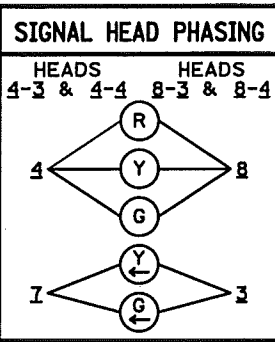


PLOTTED/REVISED: 6-SEP-2018

IPLOT NAME: T20299.sgl
PATH & FILENAME: Projects\DM_R05\013\0000\Traffic\Signals\20299\T20299.sgl.dgn

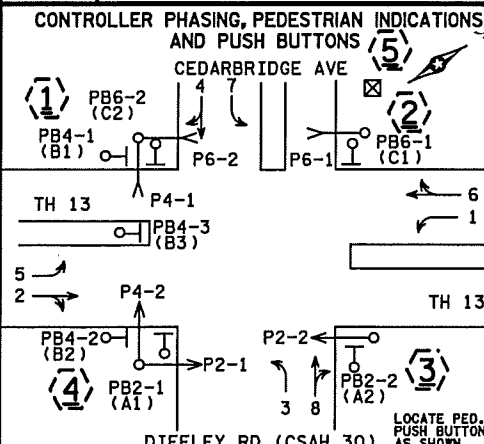
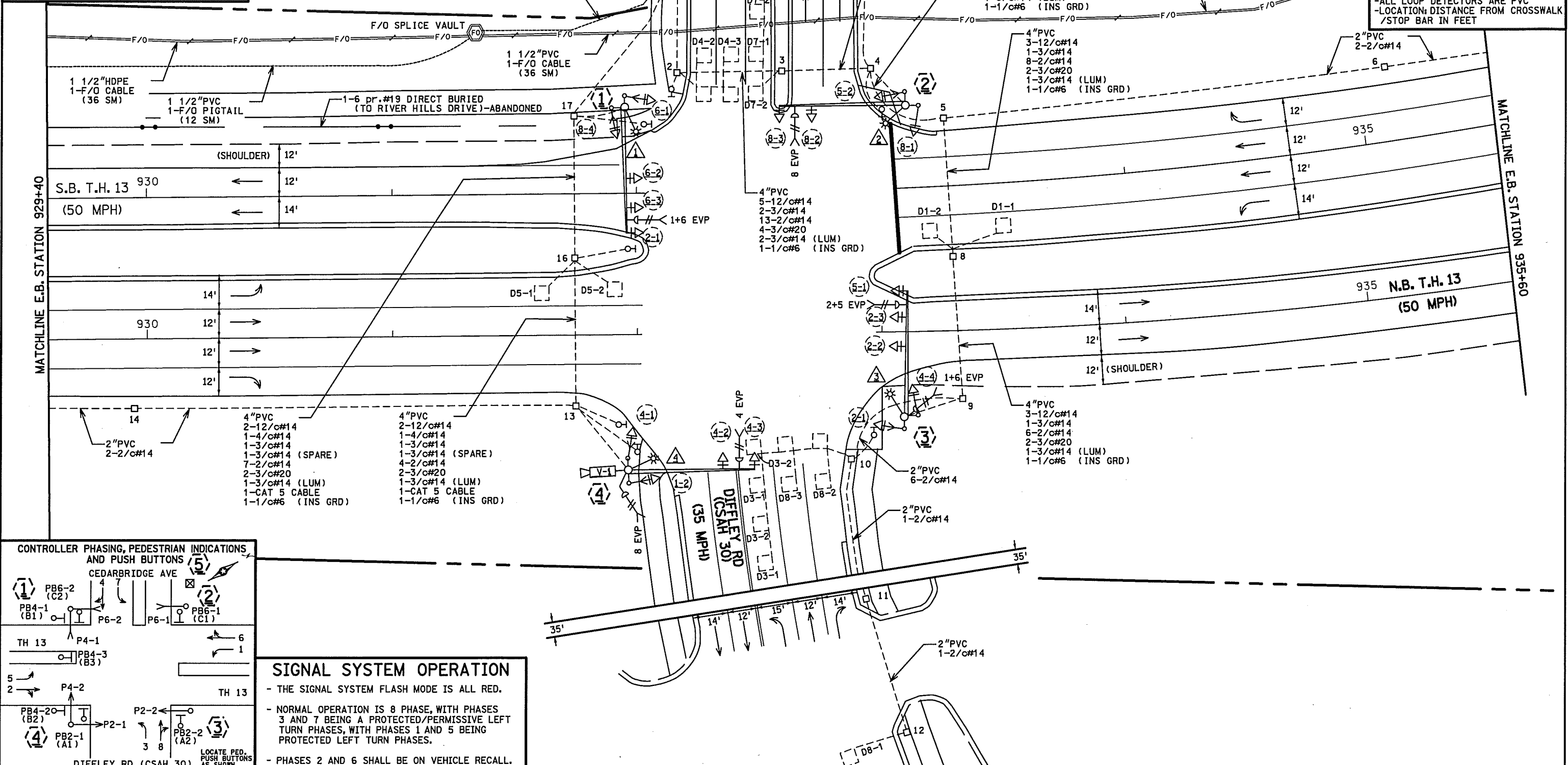
SIGNAL HEAD CHART					
HEAD	R	Y	G	Y	G
1-1, 1-2	←	←	←		
2-1, 2-2, 2-3	○	○	○		
4-1, 4-2	○	○	○		
4-3, 4-4	○	○	○	←	←
5-1, 5-2	←	←	←		
6-1, 6-2, 6-3	○	○	○		
8-1, 8-2	○	○	○		
8-3, 8-4	○	○	○	←	←



