WORK REQUIRED ON THIS SHEET.

BY	DATE	REVISIONS

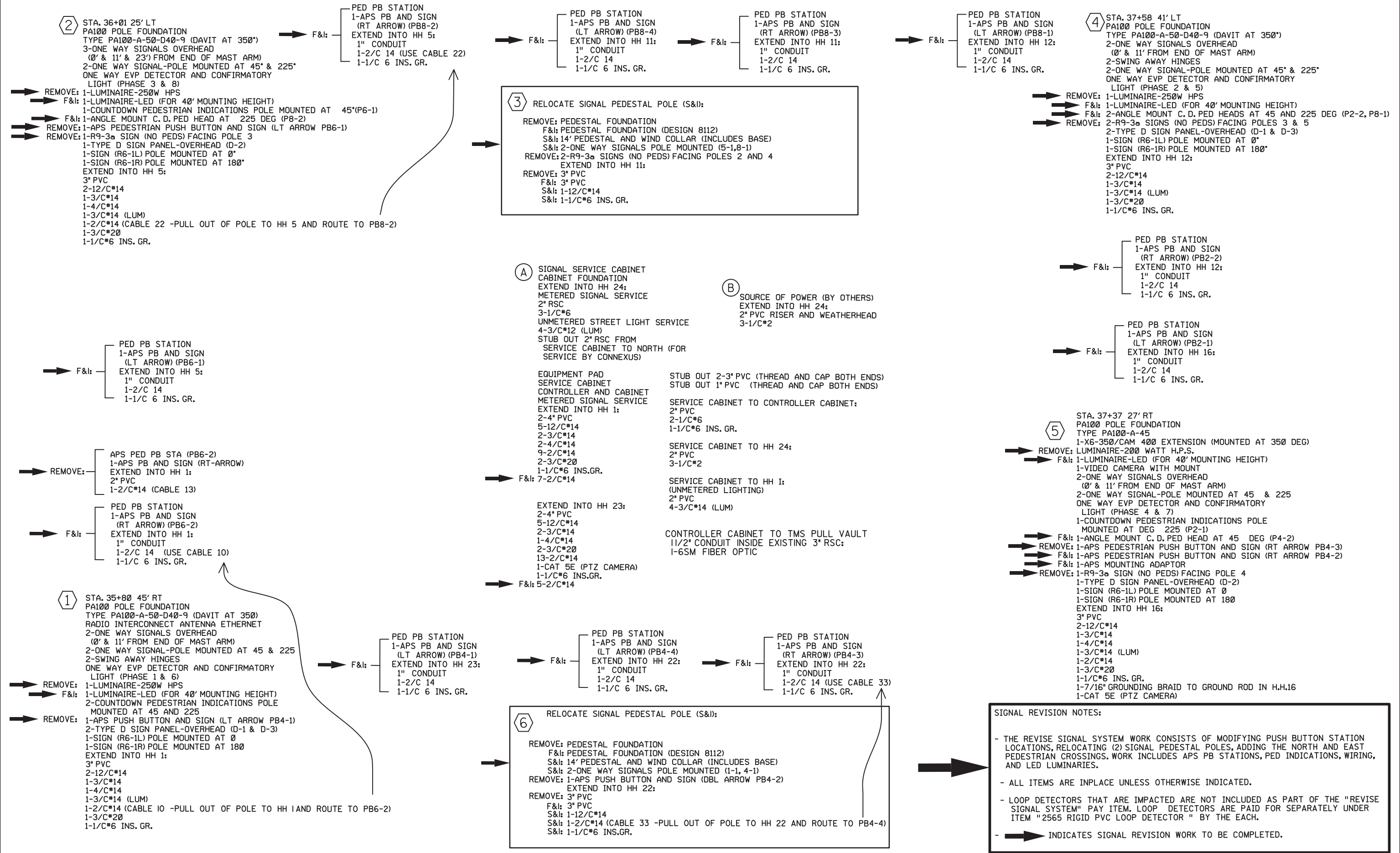
SYSTEM ID: 1735547 T.E. 103235  
 METER ADDRESS:  
 OLD SYSTEM ID: 21186

REVISE SIGNAL SYSTEM "N"  
 MATCH LINES 2 OF 2  
 TH 65 AT CSAH 18 (CROSSTOWN BLVD)  
 HAM LAKE, ANOKA COUNTY

S.P.002-632-021, S.P.106-020-040, S.P.106-125-009  
 DRAWN BY:HRL CKD BY:CDB DATE:10/10/23  
 CERTIFIED BY *Gregory Ken* LIC. NO. 26829 DATE: 12/8/23  
 LICENSED PROFESSIONAL ENGINEER  
 STATE PROJ.NO. 0208-165 (T.H.65) SHEET NO. SS64 OF SS87 SHEETS

PLOTTED/REVISED: 14-DEC-2023

DISTRICT \*: Metro  
PLOT NAME: T1735547\_sgl.dgn  
FILE NAME: Projects\DM\_FROSO650000\Traffic\Signals\23.28\_21186\_Crosstown\_Bldg\_T1735547\PENDING\T1735547\_sgl.dgn



