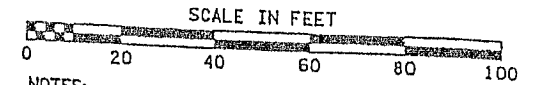


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- NOTES:
- 1) LOCATION OF POLES, FOUNDATIONS, LOOP DETECTORS AND HANDHOLES SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
 - 2) EACH SIGNAL FACE SHALL HAVE A BACKGROUND SHIELD.
 - 3) ALL VEHICLE INDICATIONS AND ALL PEDESTRIAN SIGNAL INDICATIONS SHALL BE LED, SEE SPECIAL PROVISIONS.
 - 4) FOR SERVICE CABINET DETAILS SEE SHEET NO. 228.
 - 5) FOR NMC LOOP DETAILS SEE SHEET NO. 227.
 - 6) FOR SIGN DETAILS SEE SHEET NOS. 229-231.
 - 7) (INTERCONNECT) DENOTES ITEMS TO BE MEASURED AND PAID FOR SEPARATELY FROM ITEM 2565.511.

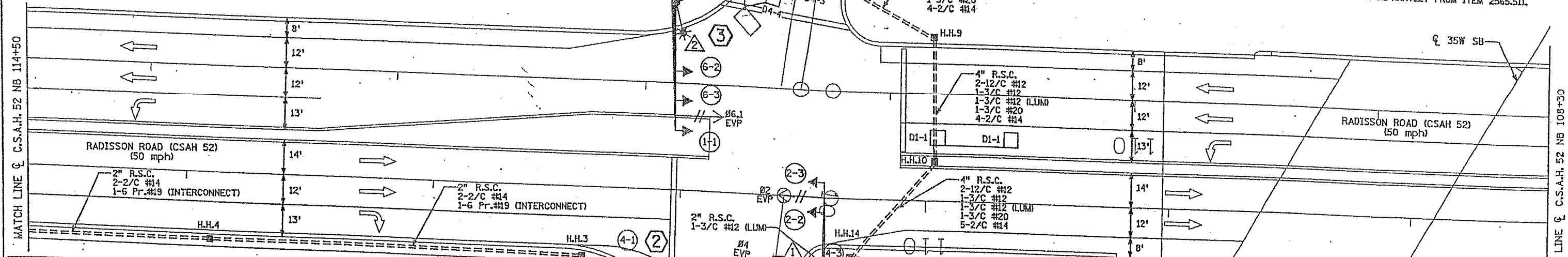
LOOP DETECTORS			
NUMBER	SIZE (FEET)	FUNCTION	LOCATION
D1-1	2-6 x 6	1	10' & 40'
D2-1	6 x 6	1	350'
D2-2	6 x 6	1	350'
D4-1	6 x 6	3,8	180'
D4-2	6 x 6	3,8	180'
D4-3	2-6 x 6	1	10' & 40'
D4-4	6 x 6, 6 x 10	1	AS SHOWN
D6-1	6 x 6	1	415'
D6-2	6 x 6	1	415'

LOOP DETECTORS FUNCTIONS

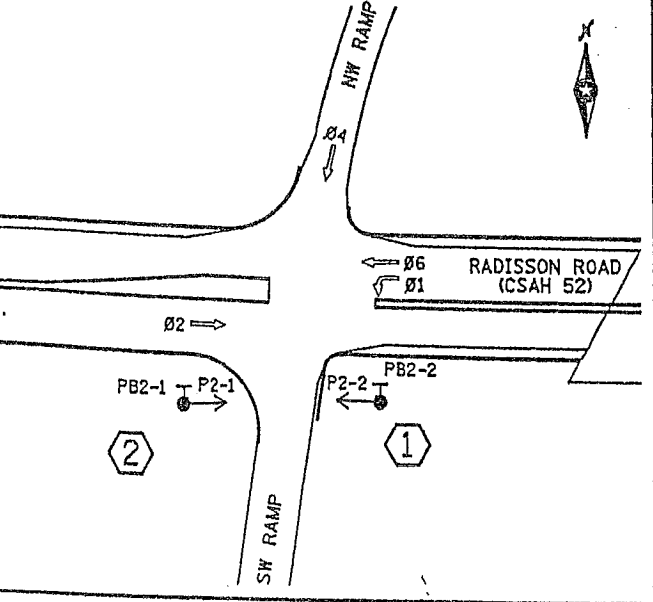
- 1) CALL AND EXTEND
- 3) EXTEND ONLY
- B) CARRY OVER (STRETCH)

