

PLOTTED/REVISED: 27-JAN-2022

DISTRICT *: Metro
PLOT NAME: T20683B
FILENAME: Project\DM_FOS\04700000\Traffic\Sig\159 - IT35324 - MN47-85TH AVE. NE\PEND\ING\T20683B.dgn

PVC LOOP DETECTOR CHART

| DESIGNATION | SIZE (FT.) | LOCATION |
|-------------|---------------|----------|
| DI-1, DI-2 | 6x6 | 5 & 35 |
| D5-1, D5-2 | 6x6 | 5 & 35 |
| D2-1 | 6x6 | 430 |
| D2-2, D2-3 | 6x6 | 430 |
| D6-1, D6-2 | 6x6 | 430 |
| D3-1 | 1-6x6, 1-6x12 | 5 & 20 |
| D3-2 | 6x6 | 10 |
| D3-3, D3-4 | 6x6 | 40 |
| D3-5 | 2 - 6x6 | 10 |
| D4-1 | 1 - 6x6 | 180 |
| D4-2 | 2 - 6x6 | 5 & 20 |
| D4-3 | 2 - 6x6 | 5 & 35 |
| D4-4 | 2 - 6x6 | 5 & 35 |

LOCATION = DISTANCE FROM X-WALK

HH 10 TO HH 9:
2" RSC
2-2/C #14
1-6PR #19 (ABANDONED)

HH 9 TO HH 8:
2" RSC
2-2/C #14
1-6PR #19 (ABANDONED)

HH 8 TO HH 7:
4" RSC
2-12/C #12
3-3/C #12
7-2/C #14
1-3/C #20
1-3/C #14 (LUM)
1-6PR #19 (ABANDONED)

HH 11 TO HH 8:
4" RSC
2-12/C #12
3-3/C #12
5-2/C #14
1-3/C #20
1-3/C #14 (LUM)

HH 6 TO HH 5:
4" RSC
4-12/C #12
5-3/C #12
10-2/C #14
2-3/C #20
1-3/C #12 (LUM)
1-6PR #19

HH 7 TO HH 6:
4" RSC
4-12/C #12
5-3/C #12
8-2/C #14
2-3/C #20
1-3/C #12 (LUM)
1-6PR #19 (ABANDONED)

HH 3 TO HH 2:
2" PVC
1-2/C #14

HH 2 TO HH 1:
2" RSC
1-3/C #14 (LUM)

HH 5 TO HH 2:
4" RSC
4-12/C #12
5-3/C #12
11-2/C #14
2-3/C #20
1-3/C #12 (LUM)
1-6PR #19 (ABANDONED)

HH 4 TO HH 1:
4" RSC
4-12/C #12
7-3/C #12
10-2/C #14
2-3/C #20
1-CAT 5E

HH 15 TO HH 4:
4" RSC
2-12/C #12
3-3/C #12
9-2/C #14
10-2/C #14
1-3/C #14
1-3/C #20

HH 16 TO HH 15:
4" RSC
2-12/C #12
3-3/C #12
7-2/C #14
1-3/C #14
1-3/C #20

HH 18 TO HH 16:
2" PVC
3-2/C #14

HH 19 TO HH 18:
2" PVC
3-2/C #14

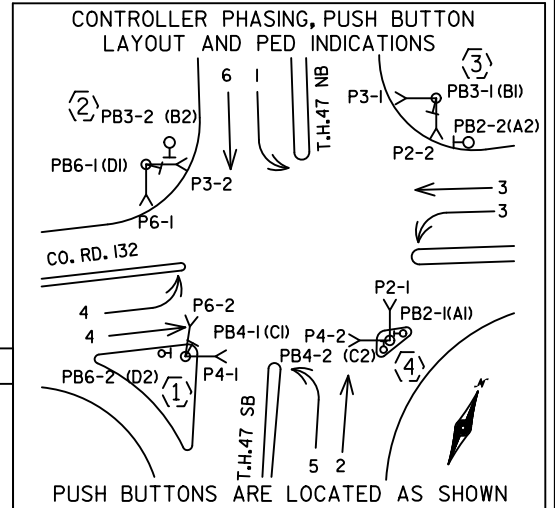
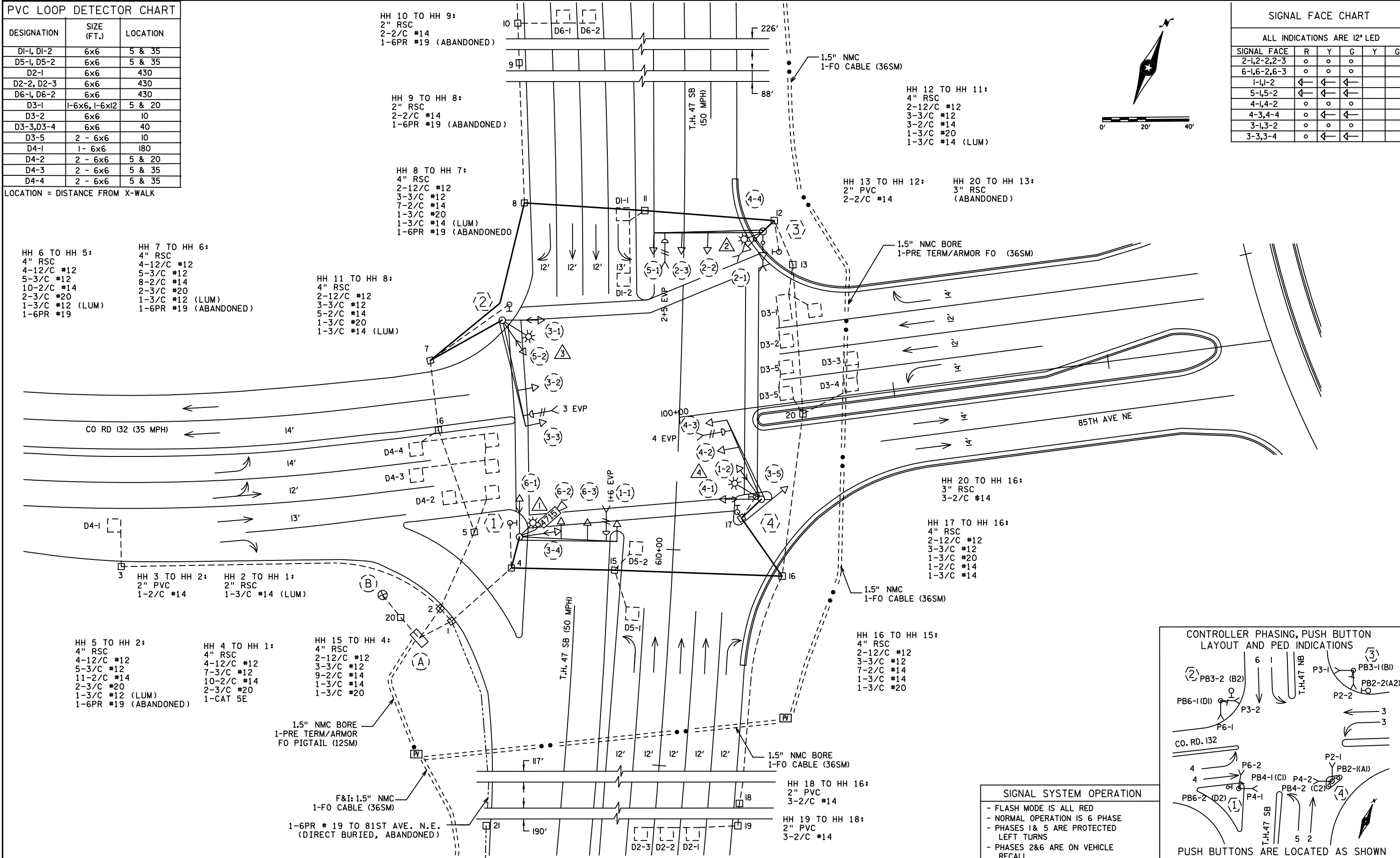
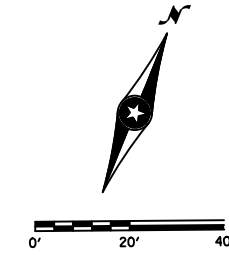
1.5" NMC BORE
1-PRE TERM/ARMOR
FO PIGTAIL (12SM)