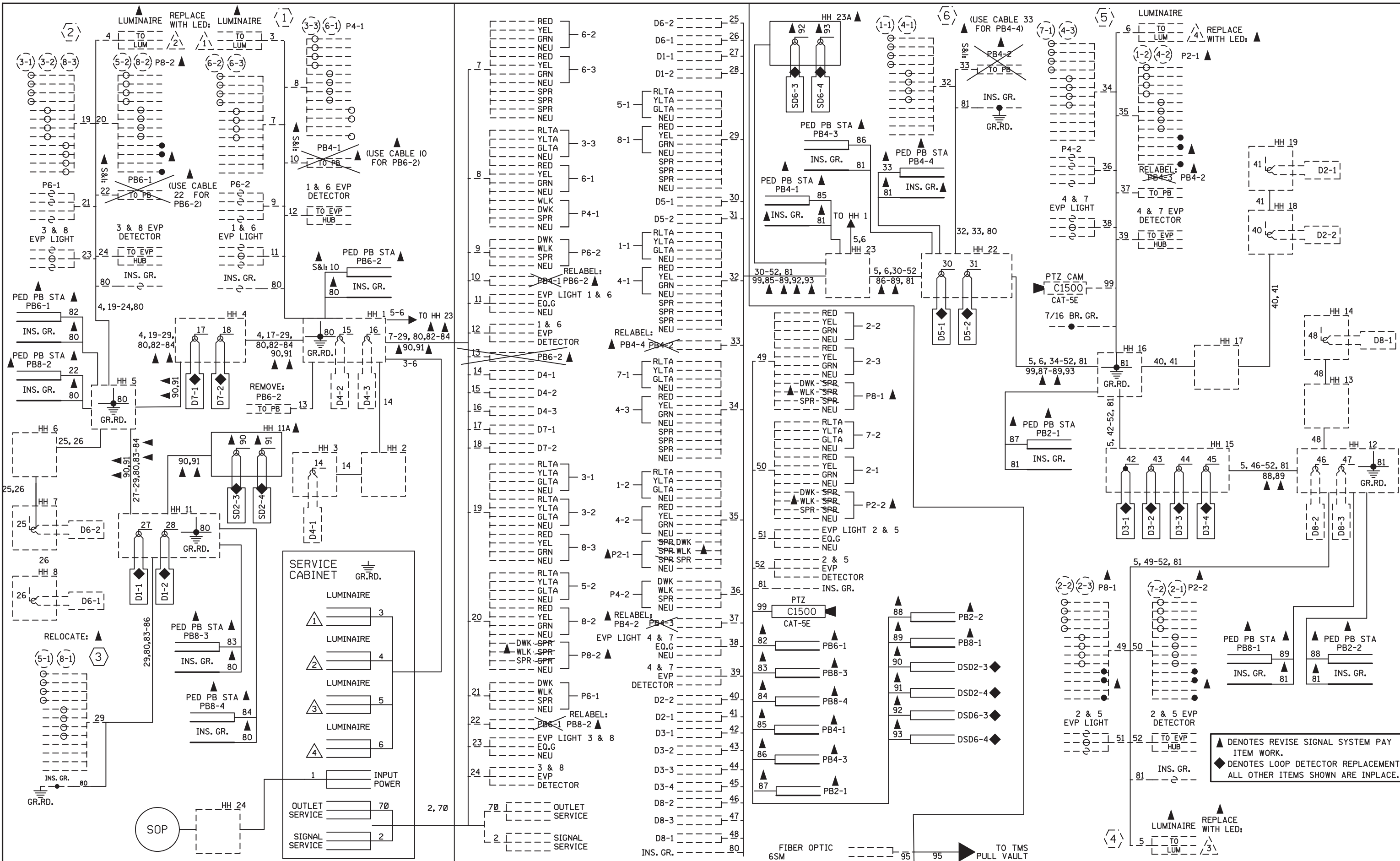
**SIGNAL REVISION NOTES:**

- THE REVISE SIGNAL SYSTEM WORK CONSISTS OF MODIFYING PUSH BUTTON STATION LOCATIONS, RELOCATING (2) SIGNAL PEDESTAL POLES, ADDING THE NORTH AND EAST PEDESTRIAN CROSSINGS. WORK INCLUDES APS PB STATIONS, PED INDICATIONS, WIRING, AND LED LUMINARIES.
- ALL ITEMS ARE INPLACE UNLESS OTHERWISE INDICATED.
- LOOP DETECTORS THAT ARE IMPACTED ARE NOT INCLUDED AS PART OF THE "REVISE SIGNAL SYSTEM" PAY ITEM. LOOP DETECTORS ARE PAID FOR SEPARATELY UNDER ITEM "2565 RIGID PVC LOOP DETECTOR " BY THE EACH.
- INDICATES SIGNAL REVISION WORK TO BE COMPLETED.

BY	DATE	REVISIONS	SYSTEM ID: 1735547	T.E. 103235	REVISE SIGNAL SYSTEM "N" POLE NOTES TH 65 AT CSAH 18 (CROSSTOWN BLVD) HAM LAKE, ANOKA COUNTY	S.P.002-632-021, S.P.106-020-040, S.P.106-125-009	DRAWN BY:HRL	CKD BY:CDB	DATE:10/10/23
			METER ADDRESS:			CERTIFIED BY	LIC. NO. 26829		DATE: 12/11/23
			OLD SYSTEM ID: 21186			STATE PROJ.NO. 0208-165 (T.H.65)			SHEET NO. SS65 OF SS87 SHEETS

PLOTTED/REVISED: 14-DEC-2023

DISTRICT \*: Metro  
PLOT NAME: T1735547\_sgl\_62  
FILENAME: Projects\DM\_FOS\06500000\Traffic\Signals\23.28\_21186\_Crosstown\_Bld T1735547-PENDING\T1735547\_sgl.dgn