NOTE:
LOCATION = DISTANCE FROM STOP BAR TO FRONT OF LOOP DETECTOR

③ PA100 POLE FOUNDATION
TYPE PA100-A-50-D40-9 (DAVIT AT 350°)
LUMINAIRE-200 WATT H.P.S. WITH PEC
AND CHECK SWITCH
3-ONE WAY SIGNALS-OVERHEAD (0, 11' AND 23' FROM LEFT END OF MAST ARM)
1-TYPE 10A-POLE MOUNTED 180°
R6-1 SIGN PANEL (36"x12")-POLE MOUNTED 0° AND 180°
TYPE "D" SIGN PANEL OVERHEAD (D-20)
1-R9-3a SIGN (NO PED) FACING POLE 2
ONE WAY EVP DETECTOR AND LIGHT-OVERHEAD (Ø6,1)
EXTEND INTO H.H.6:
3" R.S.C.
2-12/C #12
1-3/C #12
1-3/C #12 (LUM)
1-3/C #20
1-2/C #14



CONTROLLER PHASING, PEDESTRIAN INDICATIONS AND PUSH BUTTONS



② PA100 POLE FOUNDATION
TYPE PA100-A-50
1-ONE WAY SIGNAL-OVERHEAD (0' FROM LEFT END OF MAST ARM)
1-TYPE 10B-POLE MOUNTED 90°
1-TYPE 10A-POLE MOUNTED 180°
1-PEDESTRIAN PUSH BUTTON
R6-1 SIGN PANEL (36"x12")-POLE MOUNTED 180° AND 270°
TYPE "D" SIGN PANEL OVERHEAD (D-3)
1-R9-3a SIGN (NO PED) FACING POLE 3
ONE WAY EVP DETECTOR AND LIGHT-OVERHEAD (Ø4)
EXTEND INTO H.H.2:
3" R.S.C.
1-12/C #12
3-3/C #12
1-3/C #20

① INSTALL CONTROLLER AND CABINET (FURNISHED BY COUNTY)
CABINET AND FOUNDATION
EXTEND INTO H.H.15
METERED SIGNAL SERVICE
1/4" R.S.C.
3-1/C #6
EXTEND INTO H.H.1
4" R.S.C.
3-12/C #12
5-3/C #12
2-3/C #20
2-2/C #14
1-6 Pr.#19 (INTERCONNECT)
EXTEND INTO H.H.14
4" R.S.C.
2-12/C #12
1-3/C #12
1-3/C #20
7-2/C #14
1-6 Pr.#19 (INTERCONNECT)
STUB OUT 2-3" R.S.C. (THREAD AND CAP BOTH ENDS-FOR FUTURE USE)

④ SERVICE CABINET
CABINET FOUNDATION
EXTEND INTO H.H.14
UNMETERED STREET LIGHT SERVICE
1/4" R.S.C.
2-3/C #12 (LUM)
EXTEND INTO H.H.15
METERED SIGNAL SERVICE
1/4" R.S.C.
3-1/C #6
STUB OUT 2" R.S.C. (FOR SERVICE BY CONNEXUS)

