

7009

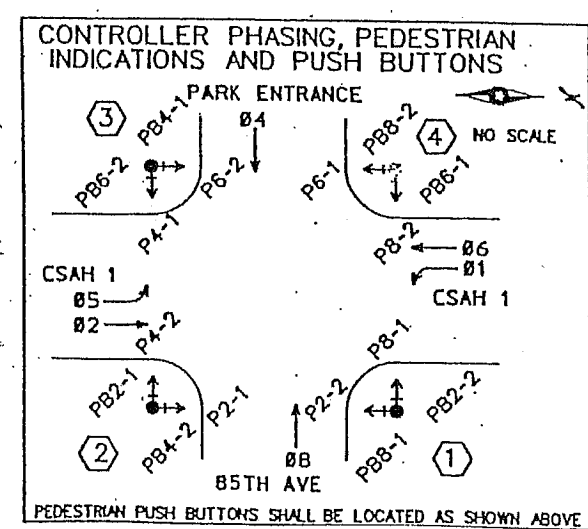
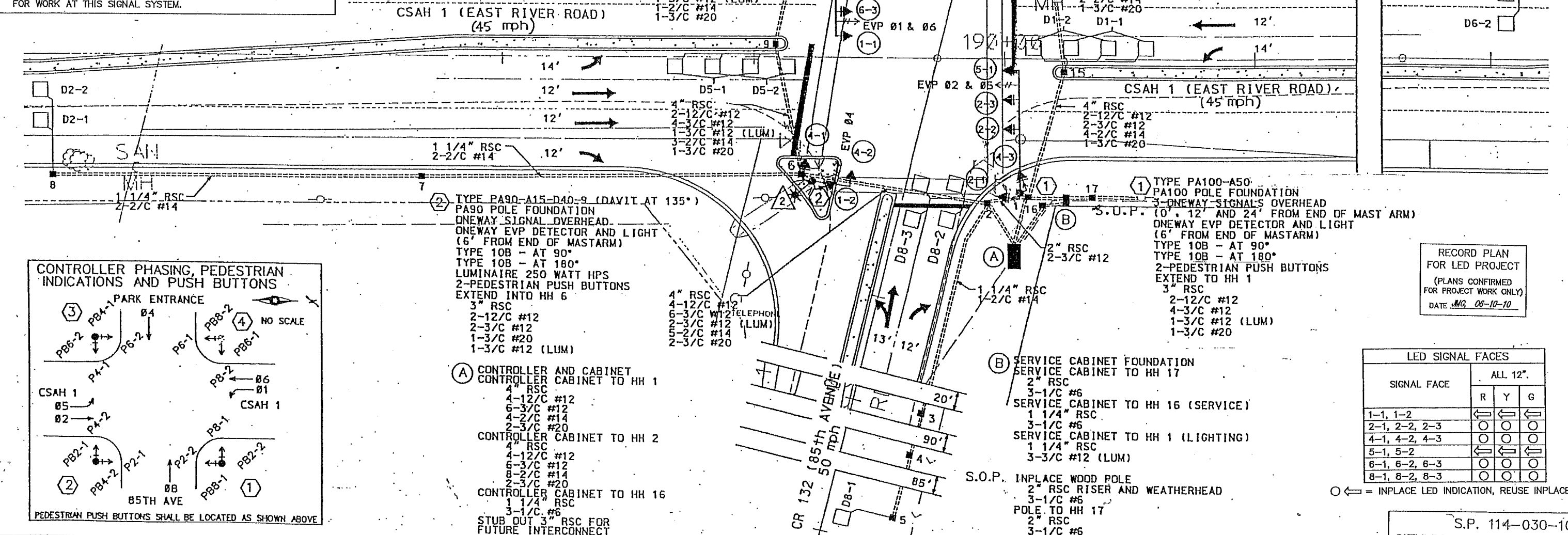
LED RETROFIT-SYSTEM "A" NOTES:

- ALL ITEMS OF SIGNAL SYSTEM ARE INPLACE AND SHALL BE REUSED AND MAINTAINED INPLACE, UNLESS OTHERWISE NOTED ON PLANS.
- CONTRACTOR SHALL REMOVE THE INPLACE 12" x 12" 2-SECTION PEDESTRIAN SIGNAL INDICATIONS AND HOUSINGS, AND SHALL FURNISH AND INSTALL NEW ONE SECTION COUNTDOWN TIMER LED "HAND/WALKING PERSON" PEDESTRIAN SIGNALS (HOUSING, VISOR, LENS) IN THEIR PLACE.
- CONTRACTOR SHALL REMOVE THE INPLACE TYPE 10B BRACKETING ON POLES 1, 2, 3, AND 4 (90° & 180°); SHALL FURNISH & INSTALL NEW TYPE 10B BRACKETING (90° & 180°) IN THEIR PLACE; SHALL SALVAGE, INSTALL, AND MAKE OPERATIONAL SIGNAL HEADS 1-2, 2-1, 4-1, 4-3, 5-2, 6-1, 8-1, AND 8-3; & SHALL INCORPORATE NEW ONE SECTION PEDESTRIAN SIGNALS WITHIN NEW BRACKETINGS. ALL WORK LISTED ABOVE SHALL BE CONSIDERED INCIDENTAL TO THE PEDESTRIAN INDICATION PAY ITEM.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ANY MODIFICATIONS TO INPLACE POLE MOUNTED BRACKETING ON EACH TRAFFIC SIGNAL POLE TO ACCOMMODATE INSTALLATION OF NEW ONE SECTION PEDESTRIAN SIGNAL INDICATIONS (INCLUDING THE REPLACEMENT OF THE POLE MOUNTED BRACKETING IF NEEDED TO ACCOMMODATE EACH PEDESTRIAN SIGNAL INDICATION INSTALLATION) (INCIDENTAL).
- ANY DAMAGE TO INPLACE TRAFFIC SIGNAL POLES OR VEHICLE SIGNAL HEADS DUE TO WORK ON THIS PROJECT SHALL BE REPAIRED BY CONTRACTOR TO THE SATISFACTION OF THE ENGINEER, AT NO EXPENSE TO THE CITY.
- NEW PEDESTRIAN HOUSINGS AND VISORS SHALL BE FABRICATED USING NEW POLYCARBONATE MATERIALS.
- ALL VEHICULAR SIGNAL INDICATIONS ARE LED AND ARE INPLACE (MAINTAIN AND REUSE INPLACE AS SHOWN).
- CONTRACTOR SHALL REMOVE ALL INPLACE PEDESTRIAN PUSH BUTTONS (8 TOTAL), R10-4b STICKER SIGNS, AND "MEANING OF WALK" STICKER SIGNS, & SHALL FURNISH & INSTALL NEW SOLID STATE PED PUSH BUTTONS AND R10-3e SIGNS IN THEIR PLACE.
- CONTRACTOR SHALL MAINTAIN OPERATION OF THE SIGNAL SYSTEM AT ALL TIMES, EXCEPT AS OTHERWISE APPROVED BY THE ENGINEER.
- SEE STATEMENT OF ESTIMATED QUANTITIES FOR BID ITEMS FOR WORK AT THIS SIGNAL SYSTEM.

LOOP DETECTORS			
NUMBER	SIZE	FUNCTION	LOCATION
D1-1	2-6' X 6'	1	20' & 50'
D1-2	2-6' X 6'	1	5' & 35'
D2-1	6' X 6'	1	300'
D2-2	6' X 6'	1	300'
D4-1	2-6' X 6'	1/7	5'
D5-1	2-6' X 6'	1	20' & 50'
D5-2	2-6' X 6'	1	5' & 35'
D6-1	6' X 6'	1	300'
D6-2	6' X 6'	1	300'
D8-1	6' X 6'	3/8	300'
D8-2	2-6' X 6'	7	5'
D8-3	2-6' X 6'	1	5'

LOCATION-DISTANCE FROM STOP LINE TO DETECTOR

- FUNCTIONS:
- CALL AND EXTEND
 - CALL ONLY
 - EXTEND ONLY
 - DLY CALL IMMED EXTEND
 - CARRY OVER



RECORD PLAN
FOR LED PROJECT
(PLANS CONFIRMED
FOR PROJECT WORK ONLY)
DATE 06-10-10

LED SIGNAL FACES				
SIGNAL FACE	ALL 12"			
	R	Y	G	
1-1, 1-2	◀	◀	◀	
2-1, 2-2, 2-3	○	○	○	
4-1, 4-2, 4-3	○	○	○	
5-1, 5-2	◀	◀	◀	
6-1, 6-2, 6-3	○	○	○	
8-1, 8-2, 8-3	○	○	○	

○◀ = INPLACE LED INDICATION, REUSE INPLACE.

