

PLOTTED/REVISED: \$\$\$@DATE\$\$\$

DISTRICT #: \$\$\$@DISTRICT\$\$\$  
PLOT NAME: \$\$\$@PLOT\$NAME\$\$\$  
PATH & FILENAME: \$\$\$@PATH\$FILENAME\$\$\$

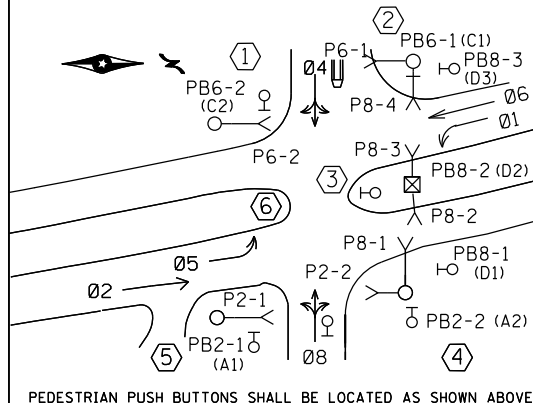
LOOP DETECTOR CHART		
NUMBER	SIZE (FT)	LOCATION
D1-1, D1-2	6X6'	40
D1-3, D1-4	6X6'	10
D2-1, D2-2	6X6'	625
D4-1, D4-2	2-6' X6'	5,20
D4-3	2-6' X6'	-5,10
D5-1	6X6'	40
D5-2	6X6'	10
D6-1, D6-2	6X6'	625
D8-1, D8-2	6X6'	180
D8-3	2-6' X6'	-5,10
D8-4	2-6' X6'	5,20

-ALL LOOP DETECTORS ARE PVC  
-LOCATION: DISTANCE FROM CROSSWALK/STOP BAR IN FEET

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

-ALL SIGNAL INDICATIONS ARE 12" LED  
-ALL SIGNAL HEADS ARE BLACK POLYCARBONITE WITH BACKGROUND SHIELDS

### CONTROLLER PHASING, PEDESTRIAN INDICATIONS AND PUSH BUTTONS



**SIGNAL SYSTEM OPERATION**

- THE SIGNAL SYSTEM FLASH MODE IS ALL RED.
- NORMAL OPERATION IS 6 PHASE, WITH PHASES 1 AND 5 BEING PROTECTED LEFT TURN PHASES
- PHASES 2 AND 6 BEING VEHICLE RECALL.