① PA100 POLE FOUNDATION
TYPE PA100-A-45-D40-9 (DAVIT AT 350°)
LUMINAIRE-200 WATT H.P.S. WITH PEC
AND CHECK SWITCH
2-ONE WAY SIGNALS-OVERHEAD (0, AND 11' FROM LEFT END OF MAST ARM)
1-TYPE 10A-POLE MOUNTED 90°
1-TYPE 10B-POLE MOUNTED 180°
1-PEDESTRIAN PUSH BUTTON
2-R6-1 SIGN PANELS (36"x12")-POLE MOUNTED 0° AND 270°
2-TYPE "D" SIGN PANELS OVERHEAD (D-21, D-22)
ONE WAY EVP DETECTOR AND LIGHT-OVERHEAD (Ø2)
EXTEND INTO H.H.1:
3" R.S.C.
2-12/C #12
2-3/C #12
1-3/C #12 (LUM)
1-3/C #20

SIGNAL SYSTEM OPERATION

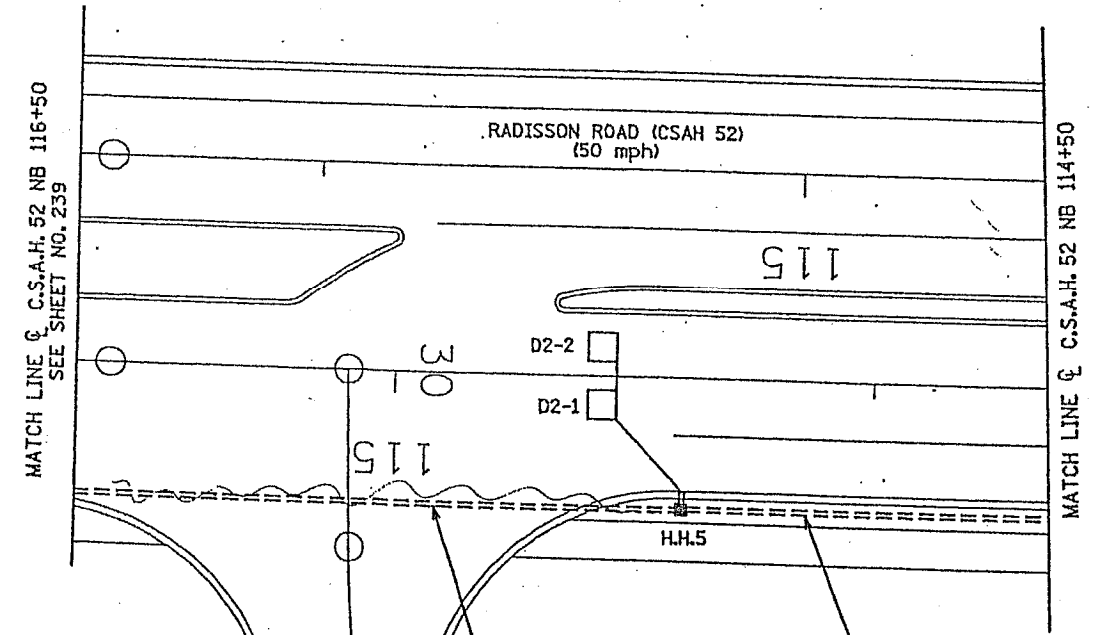
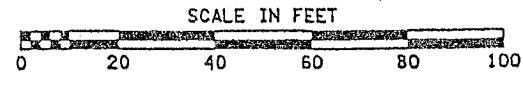
- THE SIGNAL SYSTEM FLASH MODE SHALL BE ALL RED.
- NORMAL OPERATION SHALL BE 4 PHASE, WITH PHASE 1 BEING A PROTECTED LEFT TURN PHASE.
- VEHICLE SIGNAL PHASES 2 AND 6 SHALL OPERATE ON RECALL.

