

T38055L

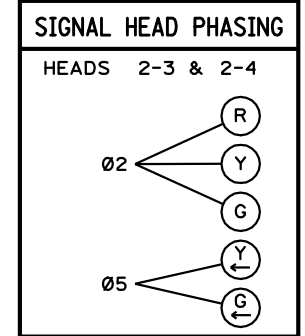
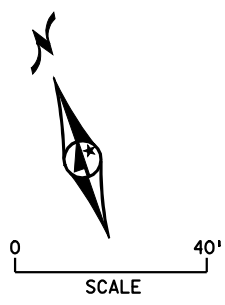
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PLOTTED: 01-JUN-2009 13:10

LOOP DETECTOR CHART

| NUMBER | SIZE (FT) | LOCATION | TYPE |
|-----------|--------------------|-----------|------|
| D2-1,D2-2 | 2-6X6 | 300'x150' | NMC |
| D4-1 | 1-6X6 | 300' | NMC |
| D4-2 | 1-EACH 6X6 6X10 | 5'x20' | NMC |
| D4-3 | 2-6X6 | 5'x20' | NMC |
| D5-1 | 2-6X6 | 20'x50' | NMC |
| D5-2 | 2-6X6 | 5'x35' | NMC |
| D6-1,D6-2 | 2-6X6 | 300'x150' | NMC |

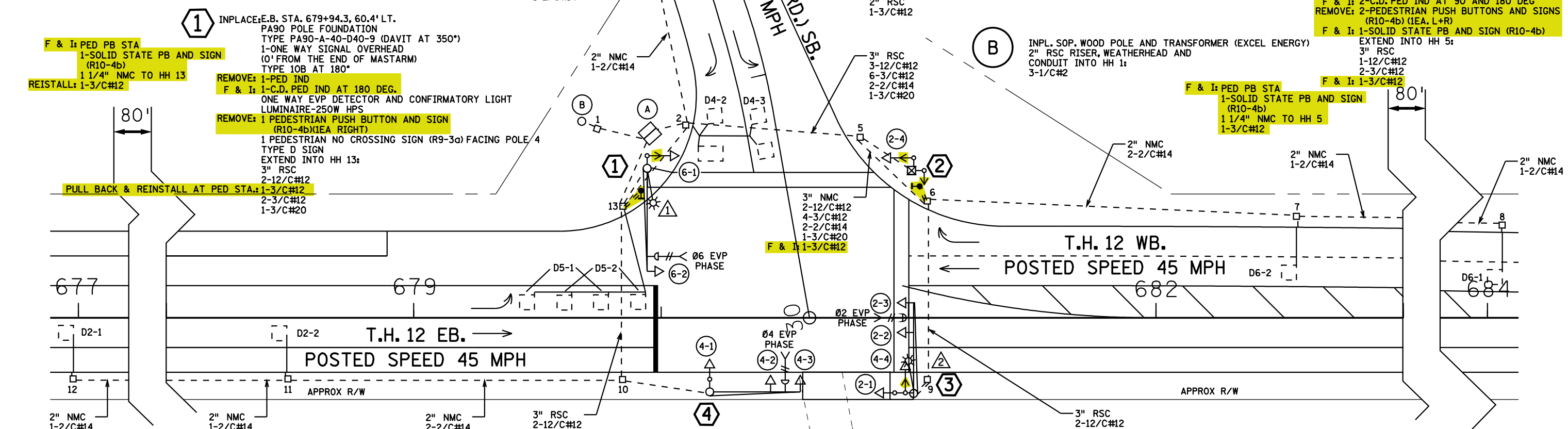
-ALL LOOPS DETECTORS SHALL BE NMC UNLESS NOTED OTHERWISE.
-LOCATION: DISTANCE FROM CROSSWALK/STOP BAR IN FEET.