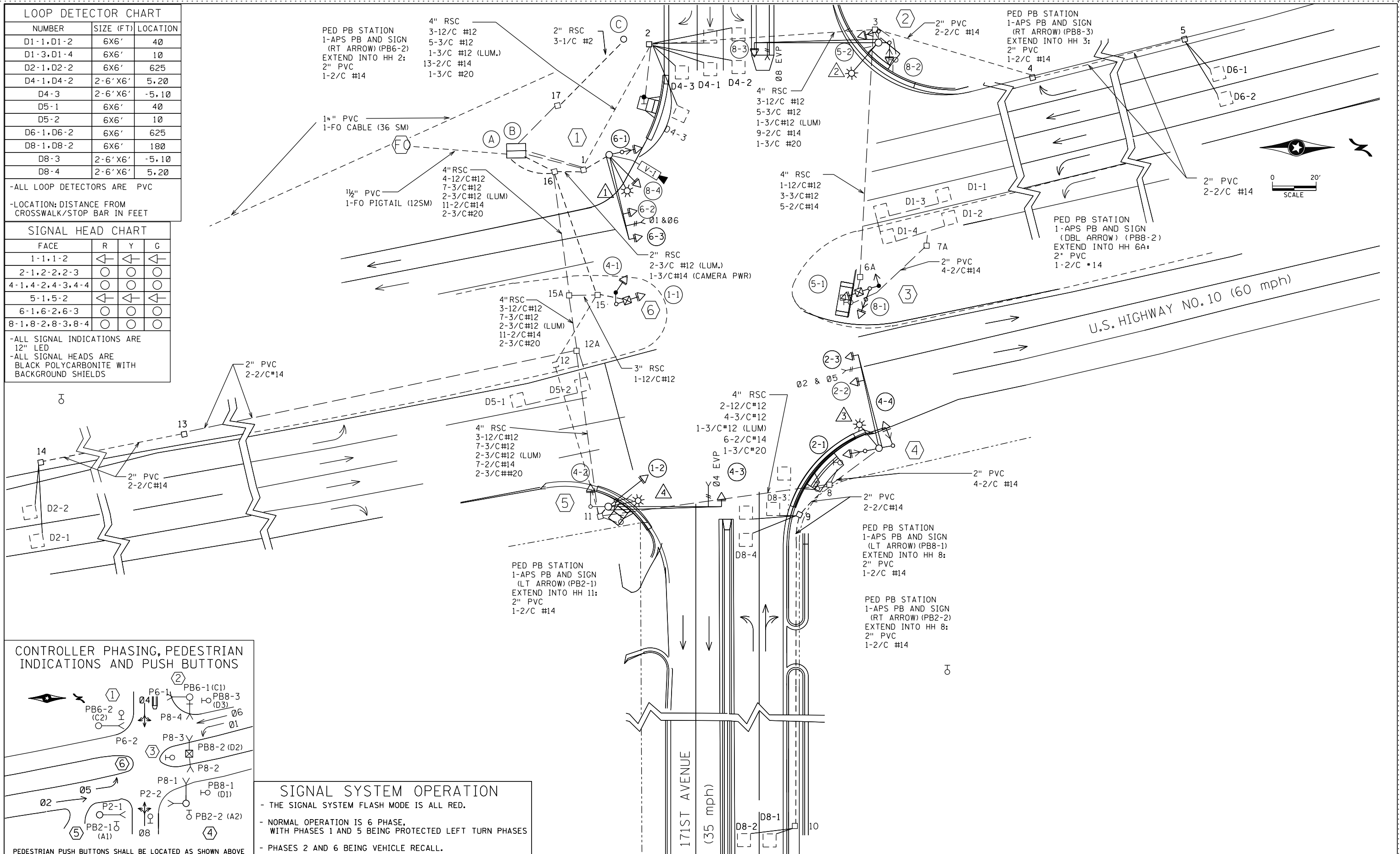
PEDESTRIAN PUSH BUTTONS SHALL BE LOCATED AS SHOWN ABOVE

BY	DATE	REVISIONS
EJA	05-27-14	AS-BUILTS OF SP 7101-61 APS & 8825-345 CAMERA

SYSTEM ID: 22297 T.E. 5754  
METER ADDRESS: 17001 171ST AVE. NW  
MASTER ID:

INTERSECTION LAYOUT  
T.H. 10 AT 171ST AVENUE  
IN ELK RIVER, SHERBURNE COUNTY

S.A.P. NO.	DRAWN BY: MAS	CKD BY: GAK	DATE: 2/19/13
CERTIFIED BY _____	LICENSED PROFESSIONAL ENGINEER		LIC. NO. 26829 DATE: _____
STATE PROJ. NO. (T.H. 10)	SHEET NO. 1 OF 3 SHEETS		



PLOTTED/REVISED: \$\$\$@DATE@\$\$\$\$

① PA 100 POLE FOUNDATION  
 TYPE PA 100-A-40-X6-350/CAM 400 (MOUNTED AT 350 DEG)  
 2-ONE WAY SIGNALS (OVERHEAD)  
 (0', 12' FROM END OF MAST ARM)  
 1-TYPE 10A POLE MOUNTED AT 0 DEG  
 1-TYPE 10B POLE MOUNTED AT 270 DEG  
 1-CD PED HEAD  
 LUMINAIRE - 250 WATT H.P.S.  
 1-ONE WAY EVP DETECTOR AND CONFIRMATION LIGHT  
 (6' FROM END OF MAST ARM) (PHASES 1+6)  
 VIDEO CAMERA #654  
 VIDEO CAMER POWER SUPPLY  
 3" RSC TO HH1:  
 2-12/C#12  
 2-3/C#12  
 1-3/C#14 (CAMERA PWR)  
 1-7.5PR#24 (COM CABLE)  
 1-COAX CABLE  
 1-3/C#20  
 1-3/C#12 (LUM)

② PA 100 POLE FOUNDATION  
 TYPE PA 100-A-55-D40-9 (DAVIT AT 350 DEG)  
 1-ONE WAY SIGNAL (OVERHEAD) MOUNTED AT 0'  
 2-TYPE 10B POLE MOUNTED AT 90 AND 180 DEG  
 2-CD PED HEADS  
 1-APS PB AND SIGN (LT ARROW) (PB6-1)  
 1-ONE WAY EVP DETECTOR AND CONFIRMATION LIGHT  
 (6' FROM END OF MAST ARM) (PHASE 8)  
 LUMINAIRE - 250 WATT H.P.S.  
 3" RSC TO HH 3:  
 2-12/C#12  
 2-3/C#12  
 1-3/C#20  
 1-3/C#12 (LUM)