SIGNAL INDICATIONS						
ALL INDICATIONS SHALL BE 12" LED						
FACE	R	Y	G	RLTA	YLTA	GLTA
1-1, 1-2				←	←	←
2-1, 2-2, 2-3	●	●	●			
4-1, 4-2, 4-3	●	●	●			
6-1, 6-2, 6-3	●	●	●			

SIGNAL SYSTEM I.D.: 22497

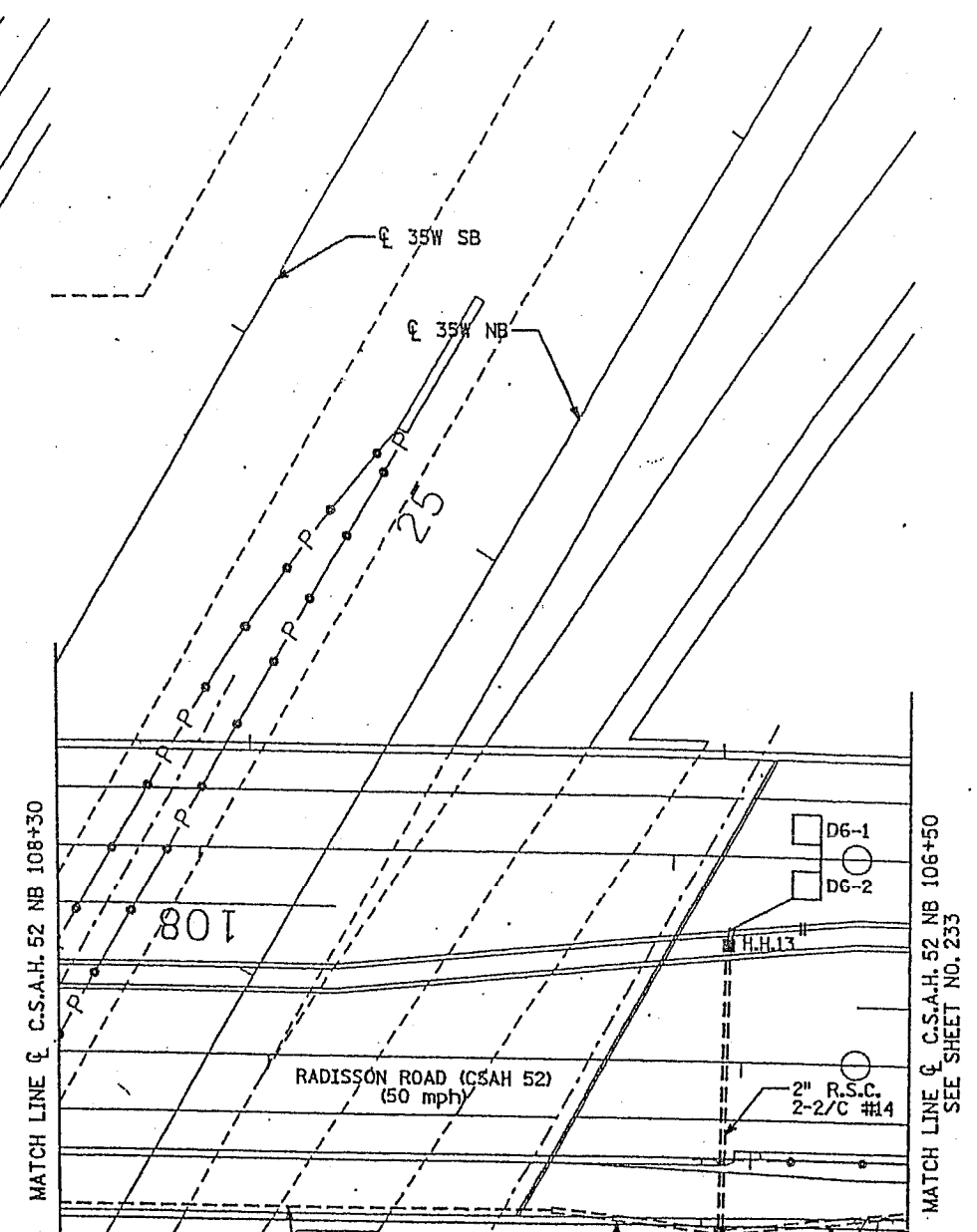
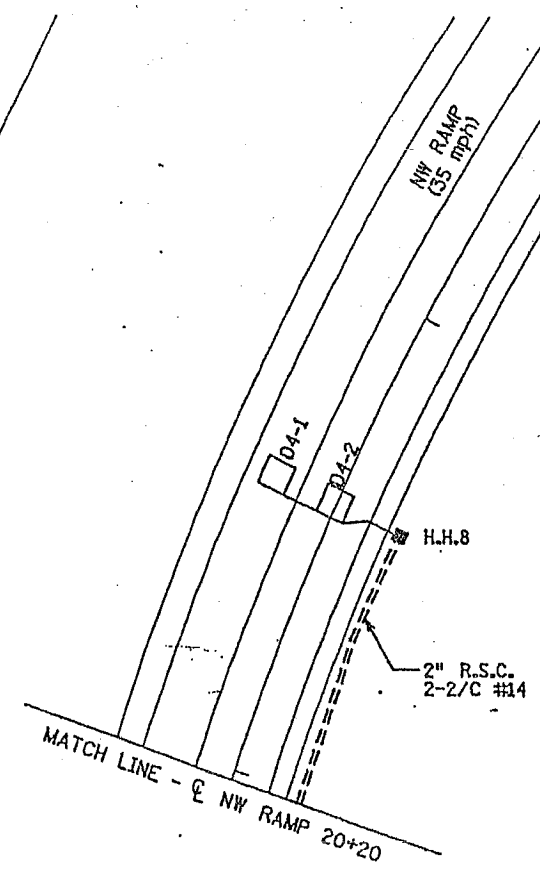
I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED