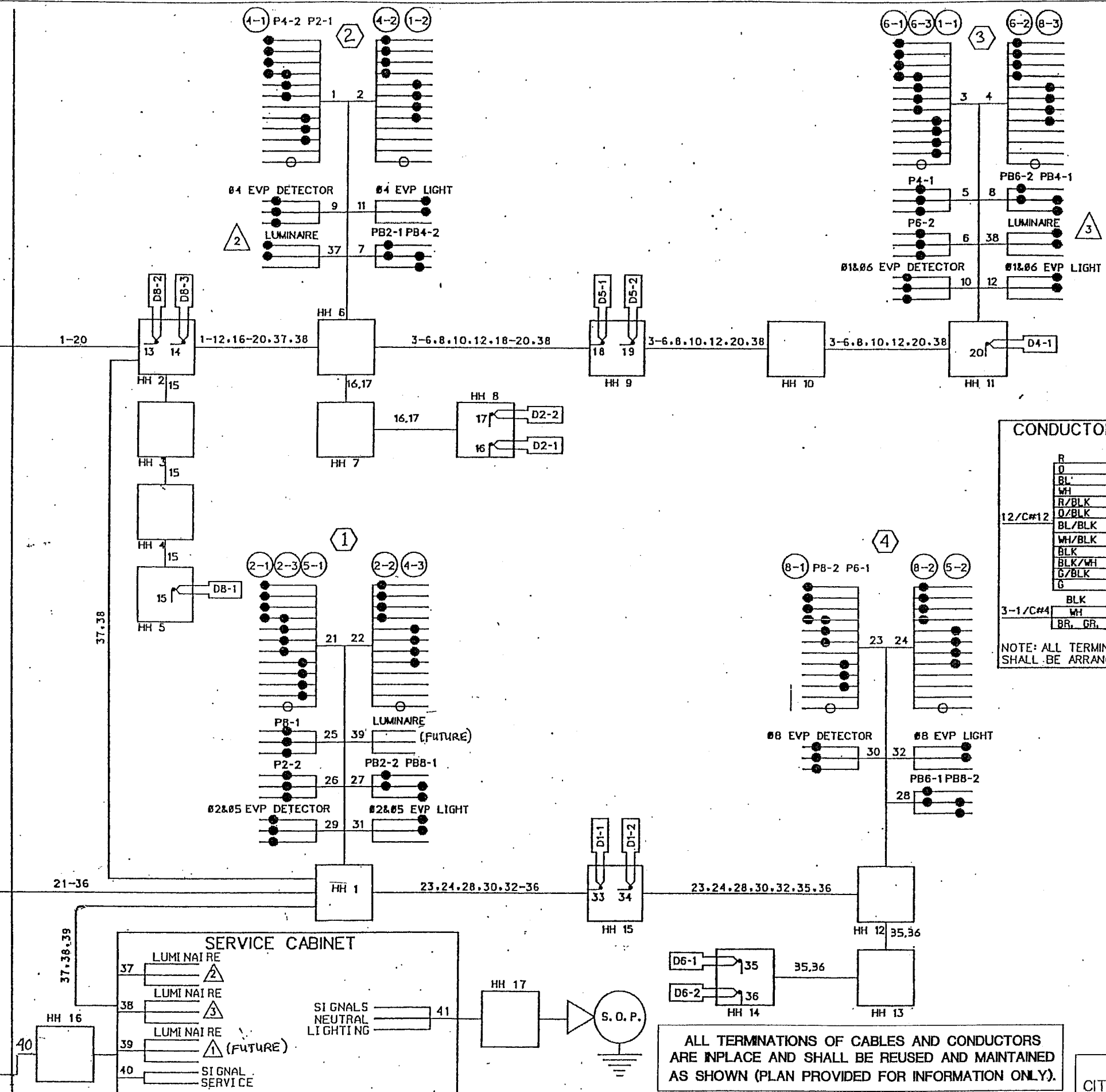
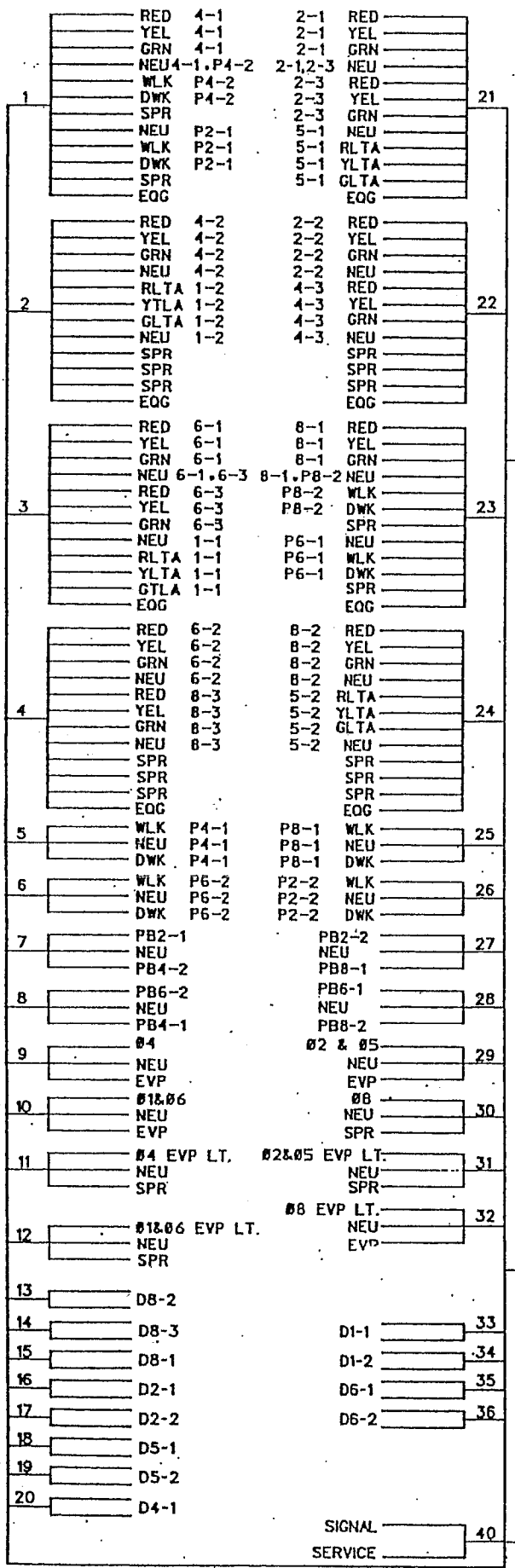
S.P. 114-030-10
CITY PROJECT NO. 09-18