F&I: 1.5" NMC
1-FO CABLE (36SM)
1-6PR # 19 TO 81ST AVE. N.E.
(DIRECT BURIED, ABANDONED)

SIGNAL FACE CHART

ALL INDICATIONS ARE 12" LED

| SIGNAL FACE | R | Y | G | Y | G |
|-------------|---|---|---|---|---|
| 2-1,2-2,2-3 | o | o | o | | |
| 6-1,6-2,6-3 | o | o | o | | |
| 1-1,1-2 | ← | ← | ← | | |
| 5-1,5-2 | ← | ← | ← | | |
| 4-1,4-2 | o | o | o | | |
| 4-3,4-4 | o | ← | ← | | |
| 3-1,3-2 | o | o | o | | |
| 3-3,3-4 | o | ← | ← | | |



SIGNAL SYSTEM OPERATION

- FLASH MODE IS ALL RED
- NORMAL OPERATION IS 6 PHASE
- PHASES 1 & 5 ARE PROTECTED LEFT TURNS
- PHASES 2&6 ARE ON VEHICLE RECALL

| | | | | | | | | |
|----|---------|------------------------|-------------------------------------|------|--|----------------|-------------------------------|---------------|
| BY | DATE | REVISIONS | SYSTEM ID: 1735324 | T.E. | S.A.P. NO. | DRAWN BY: | CKD BY: | DATE: 9/20/19 |
| HR | 1/26/22 | SP-2726-84 RECORD PLAN | METER ADDRESS: TH 47 AT CO. RD. 132 | | CERTIFIED BY: <i>Michael P. Sulinsky</i> | LIC. NO. 19683 | DATE: 9/25/19 | |
| | | | OLD SYSTEM ID: 20683 | | STATE PROJ. NO. 2726-84 (T.H.47) | | SHEET NO. SS16 OF SS41 SHEETS | |

PLOTTED/REVISED: 27-JAN-2022

DISTRICT *: Metro
 PLOT NAME: T20683B
 FILENAME: Projects\DM_FROSO47\0000\Traffic\Signal\159 - I735324 - MN47-85TH AVE NE\ENDING\T20683B.dgn

(2) A100 POLE FOUNDATION
 TYPE A100-A50
 D40-9 (DAVIT AT 350 DEG)
 LED - LUMIAIRE WITH PEC
 2-ONEWAY SIGNALS (OVERHEAD)
 MID MAST ARM MOUNT 18' FROM END
 2-TYPE 10B AT 0 DEG & 270 DEG
 2-C.D. PED INDICATIONS
 1-APS PB AND SIGN (LT ARROW) (PB6-1)
 ONE WAY EVP DETECTOR & LIGHT (3)
 EXTEND INTO HH 7:
 3" RSC
 2-12/C #12
 2-3/C #12
 1-3/C #20
 1-3/C #14 (LUM) TO LUMINAIRE ON POLE 2

(1) P100 POLE FOUNDATION
 TYPE P100-A45-D40-9 (DAVIT AT 350°)
 1-X6-350/CAM 400 EXTENSION (MOUNTED AT 350 DEG, INCLUDES LIGHTNING ROD)
 7/16" GROUND BRAID & GROUND ROD
 1-VIDEO CAMERA WITH MOUNT
 LUMIAIRE LED WITH PEC
 3-ONEWAY SIGNALS (OVERHEAD)
 MID MAST ARM MOUNT 12' & 24' FORM END
 2-TYPE 10B AT 0 DEG AND 270 DEG
 2-C.D. PED INDICATIONS
 1-APS PB AND SIGN (LT ARROW) (PB4-1)
 ONE WAY EVP DETECTOR & LIGHT (1 & 6)
 EXTEND INTO HH 4:
 3" RSC
 2-12/C #12
 3-3/C #12
 1-3/C #20
 1-3/C #12 (LUM)
 1-3/C #14 (LUM) TO LUMINAIRE ON POLE 4
 1-7/16" GROUND BRAID TO GROUND ROD
 1-CAT 5E (COM CABLE)

