

PLOTTED/REVISED: 28-NOV-2018

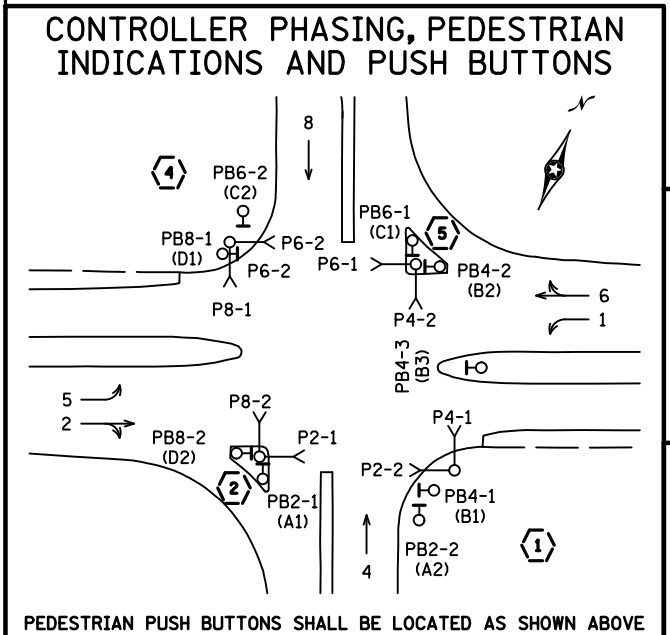
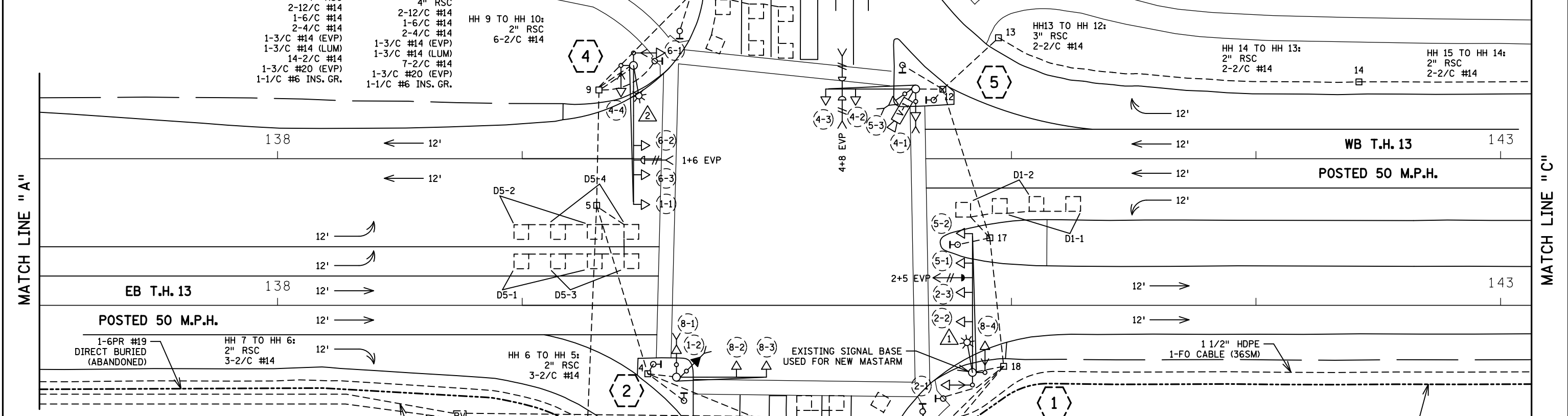
DISTRICT #: Metro
PLOT NAME: Layout 1
PATH & FILENAME: Projects\DM罗斯\03000000\Traffic\Signals\20294\735\04R.dgn

LOOP DETECTOR CHART			
NUMBER	SIZE (FT)	LOCATION	TYPE
D1-1, D5-1, D5-2	2-6x6	25 & 55	PVC
D1-2, D5-3, D5-4	2-6x6	10 & 40	PVC
D2-1, D2-2	6x6	475	PVC
D4-1, D4-2	6x6	180	SAW
D4-3, D4-4, D4-5	2-6x6	0 & 15	PVC
D6-1, D6-2	6x6	475	PVC
D8-1, D8-2	2-6x6	150	SAW
D8-3, D8-4, D8-5	2-6x6	0 & 15	PVC
D-1	6x6	468	PVC

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

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, 8-4	●	●		●	
5-1, 5-2, 5-3	←	←	←	←	
6-1, 6-2, 6-3	●	●		●	
8-1, 8-2, 8-3	○	○		○	

-ALL SIGNAL INDICATIONS ARE 12" LED
-ALL SIGNAL HEADS ARE BLACK POLYCARBONITE WITH BACKGROUND SHIELDS
-FYA DENOTES FLASHING YELLOW ARROW



SIGNAL SYSTEM OPERATION

- THE SIGNAL SYSTEM FLASH MODE IS ALL RED.
- NORMAL OPERATION IS 6 PHASE, WITH PHASES 1 AND 5 BEING FLASHING YELLOW ARROWS BY TIME OF DAY.
- PHASES 2 AND 6 SHALL BE ON VEHICLE RECALL.

