

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

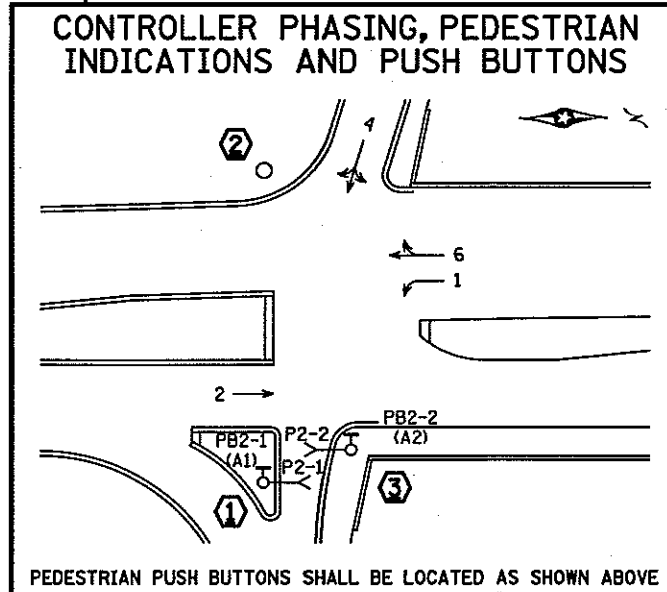
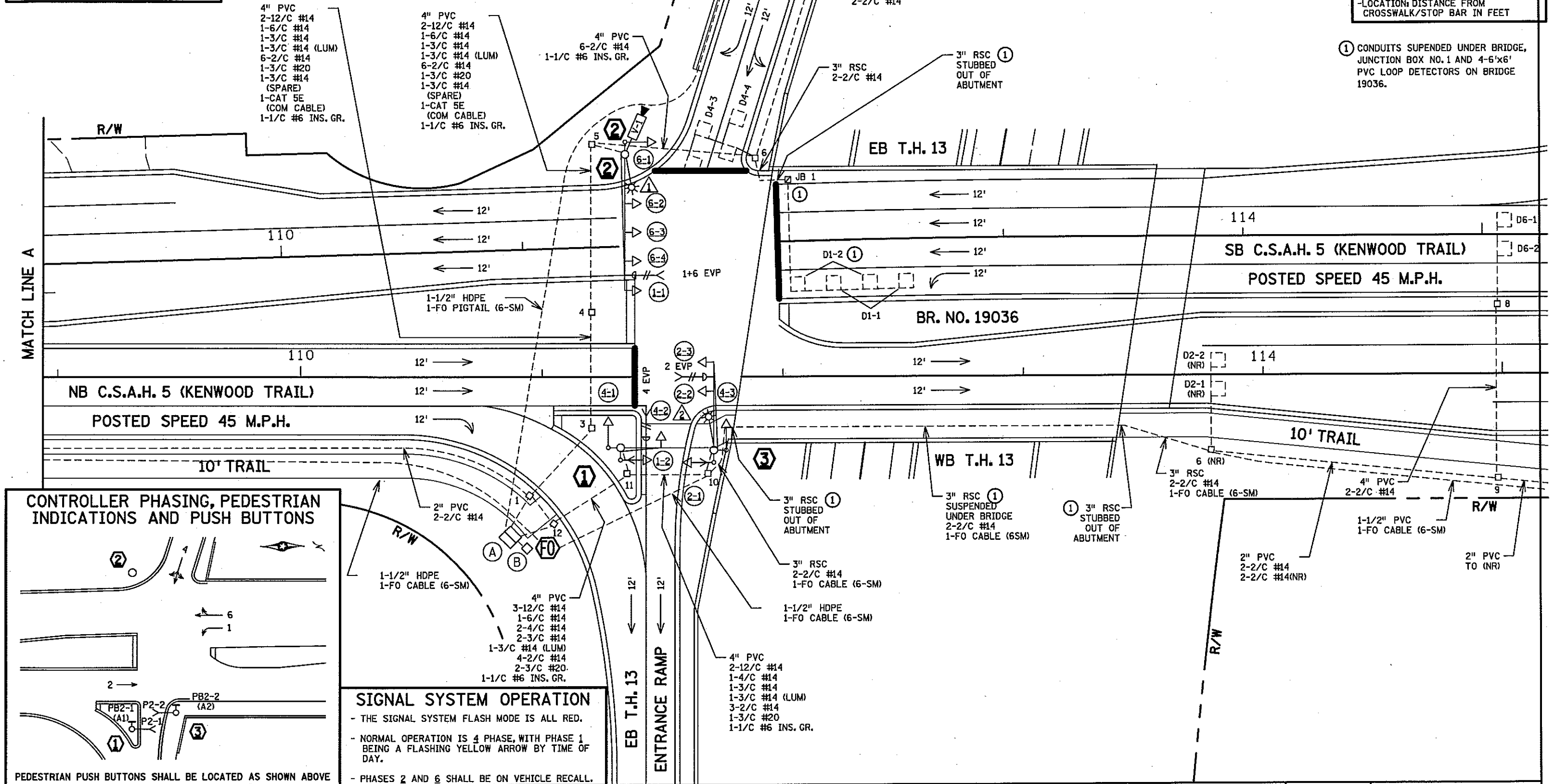
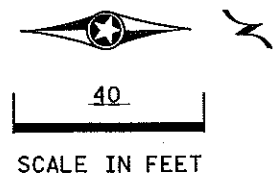
-ALL SIGNAL INDICATIONS ARE 12" LED
 -ALL SIGNAL HEADS ARE BLACK POLYCARBONITE WITH BACKGROUND SHIELDS
 -FYA DENOTES FLASHING YELLOW ARROW

