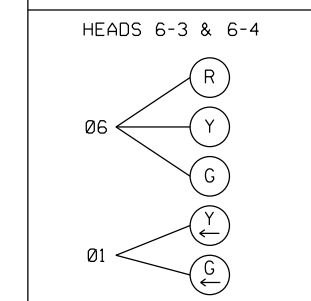


LOOP DETECTORS

NUMBER	SIZE (FEET)	LOCATION
D1-1	2-6X6	5 & 20
D1-2	2-6X6	35 & 50
D2-1	6X6	115
D2-2	6X6	115
D4-1	6X6	110
D4-2	2-6X6	5 & 20
D4-3	2-6X6	5 & 20
D6-1	6X6	140
D6-2	6X6	140

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

SIGNAL HEAD PHASING



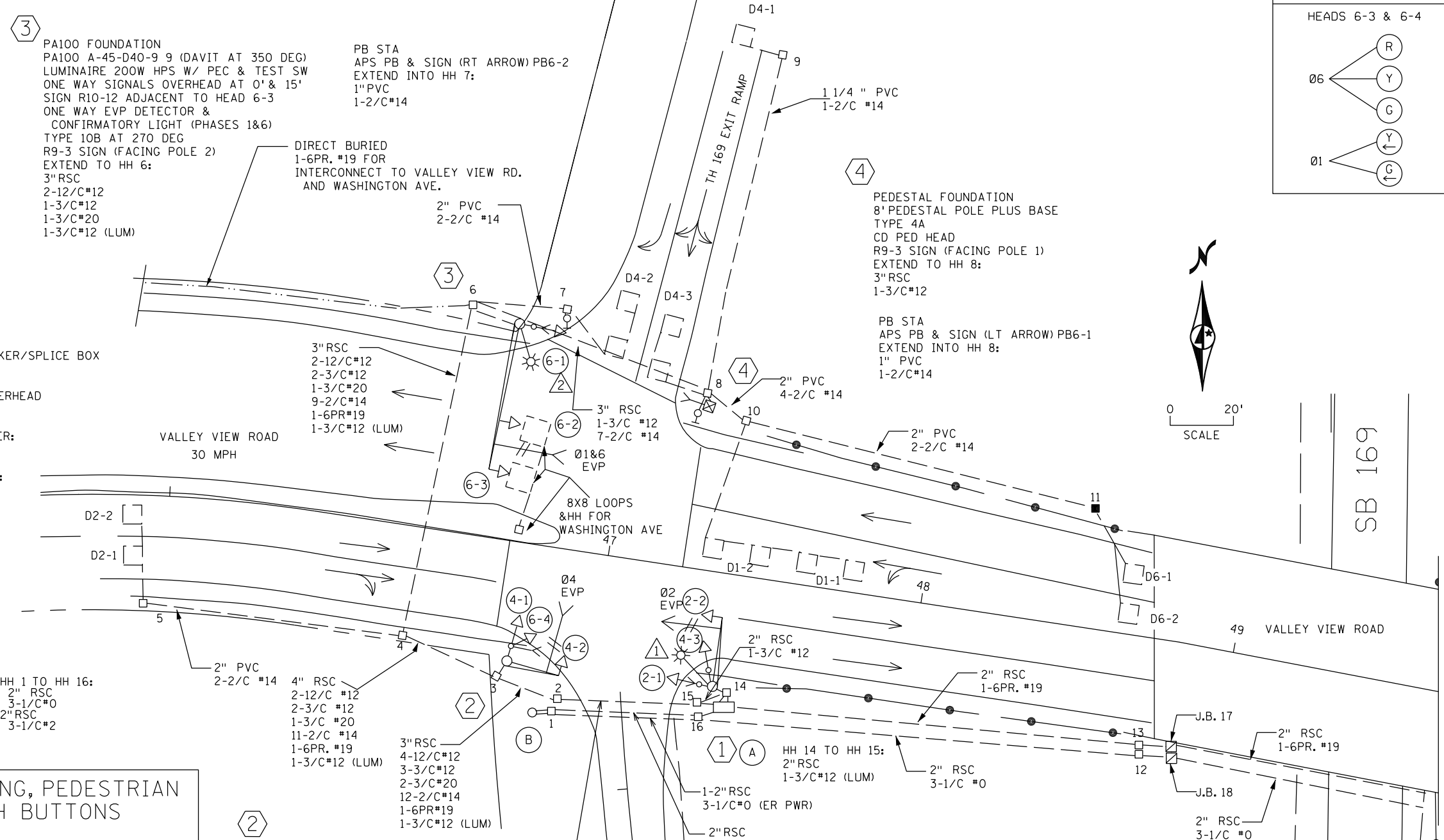
SIGNAL HEAD CHART

FACE	R	Y	G	Y	G
2-1, 2-2	○	○	○		
4-1, 4-2, 4-3	○	○	○		
6-1, 6-2	○	○	○		
6-3, 6-4	○	○	○	←	←

-ALL SIGNAL INDICATIONS ARE 12" LED

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

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



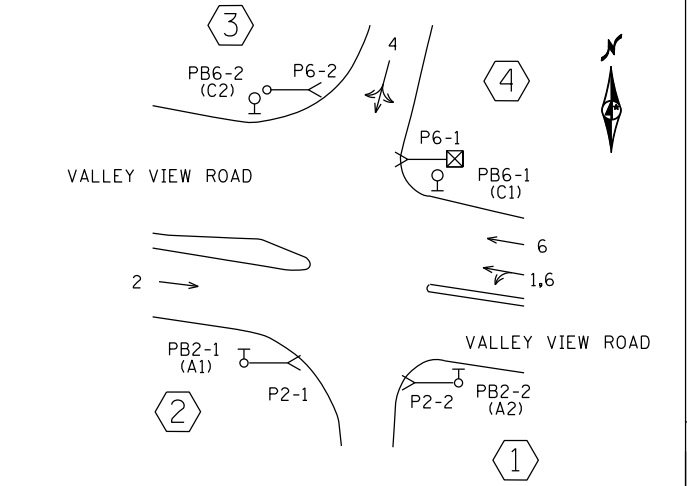
(B) SOP-XCEL ENERGY
25' WOOD POLE
METER SOCKET
1-ENCLOSED CIRCUIT BREAKER/SPLICE BOX W/125A/2P DISCONNECT
ABOVE METER:
2" RSC RISER AND WEATHERHEAD
CIRCUIT BREAKER:
3-1/C#0
METER TO CIRCUIT BREAKER:
2" RSC
3-1/C#0
CIRCUIT BREAKER TO HH 1:
2" RSC
3-1/C#0
2" RSC
3-1/C#2

HH 1 TO HH 16:
2" RSC
3-1/C#0
2" RSC
3-1/C#2