7544



2" R.S.C. (INTERCONNECT)
1-6 Pr.#19 (INTERCONNECT)

2" R.S.C.
2-2/C #14
1-6 Pr.#19 (INTERCONNECT)



2" R.S.C. (BY OTHERS)
2-2/C #14
1-6 Pr.#19 (INTERCONNECT)

2" R.S.C.
2-2/C #14
1-6 Pr.#19 (INTERCONNECT)

2" R.S.C. (INTERCONNECT)
1-6 Pr.#19 (INTERCONNECT)

NOTE:
(INTERCONNECT) DENOTES ITEMS TO BE MEASURED
AND PAID FOR SEPARATELY FROM ITEM 2565.511.

SIGNAL SYSTEM I.D.: 22497

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF

DRAWN BY _____ DATE _____

S.P. 0280-50 (TH 35W)
S.P. 90-080-11

TRADA

ANOKA COUNTY

SHEET 265

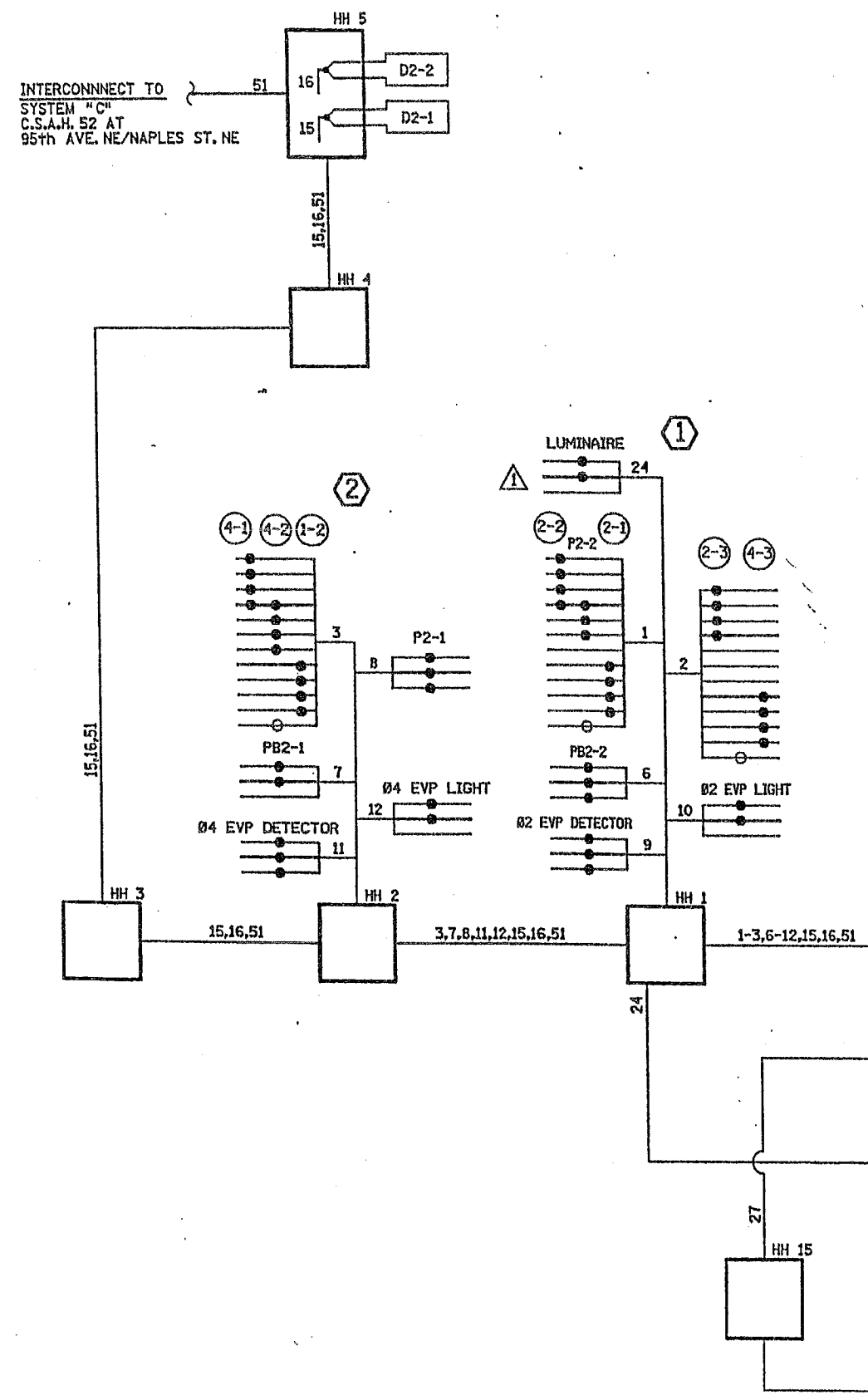
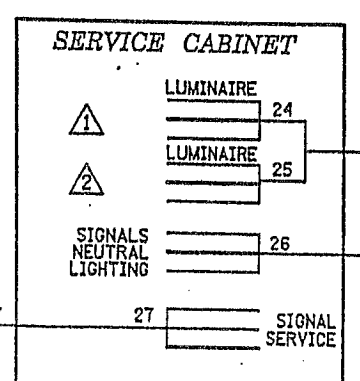