BY	DATE	REVISIONS
GDS	04-03-14	AS BUILT OF SP 1901-168 APS
J3T	11-28-18	AS-BUILT FOR SP 1901-177 CAMERA COMMUNICATION CABLE

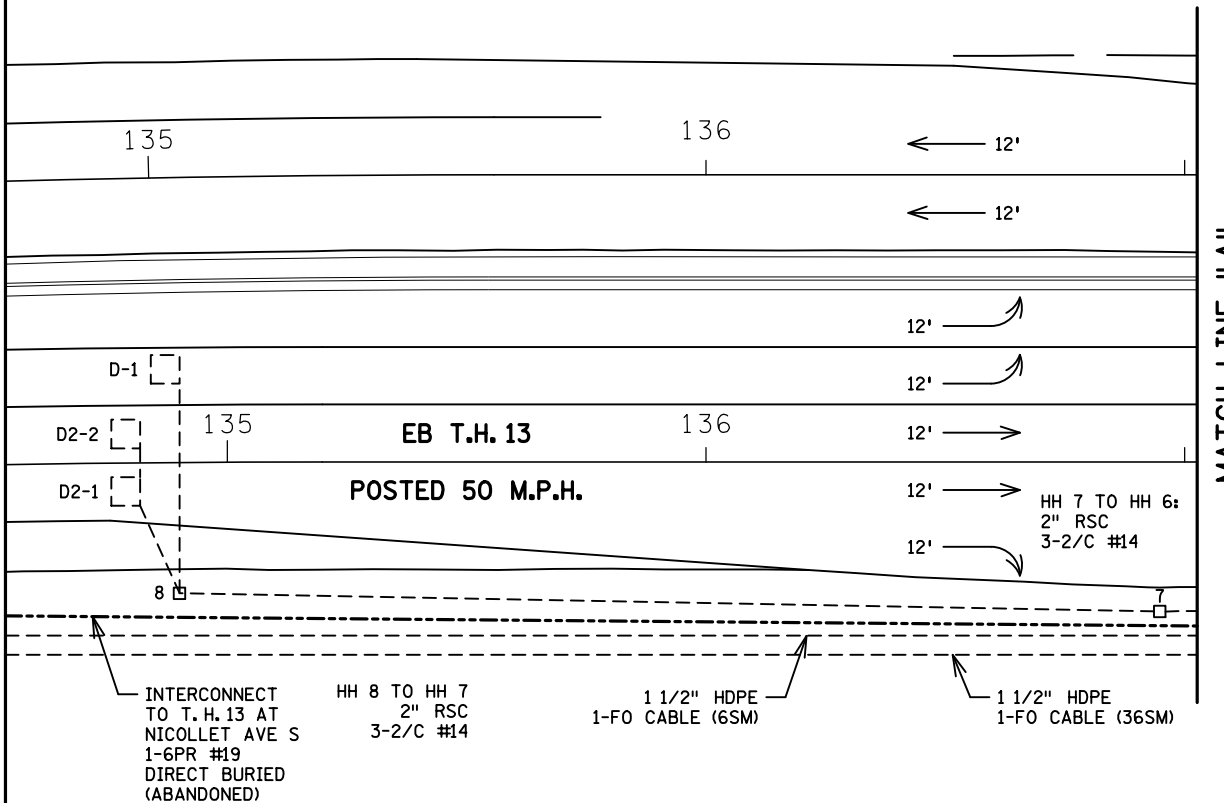
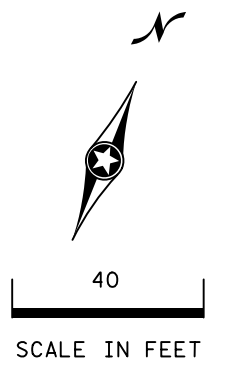
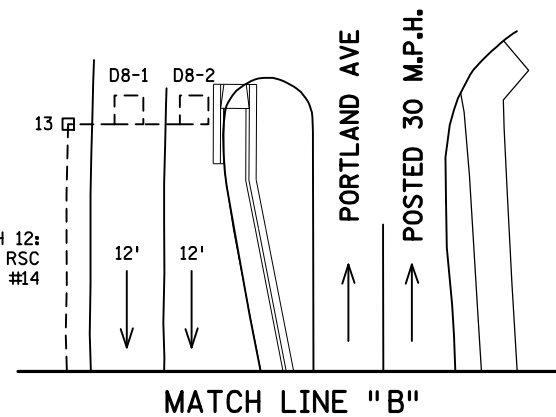
SYSTEM ID: 1735104 T.E.
METER ADDRESS: 601 1/2 E HWY 13
OLD SYSTEM ID: 20294 T.E.