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

LOOP DETECTOR CHART		
NUMBER	SIZE (FT)	LOCATION
D1-1, D1-2	6x6	40 & 10
D2-1, D2-2	6x6	400
D3-1, D7-1	2-6x6	20 & 50
D3-2, D7-2	2-6x6	5 & 35
D4-1	6x6	120
D4-2, D4-3	2-6x6	5 & 20
D5-1, D5-2	6x6	40 & 10
D6-1, D6-2	6x6	400
D8-1	6x6	180
D8-2, D8-3	2-6x6	5 & 20

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



SIGNAL SYSTEM OPERATION

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

BY	DATE	REVISIONS	SYSTEM ID: 1735109	T.E.	S.A.P. NO.	DRAWN BY: SEH	CKD BY: JMG	DATE: 04-27-09
GDS	10-29-10	AS BUILT OF SP 1901-152	METER ADDRESS: 10901 SOUTHVIEW DRIVE		CERTIFIED BY: <i>J.M.B.</i>	LIC. NO. 22457	DATE: 04-27-09	
EJA	02-14-14	AS-BUILT OF SP 1901-168 (APS)	MASTER ID: 20299	T.E.	STATE PROJ. NO. (T.H.13)			SHEET NO. 1 OF 5 SHEETS
SJK	09-07-18	AS-BUILT PLAN SP 7001-103						

PLOTTED/REVISED: 2-MAY-2024

DISTRICT #: Metro
PLOT NAME: T20299_sgl
PATH & FILENAME: Projects\DM_POS\013\0000\Traffic\Signal\100.23_130\DIFFLEY_CEDARBRIDGE-1735109\T20299_sgl.dgn

① PA100 POLE FOUNDATION
 TYPE PA100-A-50-D40-9 (DAVIT AT 350 DEG)
 2-SWING AWAY HINGES
 LUMINAIRE-250 W HPS
 1-ANGLE MOUNT SIGNAL-OVERHEAD AT 0'
 2-STRAIGHT MOUNT SIGNALS-OVERHEAD AT 11' AND 23'
 2-ANGLE MOUNT SIGNALS-POLE MOUNTED 90 DEG & 180 DEG
 2-ANGLE MOUNT C.D. PED HEADS AT 90 DEG & 180 DEG
 2-R6-1 SIGN PANELS-POLE MOUNTED 0 DEG & 180 DEG
 1-TYPE D SIGN-OVERHEAD (D-1)
 1-ONE WAY EVP DETECTOR & CONFIRMATORY LIGHT-OVERHEAD (PHASES 1+6)
 3" PVC TO HH 17:
 3-12/C #14
 1-3/C #14
 1-3/C #20
 1-3/C #14 (LUM)
 1-1/C #6 INS. GR.

② PA100 POLE FOUNDATION
 TYPE PA100-A-50-D40-9 (DAVIT AT 270 DEG)
 LUMINAIRE-250 W HPS
 1-ANGLE MOUNT SIGNAL-OVERHEAD AT 0'
 1-STRAIGHT MOUNT SIGNAL-OVERHEAD AT 11'
 2-ANGLE MOUNT SIGNALS-POLE MOUNTED 90 DEG & 180 DEG
 1-ANGLE MOUNT C.D. PED HEAD AT 90 DEG
 1-R9-3 SIGN-FACING POLE 3
 2-R6-1 SIGN PANELS-POLE MOUNTED 0 DEG & 180 DEG
 R10-12 SIGN PANEL-ADJACENT TO 8-3
 1-TYPE D SIGN-OVERHEAD (D-2)
 1-ONE WAY EVP DETECTOR & CONFIRMATORY LIGHT-OVERHEAD (PHASE 8)
 3" PVC TO HH 4:
 2-12/C #14
 1-3/C #14
 1-3/C #20
 1-3/C #14 (LUM)

