

7192 LOOP DETECTORS

NUMBER	SIZE	FUNCTION	LOCATION
*D1-1	MULTIPLE	1	5'
*D2-1	6' X 6'	1	400'
*D4-1	6' X 6'	3 & 8	INPLACE
*D4-2	6' X 6'	1	5'
D4-3	6' X 6'	7	5'
D5-1	MULTIPLE	1	5'
*D6-1	6' X 6'	1	400'
D8-1	6' X 6'	3 & 8	INPLACE
D8-2	6' X 6'	1	INPLACE
D8-3	6' X 6'	7	INPLACE

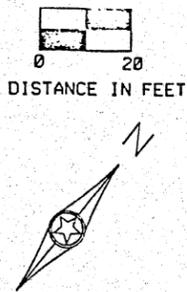
LOCATION-DISTANCE FROM STOP LINE TO DETECTOR

LOOP DETECTOR FUNCTION
 1- CALL AND EXTEND
 2- CALL ONLY
 3- EXTEND ONLY
 4- CALL ONLY DENS
 5- DLY CALL ONLY
 6- DLY CALL ONLY DENSITY
 7- DLY CALL IMMEDIATE EXTEND
 8- CARRY OVER
 9- ADVISORY
 10-SAMPLING

* NOTES:

- ALL ITEMS OF THIS SIGNAL SYSTEM ARE INPLACE AND SHALL BE USED INPLACE UNLESS OTHERWISE NOTED WITH AN * (**WORK TO BE DONE)
- SEE SPECIAL PROVISIONS FOR CONTRACTORS RESPONSIBILITY FOR LOCATION OF UTILITIES.
- ALL SIGNAL FACES SHALL HAVE BACKGROUND SHIELDS.
- EACH LUMINAIRE SHALL HAVE A PEC AND CHECK SWITCH.
- SEE SPECIAL PROVISIONS FOR ANOKA COUNTY SERVICE CABINET DETAILS.
- DIRECTIONAL SIGNS SHALL BE REINSTALLED ON MAST ARMS AT POLES 1, 2, AND 3. SEE SPECIAL PROVISIONS.
- ALL NEW HANDHOLES SHALL BE CONCRETE WITH CONCRETE COVERS.
- LOOP DETECTOR WIRES SHALL BE CROSS LINKED POLYETHYLENE (XLP) IN 1" N.M.C. SEE SPECIAL PROVISIONS.
- ALL PEDESTRIAN INDICATIONS SHALL BE 12" X 12".
- HUBS FOR POLE MOUNTED SIGNAL INDICATIONS SHALL BE PROVIDED ON 4 SIDES OF MAST ARM POLES.
- SALVAGE ALL ITEMS OF THIS SIGNAL SYSTEM NOT USED AS PART OF THE FUTURE SIGNAL SYSTEM. FOR EXISTING SIGNAL SYSTEM SEE SHEETS 18 AND 19.
- A 3/4" COUPLING AND 3/4" PIPE NIPPLE AND CAPPED CONDUIT OUTLET BODY SHALL BE FURNISHED AND INSTALLED APPROX. 4' FROM THE END OF THE MAST ARM AT POLES 1,2,3,4 FOR FUTURE EMERGENCY VEHICLE PRE-EMPTION.
- A MID MAST ARM MOUNT SHALL BE FURNISHED AND INSTALLED APPROX. 12' FROM THE END OF THE MAST ARM AT POLES 1 AND 3.

7192



- TYPE A100-A-45-D40-9 (DAVIT AT 350°)
 *A100 POLE FOUNDATION
 *INSTALL SALVAGED ONE WAY SIGNAL OVERHEAD
 *ONE WAY SIGNAL OVERHEAD
 *INSTALL SALVAGED TYPE 10B POLE MOUNTED 270°
 *INSTALL SALVAGE TYPE 10B POLE MOUNTED 180°
 *INSTALL SALVAGED LUMINAIRE (200 WATT H.P.S.)
 *2-PEDESTRIAN PUSH BUTTONS
 EXTEND INTO H.H. 1A:
 *3" R.S.C.
 *2-12/C *20
 *3-3/C *12
 *1-3/C *20
 *2-1/C *10