INTERSECTION LAYOUT (1 OF 2)
T.H. 13 AT PORTLAND AVE. S.
BURNSVILLE, DAKOTA COUNTY

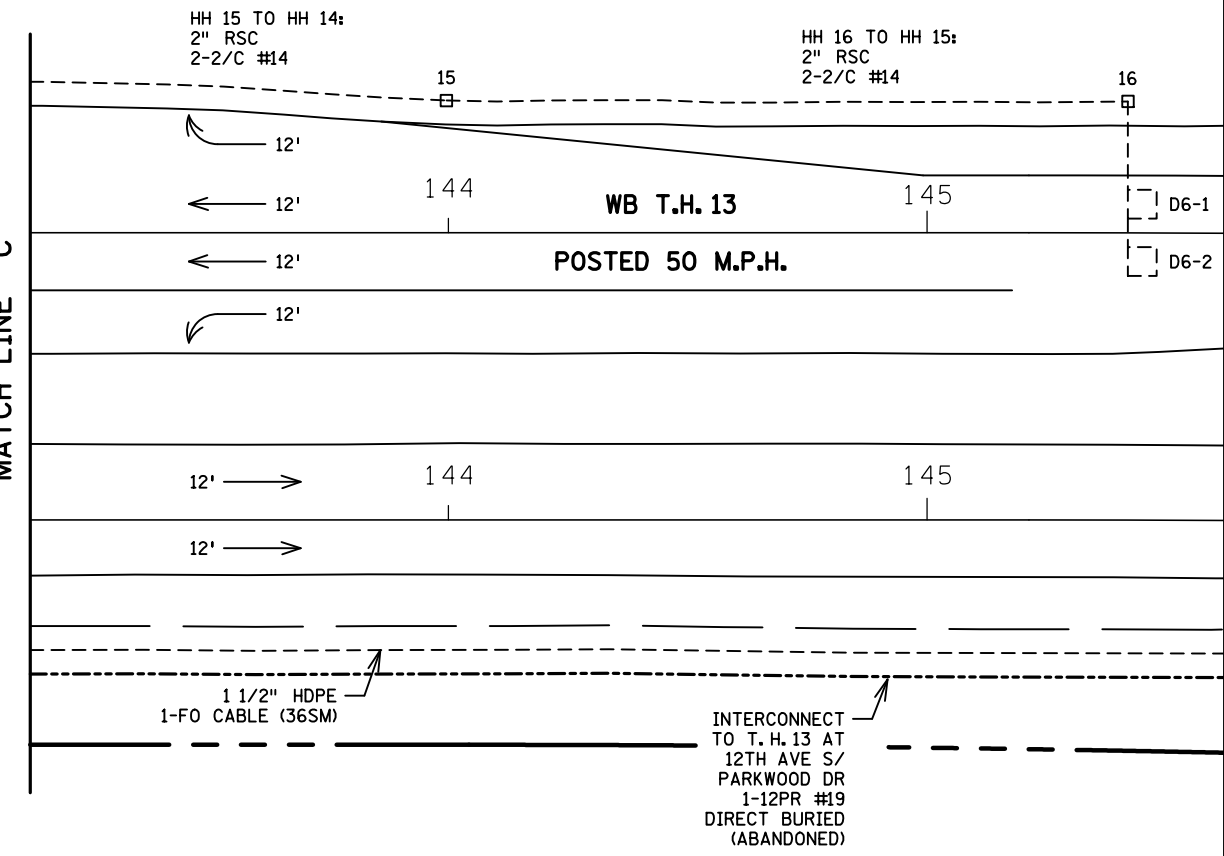
S.A.P. NO.	DRAWN BY:	CKD BY:	DATE:
CERTIFIED BY _____	LIC. NO. _____	DATE: _____	
STATE PROJ. NO. (T.H.13)		SHEET NO. 1 OF 5 SHEETS	

DISTRICT #: Metro
 PLOT NAME: Layout 2
 PATH & FILENAME: Projects\DM罗斯\03\0000\Traffic\Signals\20294\735\04R.dgn

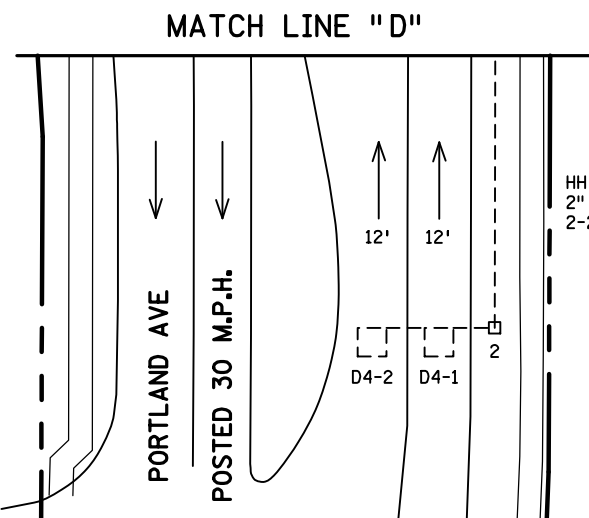
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MATCH LINE "A"



MATCH LINE "C"



MATCH LINE "D"

BY	DATE	REVISIONS
GDS	04-03-14	AS BUILT OF SP 1901-168 APS
J3T	11-28-18	AS-BUILT FOR SP 1901-177 CAMERA COMMUNICATION CABLE

SYSTEM ID: 1735104	T.E.
METER ADDRESS: 601 1/2 E HWY 13	
OLD SYSTEM ID: 20294	T.E.