③ PA100 POLE FOUNDATION
 TYPE PA100-A-50-D40-9 (DAVIT AT 350 DEG)
 2-SWING AWAY HINGES
 LUMINAIRE-250 W HPS
 1-ANGLE MOUNT SIGNAL-OVERHEAD AT 0'
 2-STRAIGHT MOUNT SIGNALS-OVERHEAD AT 11' AND 23'
 2-ANGLE MOUNT SIGNALS-POLE MOUNTED 90 DEG & 180 DEG
 1-ANGLE MOUNT C.D. PED HEAD AT 180 DEG
 1-R9-3 SIGN -FACING POLE 2
 2-R6-1 SIGN PANELS-POLE MOUNTED 0 DEG & 180 DEG
 1-TYPE D SIGN-OVERHEAD (D-3)
 1-ONE WAY EVP DETECTOR & CONFIRMATORY LIGHT-OVERHEAD (PHASES 2+5)
 1-ONE WAY EVP DETECTOR-POLE MOUNTED AT 90 DEG (PHASES 1+6)
 3" PVC TO HH 9:
 3-12/C #14
 1-3/C #14
 2-3/C #20
 1-3/C #14 (LUM)
 1-1/C #6 INS. GR.

④ PA100 POLE FOUNDATION
 TYPE PA100-A-50-X6-350/CAM 400 (AT 270 DEG)
 LUMINAIRE-250 W HPS
 1-ANGLE MOUNT SIGNAL-OVERHEAD AT 0'
 1-STRAIGHT MOUNT SIGNAL-OVERHEAD AT 11'
 2-ANGLE MOUNT SIGNALS-POLE MOUNTED 90 DEG & 270 DEG
 2-ANGLE MOUNT C.D. PED HEADS AT 90 DEG & 270 DEG
 R10-12 SIGN PANEL-ADJACENT TO 4-3
 1-TYPE D SIGN-OVERHEAD (D-4)
 1-ONE WAY EVP DETECTOR & CONFIRMATORY LIGHT-OVERHEAD (PHASE 4)
 1-ONE WAY EVP DETECTOR-POLE MOUNTED AT 90 DEG (PHASE 8)
 1-VIDEO CAMERA (#1306)
 1-5/8" x 15' GROUND ROD
 1" PVC STUB OUT (FOR CAMERA GROUND WIRES)
 1-1/2" #6 INS. GR.
 1-7/16" BRAIDED GRD. WIRE
 3" PVC TO HH 13:
 2-12/C #14
 1-4/C #14
 1-3/C #14
 1-3/C #14 (SPARE)
 2-3/C #20
 1-3/C #14 (LUM)
 1-CAT 5 CABLE
 1-1/C #6 INS. GR.

⑤ PEDESTAL FOUNDATION
 9' SIGNAL PEDESTAL POLE AND BASE
 1-TWO WAY EVP DETECTOR-MOUNT ON TOP OF POLE (PHASE 4)
 2" PVC TO HH 19:
 1-3/C #20
 1-1/C #6 INS. GR.

APS PEDESTRIAN PUSH BUTTON STATION (PB2-2)
 1-APS PUSH BUTTON & SIGN (RT ARROW)
 EXTEND INTO HH 10:
 1 1/4" PVC
 1-2/C #14

APS PEDESTRIAN PUSH BUTTON STATION (PB4-3)
 1-APS PUSH BUTTON & SIGN (DBL ARROW)
 EXTEND INTO HH 16:
 1 1/4" PVC
 1-2/C #14

APS PEDESTRIAN PUSH BUTTON STATION (PB4-2)
 1-APS PUSH BUTTON & SIGN (RT ARROW)
 EXTEND INTO HH 13:
 1 1/4" PVC
 1-2/C #14

APS PEDESTRIAN PUSH BUTTON STATION (PB2-1)
 1-APS PUSH BUTTON & SIGN (LT ARROW)
 EXTEND INTO HH 13:
 1 1/4" PVC
 1-2/C #14


APS PEDESTRIAN PUSH BUTTON STATION (PB6-2)
 1-APS PUSH BUTTON & SIGN (RT ARROW)
 EXTEND INTO HH 2:
 1 1/4" PVC
 1-2/C #14

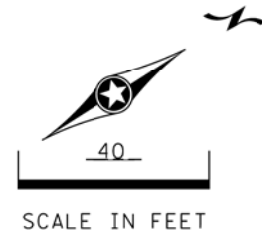
APS PEDESTRIAN PUSH BUTTON STATION (PB4-1)
 1-APS PUSH BUTTON & SIGN (LT ARROW)
 EXTEND INTO HH 17:
 1 1/4" PVC
 1-2/C #14

APS PEDESTRIAN PUSH BUTTON STATION (PB6-1)
 1-APS PUSH BUTTON & SIGN (LT ARROW)
 EXTEND INTO HH 4:
 1 1/4" PVC
 1-2/C #14

