

PLOTTED/REVISED: 10/23/2015

DISTRICT #: METRO
IFLOT NAME: LAYOUT
PATH & FILENAME: IP_PWP-d0779940YT21036_sgl.dgn

WOOD POLE (S.O.P.)
(XCEL ENERGY)
2" PVC RISER AND WEATHERHEAD
3-1/c#2
EXTEND INTO H.H.18:
2" PVC
3-1/c#2

4" PVC
3-12/c#14
1-3/c#14
9-2/c#14
1-3/c#20
1-3/c#14 (LUM)
1-6 Pr.#19 (ABANDONED)

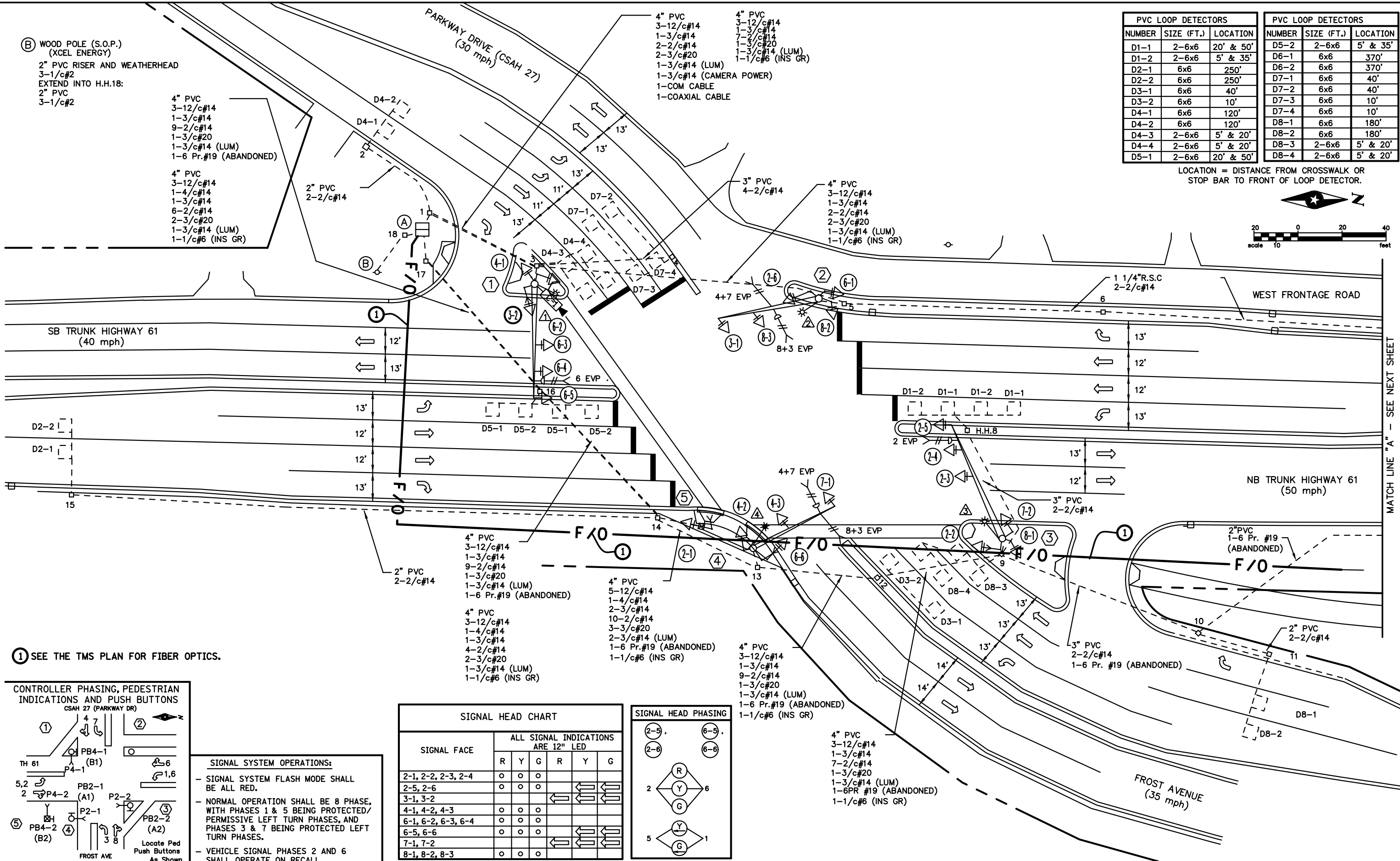
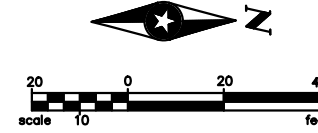
4" PVC
3-12/c#14
1-4/c#14
1-3/c#14
6-2/c#14
2-3/c#20
1-3/c#14 (LUM)
1-1/c#6 (INS GR)