INTERSECTION LAYOUT (2 OF 2)
T.H. 13 AT PORTLAND AVE. S.
BURNSVILLE, DAKOTA COUNTY

S.A.P. NO.	DRAWN BY:	CKD BY:	DATE:
CERTIFIED BY _____	LIC. NO. _____	DATE: _____	
STATE PROJ. NO. (T.H. 13)		SHEET NO. 2 OF 5 SHEETS	

DISTRICT #: Metro
 PLOT NAME: Notes
 PATH & FILENAME: Projects\DM罗斯\03\000001\Traffic\Signals\20294\1735\04R.dgn

PLOTTED/REVISED: 28-NOV-2018

4 PA100 POLE FOUNDATION
 TYPE PA100-A-55-D40-9 (DAVIT AT 350 DEG)
 1-ANGLE MOUNT SIGNAL OVERHEAD AT 0'
 2-STRAIGHT MOUNT SIGNALS OVERHEAD
 AT 12' AND 24'
 2-ANGLE MOUNT SIGNALS AT 90 AND 180 DEG
 2-ANGLE MOUNT C.D. PED HEADS
 AT 90 AND 180 DEG
 1-ONE WAY EVP DETECTOR AND
 CONFIRMATORY LIGHT (PHASES 1+6)
 LUMINAIRE-LED (FOR 40' MOUNTING HEIGHT)
 1-R10-X12 SIGN ADJACENT TO HEAD (1-1)
 1-R6-1L SIGN
 1-R6-1R SIGN
 1-TYPE D SIGN (D-1)(SEE SIGN DETAILS)
 EXTEND INTO HH 9:
 3" PVC
 2-12/C #14
 1-6/C #14
 2-4/C #14
 1-3/C #14 (EVP)
 1-3/C #14 (LUM)
 1-3/C #20 (EVP)
 1-1/C #6 INS. GR.

2 PA100 POLE FOUNDATION
 TYPE PA100-A-35
 2-ONE-WAY SIGNALS OVERHEAD AT 0' AND 11'
 TYPE 10B POLE MOUNTED 0 DEG
 TYPE 10B POLE MOUNTED 270 DEG
 4-SECTION HEAD (1-2)
 2-C.D. PED HEADS (P2-1), (P8-2)
 EXTEND INTO HH 4:
 3" RSC
 2-12/C #12
 2-3/C #12
 1-6/C #14
 1-4/C #14

5 PA100 POLE FOUNDATION
 TYPE PA100-A-35-X400 MOUNTED AT 350 DEG
 2-ONE-WAY SIGNALS OVERHEAD AT 0' AND 11'
 TYPE 10B POLE MOUNTED 0 DEG
 TYPE 10B POLE MOUNTED 270 DEG
 4-SECTION HEAD (5-3)
 2-C.D. PED HEADS (P4-2), (P6-1)
 1-TWO WAY EVP DETECTOR AND
 CONFIRMATORY LIGHT (PHASES 4+8)
 1-VIDEO CAMERA #1311 MOUNTED
 ON CAMERA EXTENSION
 1-VIDEO CAMERA POWER SUPPLY
 1-5/8" X 15' GR. RD.
 EXTEND INTO HH 12:
 3" RSC
 2-12/C #12
 3-3/C #12
 1-6/C #14
 1-4/C #14
 1-3/C #20
 1-3/C #14 (SPARE)
 1-CAT 5E (COM CABLE)
 1-7/16 BR. GR.

1 PA100 POLE FOUNDATION
 TYPE PA100-A-55-D40-9 (DAVIT AT 350 DEG)
 1-ANGLE MOUNT SIGNAL OVERHEAD AT 0'
 3-STRAIGHT MOUNT SIGNALS OVERHEAD
 AT 12', 24', AND 36'
 2-ANGLE MOUNT SIGNALS AT 90 AND 180 DEG
 2-ANGLE MOUNT C.D. PED HEADS
 AT 90 AND 180 DEG
 1-ONE WAY EVP DETECTOR AND
 CONFIRMATORY LIGHT (PHASES 2+5)
 LUMINAIRE-LED (FOR 40' MOUNTING HEIGHT)
 1-R10-X12 SIGN ADJACENT TO HEAD (5-2)
 1-R6-1L SIGN
 1-R6-1R SIGN
 1-TYPE D SIGN (D-1)(SEE SIGN DETAILS)
 EXTEND INTO HH 18:
 3" PVC
 2-12/C #14
 2-6/C #14
 2-4/C #14
 1-3/C #14 (EVP)
 1-3/C #14 (LUM)
 1-3/C #20 (EVP)
 1-1/C #6 INS. GR.

(A) EQUIPMENT PAD
 SERVICE CABINET
 CONTROLLER AND CABINET
 4" RSC TO HH 18: 4" RSC TO HH 1: 3" RSC TO HH 1A:
 2-12/C #12 2-12/C #12 2-12/C #14
 3-3/C #12 3-3/C #12 2-6/C #14
 2-12/C #14 20-2/C #14 3-4/C #14
 3-6/C #14 1-3/C #20 (EVP) 1-3/C #14 (EVP)
 3-4/C #14 1-2/C #14
 1-3/C #14 (EVP) 1-1/C #6 INS. GR.
 6-2/C #14
 1-2/C #14
 1-3/C #20 (EVP)
 1-3/C #20 (EVP)
 1-1/C #6 INS. GR.
 1-CAT 5E (COM CABLE)
 2" RSC STUB OUT
 1-12PR #19 DIRECT BURIED (ABANDONED)
 TO T.H. 13 AT 12TH AVE S
 2" RSC STUB OUT
 1-6 PR.#19 DIRECT BURIED (ABANDONED)
 TO T.H. 13 AT NICOLLET AVE S
 1 1/2" PVC TO FO SPLICE VAULT:
 1-FO PIGTAIL (12SM)
 SERVICE CABINET TO CONTROLLER CABINET:
 2" RSC
 2-1/C #6
 1-1/C #6 INS. GR.
 SERVICE CABINET TO HH 19:
 2" RSC
 3-1/C #2
 3-1/C #2
 SERVICE CABINET TO HH 18:
 2" RSC
 2-3/C #14 (LUM)
 1-3/C #14 (SPARE)
 BETWEEN HH 1 AND 18:
 2" RSC
 1-3/C #14 (LUM)