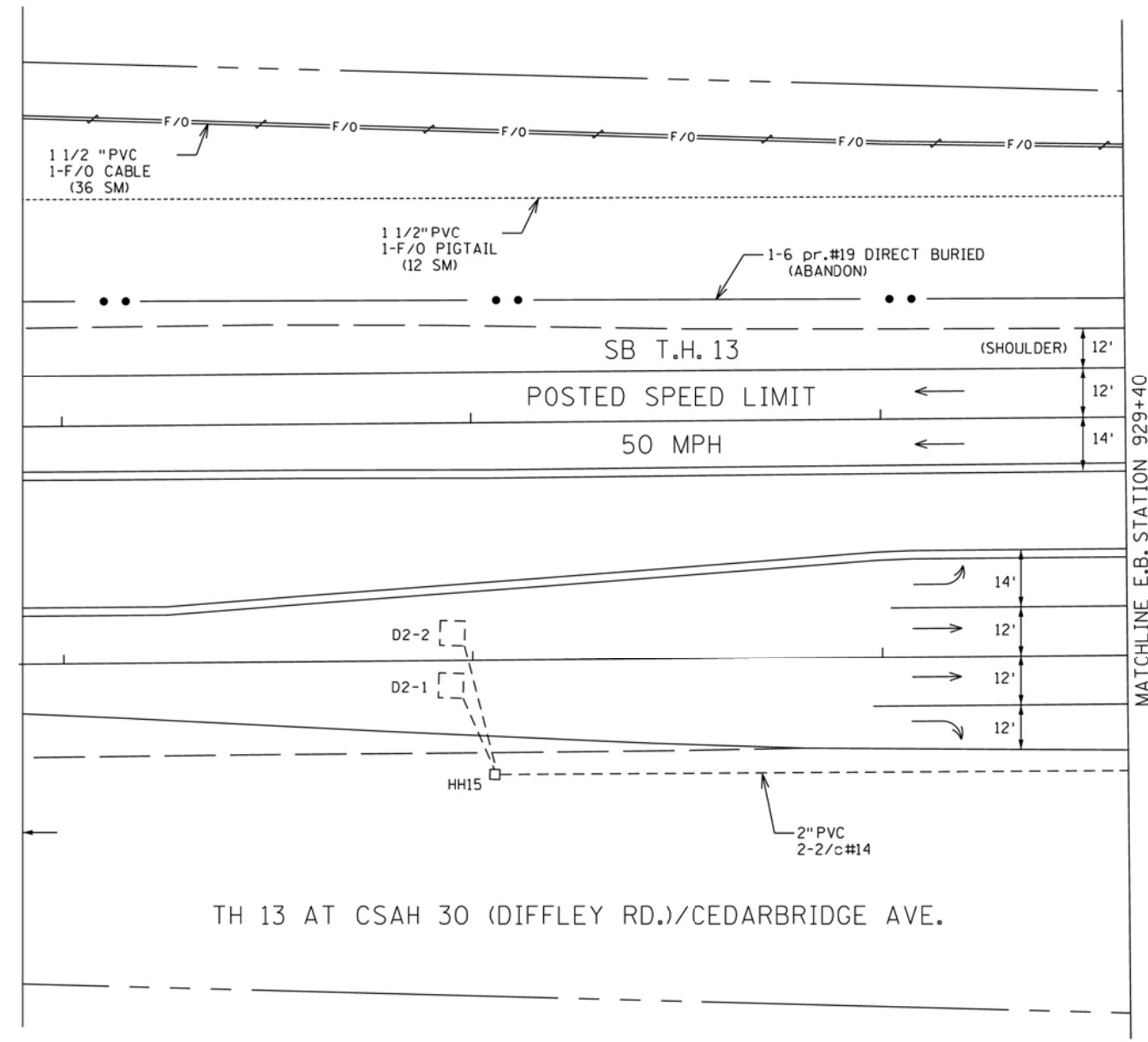
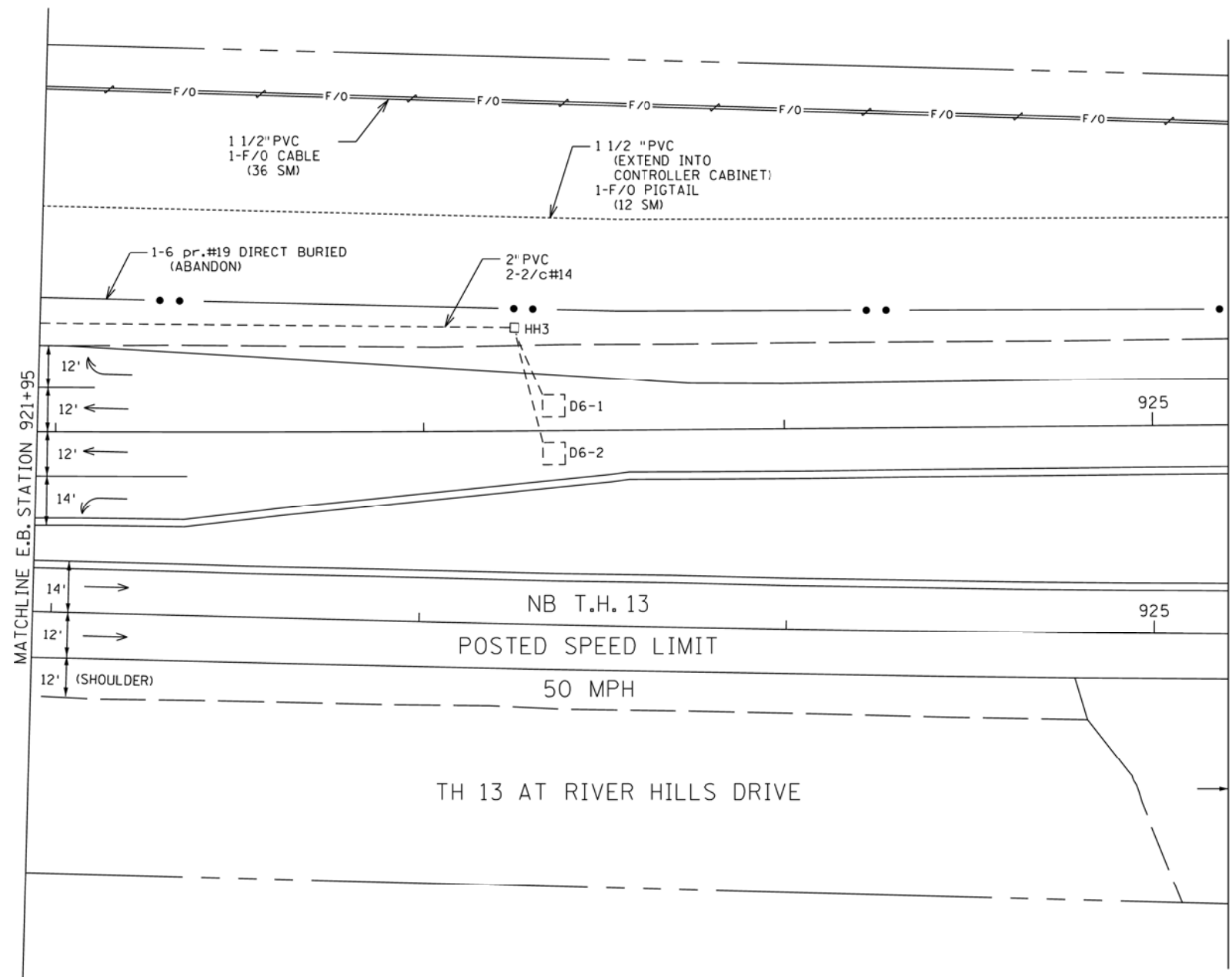
①(A) EQUIPMENT PAD - SEE DETAILS
 SERVICE CABINET
 CONTROLLER AND CABINET
 CONTROLLER CABINET TO HH 1: CONTROLLER CABINET TO HH 17:
 2" PVC 4" PVC
 1-2/C #14 5-12/C #14
 CONTROLLER CABINET TO HH 2: 1-4/C #14
 4" PVC 2-3/C #14
 5-12/C #14 8-2/C #14
 2-3/C #14 3-3/C #20
 16-2/C #14 1-CAT 5 CABLE
 4-3/C #20 1-1/C #6 INS. GR.
 1-1/C #6 INS. GR.
 STUB OUT 3" PVC FROM CONTROLLER CABINET TO EAST (CAP BOTH ENDS)
 STUB OUT 3/4" PVC TO SOUTH (CAP BOTH ENDS- FOR TELEPHONE LINE)
 CONTROLLER CABINET TO SERVICE CABINET:
 2" PVC
 2-1/C #6
 1-1/C #6 INS. GR.
 2" PVC (SPARE-FOR FUTURE MONITORING CABLE)
 SERVICE CABINET TO HH 18:
 2" PVC
 3-1/C #2
 SERVICE CABINET TO HH 2:
 2" PVC
 2-3/C #14 (LUM)
 SERVICE CABINET TO HH 17:
 2" PVC
 2-3/C #14 (LUM)
 1-3/C #14 (SPARE)
 1 1/2" PVC FROM CONTROLLER CABINET
 1-12 SM FO PIGTAIL