③ PEDESTAL FOUNDATION  
 13' TYPE 6A PEDESTAL AND BASE  
 2-CD PED HEADS  
 3" RSC TO HH 6A:  
 1-12/C #12  
 3-3/C #12

④ PA 100 POLE FOUNDATION  
 TYPE PA 100-A-45-D40-9 (DAVIT AT 350 DEG)  
 2-ONE WAY SIGNALS (OVERHEAD)  
 (0', 12' FROM END OF MAST ARM)  
 2-TYPE 10B POLE MOUNTED AT 90 AND 270 DEG  
 2-CD PED HEADS  
 LUMINAIRE - 250 WATT H.P.S.  
 ONE WAY EVP DETECTOR AND CONFIRMATION LIGHT  
 (6' FROM END OF MAST ARM) (PHASES 2+5)  
 3" RSC TO HH 8:  
 2-12/C#12  
 4-3/C#12  
 1-3/C#20  
 1-3/C#12 (LUM)

⑤ PA 100 POLE FOUNDATION  
 TYPE PA 100-A-50-D40-9 (DAVIT AT 350°)  
 ONE-WAY SIGNAL (OVERHEAD)  
 1-TYPE 10B POLE MOUNTED AT 0°  
 1-TYPE 10A POLE MOUNTED AT 180 DEG  
 1-CD PED HEAD  
 LUMINAIRE - 250 WATT H.P.S.  
 R9-3 SIGN (FACING POLE 6)  
 ONE WAY EVP DETECTOR AND CONFIRMATION  
 LIGHT (6' FROM END OF MAST ARM) (PHASE 4)  
 3" RSC TO HH 11:  
 1-12/C#12  
 3-3/C#12  
 1-3/C#20  
 1-3/C#12 (LUM)

⑥ PEDESTAL FOUNDATION  
 13' TYPE 6A PEDESTAL AND BASE  
 2-R9-3 SIGNS (FACING POLES 1 & 5)  
 3" RSC TO HH15:  
 1-12/C#12

Ⓐ EQUIPMENT PAD  
 CONTROLLER & CABINET  
 FIBER OPTIC PIGTAIL  
 EXTEND 4" RSC TO HH 16:  
 4-12/C #12  
 7-3/C #12  
 11-2/C #14  
 2-3/C #20  
 4" RSC TO HH 1:  
 5-12/C #12  
 7-3/C #12  
 13-2/C#14  
 7-3/C #20  
 3" PVC TO HH 1:  
 1-7.5PR #24 (COM CABLE)  
 1-COAX CABLE  
 1-3" RSC STUB OUT WITH 1\* PVC INSIDE TO TMS VAULT:  
 1-FO PIGTAIL (12SM)  
 1-3" RSC STUB OUT (THREADED AND CAPPED)

Ⓑ LOAD CENTER  
 2" RSC TO CONTROLLER CABINET:  
 2-1/C #6 AND 1-1/C #6 INS. GR.  
 2" RSC TO HH 16:  
 4-3/C #12 (LUM.)  
 1-3/C#14 (CAMERA PWR)  
 2" RSC TO HH 17:  
 3-1/C#2