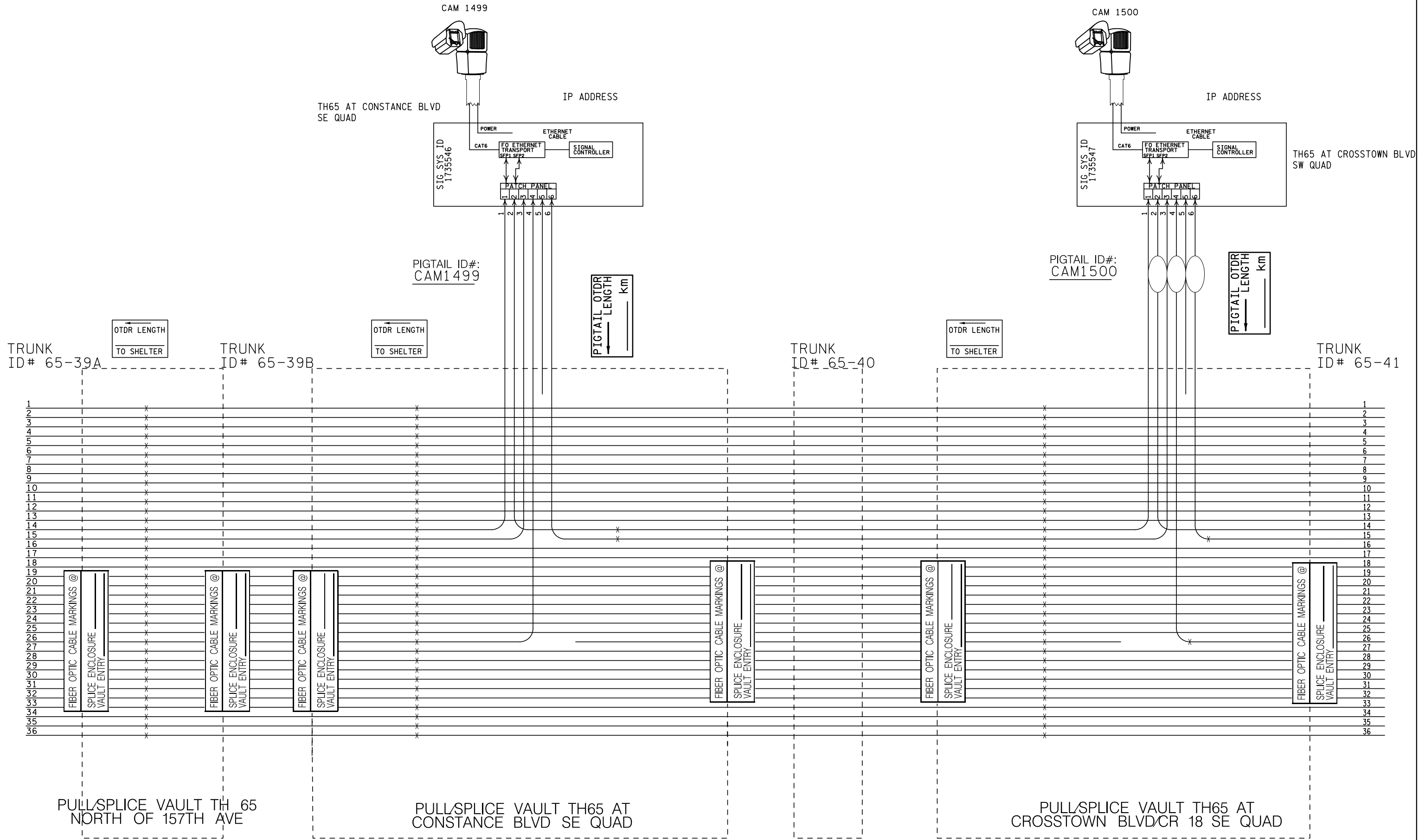
▲ DENOTES REVISE SIGNAL SYSTEM PAY ITEM WORK.  
◆ DENOTES LOOP DETECTOR REPLACEMENT. ALL OTHER ITEMS SHOWN ARE INPLACE.

BY	DATE	REVISIONS

SYSTEM ID: 1735547	T.E. 103235
METER ADDRESS:	
OLD SYSTEM ID: 21186	

**REVISE SIGNAL SYSTEM "N"**  
**FIELD WIRING DIAGRAM**  
 TH 65 AT CSAH 18 (CROSSTOWN BLVD)  
 HAM LAKE, ANOKA COUNTY

S.P.002-632-021, S.P.106-020-040, S.P.106-125-009	DRAWN BY:HRL	CKD BY:CDB	DATE:10/10/23
CERTIFIED BY: <i>Gregory Ken</i>	LIC. NO. 26829	DATE: 12/11/23	
STATE PROJ.NO. 0208-165 (T.H.65)	SHEET NO. SS66 OF SS87 SHEETS		



SP 002-632-021, SP 106-020-040, SP 106-125-009

REV. NO.	DATE: / /
REV. NO.	DATE: / /

CERTIFIED BY *Michael P. Manning* LIC. NO. 43957 OCT 16 2023  
 LICENSED PROFESSIONAL ENGINEER

PLOTTED/REVISED: 6/7/2013

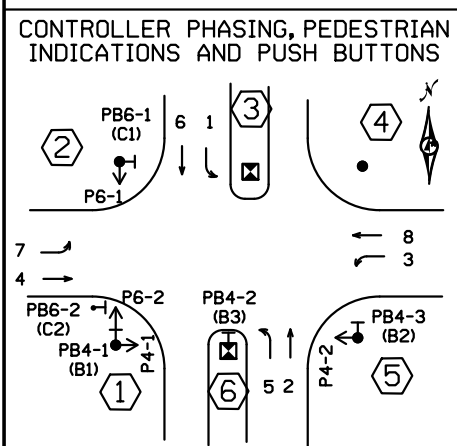
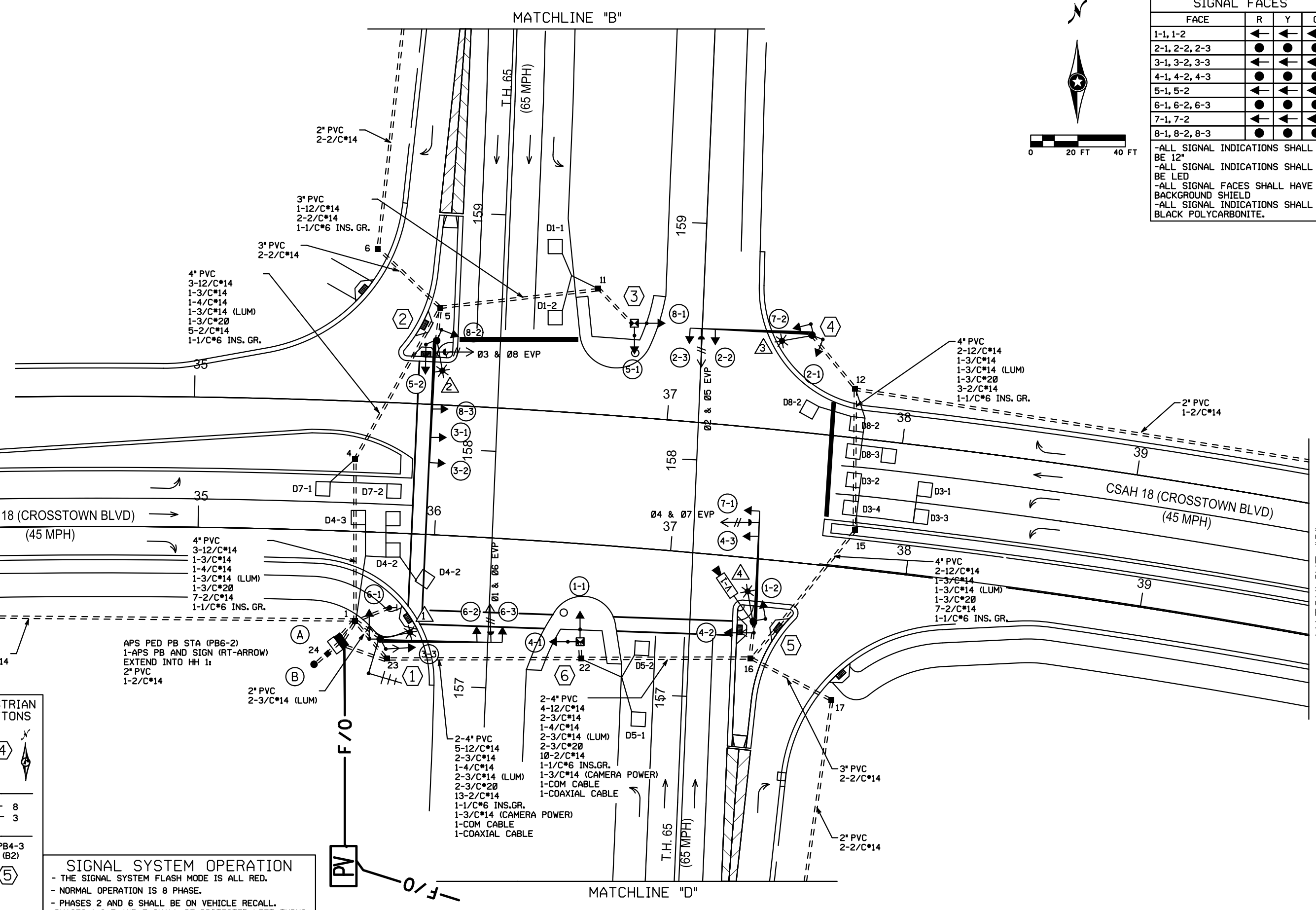
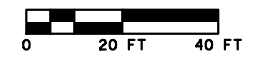
DISTRICT #: METRO  
IPLOT NAME: layout  
PATH & FILENAME: IP\_PWP-d0781329VT2186\_sgl.dgn

