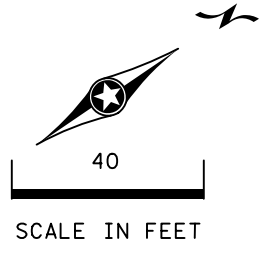


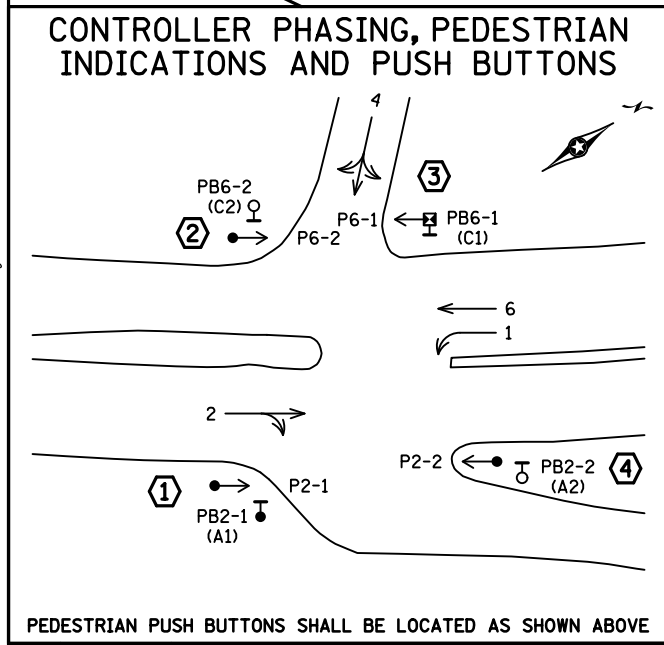
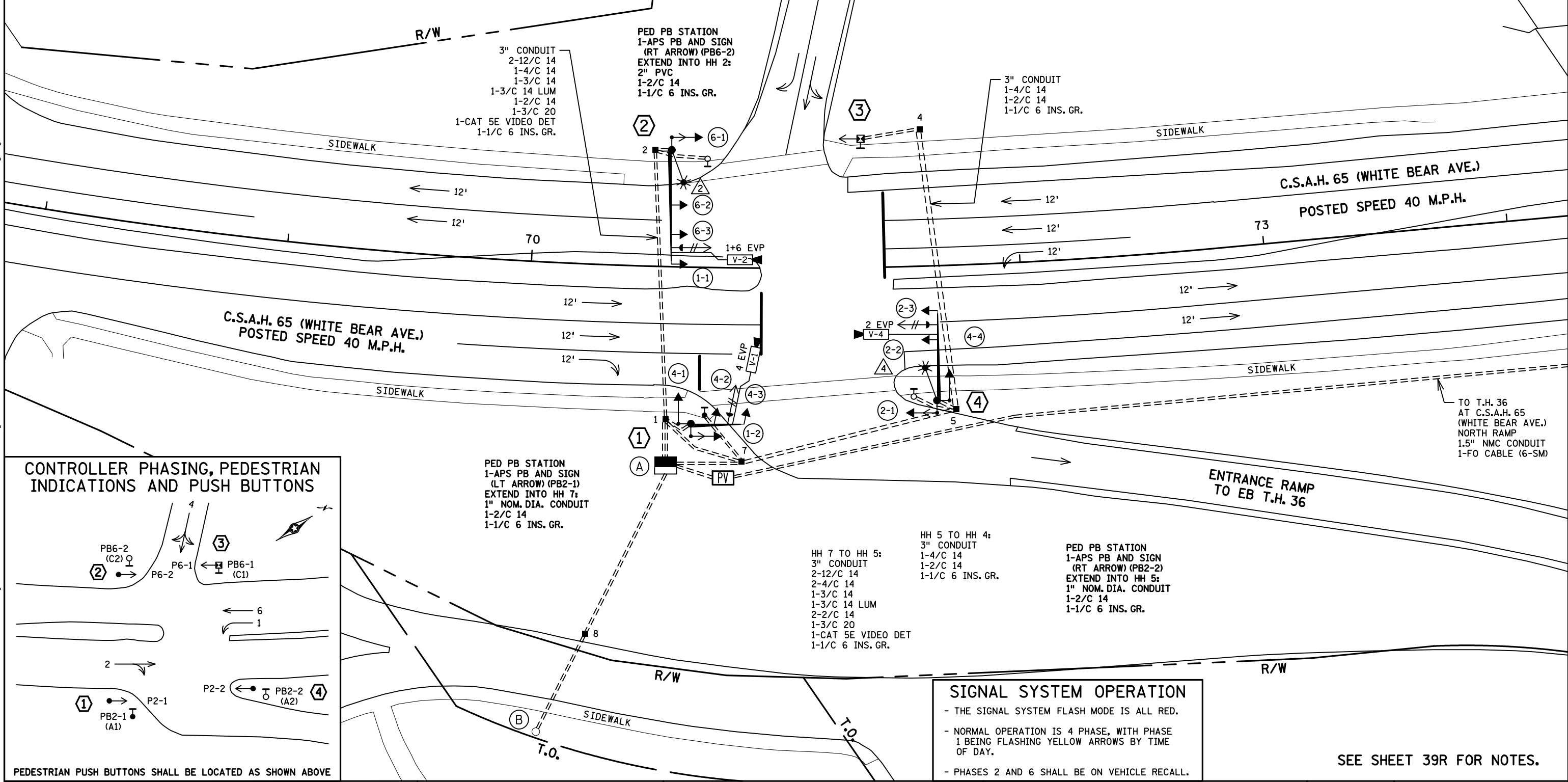
SIGNAL HEAD CHART				
FACE	R	Y	FYA	G
1-1, 1-2	←	←	←	←
2-1, 2-2, 2-3	●	●	●	●
4-1, 4-2	●	●		●
4-3, 4-4	←	←	←	←
6-1, 6-2, 6-3	●	●		●