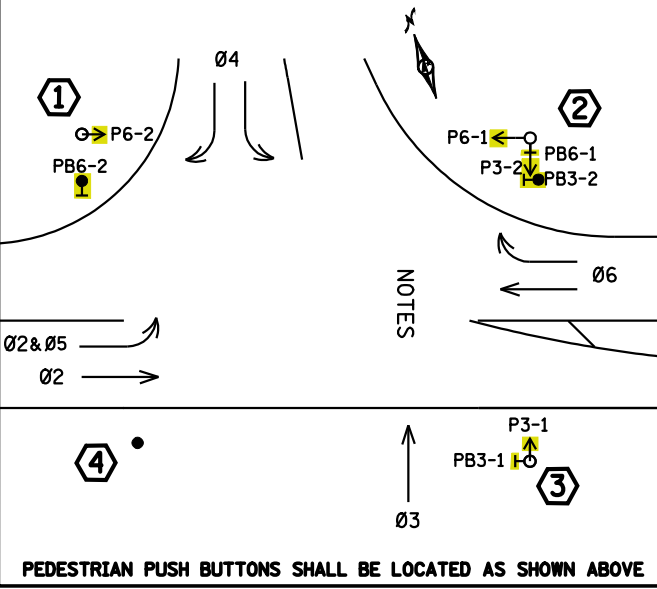
SIGNAL FACES

| FACE | R | Y | G | Y | G |
|---------|---|---|---|---|---|
| 2-1,2-2 | ● | ● | ● | | |
| 4-1,4-2 | ● | | | → | → |
| 4-3,4-4 | ● | ● | ● | | |
| 2-3,2-4 | ● | ● | ● | ← | ← |
| 6-1,6-2 | ● | ● | ● | | |

-ALL SIGNAL INDICATIONS SHALL BE 12"
-ALL SIGNAL INDICATIONS SHALL BE LED
-ALL SIGNAL FACES SHALL HAVE A BACKGROUND SHIELD



CONTROLLER PHASING, PEDESTRIAN INDICATIONS AND PUSH BUTTONS



1 INPLACE: E.B. STA. 679+94.3, 60.4' LT. PA90 POLE FOUNDATION TYPE PA90-A-40-D40-9 (DAVIT AT 350°) 1-ONE WAY SIGNAL OVERHEAD (0' FROM THE END OF MASTARM) TYPE 10B AT 180°
 REMOVE: 1-PED IND
 F & I: 1-C.D. PED IND AT 180 DEG.
 ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT LUMINAIRE-250W HPS
 REMOVE: 1 PEDESTRIAN PUSH BUTTON AND SIGN (R10-4b)(IEA RIGHT)
 1 PEDESTRIAN NO CROSSING SIGN (R9-3a) FACING POLE 4
 TYPE D SIGN
 EXTEND INTO HH 13:
 3" RSC
 2-12/C#12
 2-3/C#12
 1-3/C#20
 PULL BACK & REINSTALL AT PED STA.: 1-3/C#12
 2-3/C#12
 1-3/C#20

4 E.B. STA. 680+19.7, 29.9' RT PA90 POLE FOUNDATION TYPE PA90-A-35 2-ONE WAY SIGNALS OVERHEAD (0',11' FROM END OF MASTARM) TYPE 10A AT 270° ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT 1-PEDESTRIAN NO CROSSING SIGN (R9-3a) FACING POLE 1 TYPE D SIGN EXTEND INTO HH 10:
 3" RSC
 2-12/C#12
 2-3/C#12
 1-3/C#20
 NOTES:
 1. F & I NEW PEDESTRIAN PEDESTAL PUSH BUTTON STATION AT POLE 1 (10 FEET SOUTH WEST OF POLE) AND POLE 2 (10 FEET SOUTH OF POLE).
 2. MOVE PUSH BUTTON 6-2 FROM POLE TO PED PUSH BUTTON.
 3. MOVE PUSH BUTTON 3-2 FROM POLE TO PED PUSH BUTTON.
 4. FURNISH AND RETROFIT ALL EXISTING PED HEADS WITH COUNT DOWN PEDESTRIAN INDICATIONS.
 5. FURNISH AND REPLACE ALL PEDESTRIAN PUSH BUTTONS WITH SOLID STATE PUSH BUTTONS

SIGNAL SYSTEM OPERATION

- THE SIGNAL SYSTEM FLASH MODE IS ALL RED.
 - NORMAL OPERATION IS 5 PHASE, WITH PHASE 5 BEING A PROTECTED/PERMISSIVE LEFT TURN PHASE PHASE 3 PEDESTRIANS ONLY