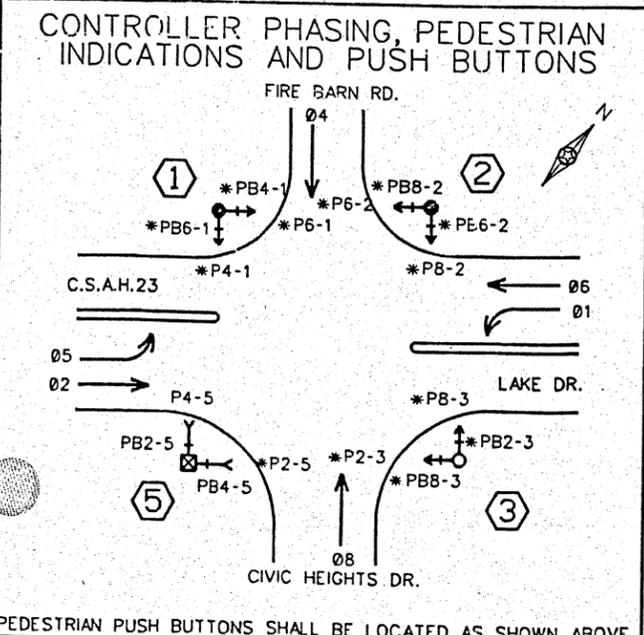
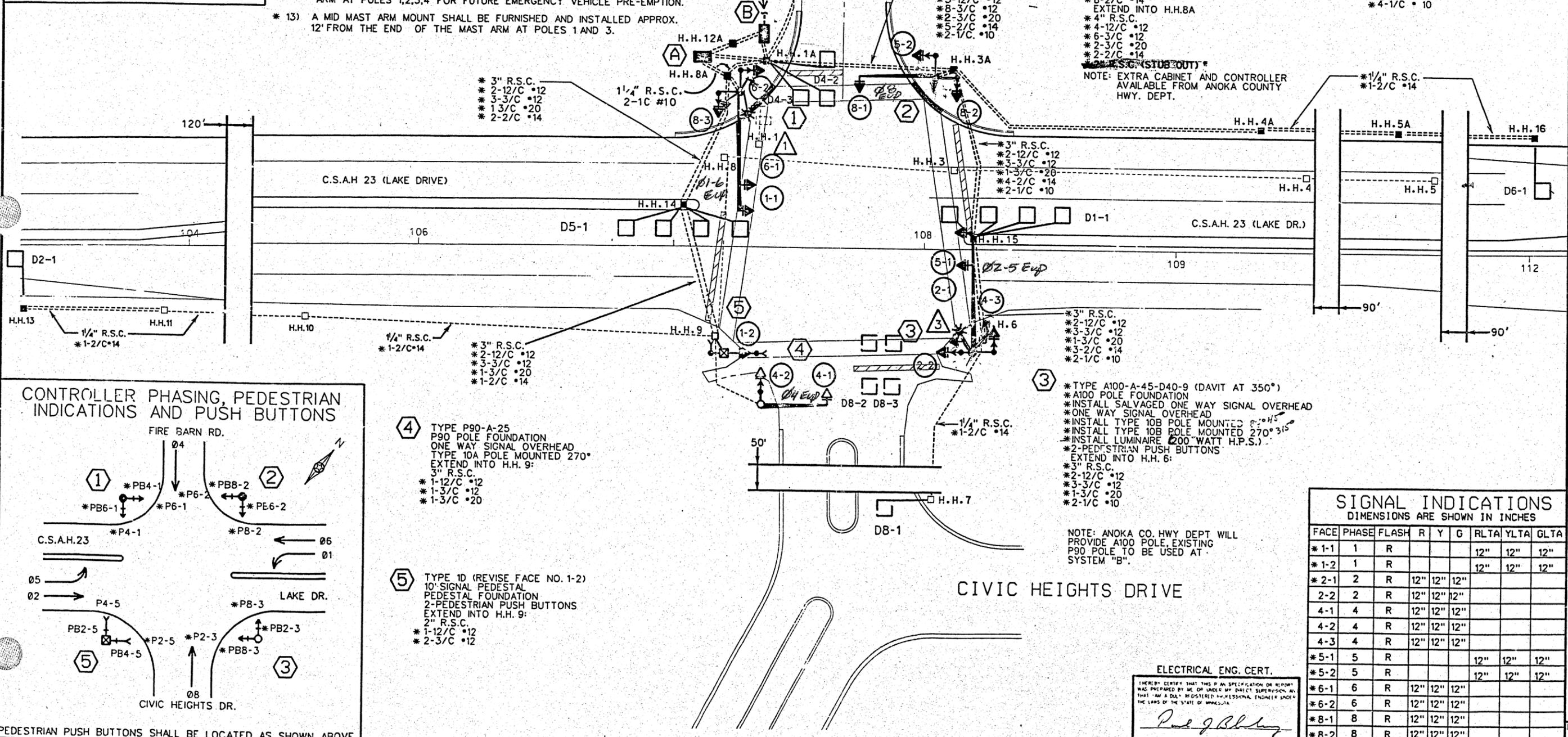
- RELOCATE TYPE P90-A-25 ASSEMBLY
 *P90 POLE FOUNDATION
 EXTEND INTO H.H.3A:
 *3" R.S.C.
 *1-12/C *12
 *5-3/C *12
 *1-3/C *20
 *1-3/C *20