APS PED PB STA (PB2-1)
 1-APS PB AND SIGN (LT ARROW)
 EXTEND INTO HH 17:
 1-1/4" PVC
 1-2/C #14

APS PED PB STA (PB2-2)
 1-APS PB AND SIGN (RT ARROW)
 EXTEND INTO HH 12:
 1-1/4" PVC
 1-2/C #14

APS PED PB STA (PB3-2)
 1-APS PB AND SIGN (RT ARROW)
 EXTEND INTO HH 7:
 1-1/4" PVC
 1-2/C #14

APS PED PB STA (PB4-2)
 1-APS PB AND SIGN (RT ARROW)
 EXTEND INTO HH 17:
 1-1/4" PVC
 1-2/C #14

APS PED PB STA (PB6-2)
 1-APS PB AND SIGN (RT ARROW)
 EXTEND INTO HH 4:
 1-1/4" PVC
 1-2/C #14

(3) PA100 POLE FOUNDATION
 TYPE PA100-A50-D40-9 (DAVIT AT 350°)
 LUMINAIRE LED WITH PEC
 3-ONEWAY SIGNALS (OVERHEAD)
 MID MAST ARM MOUNT 13' & 25' FROM END
 2-TYPE 10B AT 0 DEG & 270 DEG
 2-C.D. PED INDICATIONS
 1-APS PB AND SIGN (LT ARROW) (PB3-1)
 ONE WAY EVP DETECTOR & LIGHT (2 & 5)
 EXTEND INTO HH 12:
 3" RSC
 2-12/C #12
 3-3/C #12
 1-3/C #20
 1-3/C #12 (LUM) RE-ROUTE CABLE TO POLE 2
 1-3/C #14 (LUM) TO LUMINAIRE ON POLE 2

(4) P100 POLE FOUNDATION
 TYPE P100-A40
 D40-9 (DAVIT AT 350 DEG)
 LED - LUMIAIRE WITH PEC
 2-ONEWAY SIGNALS (OVERHEAD)
 MID MAST ARM MOUNT 18' FROM END
 2-TYPE 10B AT 0 DEG & 270 DEG
 2-C.D. PED INDICATIONS
 ONE WAY EVP DETECTOR & LIGHT (4)
 EXTEND INTO HH 17
 3" RSC
 2-12/C #12
 3-3/C #12
 1-3/C #20
 1-2/C #14
 1-3/C #14 (LUM) TO LUMINAIRE ON POLE 1

(A) EQUIPMENT PAD
 CONTROLLER & CABINET
 SERVICE EQUIPMENT
 METER TO HH 20:
 2" RSC
 3-1/C #2
 LOAD CENTER TO HH 1:
 1-1 1/4" RSC
 2-3/C #12 (LUM)
 LOAD CENTER TO CONTROLLER CABINET:
 1 1/4" RSC
 2-1/C #6
 1-1/C #6 BR. GR.
 3" RSC STUB OUT (THREAD AND CAP BOTH ENDS)
 CONTROLLER CABINET TO PULL VAULT:
 1-1.5" NMC (IN SPARE 3")
 1-PRE-TERMINATED ARMORED FO PIGTAIL (12SM)
 CONTROLLER CABINET TO HH 1:
 4" RSC
 4-12/C #12
 6-3/C #12
 10-2/C #14
 2-3/C #20
 1-CAT 5E (COM CABLE)
 1-6PR #19 (ABANDONED)
 CONTROLLER CABINET TO HH 2:
 4" RSC
 4-12/C #12
 5-3/C #12
 12-2/C #14
 2-3/C #20
 1-6PR #19 (ABANDONED)

(B) SOP-WOOD POLE
 EXTEND INTO HH 20:
 2" RSC
 3-1/C #2
 2" RSC RISER AND WEATHERHEAD
 3-1/C #12

| BY | DATE | REVISIONS | SYSTEM ID: 1735324 | T.E. | TRAFFIC CONTROL SIGNAL SYSTEM INTERSECTION NOTES | S.A.P. NO. | DRAWN BY: | CKD BY: | DATE: 9/20/19 |
|-----|---------|------------------------|-------------------------------------|------|--|---|-------------------------------|---------------|---------------|
| HRL | 1/26/22 | SP-2726-84 RECORD PLAN | METER ADDRESS: TH 47 AT CO. RD. 132 | | T.H. 47 (UNIVERSITY AVE.) AT CO. RD. 132 (85TH AVE. NE) FRIDLEY, SPRING LAKE PARK AND BLAINE | CERTIFIED BY <i>Michael P. Selinsky</i> LICENSED PROFESSIONAL ENGINEER | LIC. NO. 19683 | DATE: 9/25/19 | |
| | | | OLD SYSTEM ID: 20683 | | | STATE PROJ. NO. 2726-84 (T.H. 47) | SHEET NO. SS17 OF SS41 SHEETS | | |