(2) PA85 FOUNDATION
PA85-A-15
ONE WAY SIGNAL OVERHEAD AT 0'
ONE WAY EVP DETECTOR & CONFIRMATORY LIGHT (PHASE 4)
TYPE 20B AT 270 DEG
APS PB & SIGN (LT ARROW) PB2-1
R9-3 SIGN (FACING POLE 3)
EXTEND TO HH 3:
3" RSC
2-12/C#12
1-3/C#12
1-3/C#20
1-2/C#14

(1) PA85 FOUNDATION
PA85-A-20-D40-9 (DAVIT AT 350 DEG)
LUMINAIRE 200WHPS W/PEC & TEST SW
ONE WAY SIGNAL OVERHEAD AT 0'
ONE WAY EVP DETECTOR & CONFIRMATORY LIGHT (PHASE 2)
TYPE 10B AT 270 DEG
CD PED HEAD AT 270 DEG
TYPE 10A AT 0 DEG
APS PB & SIGN (RT ARROW) PB2-2
R9-3 SIGN (FACING POLE 4)
EXTEND TO HH 14:
3" RSC
2-12/C#12
1-3/C#12
1-3/C#20
1-2/C#14
1-3/C#12 (LUM)

CONTROLLER PHASING, PEDESTRIAN HEADS & PUSH BUTTONS



SIGNAL SYSTEM OPERATION
- THE SIGNAL SYSTEM FLASH MODE IS ALL RED.
- NORMAL OPERATION IS 4 PHASE, WITH PHASE 1 BEING A PROTECTED/PERMISSIVE LEFT TURN PHASE.

(A) EQUIPMENT PAD, LOAD CENTER CONTROLLER, MASTER CONTROLLER AND CABINET

LOAD CENTER TO CABINET:
2" RSC
2-1/C#6
1-1/C#6 INS. GR.