(B) WOOD POLE
 DISCONNECT (WOOD POLE MOUNTED)
 ABOVE DISCONNECT:
 2" RSC RISER AND WEATHERHEAD
 3-1/C #2
 BELOW DISCONNECT INTO HH 19:
 2" RSC
 3-1/C #2
 3-1/C #2

BY	DATE	REVISIONS	SYSTEM ID: 1735104	T.E.	S.A.P. NO.	DRAWN BY:	CKD BY:	DATE:
GDS	04-03-14	AS BUILT OF SP 1901-168 APS	METER ADDRESS: 601 1/2 E HWY 13		CERTIFIED BY _____ LIC. NO. _____ DATE: _____ <small>LICENSED PROFESSIONAL ENGINEER</small>			
J3T	11-28-18	AS-BUILT FOR SP 1901-177 CAMERA COMMUNICATION CABLE	OLD SYSTEM ID: 20294	T.E.	STATE PROJ. NO.	(T.H.13)	SHEET NO. 3 OF 5 SHEETS	

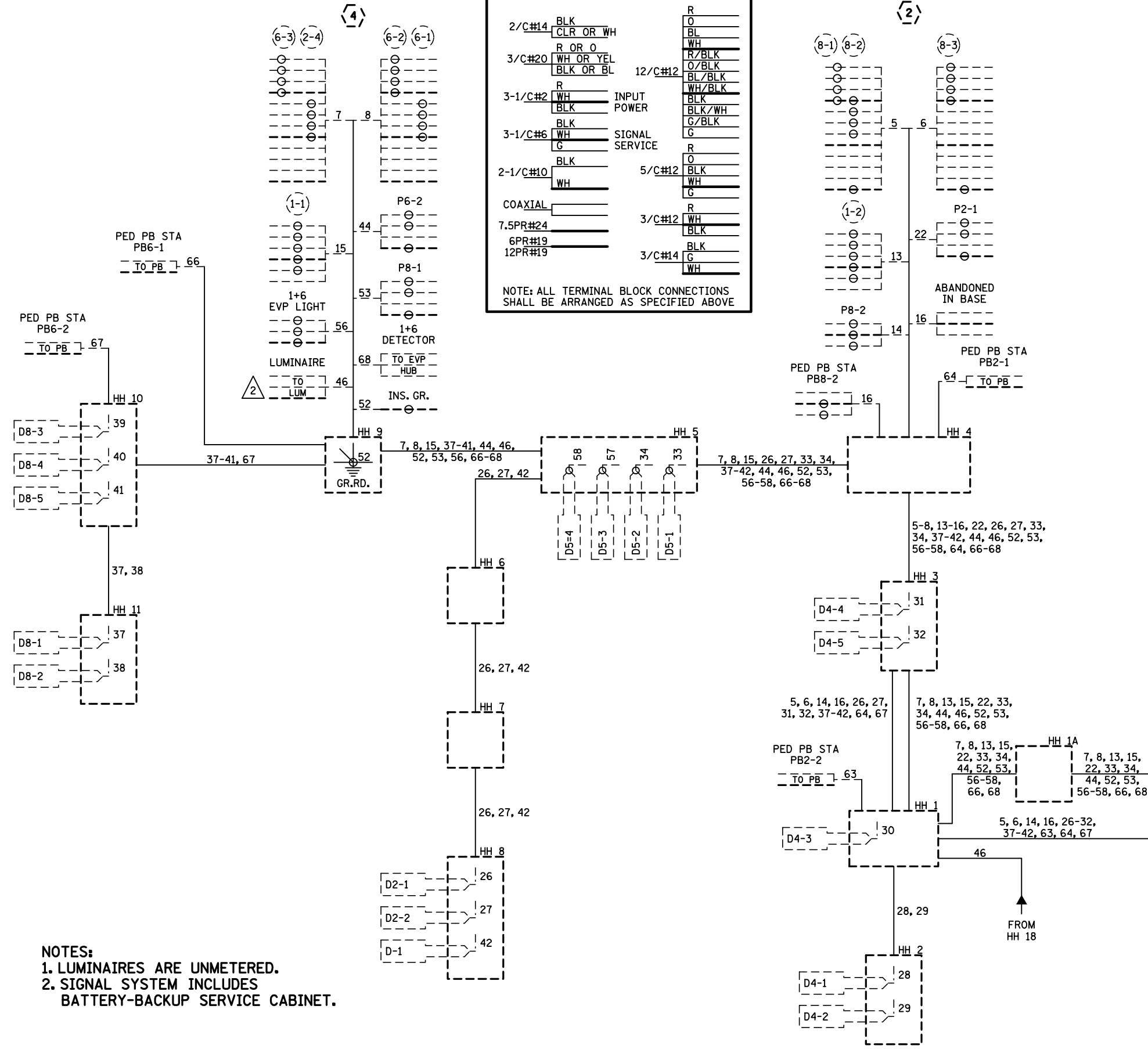
INTERSECTION NOTES
T.H. 13 AT PORTLAND AVE. S.
BURNSVILLE, DAKOTA COUNTY

DISTRICT #: Metro
 IPLOT NAME: 1735104R
 PATH & FILENAME: Projects\DM罗斯\013\0000\Traffic\Signal\97.61\PORTLAND AV S-1735104\1735104R.dgn
 PLOTTED/REVISED: 1-MAY-2024