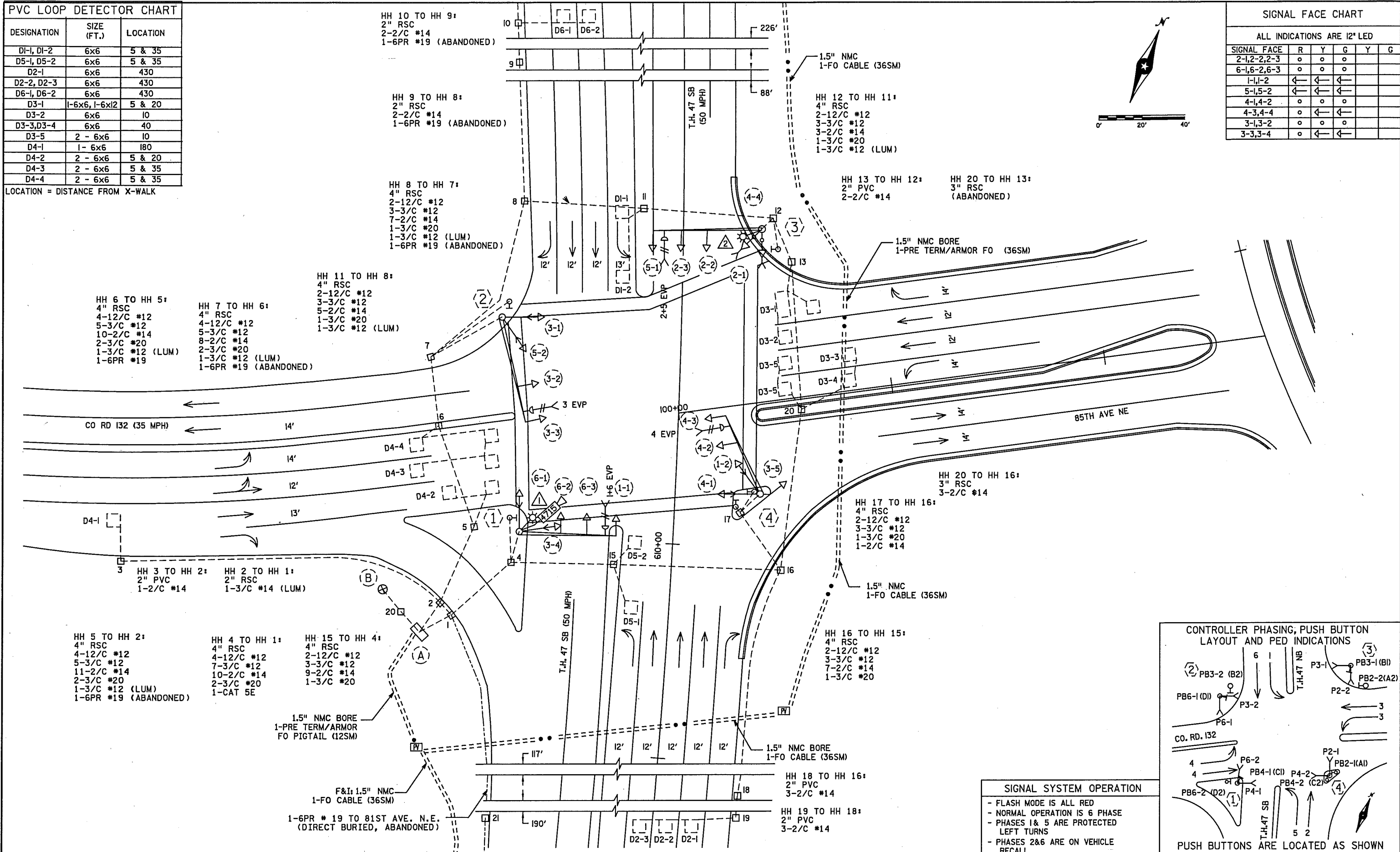
PVC LOOP DETECTOR CHART

| DESIGNATION | SIZE (FT.) | LOCATION |
|-------------|---------------|----------|
| DI-1, DI-2 | 6x6 | 5 & 35 |
| D5-1, D5-2 | 6x6 | 5 & 35 |
| D2-1 | 6x6 | 430 |
| D2-2, D2-3 | 6x6 | 430 |
| D6-1, D6-2 | 6x6 | 430 |
| D3-1 | 1-6x6, 1-6x12 | 5 & 20 |
| D3-2 | 6x6 | 10 |
| D3-3, D3-4 | 6x6 | 40 |
| D3-5 | 2 - 6x6 | 10 |
| D4-1 | 1 - 6x6 | 180 |
| D4-2 | 2 - 6x6 | 5 & 20 |
| D4-3 | 2 - 6x6 | 5 & 35 |
| D4-4 | 2 - 6x6 | 5 & 35 |

LOCATION = DISTANCE FROM X-WALK

PLOTTED/REVISED: 12-FEB-2019

DISTRICT #: Metro
 IPLOT NAME: T20683B
 PATH & FILENAME: Projects\DM_R0504\0000NTrafficSignals\20683_85th_Ave_NE_CRI32\T20683B.dgn



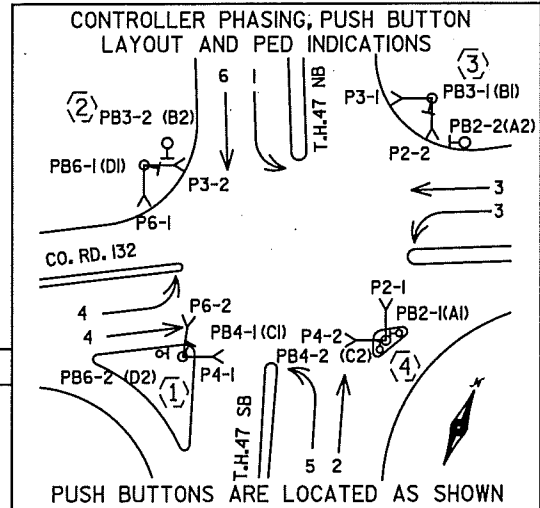
SIGNAL FACE CHART

ALL INDICATIONS ARE 12" LED

| SIGNAL FACE | R | Y | G | Y | G |
|-------------|---|---|---|---|---|
| 2-1,2-2,2-3 | o | o | o | | |
| 6-1,6-2,6-3 | o | o | o | | |
| 1-1,1-2 | ← | ← | ← | | |
| 5-1,5-2 | ← | ← | ← | | |
| 4-1,4-2 | o | o | o | | |
| 4-3,4-4 | o | ← | ← | | |
| 3-1,3-2 | o | o | o | | |
| 3-3,3-4 | o | ← | ← | | |

SIGNAL SYSTEM OPERATION

- FLASH MODE IS ALL RED
- NORMAL OPERATION IS 6 PHASE
- PHASES 1 & 5 ARE PROTECTED LEFT TURNS
- PHASES 2&6 ARE ON VEHICLE RECALL



| BY | DATE | REVISIONS |
|-----|----------|-------------------|
| J3T | 01-30-19 | ERROR CORRECTIONS |

SYSTEM ID: 1735324 T.E. 2667
 METER ADDRESS: TH 47 AT CO. RD. 132
 OLD ID: 20683

INTERSECTION LAYOUT
 T.H. 47 (UNIVERSITY AVE.) AT
 CO. RD. 132 (85TH AVE. NE)
 FRIDLEY, SPRING LAKE PARK AND BLAINE
 ANOKA COUNTY

S.A.P. NO. _____
 CERTIFIED BY _____
 LICENSED PROFESSIONAL ENGINEER

DRAWN BY: _____ CKD BY: _____ DATE: _____
 LIC. NO. _____ DATE: _____
 STATE PROJ. NO. (T.H. 47) SHEET NO. 1 OF 3 SHEETS

DISTRICT: Metro
 IPLOT NAME: T20683B
 PATH & FILENAME: Projects\DM_FRS\047\0000\Traffic\Signals\20683_85th_AVE_NE_CR132\T20683B.dgn
 PLOTTED/REVISED: 12-FEB-2019

(2) A100 POLE FOUNDATION
 TYPE A100-A50
 2-ONEWAY SIGNALS (OVERHEAD)
 MID MAST ARM MOUNT 18' FROM END
 2-TYPE 10B AT 0 DEG & 270 DEG
 2-C.D. PED INDICATIONS
 1-APS PB AND SIGN (LT ARROW) (PB6-1)
 ONE WAY EVP DETECTOR & LIGHT (3)
 EXTEND INTO HH 7:
 3" RSC
 2-12/C #12
 2-3/C #12
 1-3/C #20