SEE VENDOR COMMON SIGNALS-LED VENDOR BASES.DWG

DRAWN BY: JMG	1	Jmg	6/10	RECORD DRAWING FOR PROJECT	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.	SEH	PHONE: (651) 490-2000 3535 VADNAIS CENTER DR. ST. PAUL, MN 55110	COON RAPIDS, MINNESOTA	LED RETROFIT-SYSTEM "A" INTERSECTION LAYOUT CSAH 1 AT 85TH AVENUE (CR 132)	FILE NO. 107418 DATE 05/18/2009	3 131
DESIGNER: JMG											
CHECKED BY: JMG											
DESIGN TEAM	NO.	BY	DATE	REVISIONS	NAME: John M. Gray, PE LIC. NO. 22457						

1009

CONTROLLER CABINET



CONDUCTOR COLOR CODING			
R	BLK	2-1/C#10	
0	WH		
BL			
R/BLK	R	3/C#12	
0/BLK	WH		
BL/BLK	BLK		
WH/BLK	R OR 0	3/C#20	
BLK/WH	WH OR YEL		
0/BLK	BLK OR BU		
G	BLK	2/C#1	
	CLEAR		
3-1/C#4	WH		
	BR, GR		

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

DRAWN BY: JMG
DESIGNER: JMG
CHECKED BY: JMG
DESIGN TEAM

NO.	BY	DATE	REVISIONS
1	JMG	6/10	RECORD DRAWING FOR PROJECT

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.
Name: John M. Gray, PE
Date: May 18, 2009
Lic. No. 22457

SEH
PHONE: (651) 490-2000
3535 VADNAIS CENTER DR.
ST. PAUL, MN 55110

COON RAPIDS,
MINNESOTA

LED RETROFIT-SYSTEM 'A'
FIELD WIRING DIAGRAM
CSAH 1 AT 85TH AVENUE (CR 132)

FILE NO.
107418
DATE
05/18/2009
4
131

ALL TERMINATIONS OF CABLES AND CONDUCTORS ARE IN PLACE AND SHALL BE REUSED AND MAINTAINED AS SHOWN (PLAN PROVIDED FOR INFORMATION ONLY).