-ALL SIGNAL INDICATIONS SHALL BE 12" LED
 -ALL SIGNAL HEADS SHALL BE BLACK POLYCARBONATE WITH BACKGROUND SHIELDS
 -FYA DENOTES FLASHING YELLOW ARROW

VIDEO DETECTION CHART		
CAMERA NUMBER	LOCATION	PHASE
V1	POLE 1	4
V2	POLE 3	1 & 6
V4	POLE 4	2



DISTRICT #: Metro
 IPLOT NAME: layout
 PATH & FILENAME: Projects\DM_R05\036\0000\Traffic\SIGNALS\8.58_165\WHITE BEAR AVE SR-2422\18T 24218_sq.dgn
 PLOTTED/REVISED: 28-SEP-2022



SIGNAL SYSTEM OPERATION

- THE SIGNAL SYSTEM FLASH MODE IS ALL RED.
- NORMAL OPERATION IS 4 PHASE, WITH PHASE 1 BEING FLASHING YELLOW ARROWS BY TIME OF DAY.
- PHASES 2 AND 6 SHALL BE ON VEHICLE RECALL.

SEE SHEET 39R FOR NOTES.

BY: SJK	DATE: 9/28/22	REVISIONS: AS-BUILT PLAN SP 6211-103	SYSTEM ID: 2422118	T.E. 10049	S.A.P. NO. 062-665-059	DRAWN BY: GDS	CKD BY: GBB	DATE: 07-15-19
METER ADDRESS: 2276 WHITE BEAR AVE			INTERSECTION LAYOUT TRAFFIC CONTROL SIGNAL SYSTEM B T.H. 36 AT C.S.A.H. 65 (WHITE BEAR AVE.) S RAMPS IN MAPLEWOOD, RAMSEY COUNTY			CERTIFIED BY: _____ LIC. NO. 19863 DATE: 07-15-19		
OLD SYSTEM ID: 20636			STATE PROJ. NO. 6211-103 (T.H.36)			SHEET NO. 38R OF 45 SHEETS		

DISTRICT *: Metro
 PLOT NAME: pole notes
 PATH & FILENAME: Projects\DM_R05\036\0000\Traffic\Signals\8.58.165\WHITE BEAR AVE SR-2422\18T24218_sg1.dgn PLOTTED/REVISED: 28-SEP-2022