3 E.B. STA. 681+02, 30.6' RT. PA90 POLE FOUNDATION TYPE PA90-A-35-D40-9 (DAVIT AT 350°) 2-ONE WAY SIGNAL OVERHEAD (0',11' FROM END OF MASTARM) TYPE 20B AT 270°
 REMOVE: 1-PED IND
 F & I: 1-C.D. PED IND AT 270 DEG.
 ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT LUMINAIRE-250W HPS
 REMOVE: 1-PEDESTRIAN PUSH BUTTON AND SIGN (R10-4b)(IEA LEFT)
 F & I: 1-SOLID STATE PB AND SIGN (R10-4b)
 1-SIGN R10-12 (36" X 48") MOUNTED 1' FROM END OF MAST ARM
 TYPE D SIGN
 EXTEND INTO HH 9:
 3" RSC
 2-12/C#12
 4-3/C#12
 1-3/C#20

4 E.B. STA. 680+19.7, 29.9' RT PA90 POLE FOUNDATION TYPE PA90-A-35 2-ONE WAY SIGNALS OVERHEAD (0',11' FROM END OF MASTARM) TYPE 10A AT 270° ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT 1-PEDESTRIAN NO CROSSING SIGN (R9-3a) FACING POLE 1 TYPE D SIGN EXTEND INTO HH 10:
 3" RSC
 2-12/C#12
 2-3/C#12
 1-3/C#20

4 E.B. STA. 680+19.7, 29.9' RT PA90 POLE FOUNDATION TYPE PA90-A-35 2-ONE WAY SIGNALS OVERHEAD (0',11' FROM END OF MASTARM) TYPE 10A AT 270° ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT 1-PEDESTRIAN NO CROSSING SIGN (R9-3a) FACING POLE 1 TYPE D SIGN EXTEND INTO HH 10:
 3" RSC
 2-12/C#12
 2-3/C#12
 1-3/C#20

- ### NOTES:
- SEE SPECIAL PROVISIONS FOR STATE FURNISHED MATERIALS, LED PEDESTRIAN INDICATIONS, LED VEHICLE INDICATIONS AND PAINTING OF SIGNAL SYSTEM..
 - THE EXACT LOCATION OF HANDHOLES, POLES, LOOP DETECTORS AND EQUIPMENT PAD SHALL BE DETERMINED IN THE FIELD BY MNDOT TRAFFIC OFFICE PERSONNEL.
 - A 3/4" HALF COUPLING, 3/4" PIPE NIPPLE AND CONDUIT OUTLET BODY FOR EMERGENCY VEHICLE PREEMPTION EQUIPMENT SHALL BE F & I 6' FROM THE END OF EACH MAST ARM.
 - MAST ARM SIGNS ARE INCIDENTAL TO SIGNAL PAY ITEM.
 - SEE STRIPING PLAN FOR PAVEMENT MARKINGS (TO BE PAID SEPERATELY)
 - SEE CONSTRUCTION PLAN FOR PEDESTRIAN LANDINGS (TO BE PAID SEPERATELY)
 - THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE POWER COMPANY TO ARRANGE FOR THE POWER CONNECTION.
 - THE CONTRACTOR SHALL LOCATE AND VERIFY INPLACE UTILITIES PRIOR TO COMMENCING WORK.

| | | | |
|----------------------------|--------------------------|-------------------------|---------------|
| DRAWN BY: SJK | REVISED BY: JDP 01-10-07 | REVISED BY: BAM 5-28-09 | AS BUILT BY: |
| CKD BY: MPG | CKD BY: DATE: | CKD BY: CDB | CKD BY: DATE: |
| DATE: 12/10/04 | DATE: | DATE: | DATE: |
| SYSTEM ID: 38055 | T.E. 3138 | | |
| METER ADDRESS: 4802 HWY 12 | T.E. (MASTER) | | |
| MASTER ID: | S.A.P. NO. 27-629-001 | | |