PVC LOOP DETECTORS		
NUMBER	SIZE	LOCATION
D1-1	2-6'X6'	35'
D1-2	2-6'X6'	5'
D2-1	2-6'X6'	625'
D2-2	2-6'X6'	315'
D3-1, D3-3	2-6'X6'	35'
D3-2, D3-4	2-6'X6'	5'
D4-1	6'X6'	400'
D4-2	2-6'X6'	-5' & 5'
D4-3	2-6'X6'	5' & 20'
D5-1	6'X6'	35'
D5-2	6'X6'	5'
D6-1	2-6'X6'	625'
D6-2	2-6'X6'	315'
D7-1	6'X6'	35'
D7-2	6'X6'	5'
D8-1	6'X6'	400'
D8-2	2-6'X6'	-5' & 5'
D8-3	2-6'X6'	5' & 20'

LOCATION:  
DISTANCE FROM STOP BAR TO FRONT OF LOOP DETECTOR

SIGNAL FACES			
FACE	R	Y	G
1-1, 1-2	←	←	←
2-1, 2-2, 2-3	●	●	●
3-1, 3-2, 3-3	←	←	←
4-1, 4-2, 4-3	●	●	●
5-1, 5-2	←	←	←
6-1, 6-2, 6-3	●	●	●
7-1, 7-2	←	←	←
8-1, 8-2, 8-3	●	●	●

-ALL SIGNAL INDICATIONS SHALL BE 12"  
-ALL SIGNAL INDICATIONS SHALL BE LED  
-ALL SIGNAL FACES SHALL HAVE A BACKGROUND SHIELD  
-ALL SIGNAL INDICATIONS SHALL BE BLACK POLYCARBONITE.



**SIGNAL SYSTEM OPERATION**

- THE SIGNAL SYSTEM FLASH MODE IS ALL RED.
- NORMAL OPERATION IS 8 PHASE.
- PHASES 2 AND 6 SHALL BE ON VEHICLE RECALL.
- PHASES 1, 3, 5, AND 7 SHALL BE PROTECTED LEFT TURNS.

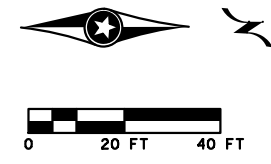
BY	DATE	REVISIONS
EJA	4-26-13	AS-BUILT/CORRECTIONS OF SP 0207-94

SYSTEM ID: 21186  
METER ADDRESS:  
MASTER ID:  
T.E.  
T.E.

**INTERSECTION LAYOUT**  
**TH 65 AT CSAH 18 (CROSSTOWN BLVD)**  
**HAM LAKE, ANOKA COUNTY**

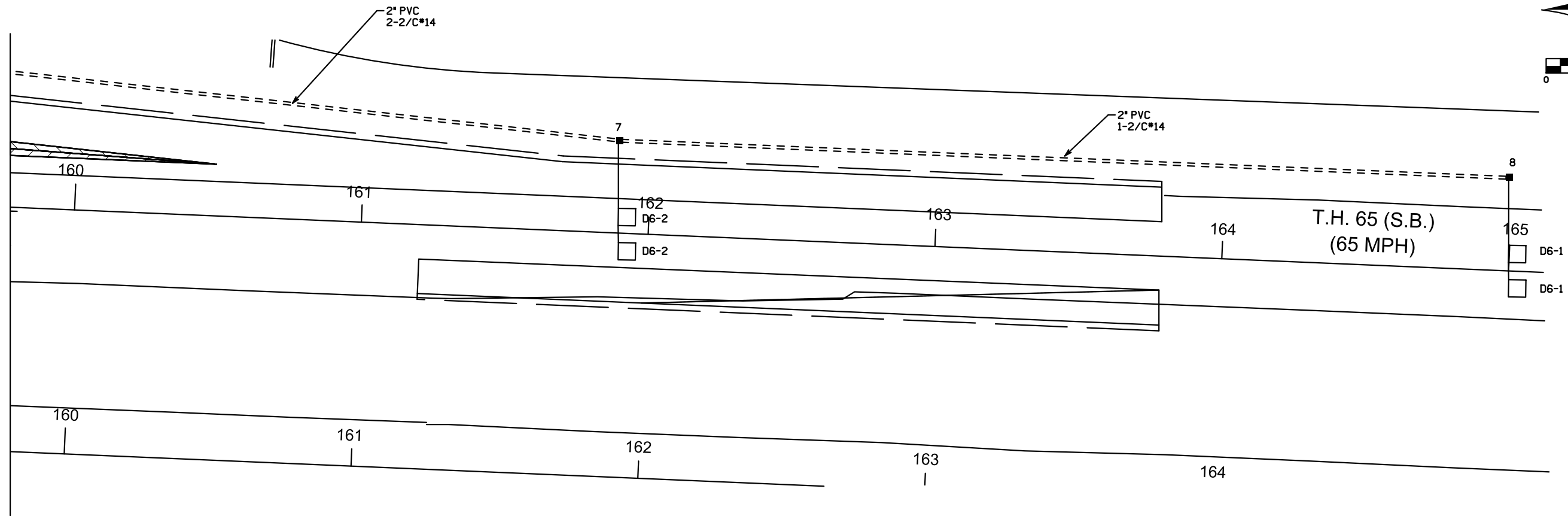
S.A.P. NO.	DRAWN BY: SJK	CKD BY: CDB	DATE: 05-23-11
CERTIFIED BY _____	LIC. NO. 19863	DATE: 05-23-11	
STATE PROJ. NO.	(T.H. 65)	SHEET NO. 1 OF 4 SHEETS	