HH 1 TO HH 3
 4" PVC
 2-12/C #14
 1-6/C #14
 1-3/C #14
 1-3/C #14 (LUM)
 6-2/C #14
 1-3/C #20
 1-3/C #14 (SPARE)
 1-CAT 5E (COM CABLE)
 1-1/C #6 INS. GR.

TO TMS VAULT
 1-1/2" HDPE
 1-FO PIGTAIL (6-SM)
 (SEE TMS PLAN)

LOOP DETECTOR CHART		
NUMBER	SIZE (FT)	LOCATION
D1-1 ①	2-6x6	20 & 50
D1-2 ①	2-6x6	5 & 35
D2-1, D2-2	6x6	300
D4-1, D4-2	6x6	120
D4-3	2-6x6	0 & 15
D4-4	2-6x6	5 & 20
D6-1, D6-2	6x6	300

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



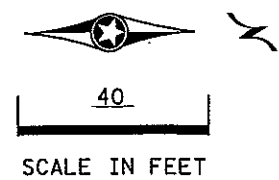
SIGNAL SYSTEM OPERATION

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

BY	DATE	REVISIONS	SYSTEM ID: 1736865	T.E. 5608	S.A.P. NO.	DRAWN BY:	CKD BY:	DATE:
EJA	01-26-15	AS BUILT OF SP 1901-148	METER ADDRESS: 12659 COUNTY RD 5		CERTIFIED BY		LIC. NO.	DATE:
J3T	10-31-18	CAMERA COMMUNICATION CABLE REPLACEMENT	OLD SYSTEM ID: 39428		STATE PROJ. NO. 1901-148 (T.H. 13)		SHEET NO. 1 OF 4 SHEETS	