- RELOCATE CONTROLLER AND CABINET ASSEMBLY
 *CABINET FOUNDATION
 EXTEND INTO H.H.12A:
 *METERED SIGNAL SERVICE
 *1/4" R.S.C.
 *3-1/C *6
 EXTEND INTO H.H.1A
 *4" R.S.C.
 *3-12/C *12
 *8-3/C *12
 *2-3/C *20
 *8-2/C *14
 EXTEND INTO H.H.8A
 *4" R.S.C.
 *4-12/C *12
 *6-3/C *12
 *2-3/C *20
 *2-2/C *14

- RELOCATE SERVICE CABINET ASSY.
 *CABINET FOUNDATION
 *STUB OUT 2" R.S.C.
 (FOR SERVICE BY OTHERS)
 EXTEND INTO H.H.12A:
 *METERED SIGNAL SERVICE
 *1/4" R.S.C.
 *3-1/C *6
 EXTEND INTO H.H.1A:
 *UNMETERED STREET LIGHT SERVICE
 *1/4" R.S.C.
 *4-1/C *10

NOTE: ANOKA CO. HWY DEPT WILL PROVIDE A100 POLE, EXISTING P90 POLE TO BE USED AT SYSTEM "B".

NOTE: EXTRA CABINET AND CONTROLLER AVAILABLE FROM ANOKA COUNTY HWY. DEPT.



- TYPE P90-A-25
 P90 POLE FOUNDATION
 ONE WAY SIGNAL OVERHEAD
 TYPE 10A POLE MOUNTED 270°
 EXTEND INTO H.H. 9:
 3" R.S.C.
 *1-12/C *12
 *1-3/C *12
 *1-3/C *20

- TYPE 10 (REVISE FACE NO. 1-2)
 10" SIGNAL PEDESTAL
 PEDESTAL FOUNDATION
 2-PEDESTRIAN PUSH BUTTONS
 EXTEND INTO H.H. 9:
 2" R.S.C.
 *1-12/C *12
 *2-3/C *12

- TYPE A100-A-45-D40-9 (DAVIT AT 350°)
 *A100 POLE FOUNDATION
 *INSTALL SALVAGED ONE WAY SIGNAL OVERHEAD
 *ONE WAY SIGNAL OVERHEAD
 *INSTALL TYPE 10B POLE MOUNTED 270°
 *INSTALL TYPE 10B POLE MOUNTED 315°
 *INSTALL LUMINAIRE (200 WATT H.P.S.)
 *2-PEDESTRIAN PUSH BUTTONS
 EXTEND INTO H.H. 6:
 *3" R.S.C.
 *2-12/C *12
 *3-3/C *12
 *1-3/C *20
 *3-2/C *14
 *2-1/C *10

NOTE: ANOKA CO. HWY DEPT WILL PROVIDE A100 POLE, EXISTING P90 POLE TO BE USED AT SYSTEM "B".