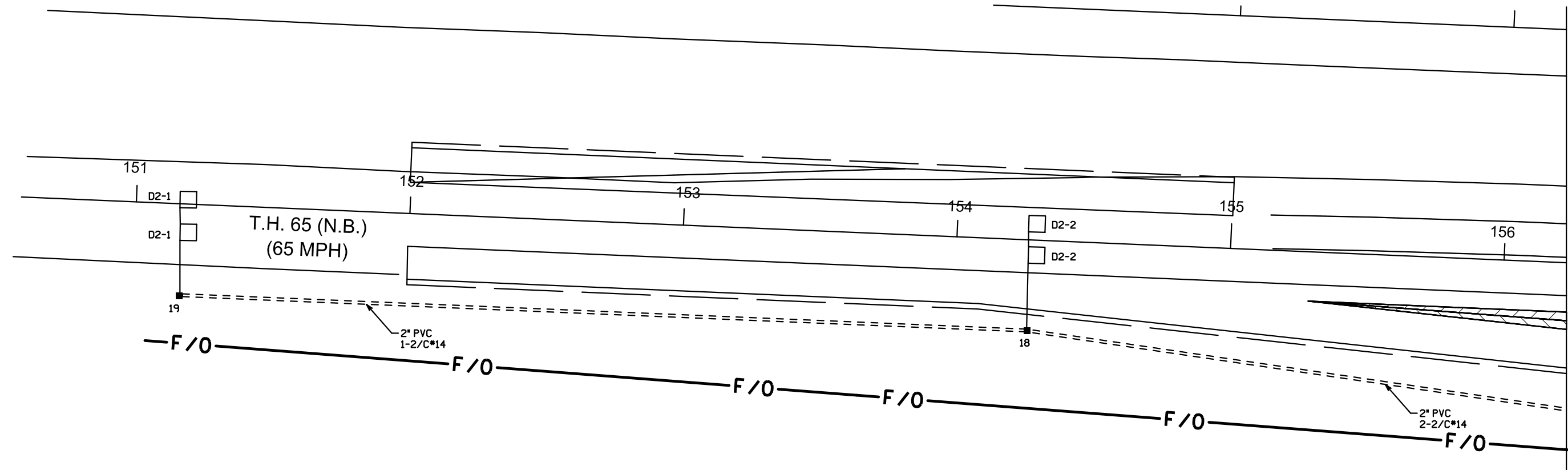
PLOTTED/REVISED: 6/7/2013

MATCHLINE "B"



DISTRICT #: METRO  
 IPLOT NAME: match lines 2 of 2  
 PATH & FILENAME: IP\_PWP-d0781329T2186\_sgl.dgn

MATCHLINE "D"