INTERSECTION LAYOUT
 T.H. 13 AT C.S.A.H. 5 (KENWOOD TRAIL) S. RAMP
 BURNSVILLE, DAKOTA COUNTY

INTERSECTION NOTES



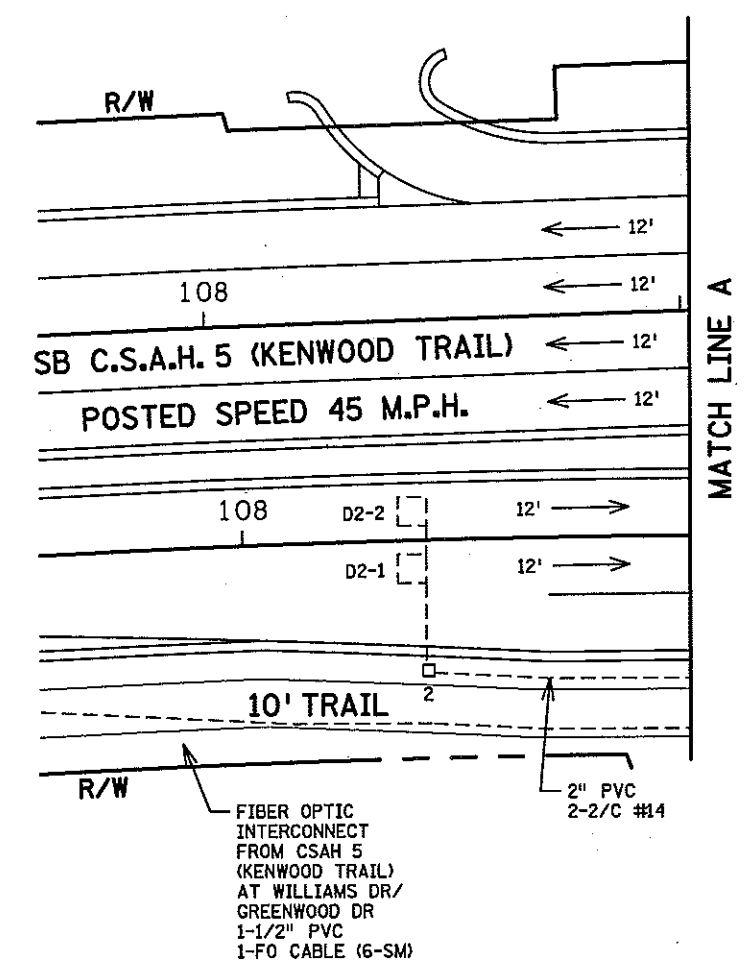
② PA100 POLE FOUNDATION
 TYPE PA100-A-55-X6-350/CAM 400 (AT 350 DEG)
 LUMINAIRE-250W HPS
 1-VIDEO CAMERA # 1313 (V1)
 1-ANGLE MOUNT SIGNAL OVERHEAD AT 0'
 1-STRAIGHT MOUNT SIGNAL OVERHEAD
 AT 11', 23' AND 35'
 1-ANGLE MOUNT SIGNAL AT 180 DEG
 1-ONE WAY EVP DETECTOR AND
 CONFIRMATORY LIGHT (PHASES 1+6)
 2-R9-3 SIGNS (NO PEDS) FACING POLE 1 AND NORTH
 1-R10-X12 SIGN ADJACENT TO HEAD (1-1)
 1-TYPE D SIGN (D-2) (SEE SIGN DETAILS)
 3" PVC TO HH 5:
 2-12/C #14
 1-6/C #14
 1-3/C #14
 1-3/C #14 (LUM)
 1-3/C #20
 1-3/C #14 SPARE)
 1-CAT 5E (COM CABLE)
 1-1/C #6 INS. GR.
 1" PVC TO HH 5:
 1-7/16" BRAIDED GROUND ROD CONDUCTOR

① PA85 POLE FOUNDATION
 TYPE PA85-A-15
 1-ANGLE MOUNT SIGNAL OVERHEAD AT 0'
 2-ANGLE MOUNT SIGNALS AT 90 AND 180 DEG
 1-ANGLE MOUNT C. D. PED HEAD AT 90 DEG
 1-APS PB AND SIGN (LT ARROW) (PB2-1)
 1-ONE WAY EVP DETECTOR AND
 CONFIRMATORY LIGHT (PHASE 4)
 1-R9-3 SIGN (NO PEDS) FACING POLE 2
 1-R6-1R SIGN (ONE WAY)
 1-R6-1L SIGN (ONE WAY)
 1-TYPE D SIGN (D-1) (SEE SIGN DETAILS)
 3" PVC TO HH 11:
 1-12/C #14
 1-6/C #14
 1-4/C #14
 1-3/C #14
 1-2/C #14
 1-3/C #20
 1-1/C #6 INS. GR.

③ PA90 POLE FOUNDATION
 TYPE PA90-A-35-D40-9 (DAVIT AT 350 DEG)
 LUMINAIRE-250W HPS
 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 C. D. PED HEAD AT 180 DEG
 1-APS PB AND SIGN (RT ARROW) (PB2-2)
 1-ONE WAY EVP DETECTOR AND
 CONFIRMATORY LIGHT (PHASE 2)
 1-R9-3 SIGN (NO PEDS) FACING WEST
 3" PVC TO HH 10:
 2-12/C #14
 1-4/C #14
 1-3/C #14
 1-3/C #14 (LUM)
 1-2/C #14
 1-3/C #20
 1-1/C #6 INS. GR.