Ⓒ SOURCE OF POWER  
 CONEXUS WOOD POLE  
 2" RSC RISER WITH WEATHERHEAD TO  
 TO HH 17:  
 3-1/C#2

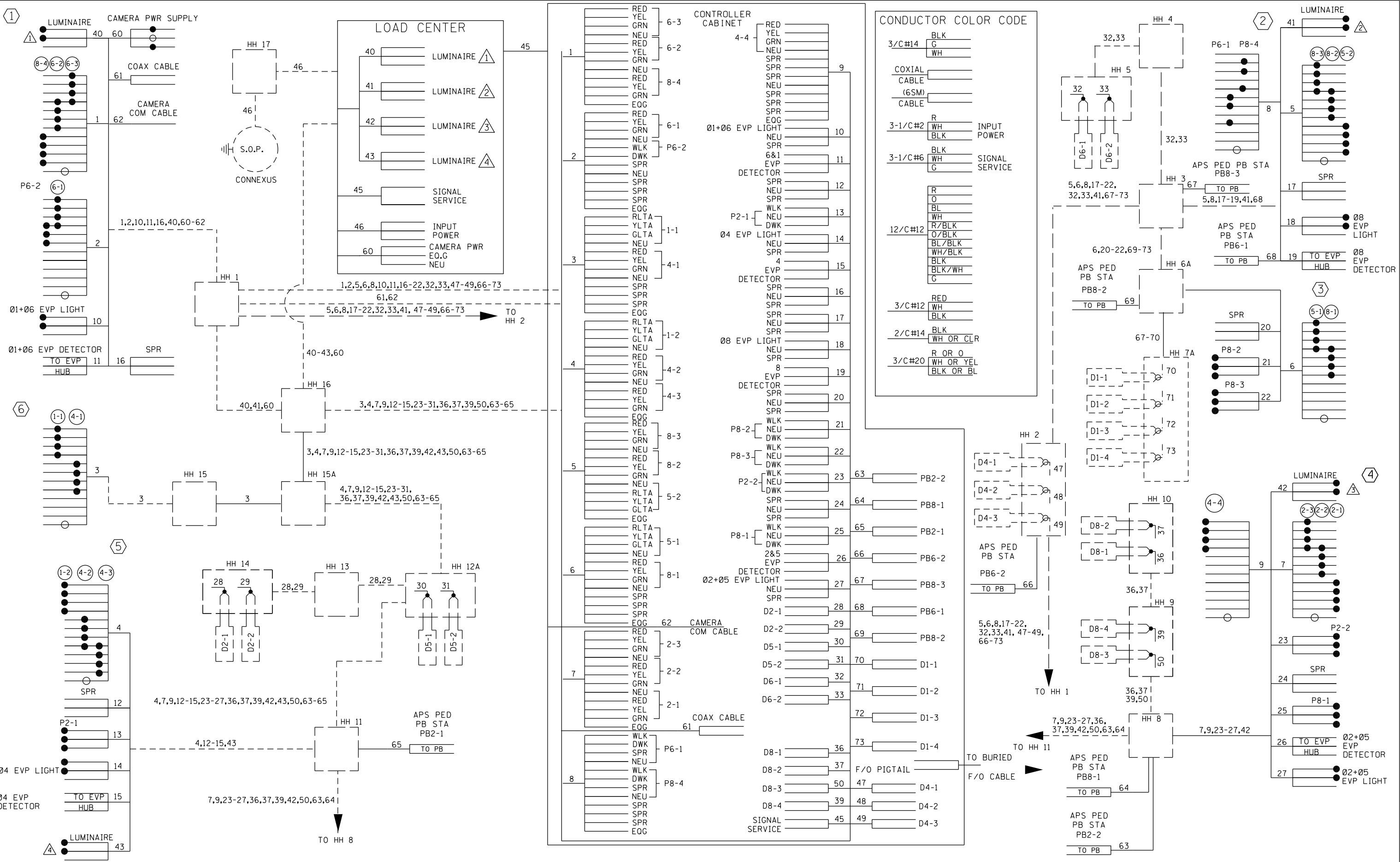
DISTRICT #: \$@DISTRICT@\$  
 PLOT NAME: \$\$\$@PLOT\$NAME@\$\$  
 PATH & FILENAME: \$\$\$@PATH\$FILENAME@\$\$\$

BY	DATE	REVISIONS	SYSTEM ID: 22297	T.E. 5754	S.A.P. NO.	DRAWN BY: MAS	CKD BY: GAK	DATE: 2/19/13
EJA	05-27-14	AS-BUILTS OF SP 7101-61 APS & 8825-345 CAMERA	METER ADDRESS: 17001 171ST AVE NW		CERTIFIED BY _____	LIC. NO. 26829	DATE: _____	
			MASTER ID:		STATE PROJ. NO.	(T.H. 10)	SHEET NO. 2 OF 3 SHEETS	