(1) P100 POLE FOUNDATION
 TYPE P100-A45-D40-9 (DAVIT AT 350°)
 1-X6-350/CAM 400 EXTENSION (MOUNTED AT 350 DEG, INCLUDES LIGHTNING ROD)
 7/16" GROUND BRAID & GROUND ROD
 1-VIDEO CAMERA WITH MOUNT
 LUM - 200W HPS WITH PEC
 3-ONWAY SIGNALS (OVERHEAD)
 MID MAST ARM MOUNT 12' & 24' FROM END
 2-TYPE 10B AT 0 DEG AND 270 DEG
 2-C.D. PED INDICATIONS
 1-APS PB AND SIGN (LT ARROW) (PB4-1)
 ONE WAY EVP DETECTOR & LIGHT (1 & 6)
 EXTEND INTO HH 4:
 3" RSC
 2-12/C #12
 3-3/C #12
 1-3/C #20
 1-3/C #12 (LUM)
 1-7/16" GROUND BRAID TO GROUND ROD
 1-CAT 5E (COM CABLE)

APS PED PB STA (PB2-1)
 1-APS PB AND SIGN (LT ARROW)
 EXTEND INTO HH 17:
 1-1/4" PVC
 1-2/C #14

APS PED PB STA (PB2-2)
 1-APS PB AND SIGN (RT ARROW)
 EXTEND INTO HH 12:
 1-1/4" PVC
 1-2/C #14

APS PED PB STA (PB3-2)
 1-APS PB AND SIGN (RT ARROW)
 EXTEND INTO HH 7:
 1-1/4" PVC
 1-2/C #14

APS PED PB STA (PB4-2)
 1-APS PB AND SIGN (RT ARROW)
 EXTEND INTO HH 17:
 1-1/4" PVC
 1-2/C #14

APS PED PB STA (PB6-2)
 1-APS PB AND SIGN (RT ARROW)
 EXTEND INTO HH 4:
 1-1/4" PVC
 1-2/C #14

(3) PA100 POLE FOUNDATION
 TYPE PA100-A50-D40-9 (DAVIT AT 350°)
 LUM - 200W HPS WITH PEC
 3-ONWAY SIGNALS (OVERHEAD)
 MID MAST ARM MOUNT 13' & 25' FROM END
 2-TYPE 10B AT 0 DEG & 270 DEG
 2-C.D. PED INDICATIONS
 1-APS PB AND SIGN (LT ARROW) (PB3-1)
 ONE WAY EVP DETECTOR & LIGHT (2 & 5)
 EXTEND INTO HH 12:
 3" RSC
 2-12/C #12
 3-3/C #12
 1-3/C #20
 1-3/C #12 (LUM)

(4) P100 POLE FOUNDATION
 TYPE P100-A40
 2-ONEWAY SIGNALS (OVERHEAD)
 MID MAST ARM MOUNT 18' FROM END
 2-TYPE 10B AT 0 DEG & 270 DEG
 2-C.D. PED INDICATIONS
 ONE WAY EVP DETECTOR & LIGHT (4)
 EXTEND INTO HH 17:
 3" RSC
 2-12/C #12
 3-3/C #12
 1-3/C #20
 1-2/C #14

(A) EQUIPMENT PAD
 CONTROLLER & CABINET
 SERVICE EQUIPMENT

 METER TO HH 20:
 2" RSC
 3-1/C #2

 LOAD CENTER TO HH 1:
 1-1 1/4" RSC
 2-3/C #12 (LUM)

 LOAD CENTER TO CONTROLLER CABINET:
 1 1/4" RSC
 2-1/C #6
 1-1/C #6 BR. GR.
 3" RSC STUB OUT (THREAD AND CAP BOTH ENDS)

 CONTROLLER CABINET TO PULL VAULT:
 1-1.5" NMC (IN SPARE 3")
 1-PRE-TERMINATED ARMORED FO PIGTAIL (12SM)

 CONTROLLER CABINET TO HH 1:
 4" RSC
 4-12/C #12
 6-3/C #12
 10-2/C #14
 2-3/C #20
 1-CAT 5E (COM CABLE)
 1-6PR #19 (ABANDONED)

 CONTROLLER CABINET TO HH 2:
 4" RSC
 4-12/C #12
 5-3/C #12
 12-2/C #14
 2-3/C #20
 1-6PR #19 (ABANDONED)