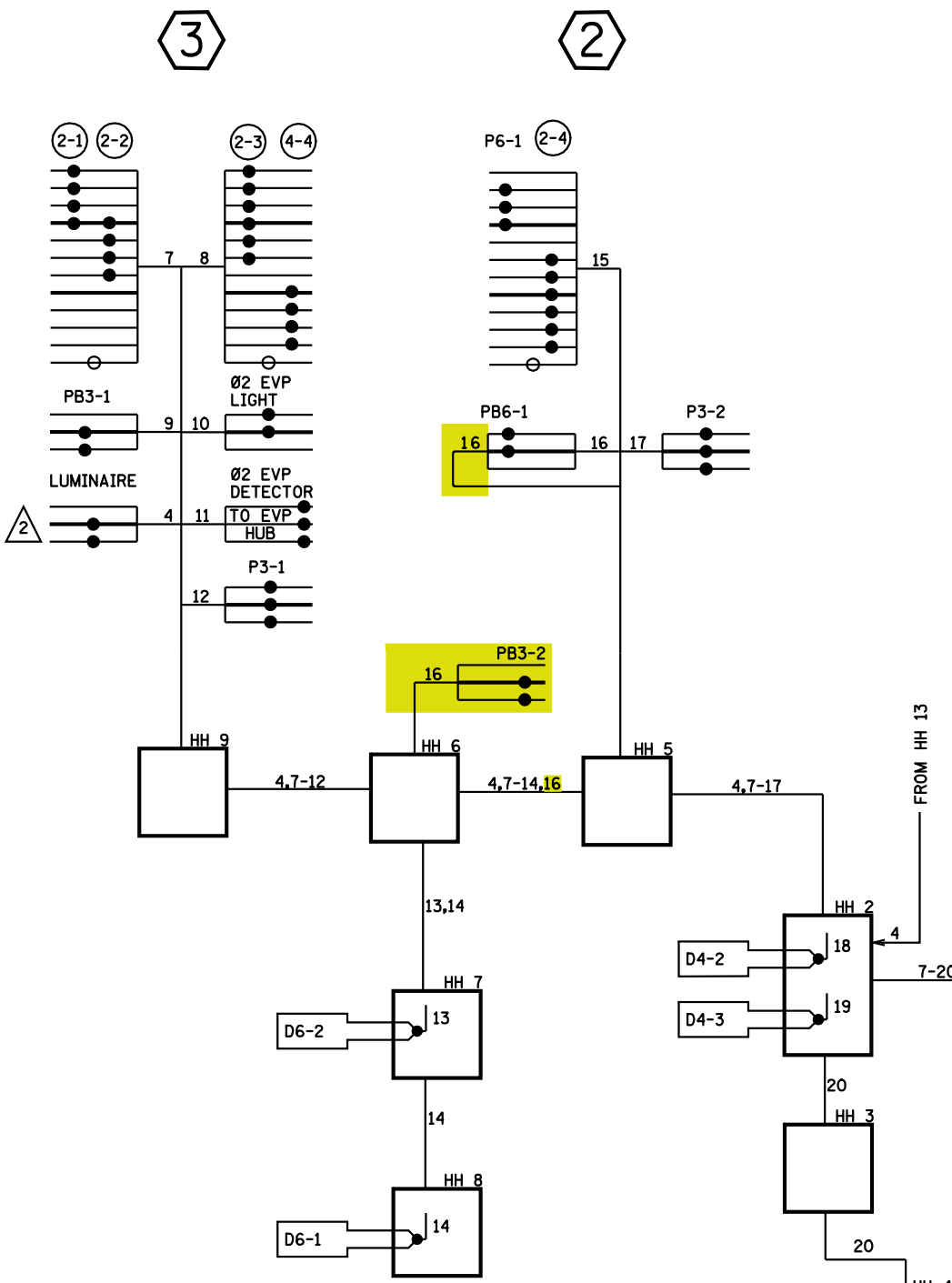
INTERSECTION LAYOUT

TRAFFIC CONTROL SIGNAL SYSTEM

TH 12 AT CSAH 29 (BAKER PARK RD.)