4" PVC
3-12/c#14
1-3/c#14
2-2/c#14
2-3/c#20
1-3/c#14 (LUM)
1-3/c#14 (CAMERA POWER)
1-COM CABLE
1-COAXIAL CABLE

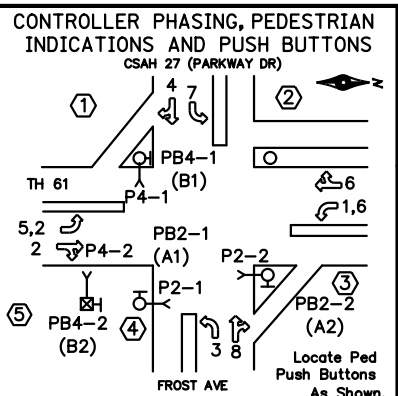
4" PVC
3-12/c#14
1-3/c#14
2-2/c#14
2-3/c#20
1-3/c#14 (LUM)
1-1/c#6 (INS GR)

| PVC LOOP DETECTORS | | | PVC LOOP DETECTORS | | |
|--------------------|------------|-----------|--------------------|------------|----------|
| NUMBER | SIZE (FT.) | LOCATION | NUMBER | SIZE (FT.) | LOCATION |
| D1-1 | 2-6x6 | 20' & 50' | D5-2 | 2-6x6 | 5' & 35' |
| D1-2 | 2-6x6 | 5' & 35' | D6-1 | 6x6 | 370' |
| D2-1 | 6x6 | 250' | D6-2 | 6x6 | 370' |
| D2-2 | 6x6 | 250' | D7-1 | 6x6 | 40' |
| D3-1 | 6x6 | 40' | D7-2 | 6x6 | 40' |
| D3-2 | 6x6 | 10' | D7-3 | 6x6 | 10' |
| D4-1 | 6x6 | 120' | D7-4 | 6x6 | 10' |
| D4-2 | 6x6 | 120' | D8-1 | 6x6 | 180' |
| D4-3 | 2-6x6 | 5' & 20' | D8-2 | 6x6 | 180' |
| D4-4 | 2-6x6 | 5' & 20' | D8-3 | 2-6x6 | 5' & 20' |
| D5-1 | 2-6x6 | 20' & 50' | D8-4 | 2-6x6 | 5' & 20' |

LOCATION = DISTANCE FROM CROSSWALK OR STOP BAR TO FRONT OF LOOP DETECTOR.



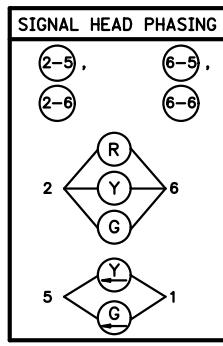
SEE THE TMS PLAN FOR FIBER OPTICS.