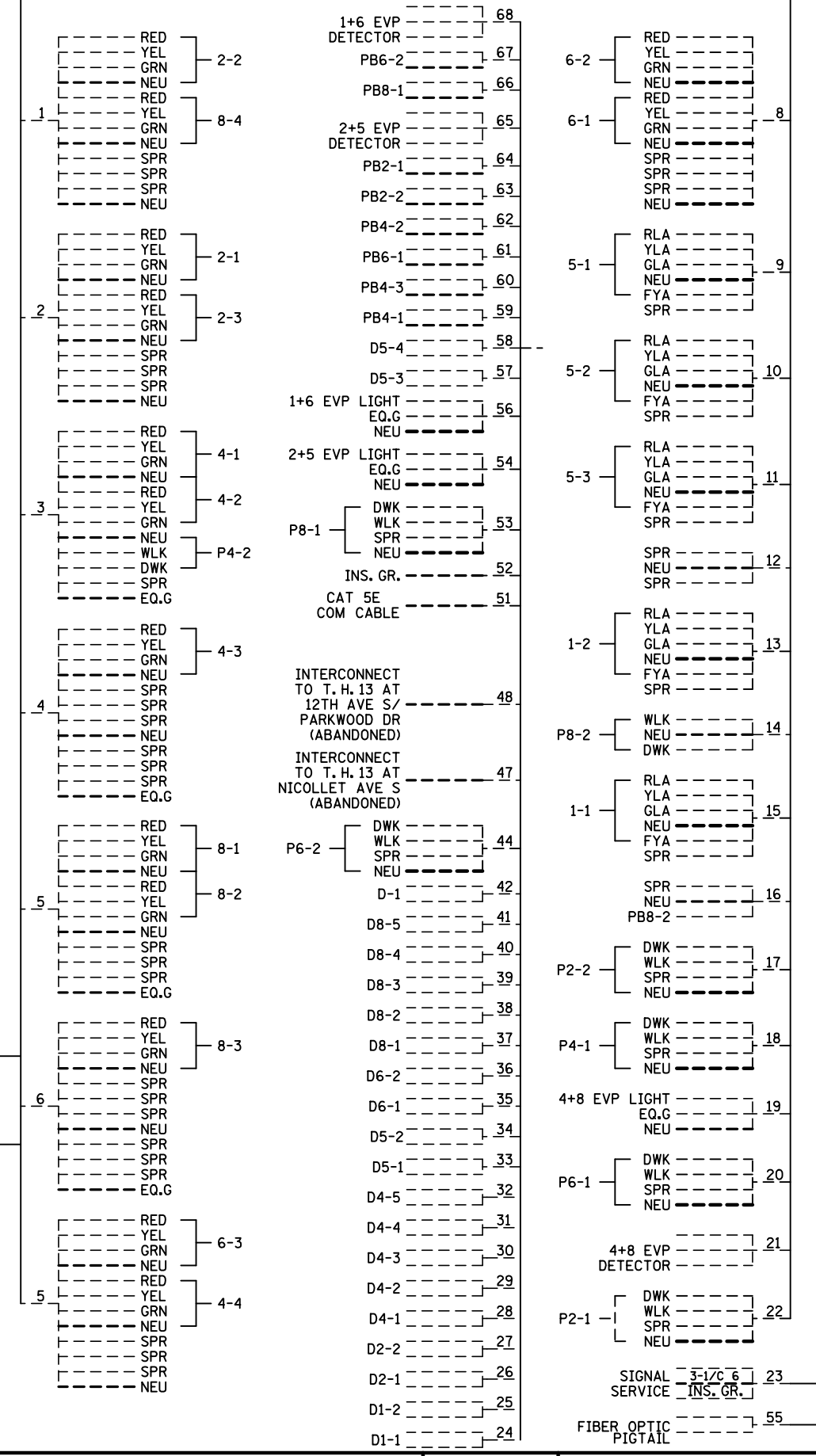
CONDUCTOR COLOR CODING

2/C#14	BLK	R
	CLR OR WH	O
		BL
		WH
3/C#20	R OR O	R/BLK
	WH OR YEL	O/BLK
	BLK OR BL	BL/BLK
		WH/BLK
3-1/C#2	R	BLK
	WH	BLK/WH
	BLK	G/BLK
		G
3-1/C#6	BLK	R
	WH	O
	BLK	BLK
	G	WH
		G
2-1/C#10	BLK	R
	WH	BLK
		WH
		G
COAXIAL		R
		WH
		BLK
7.5PR#24		BLK
6PR#19		BLK
12PR#19		G
		WH