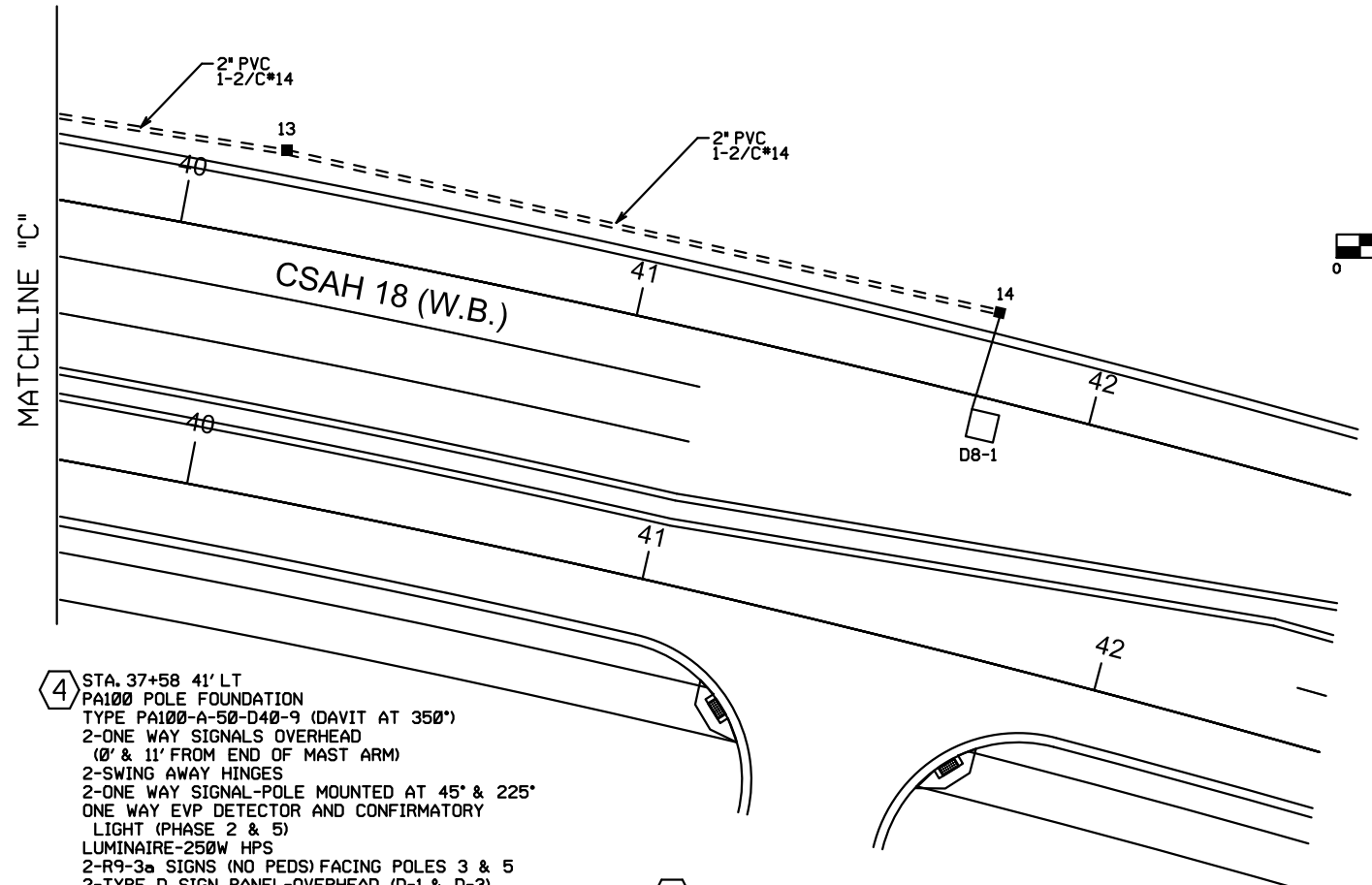
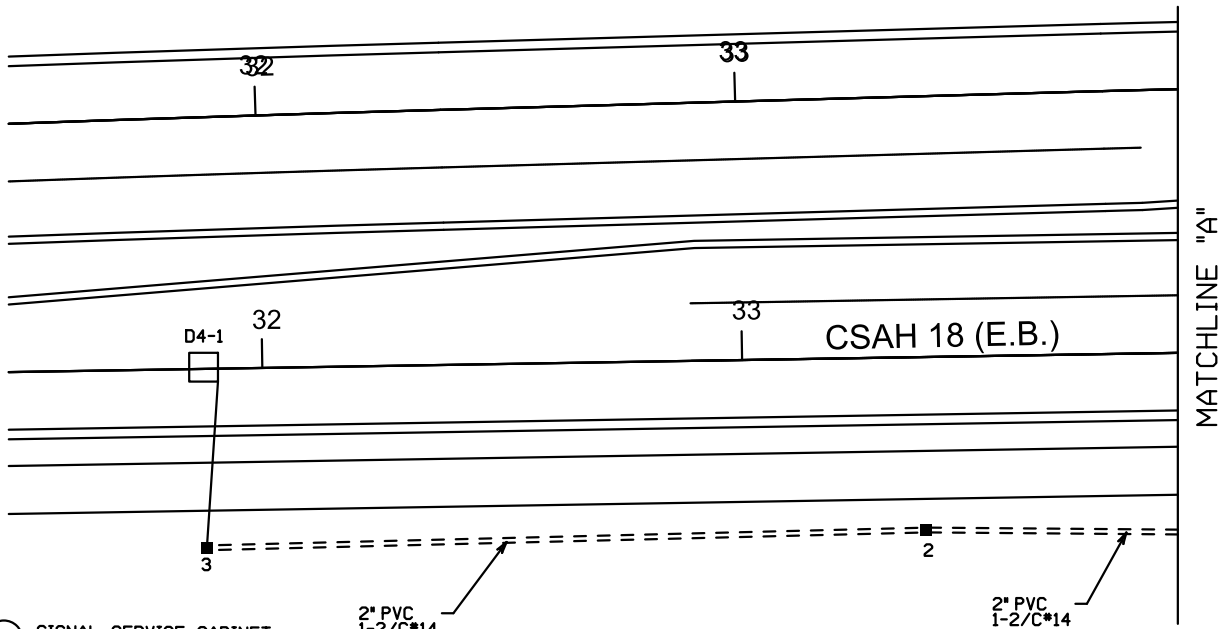


BY	DATE	REVISIONS
EJA	4-26-13	AS-BUILT/CORRECTION OF SP 0207-94

SYSTEM ID: 21186	T.E.
METER ADDRESS:	
MASTER ID:	T.E.

**MATCH LINES 1 OF 2**  
**TH 65 AT CSAH 18 (CROSTOWN BLVD)**  
**HAM LAKE, ANOKA COUNTY**

S.A.P. NO.	DRAWN BY: SJK	CKD BY: CDB	DATE: 05-23-11
CERTIFIED BY _____	LIC. NO. 19863	DATE: 05-23-11	
<small>LICENSED PROFESSIONAL ENGINEER</small>			
STATE PROJ. NO.	(T.H. 65)	SHEET NO.	2 OF 4 SHEETS



- (A) SIGNAL SERVICE CABINET  
CABINET FOUNDATION  
EXTEND INTO HH 24:  
METERED SIGNAL SERVICE  
2" RSC  
3-1/C\*6  
UNMETERED STREET LIGHT SERVICE  
4-3/C\*12 (LUM)  
STUB OUT 2" RSC FROM  
SERVICE CABINET TO NORTH (FOR  
SERVICE BY CONNEXUS)  
EQUIPMENT PAD  
SERVICE CABINET  
CONTROLLER AND CABINET  
METERED SIGNAL SERVICE  
EXTEND INTO HH 1:  
2-4" PVC  
5-12/C\*14  
2-3/C\*14  
2-4/C\*14  
9-2/C\*14  
2-3/C\*20  
1-COM CABLE CAT6 (ANTENNA)  
1-1/C\*6 INS.GR.
- EXTEND INTO HH 23:  
2-4" PVC  
5-12/C\*14  
2-3/C\*14  
1-4/C\*14  
2-3/C\*20  
13-2/C\*14  
1-3/C\*14 (CAMERA POWER)  
1-COM CABLE CAT6 (CAMERA)  
1-COAXIAL CABLE  
1-1/C\*6 INS.GR.
- STUB OUT 2-3" PVC (THREAD AND CAP BOTH ENDS)  
STUB OUT 1" PVC (THREAD AND CAP BOTH ENDS)
- SERVICE CABINET TO CONTROLLER CABINET:  
2" PVC  
2-1/C\*6  
1-1/C\*6 INS.GR.
- SERVICE CABINET TO HH 24:  
2" PVC  
3-1/C\*2
- SERVICE CABINET TO HH 1:  
(UNMETERED LIGHTING)  
2" PVC  
4-3/C\*14 (LUM)
- CONTROLLER CABINET TO TMS PULL VAULT  
1 1/2" CONDUIT INSIDE EXISTING 3" RSC:  
1-6SM FIBER OPTIC