② PA100 POLE FOUNDATION
 TYPE PA100-A-45-D40-9 (DAVIT AT 350 DEG)
 1-ANGLE MOUNT SIGNAL OVERHEAD AT 0'
 2-STRAIGHT MOUNT SIGNALS OVERHEAD AT 11' AND 23'
 1-ANGLE MOUNT SIGNAL AT 180 DEG
 1-ANGLE MOUNT FOR C.D. PED HEAD AT 180 DEG
 1-ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT (PHASES 1+6)
 1-VIDEO DETECTION CAMERA (STATE FURNISHED) MOUNTED ON 6' EXTENSION AT 5' FROM END OF MAST ARM
 LUMINAIRE-LED (FOR 40' MOUNTING HEIGHT)
 1-R10-X12 SIGN ADJACENT TO HEAD (1-1)
 1-R9-3 SIGN (NO PEDS) FACING POLE 1
 1-TYPE D SIGN (D-1) (SEE SIGN DETAILS)
 3" CONDUIT TO HH 2:
 2-12/C 14
 1-4/C 14
 1-3/C 14
 1-3/C 14 LUM
 1-3/C 20
 1-CAT 5E VIDEO DET
 1-1/C 6 INS. GR.

① PA85 POLE FOUNDATION
 TYPE PA85-A-20
 1-ANGLE MOUNT SIGNAL OVERHEAD AT 0'
 1-STRAIGHT MOUNT SIGNAL OVERHEAD AT 11'
 2-ANGLE MOUNT SIGNALS AT 90 AND 180 DEG
 1-ANGLE MOUNT FOR C.D. PED HEAD AT 90 DEG
 1-ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT (PHASE 4)
 1-VIDEO DETECTION CAMERA (STATE FURNISHED) MOUNTED ON 6' EXTENSION AT 5' FROM END OF MAST ARM
 1-R9-3 SIGN (NO PEDS) FACING POLE 2
 1-R6-1L SIGN (ONE WAY)
 1-R6-1R SIGN (ONE WAY)
 1-TYPE D SIGN (D-?) (SEE SIGN DETAILS)
 3" CONDUIT TO HH 1:
 2-12/C 14
 1-4/C 14
 1-3/C 14
 1-3/C 20
 1-CAT 5E VIDEO DET
 1-1/C 6 INS. GR.

③ PEDESTAL FOUNDATION
 10' PEDESTAL POLE PLUS BASE
 1-STRAIGHT MOUNT FOR C.D. PED HEAD AT 180 DEG
 1-APS PB AND SIGN (LT ARROW) (PB6-1)
 1-R9-3 SIGN (NO PEDS) FACING POLE 4
 1-R6-1L SIGN (ONE WAY)
 1-R6-1R SIGN (ONE WAY)
 3" CONDUIT TO HH 4:
 1-4/C 14
 1-2/C 14
 1-1/C 6 INS. GR.

④ PA90 POLE FOUNDATION
 TYPE PA90-A-35-D40-9 (DAVIT AT 350 DEG) (STATE FURNISHES 35' MAST ARM)
 1-ANGLE MOUNT SIGNAL OVERHEAD AT 0'
 1-STRAIGHT MOUNT SIGNAL OVERHEAD AT 11'
 2-ANGLE MOUNT SIGNALS AT 90 AND 180 DEG
 1-ANGLE MOUNT FOR C.D. PED HEAD AT 90 DEG
 1-ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT (PHASE 2)
 1-VIDEO DETECTION CAMERA (STATE FURNISHED) MOUNTED ON 6' EXTENSION AT 5' FROM END OF MAST ARM
 LUMINAIRE-LED (FOR 40' MOUNTING HEIGHT)
 1-R9-3 SIGN (NO PEDS) FACING POLE 3
 1-TYPE D SIGN (D-2) (SEE SIGN DETAILS)
 3" CONDUIT TO HH 5:
 2-12/C 14
 1-4/C 14
 1-3/C 14
 1-3/C 14 LUM
 1-3/C 20
 1-CAT 5E VIDEO DET
 1-1/C 6 INS. GR.