Ⓐ EQUIPMENT PAD (SEE DETAIL SHEET)
 SERVICE CABINET (SSB)
 CONTROLLER AND CABINET
 4" PVC TO HH 1:
 2-12/C #14
 1-6/C #14
 1-3/C #14
 8-2/C #14
 1-3/C #20
 1-3/C #14 (SPARE)
 1-CAT 5E (COM CABLE)
 1-1/C #6 INS. GR.
 4" PVC TO HH 12:
 3-12/C #14
 1-6/C #14
 2-4/C #14
 2-3/C #14
 4-2/C #14
 2-3/C #20
 1-1/C #6 INS. GR.
 2-2" AND 1-3" PVC STUBBED OUT (CAPPED BOTH ENDS)
 3/4" PVC STUBBED OUT (FOR TELEPHONE LINE)
 1-1/2" PVC TO TMS VAULT:
 1-FO PIGTAIL (6-SM)
 1-1/2" PVC TO FO VAULT:
 1-FO PATCH CABLE (6-SM)
 CONTROLLER CABINET TO SERVICE CABINET:
 2" PVC
 2-1/C #6
 1-1/C #6 INS. GR.
 CONTROLLER CABINET TO SERVICE CABINET (COMMS):
 2" PVC
 1-6PR #19 (SPARE)
 SERVICE CABINET TO GROUND MOUNTED TRANSFORMER:
 2" PVC
 3-1/C #2
 SERVICE CABINET TO HH 12:
 2" PVC
 2-3/C #14 (LUM)
 HH 12 TO HH 1:
 2" PVC
 1-3/C #14 (LUM)

Ⓑ SOP-GROUND MOUNTED
 TRANSFORMER (XCEL ENERGY)
 2" PVC INTO SERVICE CABINET:
 3-1/C #2



PLOTTED/REVISED: 31-OCT-2018

I/PLOT NAME: I736865R
 PATH & FILENAME: Projects\DM_R05\013\0000\Traffic\Signals\39428\I736865R.dgn

BY	DATE	REVISIONS	SYSTEM ID: 1736865	T.E. 5608	S.A.P. NO.	DRAWN BY:	CKD BY:	DATE:
EJA	01-26-15	AS BUILT OF SP 1901-148	METER ADDRESS: 12659 COUNTY RD 5		CERTIFIED BY		LIC. NO.	DATE:
J3T	10-31-18	CAMERA COMMUNICATION CABLE REPLACEMENT	OLD SYSTEM ID: 39428		STATE PROJ. NO. 1901-148 (T.H. 13)		SHEET NO. 2 OF 4 SHEETS	

NOTES:
1. LUMINAIRES ARE UNMETERED.