SIGNAL INDICATIONS

DIMENSIONS ARE SHOWN IN INCHES

FACE	PHASE	FLASH	R	Y	G	RLTA	YLTA	GLTA
*1-1	1	R				12"	12"	12"
*1-2	1	R				12"	12"	12"
*2-1	2	R	12"	12"	12"			
2-2	2	R	12"	12"	12"			
4-1	4	R	12"	12"	12"			
4-2	4	R	12"	12"	12"			
4-3	4	R	12"	12"	12"			
*5-1	5	R				12"	12"	12"
*5-2	5	R				12"	12"	12"
*6-1	6	R	12"	12"	12"			
*6-2	6	R	12"	12"	12"			
*8-1	8	R	12"	12"	12"			
*8-2	8	R	12"	12"	12"			
*8-3	8	R	12"	12"	12"			

ELECTRICAL ENG. CERT.
 I HEREBY CERTIFY THAT THIS IS AN SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DAILY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
Paul J. Blahney
 DATE 2-22-91 REG NO. 13719

INTERSECTION LAYOUT "SYSTEM A"

C.S.A.H. 23 (LAKE DR.) AT FIREBARN RD

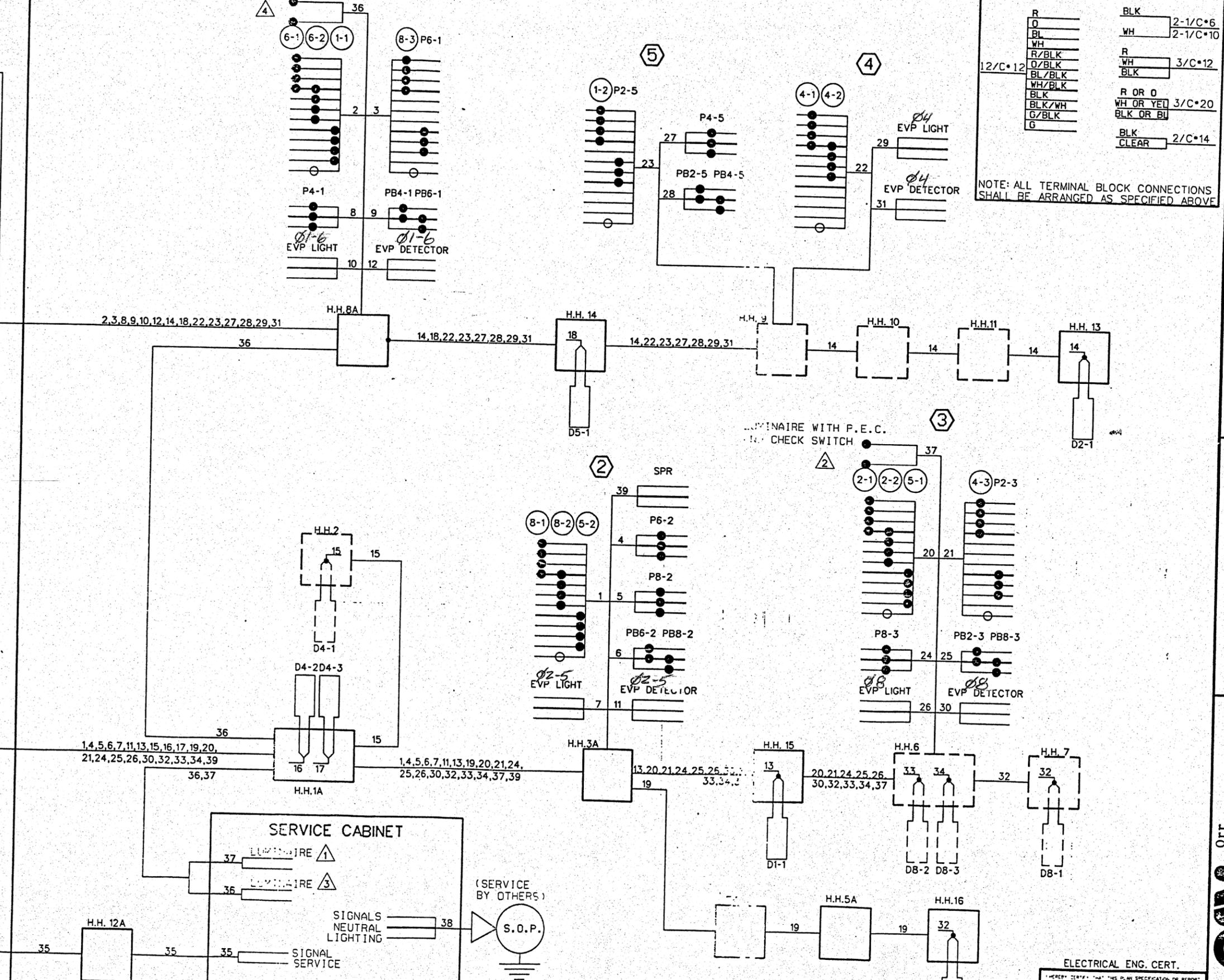