①(B) SOP-WOOD POLE (BY XCEL ENERGY)
 2" PVC RISER, WEATHERHEAD AND PVC TO HH 18:
 3-1/C #2

BY	DATE	REVISIONS	SYSTEM ID: 1735109	T.E.	S.A.P. NO.	DRAWN BY:SEH	CKD BY:JMG	DATE:04-27-09
GDS	10-29-10	AS BUILT	METER ADDRESS: 10901 SOUTHVIEW DRIVE		TH 13 AT CSAH 30 (DIFFLEY RD)/CEDARBRIDGE AVE IN BURNSVILLE, DAKOTA COUNTY STATE PROJ.NO. (T.H.13) SHEET NO. 2 OF 5 SHEETS			
EJA	02-14-14	AS-BUILT OF SP 1901-168 (APS)	MASTER ID: 20299	T.E.				
SJK	09-07-18	AS-BUILT PLAN SP 7001-103						
SJK	5/2/24	REMOVED BATTERY BACKUP			CERTIFIED BY  LIC. NO. 22457 DATE: 04-27-09 LICENSED PROFESSIONAL ENGINEER			



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



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

BY	DATE	REVISIONS
GOS	10-29-10	AS_BUILT
EJA	02-14-14	AS-BUILT_QE_SP_1901-168 (APS)

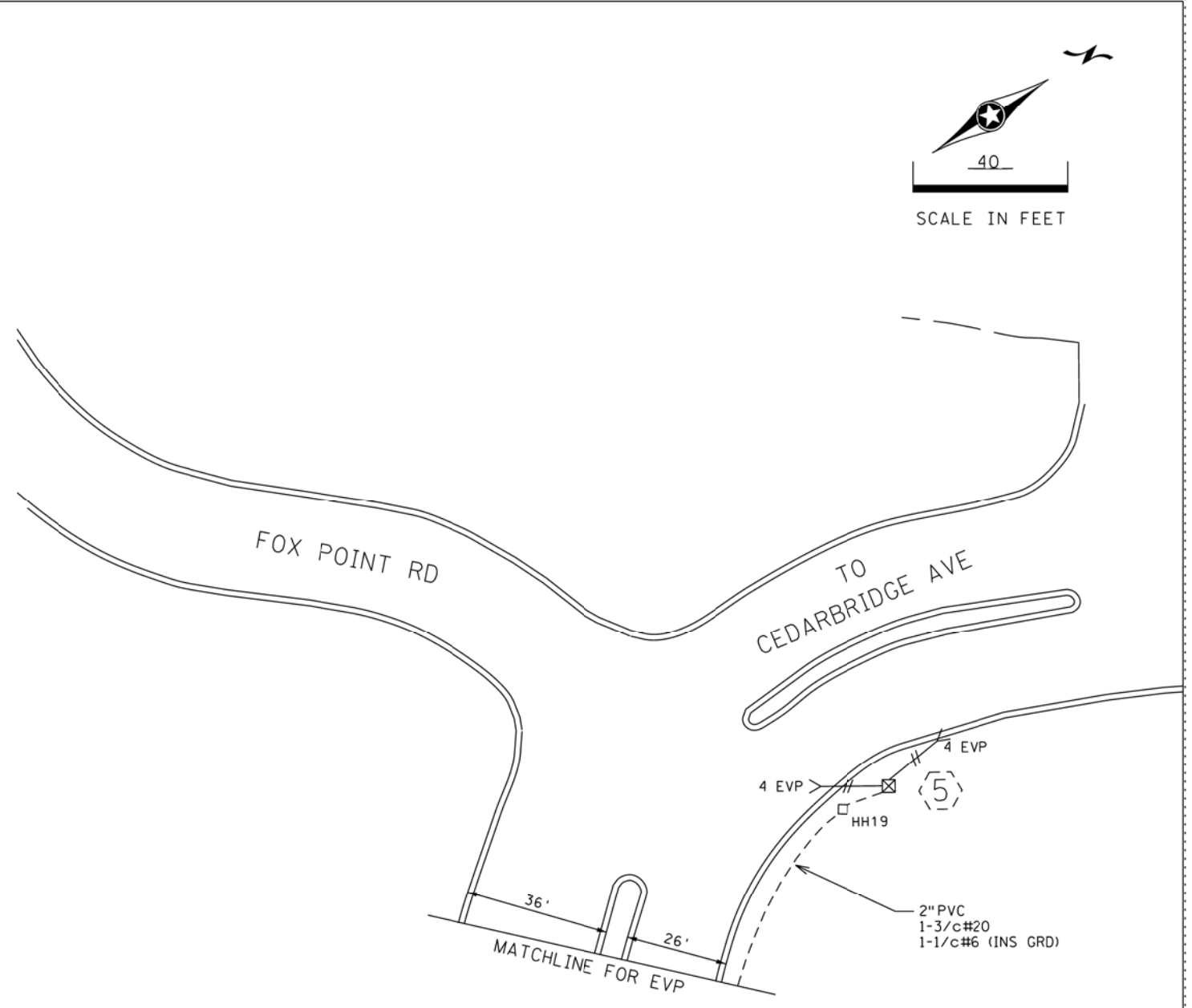
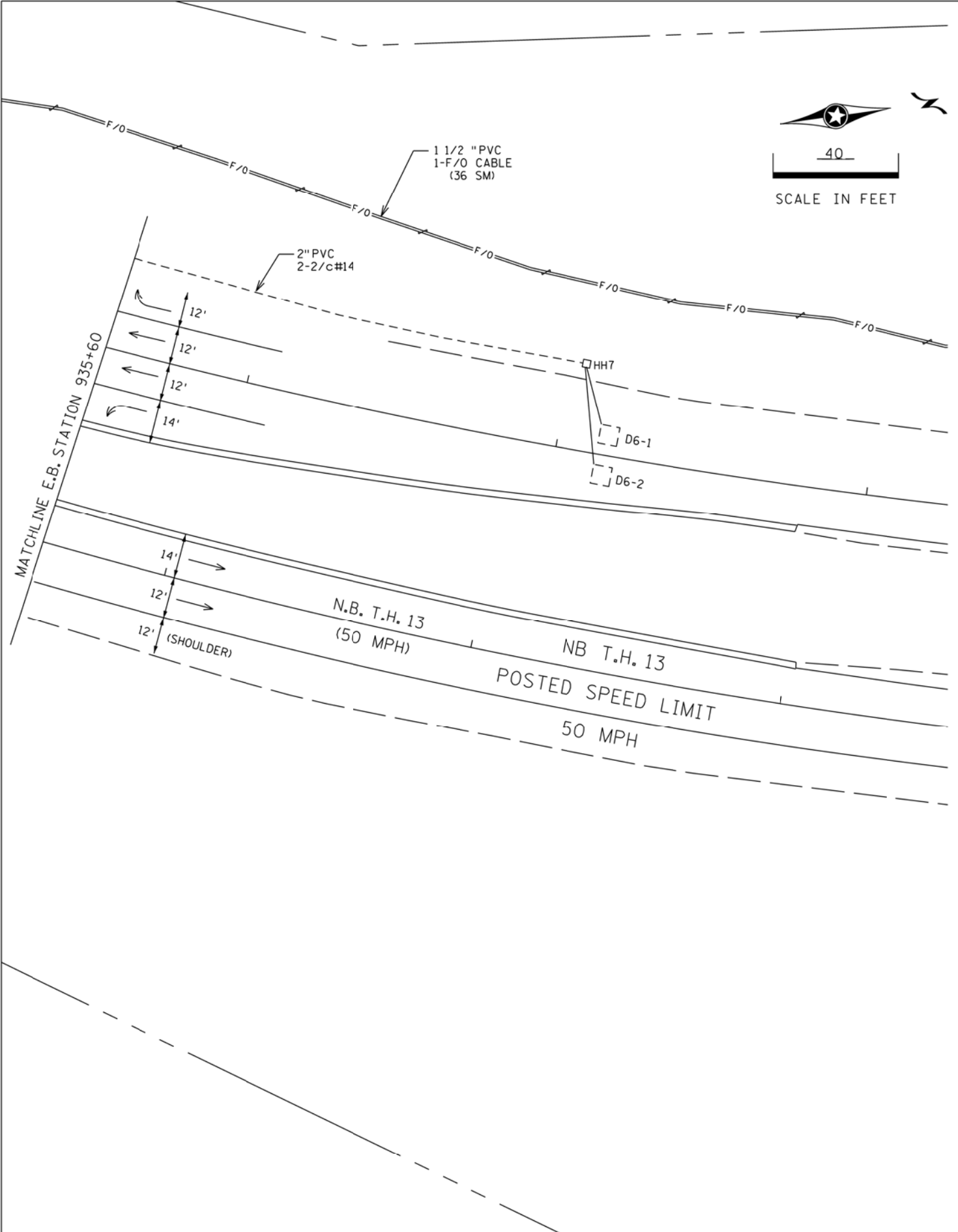
SYSTEM ID: 20298, 20299 T.E. 4848.4849
 METER ADDRESS: 10901 SQUIHVIEW DRIVE
 MASTER ID: **ID 1735109** T.E. _____