- (5) STA. 37+37 27' RT  
PA100 POLE FOUNDATION  
TYPE PA100-A-45  
1-X6-350/CAM 400 EXTENSION (MOUNTED AT 350 DEG)  
LUMINAIRE-200 WATT H.P.S.  
1-VIDEO CAMERA WITH MOUNT  
2-ONE WAY SIGNALS OVERHEAD  
(0' & 11' FROM END OF MAST ARM)  
2-ONE WAY SIGNAL-POLE MOUNTED AT 45 & 225  
ONE WAY EVP DETECTOR AND CONFIRMATORY  
LIGHT (PHASE 4 & 7)  
LUMINAIRE-250W HPS  
1-COUNTDOWN PEDESTRIAN INDICATIONS POLE  
MOUNTED AT 225  
1-APS PEDESTRIAN PUSH BUTTON AND SIGN (RT ARROW PB4-3)  
1-R9-3a SIGN (NO PEDS) FACING POLE 4  
1-TYPE D SIGN PANEL-OVERHEAD (D-2)  
1-SIGN (R6-1L) POLE MOUNTED AT 0  
1-SIGN (R6-1R) POLE MOUNTED AT 180  
EXTEND INTO HH 16:  
3" PVC  
2-12/C\*14  
1-3/C\*14  
1-4/C\*14  
1-3/C\*14 (LUM)  
1-2/C\*14  
1-3/C\*20  
1-1/C\*6 INS.GR.  
1-7/16" GROUNDING BRAID TO GROUND ROD IN H.H.16  
1-3/8" (CAMERA POWER)  
1-COM CABLE CAT6 (CAMERA)  
1-COAXIAL CABLE
- (6) STA. 36+63 41' RT  
PEDESTAL FOUNDATION  
14" PEDESTAL AND WIND COLLAR (INCLUDES BASE)  
2-ONE WAY SIGNALS POLE MOUNTED  
1-APS PUSH BUTTON AND SIGN (DBL ARROW PB4-2)  
EXTEND INTO HH 22:  
3" PVC  
1-12/C\*14  
1-2/C\*14  
1-1/C\*6 INS.GR.

- (4) STA. 37+58 41' LT  
PA100 POLE FOUNDATION  
TYPE PA100-A-50-D40-9 (DAVIT AT 350°)  
2-ONE WAY SIGNALS OVERHEAD  
(0' & 11' FROM END OF MAST ARM)  
2-SWING AWAY HINGES  
2-ONE WAY SIGNAL-POLE MOUNTED AT 45° & 225°  
ONE WAY EVP DETECTOR AND CONFIRMATORY  
LIGHT (PHASE 2 & 5)  
LUMINAIRE-250W HPS  
2-R9-3a SIGNS (NO PEDS) FACING POLES 3 & 5  
2-TYPE D SIGN PANEL-OVERHEAD (D-1 & D-3)  
1-SIGN (R6-1L) POLE MOUNTED AT 0°  
1-SIGN (R6-1R) POLE MOUNTED AT 180°  
EXTEND INTO HH 12:  
3" PVC  
2-12/C\*14  
1-3/C\*14  
1-3/C\*14 (LUM)  
1-3/C\*20  
1-1/C\*6 INS.GR.
- (1) STA. 35+80 45' RT  
PA100 POLE FOUNDATION  
TYPE PA100-A-50-D40-9 (DAVIT AT 350°)  
RADIO INTERCONNECT ANTENNA ETHERNET  
2-ONE WAY SIGNALS OVERHEAD  
(0' & 11' FROM END OF MAST ARM)  
2-ONE WAY SIGNAL-POLE MOUNTED AT 45 & 225  
2-SWING AWAY HINGES  
ONE WAY EVP DETECTOR AND CONFIRMATORY  
LIGHT (PHASE 1 & 6)  
LUMINAIRE-250W HPS  
2-COUNTDOWN PEDESTRIAN INDICATIONS POLE  
MOUNTED AT 45 AND 225  
1-APS PUSH BUTTON AND SIGN (LT ARROW PB4-1)  
2-TYPE D SIGN PANEL-OVERHEAD (D-1 & D-3)  
1-SIGN (R6-1L) POLE MOUNTED AT 0°  
1-SIGN (R6-1R) POLE MOUNTED AT 180°  
EXTEND INTO HH 1:  
3" PVC  
2-12/C\*14  
1-3/C\*14  
1-4/C\*14  
1-3/C\*14 (LUM)  
1-2/C\*14  
1-3/C\*20  
1-1/C\*6 INS.GR.  
1-COM CABLE CAT6 (ANTENNA)
- (2) STA. 36+01 25' LT  
PA100 POLE FOUNDATION  
TYPE PA100-A-50-D40-9 (DAVIT AT 350°)  
3-ONE WAY SIGNALS OVERHEAD  
(0' & 11' & 23') FROM END OF MAST ARM)  
2-ONE WAY SIGNAL-POLE MOUNTED AT 45° & 225°  
ONE WAY EVP DETECTOR AND CONFIRMATORY  
LIGHT (PHASE 3 & 8)  
LUMINAIRE-250W HPS  
1-COUNTDOWN PEDESTRIAN INDICATIONS POLE  
MOUNTED AT 45°  
1-APS PEDESTRIAN PUSH BUTTON AND SIGN (LT ARROW PB6-1)  
1-R9-3a SIGN (NO PEDS) FACING POLE 3  
1-TYPE D SIGN PANEL-OVERHEAD (D-2)  
1-SIGN (R6-1L) POLE MOUNTED AT 0°  
1-SIGN (R6-1R) POLE MOUNTED AT 180°  
EXTEND INTO HH 5:  
3" PVC  
2-12/C\*14  
1-3/C\*14  
1-4/C\*14  
1-3/C\*14 (LUM)  
1-2/C\*14  
1-3/C\*20  
1-1/C\*6 INS.GR.
- (3) STA. 36+82 39' LT  
PEDESTAL FOUNDATION  
14" PEDESTAL AND WIND COLLAR (INCLUDES BASE)  
2-ONE WAY SIGNALS POLE MOUNTED  
2-R9-3a SIGNS (NO PEDS) FACING POLES 2 AND 4  
EXTEND INTO HH 11:  
3" PVC  
1-12/C\*14  
1-1/C\*6 INS.GR.