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



CONTROLLER CABINET

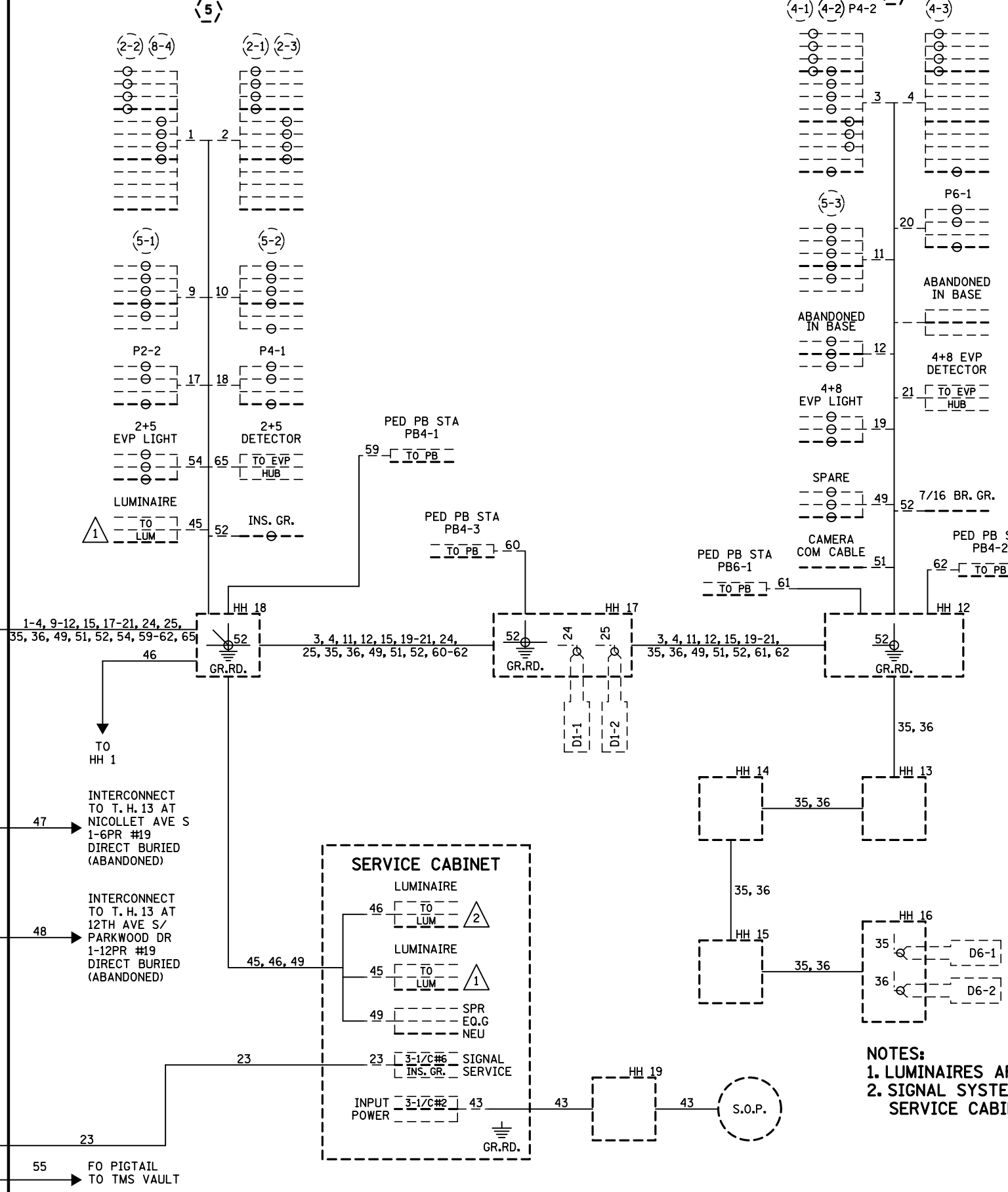
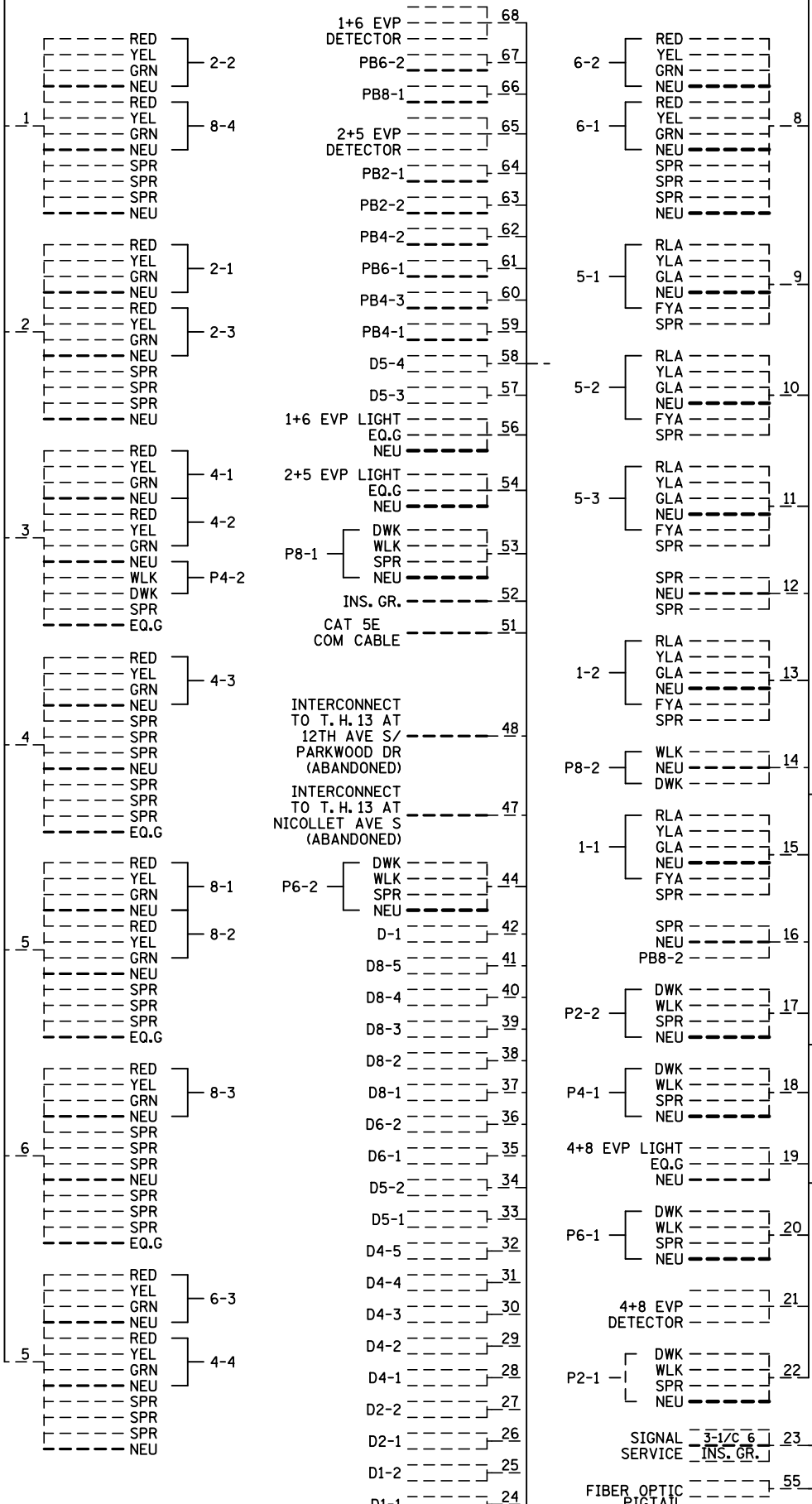