LOAD CENTER TO HH 16:
2" RSC
3-1/C#2

LOAD CENTER TO HH 14:
2" RSC
2-3/C#12 (LUM)

CABINET TO HH 13:
2" RSC
1-6PR#19

CABINET TO HH 14:
4" RSC
2-12/C#12
1-3/C#12
1-3/C#20
1-2/C#14

CABINET TO HH 15:
4" RSC
4-12/C#12
3-3/C#12
2-3/C#20
12-2/C#14
1-6PR#19

2-3" RSC STUBOUTS (THREADED AND CAPPED ON BOTH ENDS)

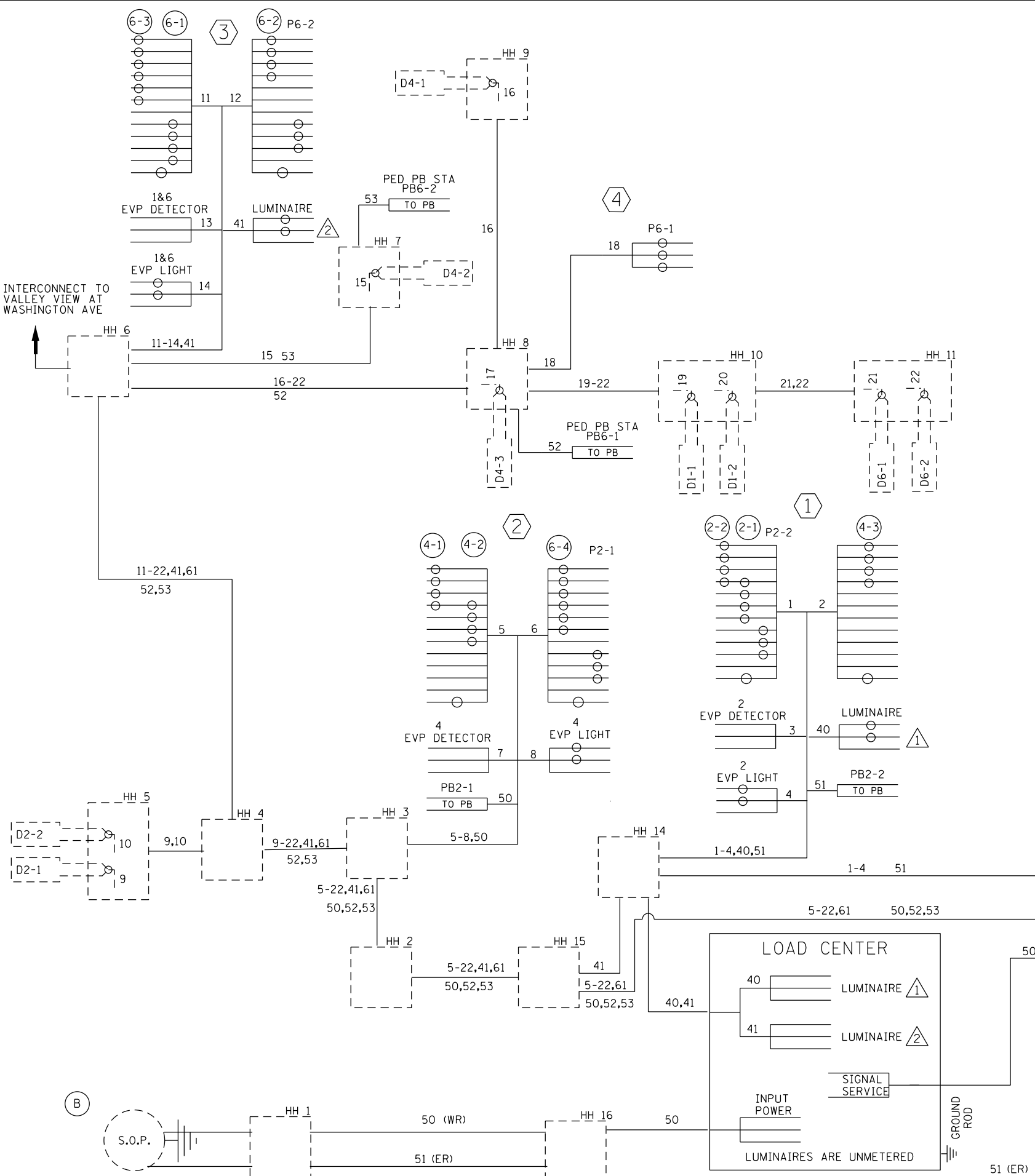
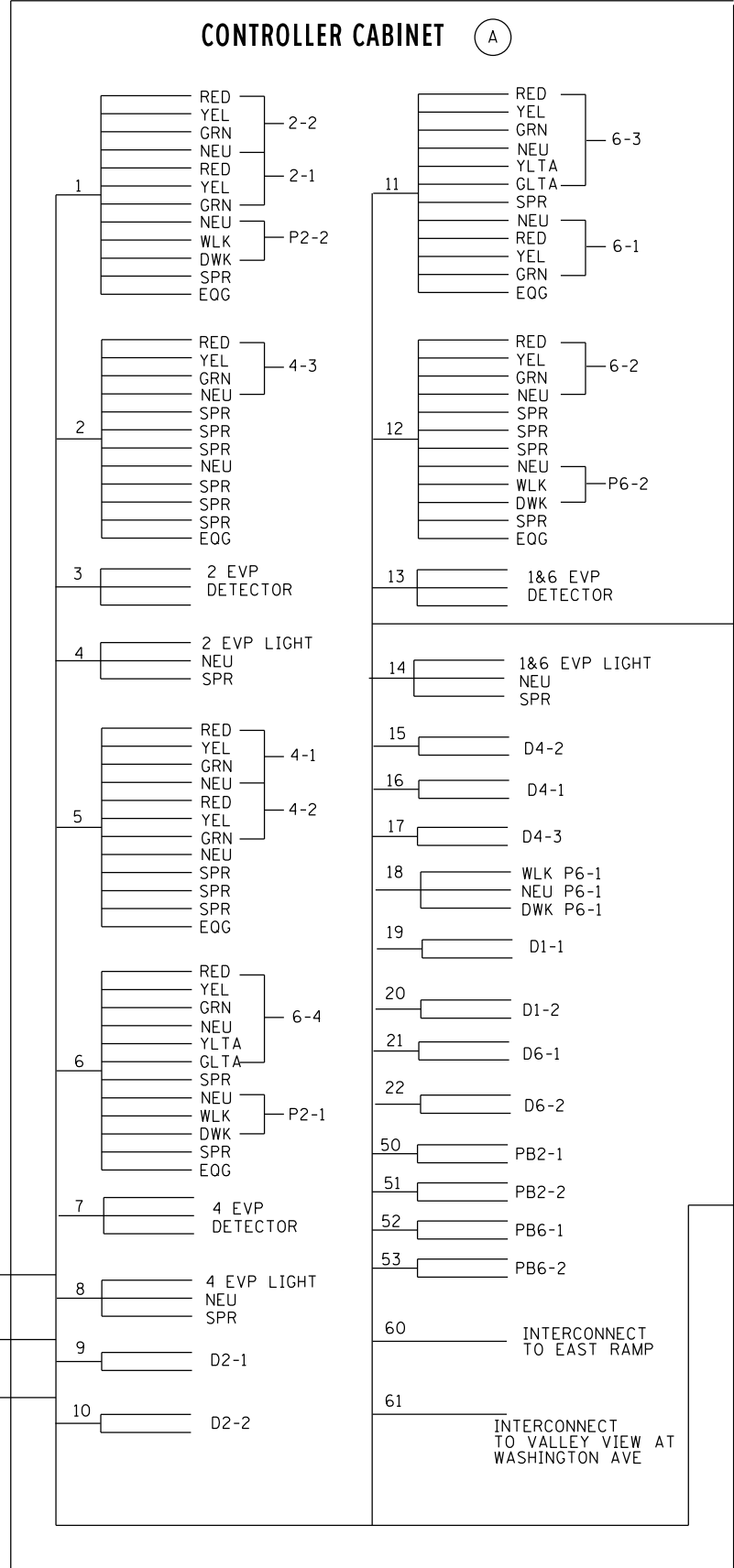
BY	DATE	REVISIONS	SYSTEM ID: 21934	T.E.	S.A.P. NO.	DRAWN BY: SJK	CKD BY: GAK	DATE: 01-08-14
EJA	01-13-16	AS-BUILT OF SP 8825-507 APS & CD PEDS ADDED	METER ADDRESS: 7203 WASHINGTON AVE		CERTIFIED BY: _____	LIC. NO. _____	DATE: _____	
			MASTER ID: 21948	T.E.	STATE PROJ. NO. _____	(T.H.169)	SHEET NO. 1 OF 2 SHEETS	

INTERSECTION LAYOUT
TH 169 AT VALLEY VIEW RD (WEST RAMP)
EDINA, HENNEPIN COUNTY

CONDUCTOR COLOR CODING

R	R
0	BL
BL	WH
WH	5/C#12
R/BLK	WH
O/BLK	G
BL/BLK	R
WH/BLK	WH
BLK	3/C#12
BLK/WH	R OR 0
G/BLK	WH OR YEL
G	3/C#20
	BLK OR BL
	BLK
	BLK CLEAR
	2/C#14

NOTE: ALL TERMINAL BLOCK CONNECTIONS SHALL BE ARRANGED AS SPECIFIED ABOVE



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

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

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			MASTER ID: 21948	T.E.	STATE PROJ. NO.	(T.H.169)	SHEET NO.	2 OF 2 SHEETS

FIELD WIRING DIAGRAM
 TH 169 AT VALLEY VIEW RD (WEST RAMP)
 EDINA, HENNEPIN COUNTY