POLE NOTES  
 T.H. 10 AT 171ST AVENUE  
 IN ELK RIVER, SHERBURNE COUNTY

PLOTTED/REVISED: \$\$\$@DATE@\$\$\$\$

DISTRICT #: \$@DISTRICT@  
PLOT NAME: \$@PLOT\$NAME@  
PATH & FILENAME: \$\$\$@PATH\$FILENAME@\$\$\$



BY	DATE	REVISIONS
EJA	05-27-14	AS-BUILTS OF SP 7101-61 APS & 8825-345 CAMERA

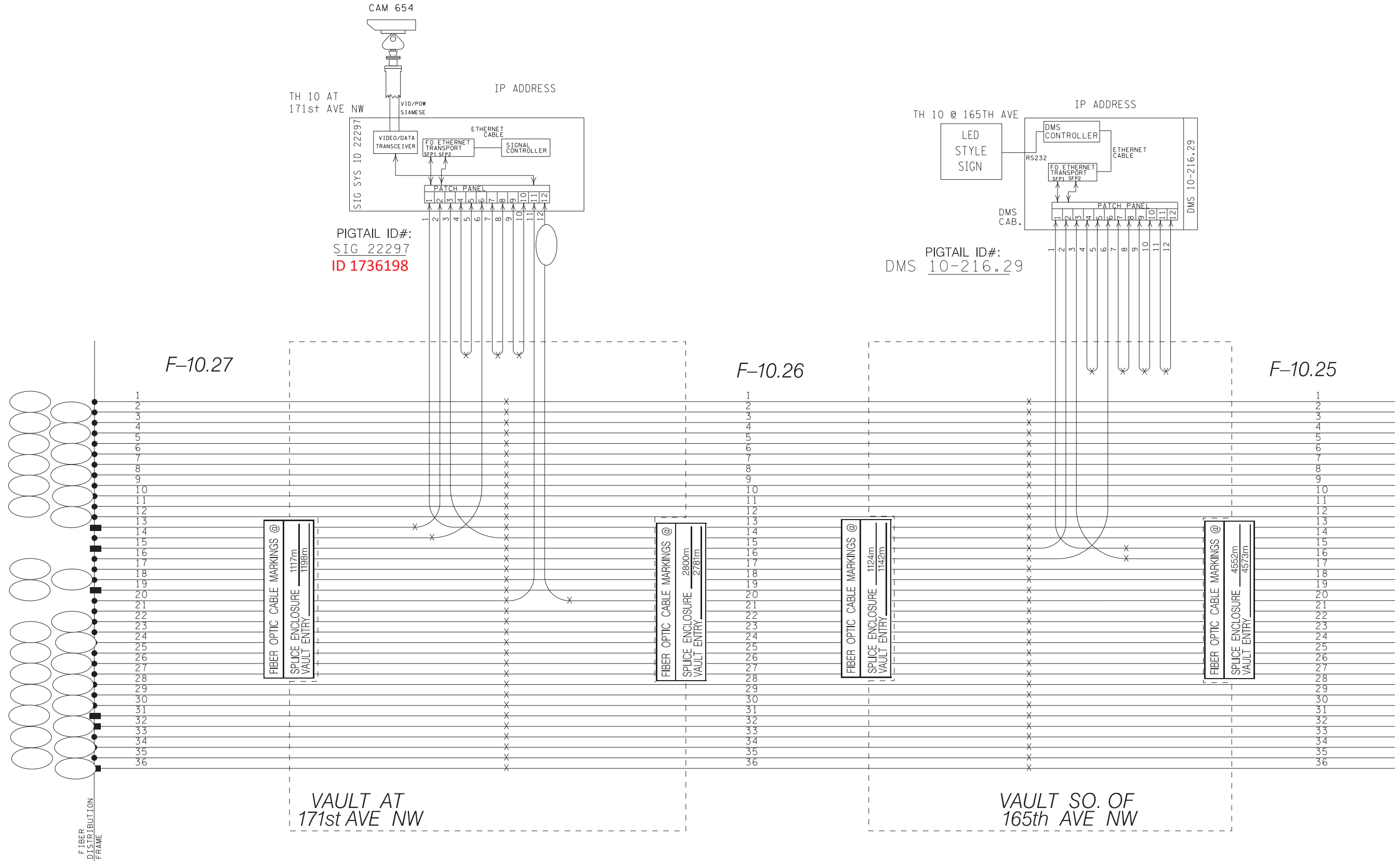
SYSTEM ID: 22297 T.E. 5754  
 METER ADDRESS: 17001 171ST AVE NW  
 MASTER ID:

WIRING DIAGRAM  
 T.H. 10 AT 171ST AVENUE  
 IN ELK RIVER, SHERBURNE COUNTY

S.A.P. NO. \_\_\_\_\_ DRAWN BY: MAS CKD BY: GAK DATE: 2/19/13  
 CERTIFIED BY \_\_\_\_\_ LIC. NO. 26829 DATE: \_\_\_\_\_  
 STATE PROJ. NO. (T.H. 10) SHEET NO. 3 OF 3 SHEETS

PATCHING SHELTER  
NO. 10-214.47

TH 10 @ TH 101



bmi.tbi

christian.mayala pdf-B and W.pltcfq  
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BURNSVILLE, MINNESOTA 55337  
Phone: (952) 890-0509  
Email: Burnsville@bolton-menk.com  
www.bolton-menk.com

REV.	BY	DATE

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

CURT T. BREZINA  
LIC. NO. 59919 DATE 03-08-2023

DESIGNED CMM  
DRAWN CMM  
CHECKED CTB

S.P. 0202-116 (TH10), S.P. 002-596-026, S.P. 002-656-001, S.P. 002-657-003, S.P. 199-113-003, S.P. 199-115-006  
TH 10/169 IMPROVEMENTS  
TRAFFIC MANAGEMENT SYSTEMS PLAN

SHEET  
SZ41  
OF  
SZ47