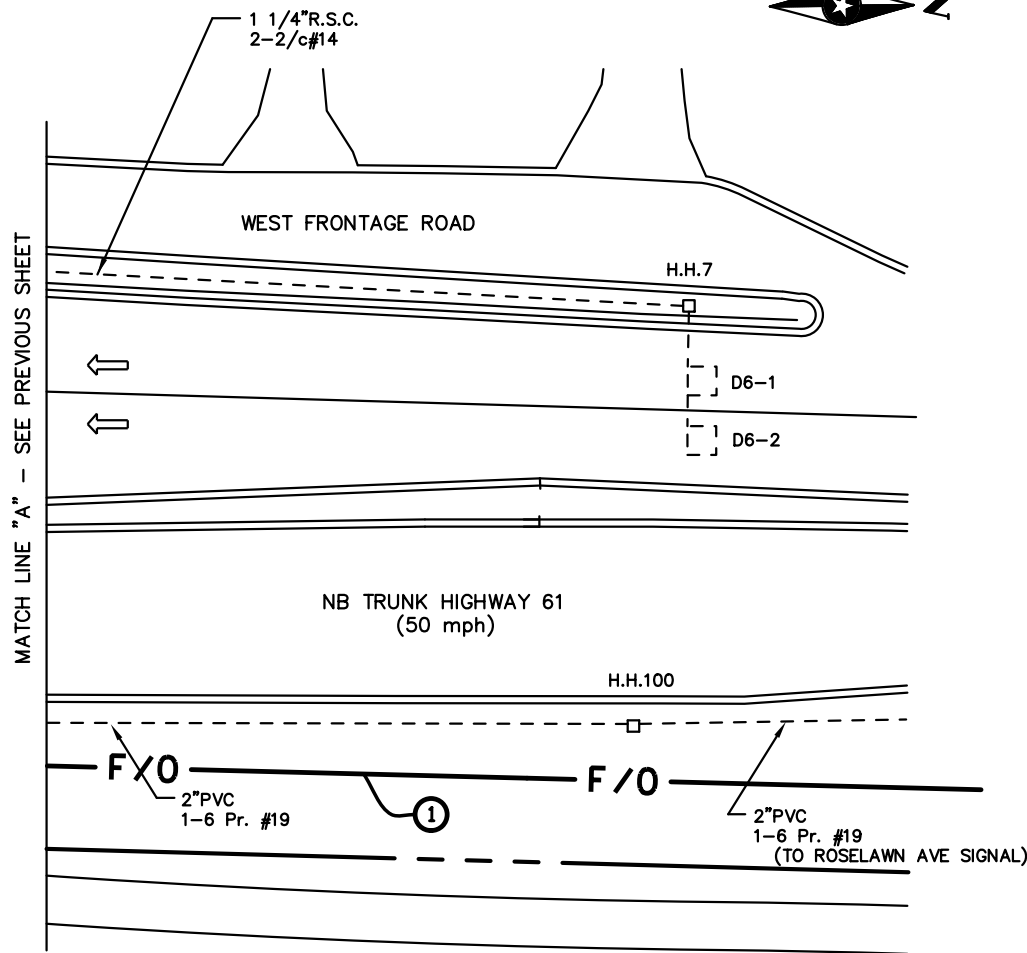
SIGNAL SYSTEM OPERATIONS:

- SIGNAL SYSTEM FLASH MODE SHALL BE ALL RED.
- NORMAL OPERATION SHALL BE 8 PHASE, WITH PHASES 1 & 5 BEING PROTECTED/PERMISSIVE LEFT TURN PHASES, AND PHASES 3 & 7 BEING PROTECTED LEFT TURN PHASES.
- VEHICLE SIGNAL PHASES 2 AND 6 SHALL OPERATE ON RECALL.

| SIGNAL FACE | ALL SIGNAL INDICATIONS ARE 12" LED | | | | | |
|--------------------|------------------------------------|---|---|---|---|---|
| | R | Y | G | R | Y | G |
| 2-1, 2-2, 2-3, 2-4 | o | o | o | | | |
| 2-5, 2-6 | o | o | o | | | |
| 3-1, 3-2 | | | | ← | ← | ← |
| 4-1, 4-2, 4-3 | o | o | o | | | |
| 6-1, 6-2, 6-3, 6-4 | o | o | o | | | |
| 6-5, 6-6 | o | o | o | | | |
| 7-1, 7-2 | | | | ← | ← | ← |
| 8-1, 8-2, 8-3 | o | o | o | | | |



| | | | | | | | | | |
|---------|----------------|---|-----------------------------------|------|---|------------------|---------------|-------------|----------------|
| BY: EJA | DATE: 10-23-15 | REVISIONS: AS-BUILT OF SP 6222-168 FIBER & CAMERA | SYSTEM ID: 21036 | T.E. | INTERSECTION LAYOUT | S.A.P. NO. | DRAWN BY: SJK | CKD BY: EJA | DATE: 06-14-12 |
| | | | METER ADDRESS: 1751 ARCADE STREET | | TH 61 AT CSAH 27 (PARKWAY DR)/FROST AVE | CERTIFIED BY: | | LIC. NO.: | DATE: |
| | | | MASTER ID: | T.E. | MAPLEWOOD, RAMSEY COUNTY | STATE PROJ. NO.: | (T.H.61) | SHEET NO.: | 1 OF 3 SHEETS |