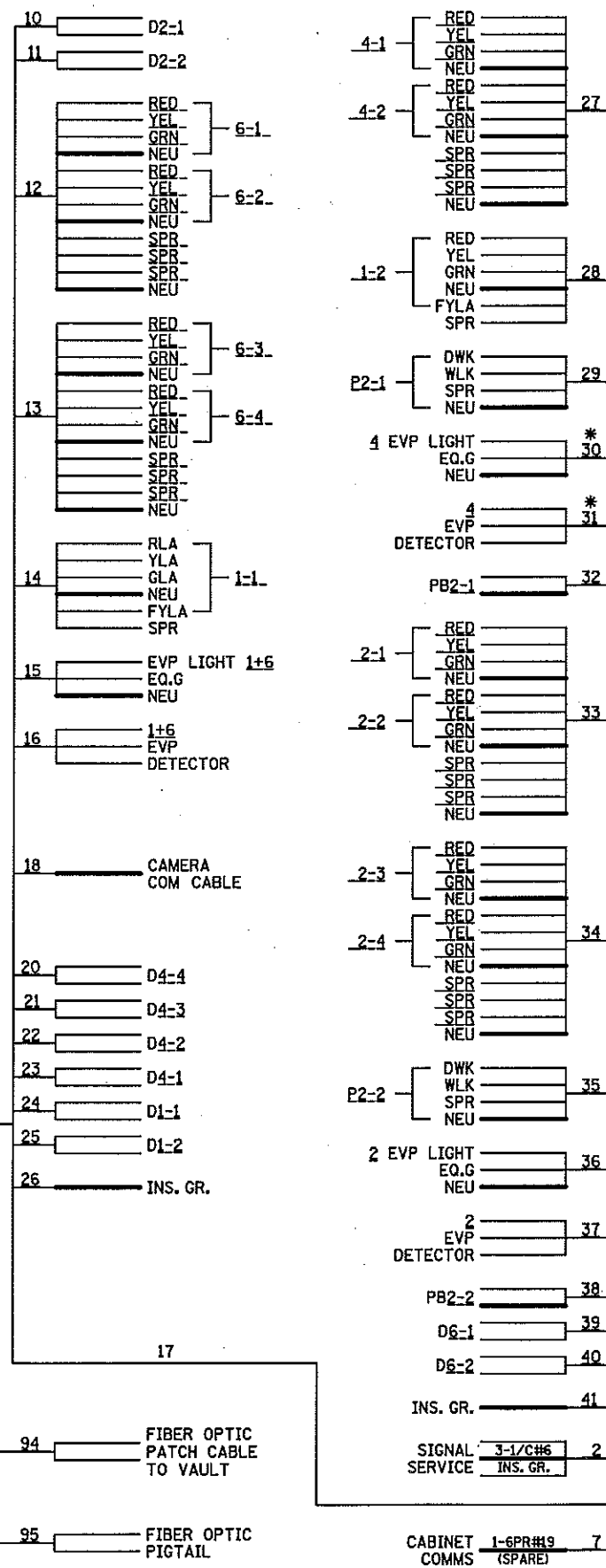
2. SIGNAL SYSTEM INCLUDES BATTERY
-BACKUP SERVICE CABINET (NO
BATTERIES OR U.P.S.).