MATCH LINES (1 OF 2)
 T.H. 13 AT RIVER HILLS DR. / DIFFLEY RD.
 IN BURNSVILLE, DAKOTA COUNTY

S.A.P. NO. _____ DRAWN BY: SEH CKD BY: JMG DATE: 04-27-09
 CERTIFIED BY: *J.M. [Signature]* LIC. NO. 22457 DATE: 04-27-09
 STATE PROJ. NO. _____ (T.H. 13) SHEET NO. 3 OF 5 SHEETS

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

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



BY	DATE	REVISIONS
GDS	10-29-10	AS_BUILT
EJA	02-14-14	AS-BUILT_QE_SP_1901-168_(APS)

SYSTEM ID: 20299 **ID 1735109** T.E.
 METER ADDRESS: 10901 SOUTHVIEW DRIVE ... TH 13 AT CSAH 30 (DIFFLEY RD)/CEDARBRIDGE AVE
 MASTER ID: N/A T.E.

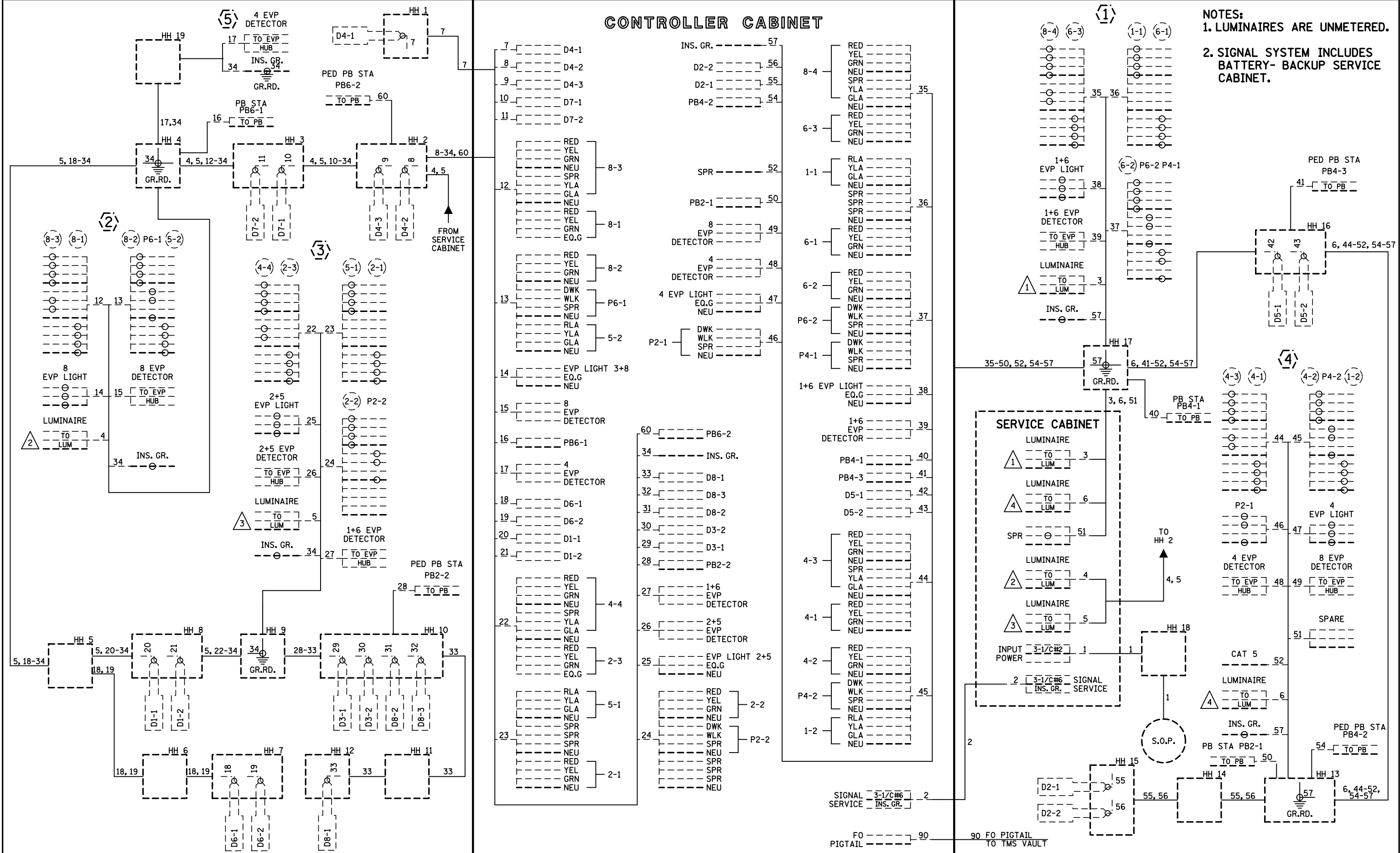
MATCH LINES
 IN BURNSVILLE, DAKOTA COUNTY

S.A.P. NO. _____ DRAWN BY: SEH CKD BY: JMG DATE: 04-27-09
 CERTIFIED BY: *[Signature]* LIC. NO. 22457 DATE: 04-27-09
 STATE PROJ. NO. _____ (T.H. 13) SHEET NO. 4 OF 5 SHEETS

PLOTTED/REVISED: 2-MAY-2024

DISTRICT #: Metro
I-Plot Name: T20299-sgl
PATH & FILENAME: Projects\DM_POS\013\0000\Traffic\Signals\00.23_130\DIFFLEY_CEDARBRIDGE-1735109\T20299-sgl.dgn

CONTROLLER CABINET



NOTES:
 1. LUMINAIRES ARE UNMETERED.
 2. SIGNAL SYSTEM INCLUDES BATTERY- BACKUP SERVICE CABINET.

BY	DATE	REVISIONS
GDS	10-29-10	AS BUILT
EJA	02-14-14	AS-BUILT OF SP 1901-168 (APS)
SJK	09-07-18	AS-BUILT PLAN SP 7001-103
SJK	5/2/24	REMOVED BATTERY BACKUP

SYSTEM ID: 1735109 T.E.
 METER ADDRESS: 10901 SOUTHVIEW DRIVE
 MASTER ID: 20299 T.E.

FIELD WIRING DIAGRAM
TH 13 AT CSAH 30 (DIFFLEY RD)/CEDARBRIDGE AVE
IN BURNSVILLE, DAKOTA COUNTY

S.A.P. NO.	DRAWN BY: SEH	CKD BY: JMG	DATE: 04-27-09
CERTIFIED BY: <i>J.M.B.</i>	LIC. NO. 22457	DATE: 04-27-09	
STATE PROJ.NO.	(T.H.13)	SHEET NO. 5 OF 5 SHEETS	