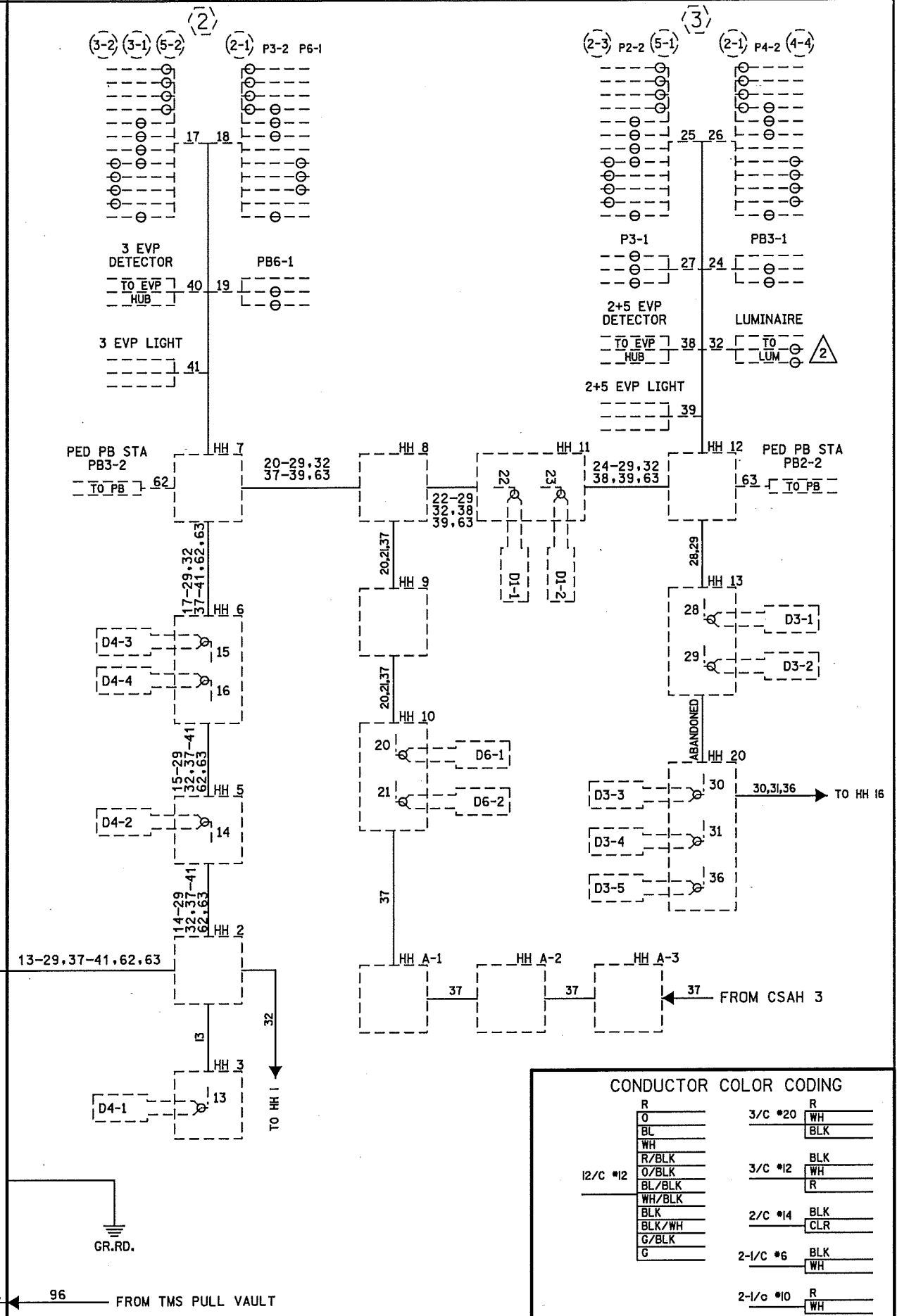
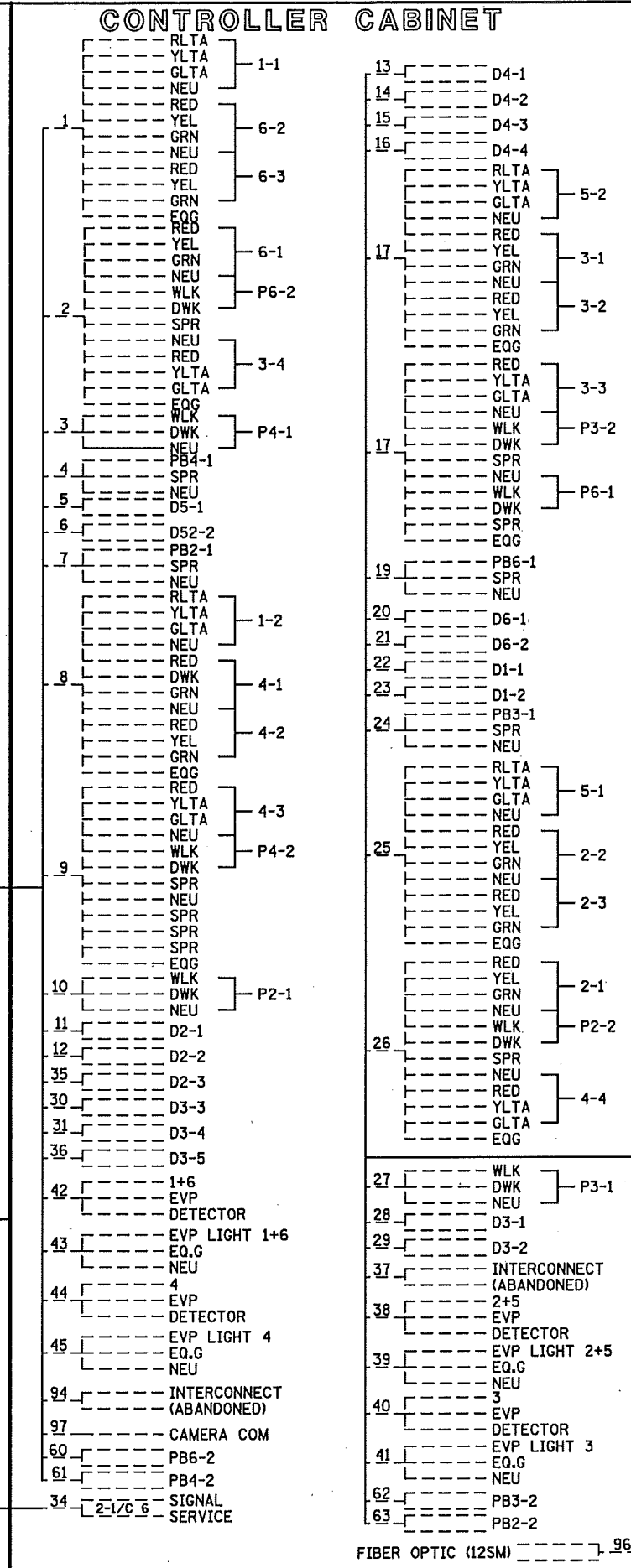
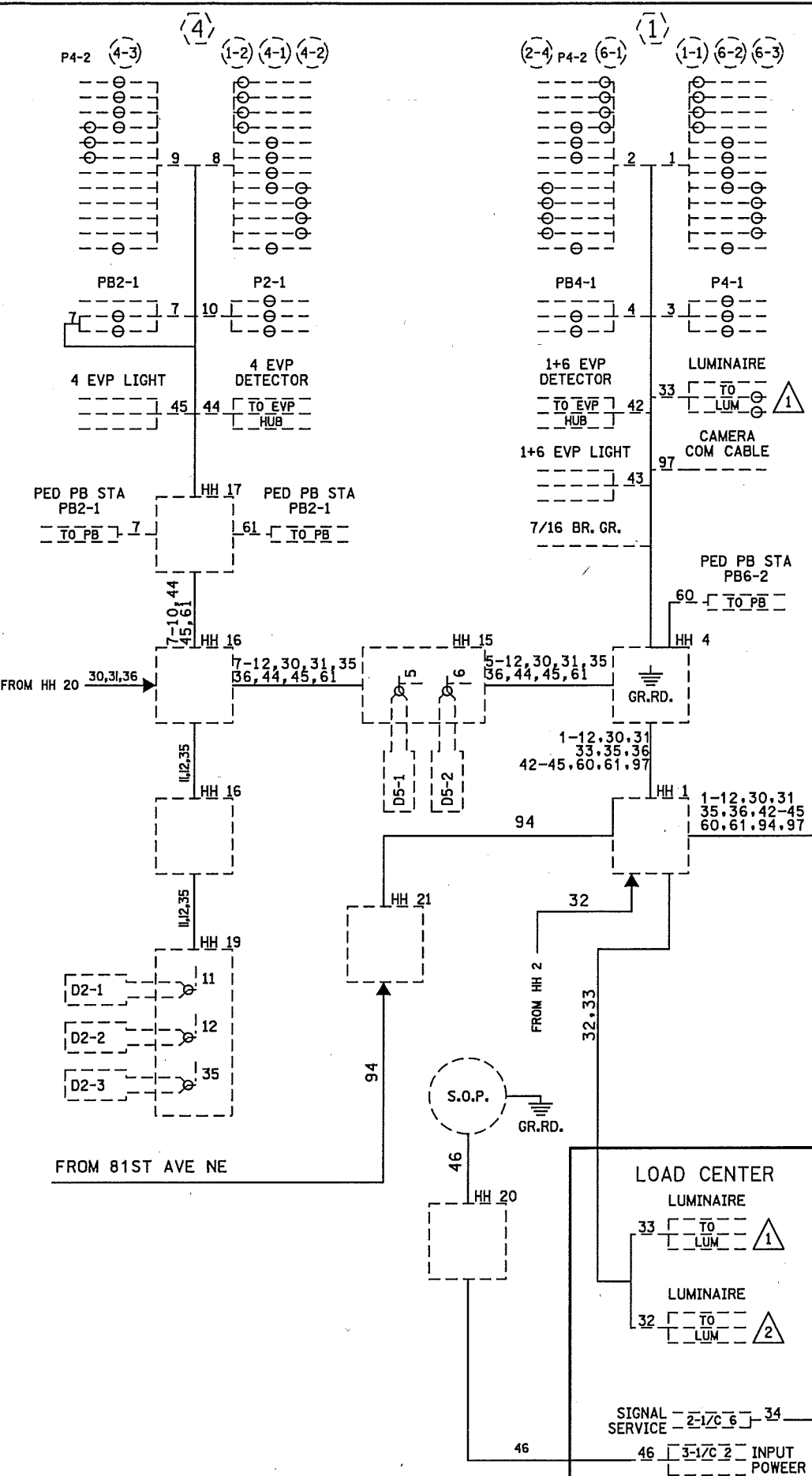
(B) SOP-WOOD POLE
 EXTEND INTO HH 20:
 2" RSC
 3-1/C #2
 2" RSC RISER AND WEATHERHEAD
 3-1/C #12