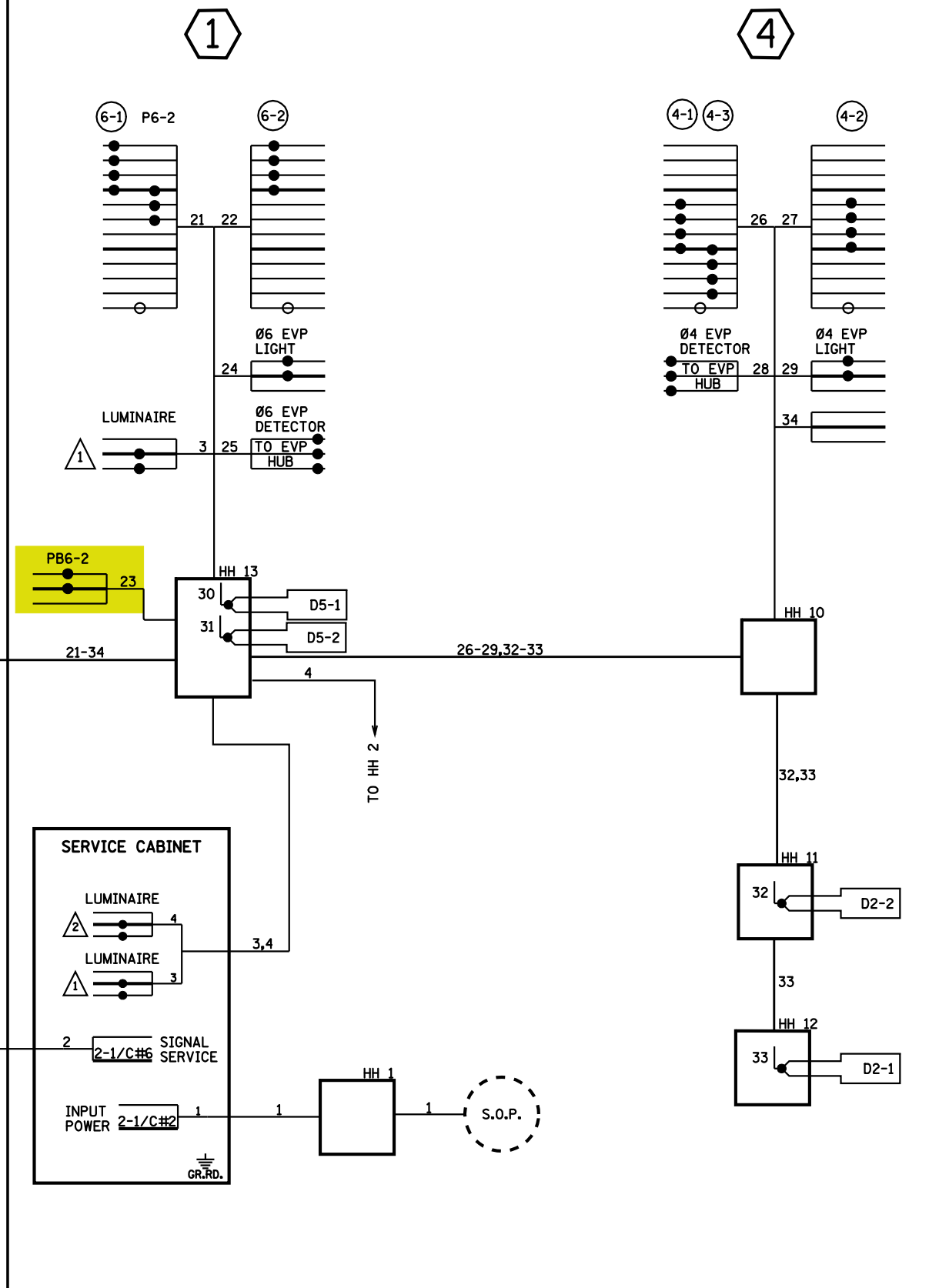
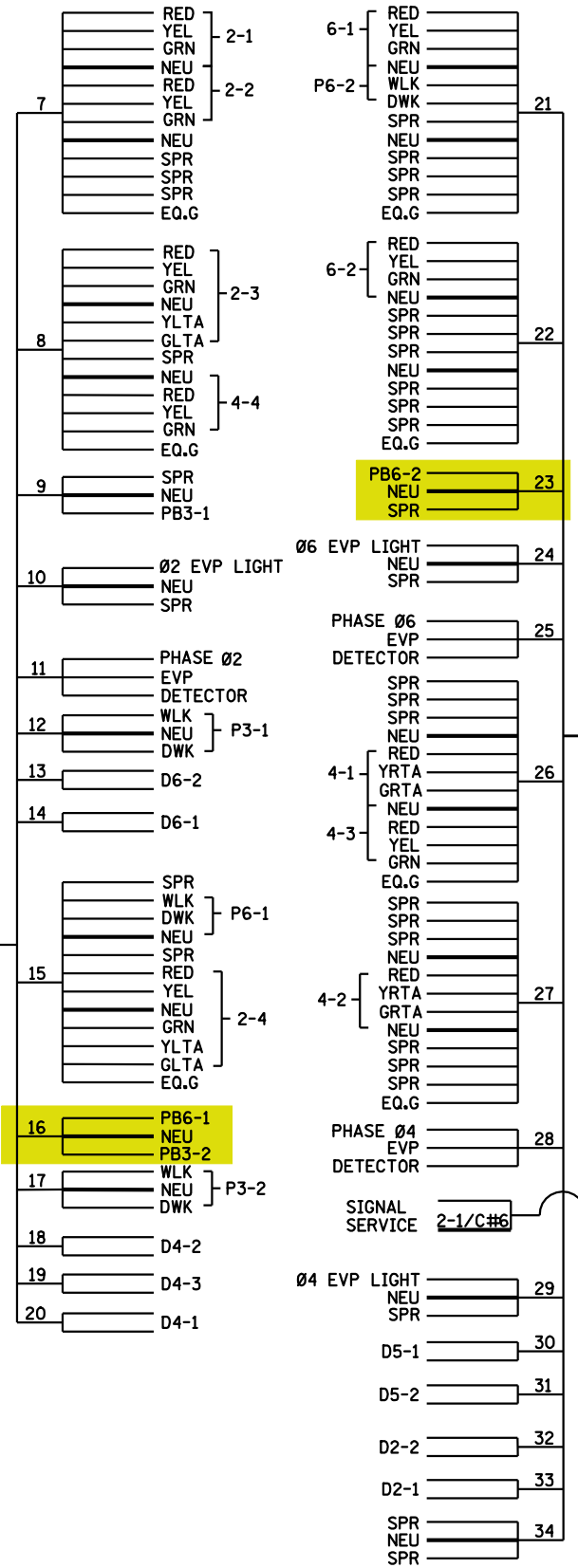
IN MAPLE PLAIN/MEDINA, HENNEPIN COUNTY