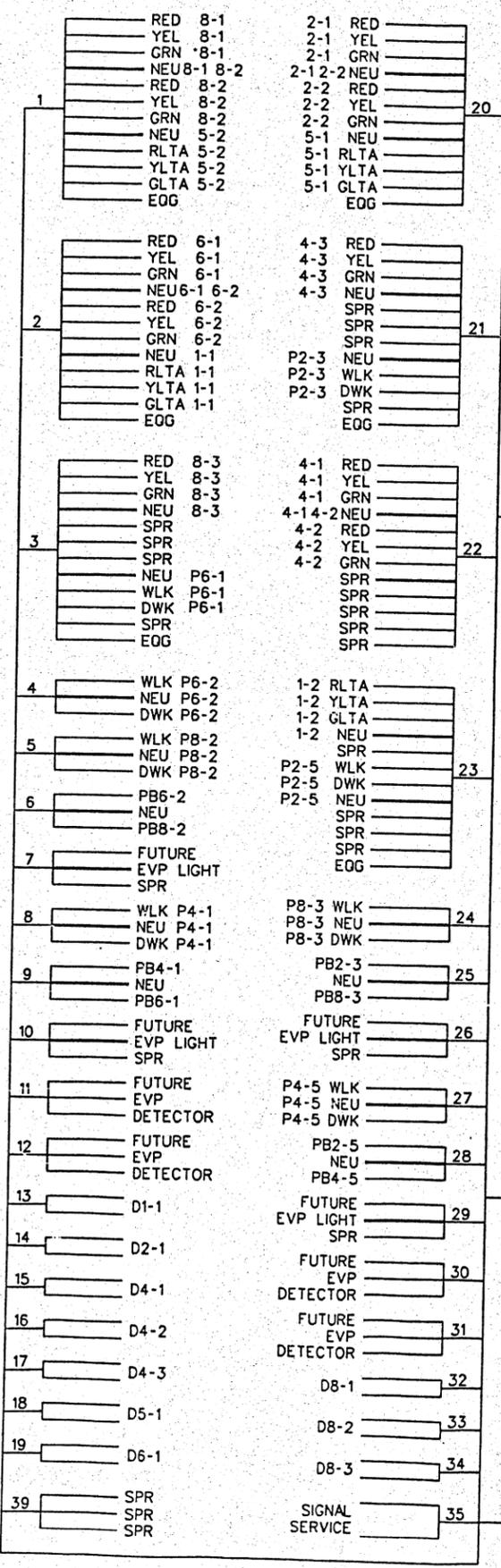
Orr Schellen Mayerson & Inc. Associates, Inc.
 Engineers & Surveyors & Planners
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PLAN NO. 14

CONTROLLER CABINET

LUMINAIRE WITH P.E.C. AND CHECK SWITCH

CONDUCTOR COLOR CODING



R	BLK	2-1/C*6
O	WH	2-1/C*10
BL	R	3/C*12
WH	BLK	
R/BLK	WH OR O	3/C*20
O/BLK	BLK OR BL	
BL/BLK	BLK	2/C*14
WH/BLK	CLEAR	
BLK		
BLK/WH		
G/BLK		
G		

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

SCALE: 1" = 20'-0"

DESIGN BY: JML/MB

CHECKED BY: RB

DATE: 2-22-91

FIELD WIRING DIAGRAM "SYSTEM A"

C.S.A.H. 23 (LAKE DR.) AT FIREBARN ROAD

CSA Orr Schelen Mayeron & Associates, Inc.

Engineers - Surveyors - Planners

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ELECTRICAL ENG. CERT.