3. FOR CONDUCTOR COLOR CODE SEE
TRAFFIC SIGNAL POLE WIRING
CONNECTOR DETAIL.

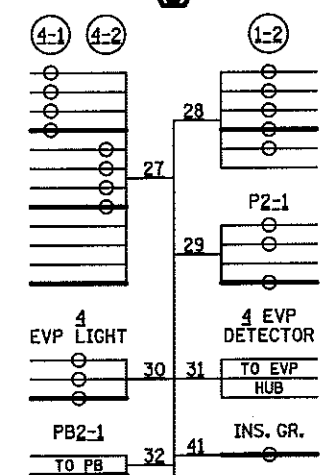
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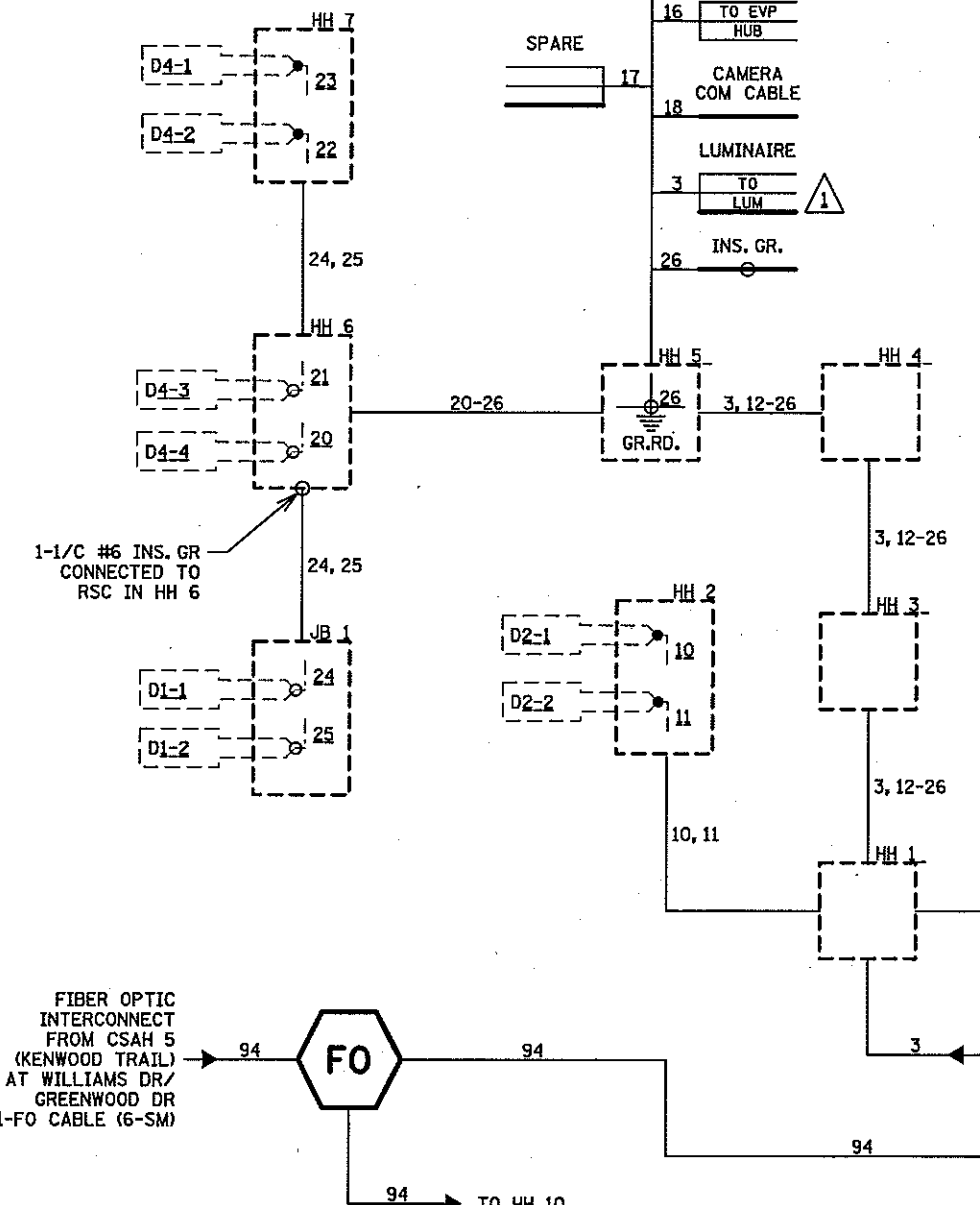
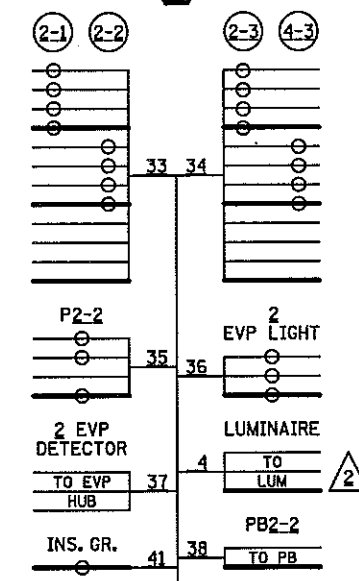
CONTROLLER CABINET



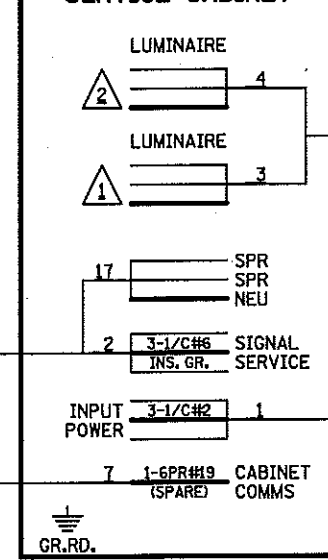
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SERVICE CABINET



BY	DATE	REVISIONS
EJA	01-26-15	AS BUILT OF SP 1901-148
J3T	10-31-18	CAMERA COMMUNICATION CABLE REPLACEMENT

SYSTEM ID: 1736865	T.E. 5608
METER ADDRESS: 12659 COUNTY RD 5	
OLD SYSTEM ID: 39428	

FIELD WIRING DIAGRAM
T.H. 13 AT C.S.A.H. 5 (KENWOOD TRAIL) S. RAMP
BURNSVILLE, DAKOTA COUNTY

S.A.P. NO.	DRAWN BY:	CKD BY:	DATE:
CERTIFIED BY	LIC. NO.	DATE:	
STATE PROJ. NO. 1901-148 (T.H. 13)		SHEET NO. 3 OF 4 SHEETS	