CONTROLLER CABINET



| CONDUCTOR COLOR CODE | |
|--------------------------------------------|----------------------------------------------------------------------------------------------------|
| TO SIGNAL CABINET | TO DEVICE |
| 3/C#20 R OR O WH OR YEL BLK OR BL | 12/C#12 R O BL WH R/BLK O/BLK BL/BLK WH/BLK BLK BLK/WH G/BLK G |
| 2/C#14 BLK CLR | BASE OF POLE OR PEDESTAL |
| 2-1/C BLK WH | 5/C#14 R O BL WH BLK |
| 6PR#19 | 4/C#14 R BL WH BLK |
| | 3/C#12 R WH BLK |
| | 2/C#14 BLK WH |
| | 7/C#14 CABLE Y BLK BRN |
| | 5-SECTION SIGNAL INDICATION |
| | 3 & 4- SECTION SIGNAL INDICATION |
| | 4/C#14 CABLE WH BLK |
| | PEDESTRIAN INDICATION |
| | 2/C#14 CABLE BLK WH |
| | EVP/PB/FLASHER NEU |

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



| | | | |
|-----------------------------------|-----------------------------|----------------------------|------------------|
| DRAWN BY SJK: | REVISED BY: JDP 01-10-07 | REVISED BY: | AS BUILT BY: |
| CKD BY: MPG DATE: 12/10/04 | CKD BY: DATE: | CKD BY: DATE: | CKD BY: DATE: |
| SYSTEM ID: 38055 | | T.E. 3138 | |
| METER ADDRESS: 4802 HWY 12 | | T.E. (MASTER) | |
| MASTER ID: | | S.A.P. NO. 27-629-001 | |
| CERTIFIED BY _____ | | LIC. NO. 19863 | |
| STATE PROJ. NO. 2713-77 (T.H. 12) | | DATE: _____ | |
| | | SHEET NO. 95 OF 131 SHEETS | |

WIRING DIAGRAM
TRAFFIC CONTROL SIGNAL SYSTEM
TH 12 AT CSAH 29 (BAKER PARK RD.)
IN MAPLE PLAIN /MEDINA, HENNEPIN COUNTY