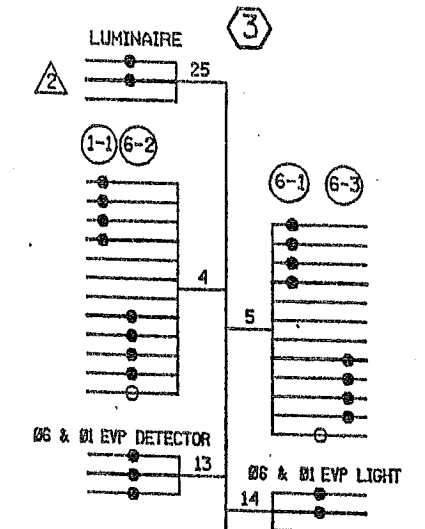
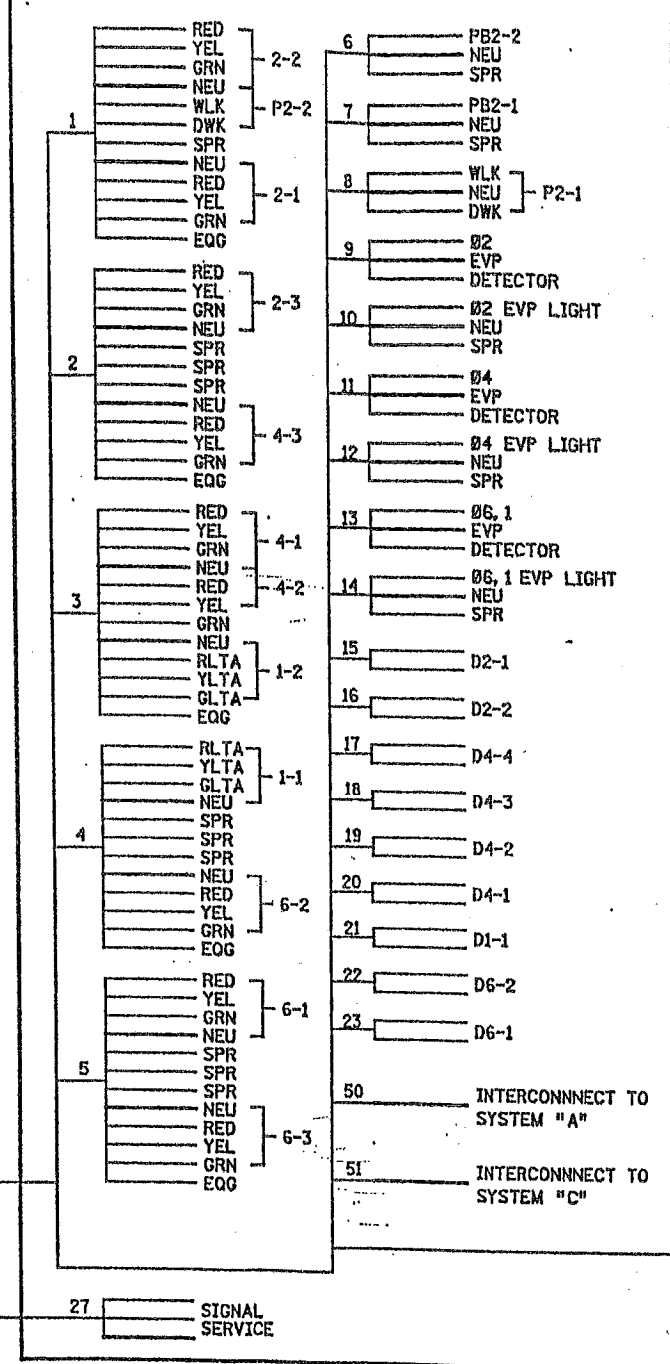
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CONDUCTOR COLOR CODING

R	R	
O	BL	5/C #1
BL	WH	
WH	R/BLK	
12/C #2	O/BLK	
	BL/BLK	
	WH/BLK	
	BLK	3/C #1
	BLK/WH	
	G/BLK	
	G	
		R OR O
		WH OR YEL
		BLK OR BL
		3/C #2
2-1/C #6	BLK	
	WH	BLK
		CLEAR
		2/C #1

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

CONTROLLER CABINET



INTERCONNECT TO SYSTEM "A" C.S.A.H. 52 AT NE RAMP/ NE LOOP/NAPLES STREET

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

DRAWN BY SFH DATE 11-8-00 S.P.

0280-50 (TH 35W) 90-080-11