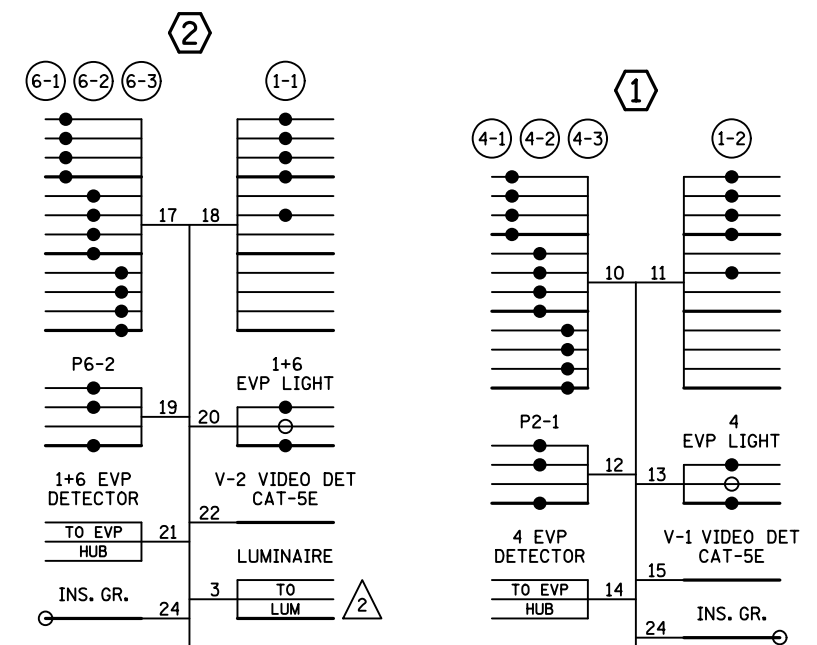
Ⓐ EQUIPMENT PAD (SEE DETAIL SHEET)
 SERVICE CABINET (SSB) NO BATTERY BACKUP SYSTEM OR BATTERIES
 CONTROLLER AND CABINET (STATE FURNISHED)
 3" CONDUIT TO HH 1: 3" CONDUIT TO HH 7:
 2-12/C 14 2-12/C 14
 1-4/C 14 2-4/C 14
 1-3/C 14 1-3/C 14
 1-3/C 20 3-2/C 14
 1-CAT 5E VIDEO DET 1-3/C 20
 1-3/C 20 1-CAT 5E VIDEO DET
 1-1/C 6 INS. GR. 1-1/C 6 INS. GR.

GROUND WIRE AND GROUND ROD - MIN 8' OUT FROM PAD
 2-2" AND 1-3" CONDUIT STUBBED OUT (CAPPED BOTH ENDS)
 1-1/2" CONDUIT TO PULL VAULT:
 1-FIBER OPTIC CABLE PIGTAIL (6-SM FIELD TERMINATED) TO NORTH RAMP
 CONTROLLER CABINET TO SERVICE CABINET:
 2" CONDUIT
 3-1/C 6
 SERVICE CABINET TO SOP VIA HH 8:
 2" CONDUIT
 3-1/C 2
 SERVICE CABINET TO EXTERNAL GR. RD.:
 1" CONDUIT
 1-1/C 6 INS. GR.
 (SEE EQUIPMENT PAD LAYOUT)
 SERVICE CABINET TO HH 1:
 2" CONDUIT
 2-3/C 14 LUM
 HH 1 TO HH 7:
 2" CONDUIT
 1-3/C 14 LUM