MATCH LINE "A" - SEE PREVIOUS SHEET

- (A) EQUIPMENT PAD - SEE DETAILS**
 CONTROLLER AND CABINET
 SIGNAL SERVICE CABINET
 CONTROLLER CABINET TO H.H.1:
 4" PVC 4" PVC
 3-12/c#14 3-12/c#14
 1-3/c#14 1-3/c#14
 9-2/c#14 2-2/c#14
 1-3/c#20 2-3/c#20
 1-1/c#6 (INS GR)
 1-3/c#14 (CAMERA POWER)
 1-COM CABLE
 1-COAXIAL CABLE

(1) SEE THE TMS PLAN FOR FIBER OPTICS.

- SERVICE CABINET TO H.H.1:
 2" PVC
 2-3/c#14 (LUM)
- SERVICE CABINET TO H.H.17:
 2" PVC
 2-3/c#14 (LUM)
- BETWEEN SERVICE CABINET
 AND CONTROLLER CABINET:
 2" PVC
 3-1/c#6
- SERVICE CABINET TO H.H.18:
 2" PVC
 3-1/c#2
 2-3" PVC STUBOUTS FROM
 CONTROLLER CABINET TO
 THE EAST (CAPPED
 FOR FUTURE USE)

- CONTROLLER CABINET TO TMS PULL VAULT
 1.5" PVC INSIDE EXISTING 3" PVC:
 1-6SM FIBER OPTIC

- CONTROLLER CABINET TO H.H.17:
 4" PVC 4" PVC
 3-12/c#14 3-12/c#14
 1-4/c#14 1-3/c#14
 1-3/c#14 9-2/c#14
 6-2/c#14 1-3/c#20
 2-3/c#20 1-6 Pr.#19 (ABANDONED)
 1-1/c#6 (INS GR)

- (1) PA100 POLE FOUNDATION**
 TYPE PA100-A-50-X6-350/CAM 400 EXTENSION (MOUNTED AT 350 DEG)
 LUMINAIRE-250 W HPS
 VIDEO CAMERA
 3-ONE WAY SIGNALS-OVERHEAD (0', 11' AND 23'
 FROM END OF MAST ARM)
 3-ONE WAY SIGNALS AT 45, 135, AND 225 DEG
 CD PED HEAD AT 45 DEG
 APS PB & SIGN (LT ARROW) PB4-1
 R9-3 SIGN (FACING POLE 2)
 R10-12 SIGN PANEL-ADJACENT TO HEAD 6-5
 TYPE D SIGN
 ONE WAY EVP DETECTOR AND LIGHT (PHASE 6)
 EXTEND INTO H.H.3:
 3" PVC
 3-12/c#14
 1-3/c#14
 1-2/c#14
 1-3/c#20
 1-3/c#14 (LUM)
 2-1/c#6 (INS GR)
 1-7/16" GROUNDING BRAID TO GROUND ROD IN H.H.3
 1-3/c#14 (CAMERA POWER)
 1-COM CABLE
 1-COAXIAL CABLE

- (4) PA100 POLE FOUNDATION**
 TYPE PA100-A-40-D40-9 (DAVIT AT 350 DEG)
 LUMINAIRE-250 W HPS
 2-ONE WAY SIGNALS-OVERHEAD (0' AND 23'
 FROM END OF MAST ARM)
 2-ONE WAY SIGNALS AT 45 AND 225 DEG
 CD PED HEAD AT 45 DEG
 APS PUSH BUTTON & SIGN (LT ARROW) PB2-1
 TYPE D SIGN
 ONE WAY EVP DETECTOR AND LIGHT (PHASES 4+7)
 ONE WAY EVP DETECTOR ONLY (PHASES 8+3)
 EXTEND INTO H.H.13:
 3" PVC
 2-12/c#14
 1-4/c#14
 1-3/c#14
 1-2/c#14
 2-3/c#20
 1-3/c#14 (LUM)
 2-1/c#6 (INS GR)