NOTES:
 1. LUMINAIRES ARE UNMETERED.
 2. SIGNAL SYSTEM INCLUDES BATTERY-BACKUP SERVICE CABINET.

BY DATE REVISIONS		SYSTEM ID: 1735104 T.E.		S.A.P. NO.		DRAWN BY:		CKD BY:		DATE:	
GDS	04-03-14	AS BUILT OF SP 1901-168 APS		METER ADDRESS: 601 1/2 E HWY 13		CERTIFIED BY _____		LIC. NO. _____		DATE: _____	
J3T	11-28-18	AS-BUILT FOR SP 1901-177 CAMERA COMMUNICATION CABLE		OLD SYSTEM ID: 20294 T.E.		STATE PROJ.NO.		(T.H.13)		SHEET NO. 4 OF 5 SHEETS	
SJK	5/1/24	REMOVED BATTERY BACKUP									

**FIELD WIRNG DIAGRAM (1 OF 2)
 T.H. 13 AT PORTLAND AVE. S.
 BURNSVILLE, DAKOTA COUNTY**

CONTROLLER CABINET



CONDUCTOR COLOR CODING

2/C#14	BLK	R
	CLR OR WH	O
	R OR O	BL
	WH OR YEL	WH
	BLK OR BL	R/BLK
12/C#12		O/BLK
		BL/BLK
3-1/C#2	R	WH/BLK
	WH	BLK
	BLK	BLK/WH
	BLK	G/BLK
3-1/C#6	WH	G
	G	R
	BLK	O
2-1/C#10	WH	BLK
		WH
		G
COAXIAL		R
7.5PR#24		WH
		BLK
6PR#19		BLK
12PR#19		WH

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

DISTRICT #: Metro
 PLOT NAME: 1735104R
 PATH & FILENAME: Projects\DM罗斯\030000\Traffic\Signal\97.61\PORTLAND AV S-1735104\1735104R.dgn
 PLOTTED/REVISED: 1-MAY-2024

BY	DATE	REVISIONS	SYSTEM ID: 1735104	T.E.	S.A.P. NO.	DRAWN BY:	CKD BY:	DATE:
GDS	04-03-14	AS BUILT OF SP 1901-168 APS	METER ADDRESS: 601 1/2 E HWY 13		CERTIFIED BY _____	LICENSED PROFESSIONAL ENGINEER	LIC. NO. _____	DATE: _____
J3T	11-28-18	AS-BUILT FOR SP 1901-177 CAMERA COMMUNICATION CABLE	OLD SYSTEM ID: 20294	T.E.	STATE PROJ.NO. (T.H.13) SHEET NO. 4 OF 5 SHEETS			
SJK	5/1/24	REMOVED BATTERY BACKUP						

FIELD WIRNG DIAGRAM (1 OF 2)
 T.H.13 AT PORTLAND AVE. S.
 BURNSVILLE, DAKOTA COUNTY