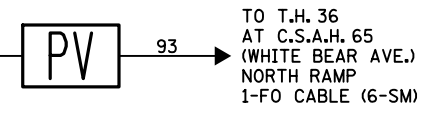
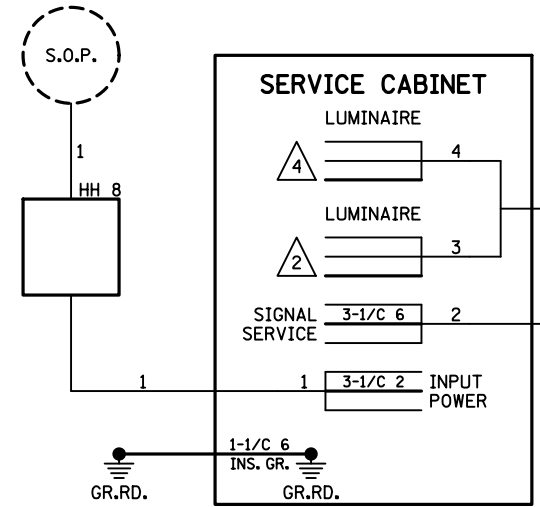
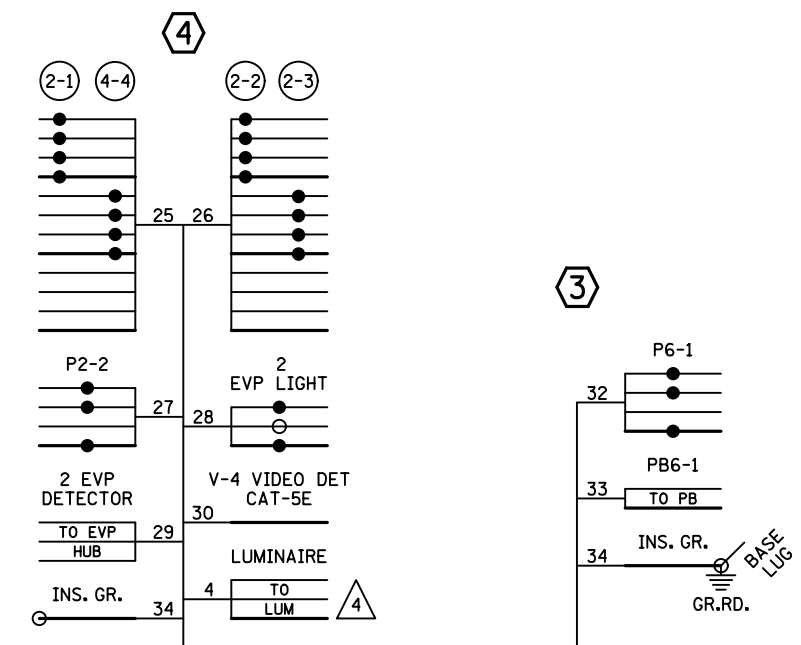
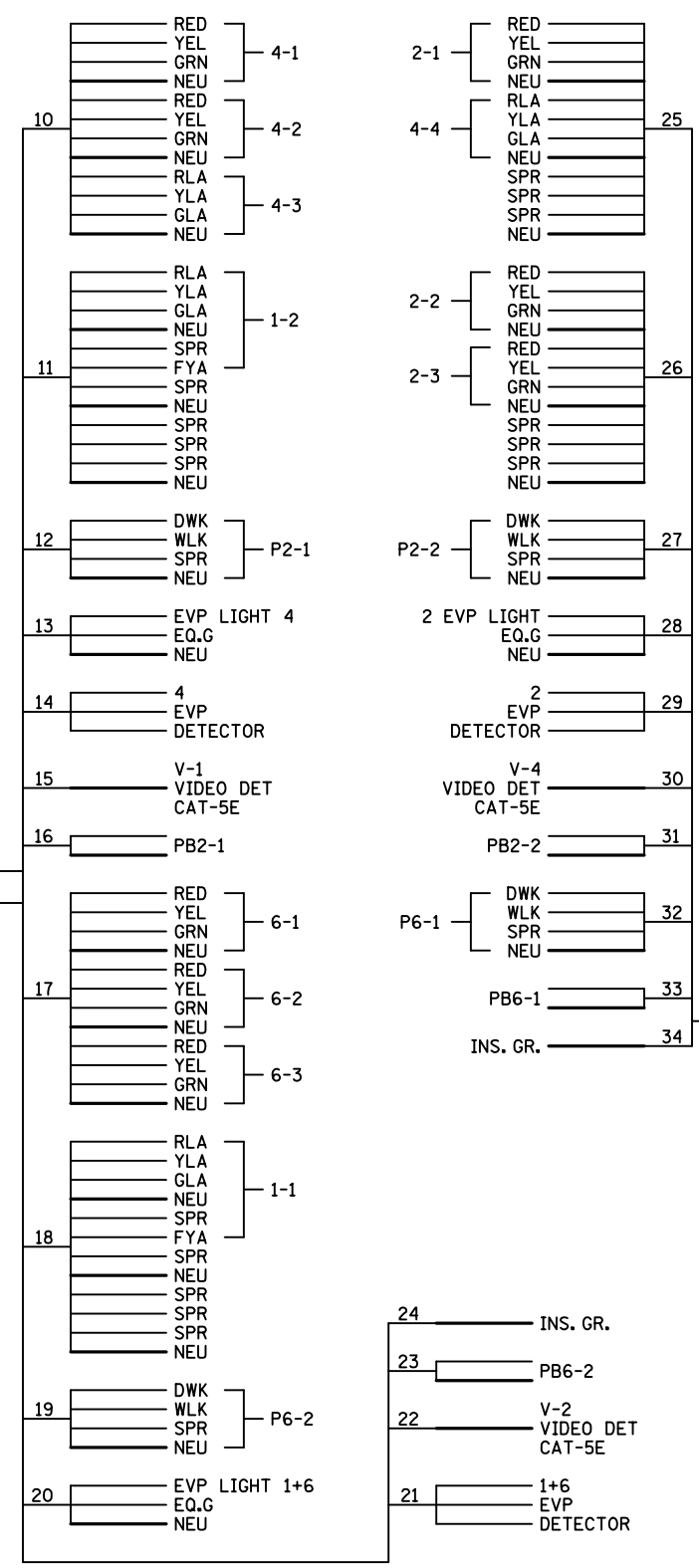
Ⓑ SOP-INPLACE WOOD POLE
 (BY XCEL ENERGY)
 2" CONDUIT RISER, WEATHERHEAD AND CONDUIT TO HH 7:
 3-1/C 2