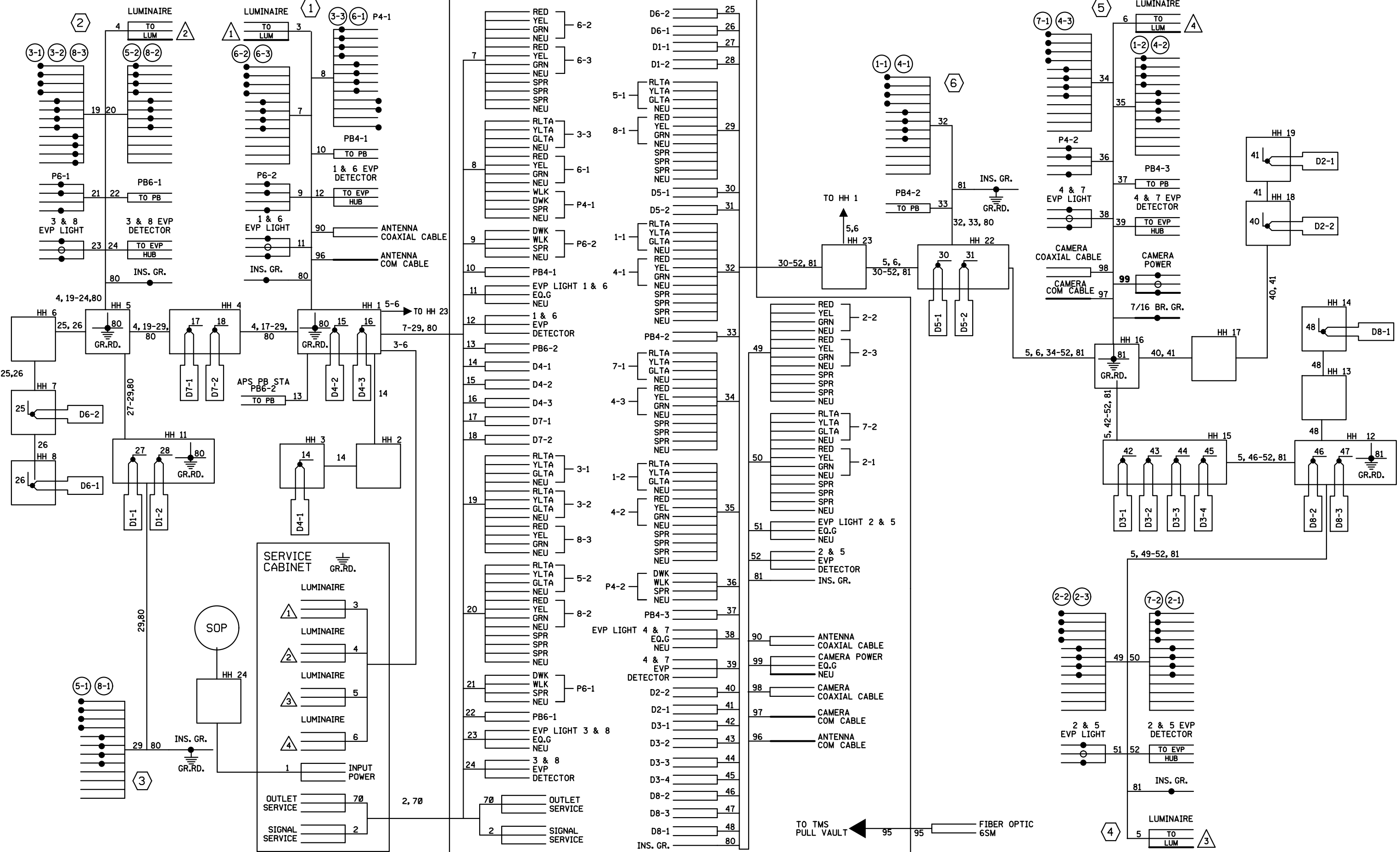
DISTRICT #: METRO  
 IPLOT NAME: match lines 1 of 2  
 PATH & FILENAME: IP\_PWP-d0781329VT2186\_sgl.dgn  
 PLOTTED/REVISED: 6/7/2013

BY	DATE	REVISIONS	SYSTEM ID: 21186	T.E.	S.A.P. NO.	DRAWN BY: SJK	CKD BY: CDB	DATE: 05-23-11
EJA	4-26-13	AS-BUILT/CORRECTIONS OF SP 0207-94	METER ADDRESS:		CERTIFIED BY	LIC. NO. 19863		DATE: 05-23-11
			MASTER ID:	T.E.	STATE PROJ. NO. (T.H.65)		SHEET NO. 3 OF 4 SHEETS	

**MATCH LINES 2 OF 2**  
**TH 65 AT CSAH 18 (CROSTOWN BLVD)**  
**HAM LAKE, ANOKA COUNTY**

PLOTTED/REVISED: 6/7/2013

DISTRICT #: METRO  
PLOT NAME: wiring diagram  
PATH & FILENAME: IP\_PWP-d0781329T2186\_sgl.dgn



BY	DATE	REVISIONS
EJA	4-26-13	AS-BUILT/CORRECTIONS OF SP 0207-94

SYSTEM ID: 21186  
METER ADDRESS:  
MASTER ID:

T.E.  
T.E.

**FIELD WIRING DIAGRAM**  
TH 65 AT CSAH 18 (CROSTOWN BLVD)  
HAM LAKE, ANOKA COUNTY

S.A.P. NO. \_\_\_\_\_  
DRAWN BY: SJK CKD BY: CDB DATE: 05-23-11  
CERTIFIED BY \_\_\_\_\_ LIC. NO. 19863 DATE: 05-23-11  
STATE PROJ. NO. \_\_\_\_\_ (T.H. 65) SHEET NO. 4 OF 4 SHEETS