- (2) PA100 POLE FOUNDATION**
 TYPE PA100-A-45-D40-9 (DAVIT AT 350 DEG)
 LUMINAIRE-250 W HPS
 2-ONE WAY SIGNALS-OVERHEAD (0' AND 17'
 FROM END OF MAST ARM)
 3-ONE WAY SIGNALS AT 45, 135, AND 225 DEG
 2-R9-3 SIGNS (FACING POLES 1 & 3)
 TYPE D SIGN
 ONE WAY EVP DETECTOR ONLY (PHASES 4+7)
 ONE WAY EVP DETECTOR AND LIGHT (PHASES 8+3)
 EXTEND INTO H.H.5:
 3" PVC
 3-12/c#14
 1-3/c#14
 2-3/c#20
 1-3/c#14 (LUM)
 1-1/c#6 (INS GR)

- (3) PA100 POLE FOUNDATION**
 TYPE PA100-A-55-D40-9 (DAVIT AT 350 DEG)
 LUMINAIRE-250 W HPS
 3-ONE WAY SIGNALS-OVERHEAD (0', 12' AND 24'
 FROM END OF MAST ARM)
 3-ONE WAY SIGNALS AT 45, 135, AND 225 DEG
 CD PED HEAD AT 225 DEG
 APS PB & SIGN (LT ARROW) PB2-2
 R9-3 (FACING POLE 2)
 R10-12 SIGN PANEL-ADJACENT TO 2-5
 TYPE D SIGN
 ONE WAY EVP DETECTOR AND LIGHT (PHASE 2)
 EXTEND INTO H.H.9:
 3" PVC
 3-12/c#14
 1-3/c#14
 1-2/c#14
 1-3/c#20
 1-3/c#14 (LUM)
 1-1/c#6 (INS GR)

- (5) PEDESTAL FOUNDATION**
 13' PEDESTAL POLE PLUS BASE
 ONE WAY SIGNAL
 CD PED HEAD
 APS PB & SIGN (RT ARROW) PB4-2
 EXTEND INTO H.H.14:
 3" PVC
 1-12/c#14
 1-2/c#14
 2-1/c#6 (GRD)