BY	DATE	REVISIONS	SYSTEM ID: 2422118	T.E. 10049	INTERSECTION NOTES TRAFFIC CONTROL SIGNAL SYSTEM B T.H. 36 AT C.S.A.H. 65 (WHITE BEAR AVE.) S RAMPS IN MAPLEWOOD, RAMSEY COUNTY	S.A.P. NO. 062-665-059	DRAWN BY:GDS	CKD BY:GBB	DATE:07-15-19	
SJK	9/28/22	AS-BUILT PLAN SP 6211-103	METER ADDRESS: 2276 WHITE BEAR AVE	OLD SYSTEM ID: 20636		CERTIFIED BY _____	LIC. NO. 19863	DATE: 07-15-19		
						STATE PROJ.NO. 6211-103 (T.H.36)	SHEET NO. 39R OF 45 SHEETS			

DISTRICT #: Metro
 PLOT NAME: wiring diagram
 PATH & FILENAME: Projects\DM_R05\036\0000\Traffic\Signal\8.58.165\WHITE BEAR AVE SR-24221\8T2421B_sq.dgn
 PLOTTED/REVISED: 28-SEP-2022



CONTROLLER CABINET



NOTES:
 1. SIGNAL SYSTEM INCLUDES BATTERY-BACKUP SERVICE CABINET (NO BATTERIES).

BY	DATE	REVISIONS	SYSTEM ID: 2422118	T.E. 10049	S.A.P. NO. 062-665-059	DRAWN BY:GDS	CKD BY:GDB	DATE:07-15-19
SJK	9/28/22	AS-BUILT PLAN SP 6211-103	METER ADDRESS: 2276 WHITE BEAR AVE		CERTIFIED BY _____	LIC. NO. 19863	DATE: 07-15-19	
			OLD SYSTEM ID: 20636	FIELD WIRING DIAGRAM	STATE PROJ.NO. 6211-103 (T.H.36)			SHEET NO. 40R OF 45 SHEETS
				TRAFFIC CONTROL SIGNAL SYSTEM B				
				T.H. 36 AT C.S.A.H. 65 (WHITE BEAR AVE.) S RAMPS				
				IN MAPLEWOOD, RAMSEY COUNTY				