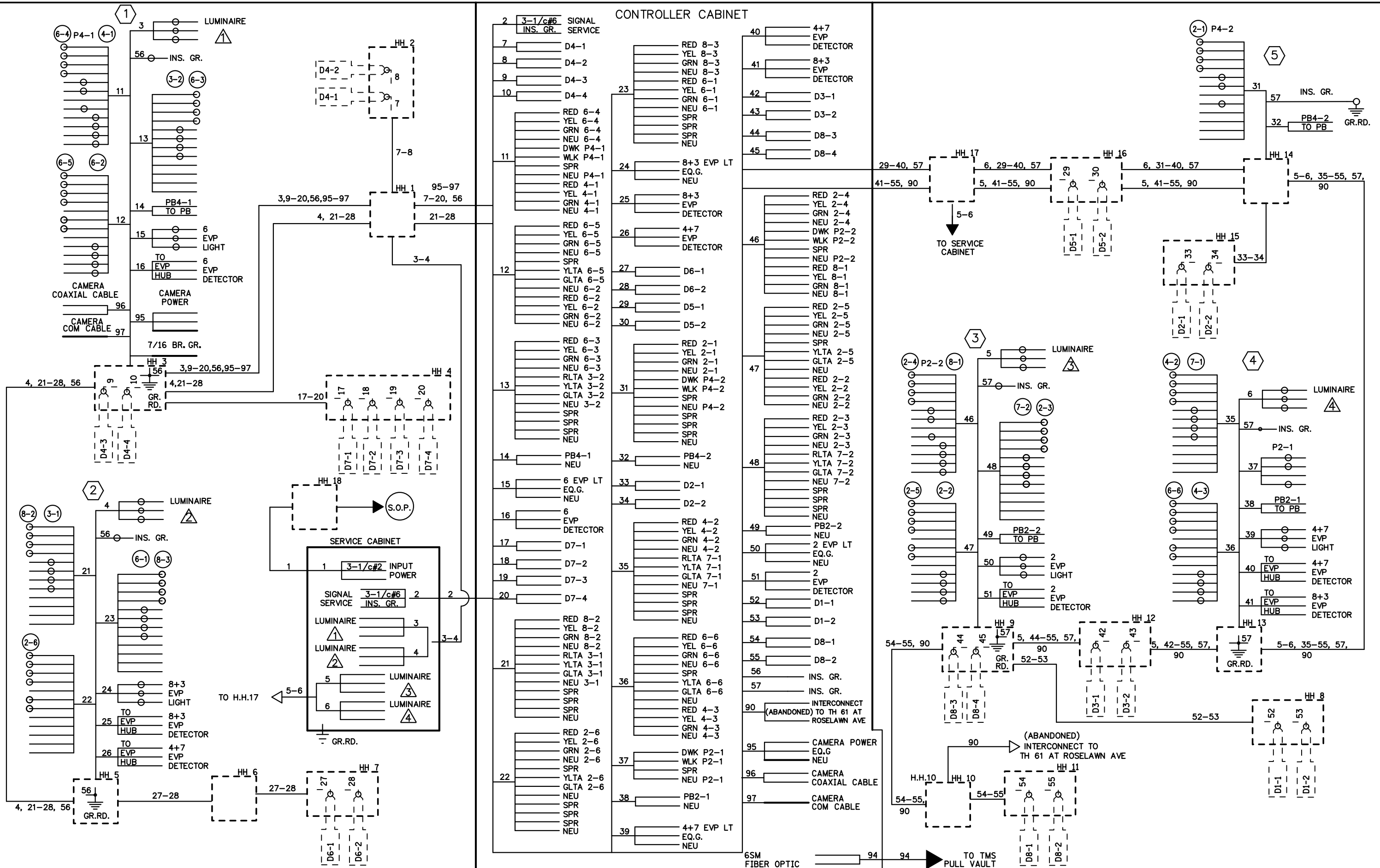
PLOTTED/REVISED: 10/23/2015

DISTRICT #: METRO
 IPLOT NAME: MATCH LINES
 PATH & FILENAME: IP_PWP-d0779940YT21036_.sgldgn

| | | | | | | | | | |
|-----|----------|--|-----------------------------------|------|--|--------------------|----------------|-------------|----------------|
| BY | DATE | REVISIONS | SYSTEM ID: 21036 | T.E. | MATCH LINES AND POLE NOTES TH 61 AT CSAH 27 (PARKWAY DR)/FROST AVE MAPLEWOOD, RAMSEY COUNTY | S.A.P. NO. | DRAWN BY: SJK | CKD BY: EJA | DATE: 06-14-12 |
| EJA | 10-23-15 | AS-BUILT OF SP 6222-168 FIBER & CAMERA | METER ADDRESS: 1751 ARCADE STREET | | | CERTIFIED BY _____ | LIC. NO. _____ | DATE: _____ | |
| | | | MASTER ID: | T.E. | | STATE PROJ. NO. | (T.H.61) | SHEET NO. | 2 OF 3 SHEETS |

PLOTTED/REVISED: 10/23/2015

DISTRICT #: METRO
PLOT NAME: WIRING DIAGRAM
PATH & FILENAME: IP_PWP-d0779940V21036_sgl.dgn



| BY | DATE | REVISIONS |
|-----|----------|--|
| EJA | 10-23-13 | AS-BUILT OF SP 6222-168 FIBER & CAMERA |

| | |
|-----------------------------------|------|
| SYSTEM ID: 21036 | T.E. |
| METER ADDRESS: 1751 ARCADE STREET | |
| MASTER ID: | T.E. |

FIELD WIRING DIAGRAM
TH 61 AT CSAH 27 (PARKWAY DR/FROST AVE
MAPLEWOOD, RAMSEY COUNTY

| | | | |
|--------------------|----------------|-------------|----------------|
| S.A.P. NO. | DRAWN BY: SJK | CKD BY: EJA | DATE: 06-14-12 |
| CERTIFIED BY _____ | LIC. NO. _____ | DATE: _____ | |
| STATE PROJ. NO. | (T.H. 61) | SHEET NO. | 3 OF 3 SHEETS |