| | | | | | | | | | |
|-----|----------|-------------------|-------------------------------------|-----------|--------------------------------------|-----------------------|-----------|---------|----------------------------|
| BY | DATE | REVISIONS | SYSTEM ID: 1735324 | T.E. 2667 | INTERSECTION NOTES | S.A.P. NO. | DRAWN BY: | CKD BY: | DATE: |
| J3T | 01-30-19 | ERROR CORRECTIONS | METER ADDRESS: TH 47 AT CO. RD. 132 | | T.H. 47 (UNIVERSITY AVE.) AT | CERTIFIED BY _____ | | | LIC. NO. _____ DATE: _____ |
| | | | OLD ID: 20683 | | CO. RD. 132 (85TH AVE. NE) | STATE PROJ. NO. _____ | | | |
| | | | | | FRIDLEY, SPRING LAKE PARK AND BLAINE | (T.H. 47) | | | SHEET NO. 2 OF 3 SHEETS |
| | | | | | ANOKA COUNTY | | | | |

PLOTTED/REVISED: 12-FEB-2019

DISTRICT #: Metro
PLOT NAME: T20683B
PATH & FILENAME: Projects\DM_R0504\0000\Traffic\Signals\20683_85th_AVE_NE_CR132\20683B.dgn

CONTROLLER CABINET

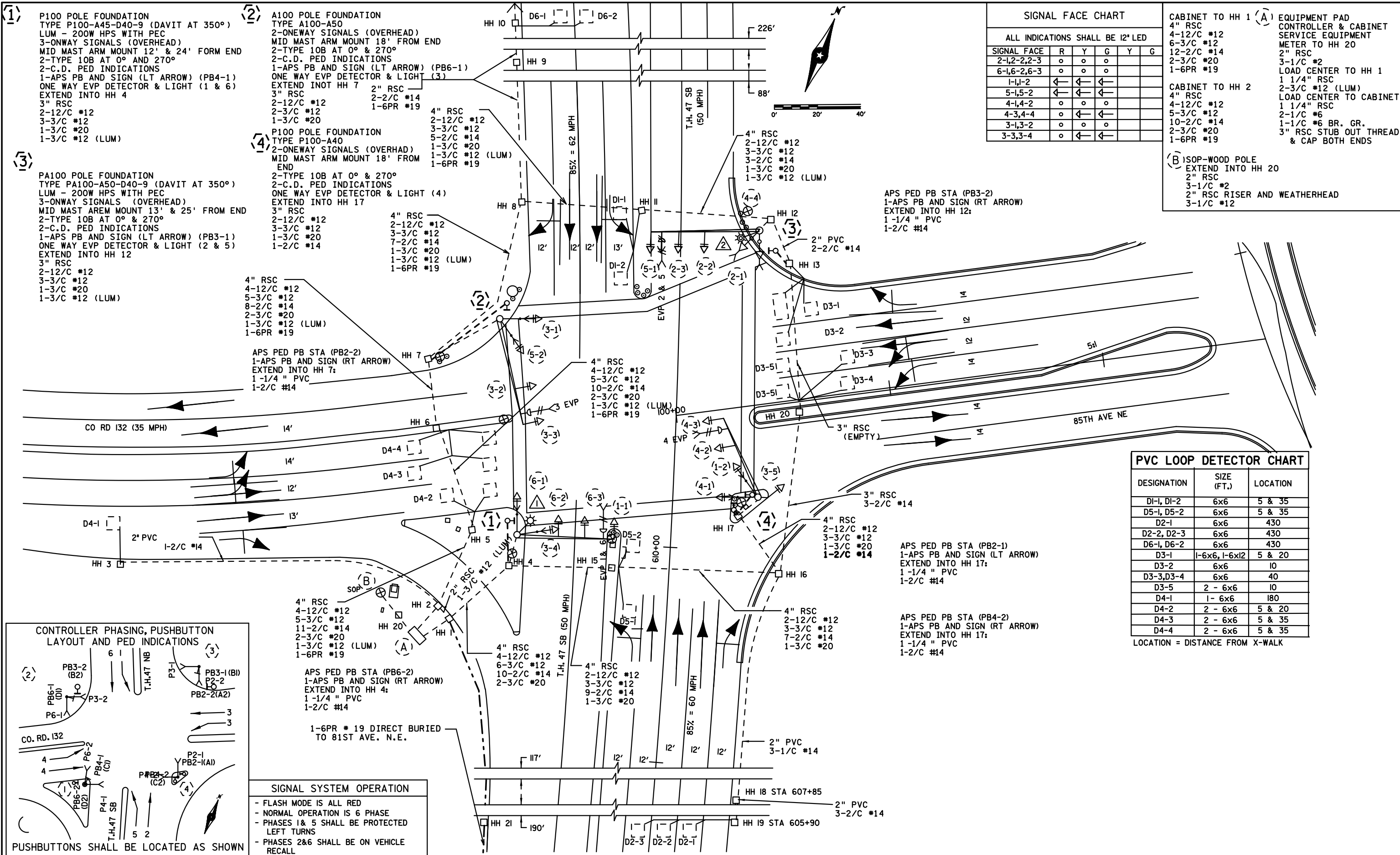


| CONDUCTOR COLOR CODING | | | |
|------------------------|----------|-----|--|
| R | | R | |
| O | 3/C #20 | WH | |
| BL | | BLK | |
| WH | | | |
| R/BLK | | BLK | |
| O/BLK | 3/C #12 | WH | |
| BL/BLK | | R | |
| WH/BLK | | | |
| BLK | | BLK | |
| BLK/WH | 2/C #14 | CLR | |
| G/BLK | | | |
| G | 2-1/C #6 | BLK | |
| | | WH | |
| | | R | |
| | | WH | |

| | | | | | | | | | |
|---------|----------------|------------------------------|-------------------------------------|-----------|---|--------------------------------|-----------|---------|-------------------------|
| BY: J3T | DATE: 01-30-19 | REVISIONS: ERROR CORRECTIONS | SYSTEM ID: 1735324 | T.E. 2667 | FIELD WIRING DIAGRAM | S.A.P. NO. | DRAWN BY: | CKD BY: | DATE: |
| | | | METER ADDRESS: TH 47 AT CO. RD. 132 | | T.H. 47 (UNIVERSITY AVE.) AT CO. RD. 132 (85TH AVE. NE) | CERTIFIED BY: _____ | | | |
| | | | OLD ID: 20683 | | FRIDLEY, SPRING LAKE PARK AND BLAINE ANOKA COUNTY | LICENSED PROFESSIONAL ENGINEER | | | |
| | | | | | | STATE PROJ. NO. (T.H. 47) | | | SHEET NO. 3 OF 3 SHEETS |

PLOTTED/REVISED: 9/13/2013

DISTRICT #: METRO
PLOT NAME: layout
PATH & FILENAME: IP_PWP-d0781055V20683L_sgl.dgn



SIGNAL FACE CHART
ALL INDICATIONS SHALL BE 12" LED

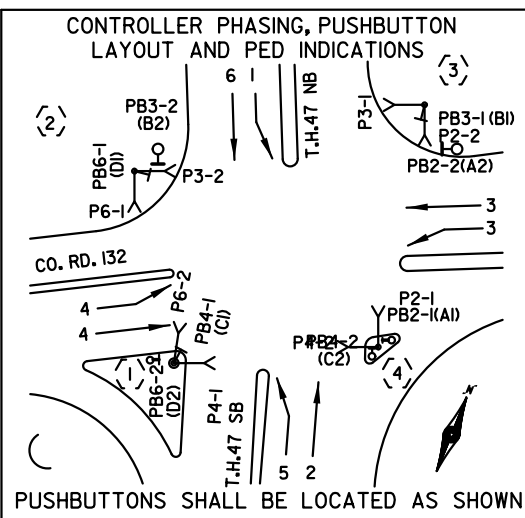
| SIGNAL FACE | R | Y | G | Y | G |
|-------------|---|---|---|---|---|
| 2-1,2-2,2-3 | o | o | o | | |
| 6-1,6-2,6-3 | o | o | o | | |
| 1-1,1-2 | ← | ← | ← | | |
| 5-1,5-2 | ← | o | ← | | |
| 4-1,4-2 | o | o | o | | |
| 4-3,4-4 | o | ← | ← | | |
| 3-1,3-2 | o | o | o | | |
| 3-3,3-4 | o | ← | ← | | |

- CABINET TO HH 1 (A)**
- 4" RSC
 - 4-12/C #12
 - 6-3/C #12
 - 12-2/C #14
 - 2-3/C #20
 - 1-6PR #19
- EQUIPMENT PAD**
CONTROLLER & CABINET
SERVICE EQUIPMENT
METER TO HH 20
2" RSC
3-1/C #2
LOAD CENTER TO HH 1
1 1/4" RSC
2-3/C #12 (LUM)
LOAD CENTER TO CABINET
1 1/4" RSC
2-1/C #6
1-1/C #6 BR. GR.
3" RSC STUB OUT THREAD
& CAP BOTH ENDS
- CABINET TO HH 2**
- 4" RSC
 - 4-12/C #12
 - 5-3/C #12
 - 10-2/C #14
 - 2-3/C #20
 - 1-6PR #19
- (B) ISOP-WOOD POLE**
EXTEND INTO HH 20
2" RSC
3-1/C #2
2" RSC RISER AND WEATHERHEAD
3-1/C #12

PVC LOOP DETECTOR CHART

| DESIGNATION | SIZE (FT.) | LOCATION |
|-------------|---------------|----------|
| DI-1, DI-2 | 6x6 | 5 & 35 |
| D5-1, D5-2 | 6x6 | 5 & 35 |
| D2-1 | 6x6 | 430 |
| D2-2, D2-3 | 6x6 | 430 |
| D6-1, D6-2 | 6x6 | 430 |
| D3-1 | 1-6x6, 1-6x12 | 5 & 20 |
| D3-2 | 6x6 | 10 |
| D3-3, D3-4 | 6x6 | 40 |
| D3-5 | 2 - 6x6 | 10 |
| D4-1 | 1 - 6x6 | 180 |
| D4-2 | 2 - 6x6 | 5 & 20 |
| D4-3 | 2 - 6x6 | 5 & 35 |
| D4-4 | 2 - 6x6 | 5 & 35 |

LOCATION = DISTANCE FROM X-WALK

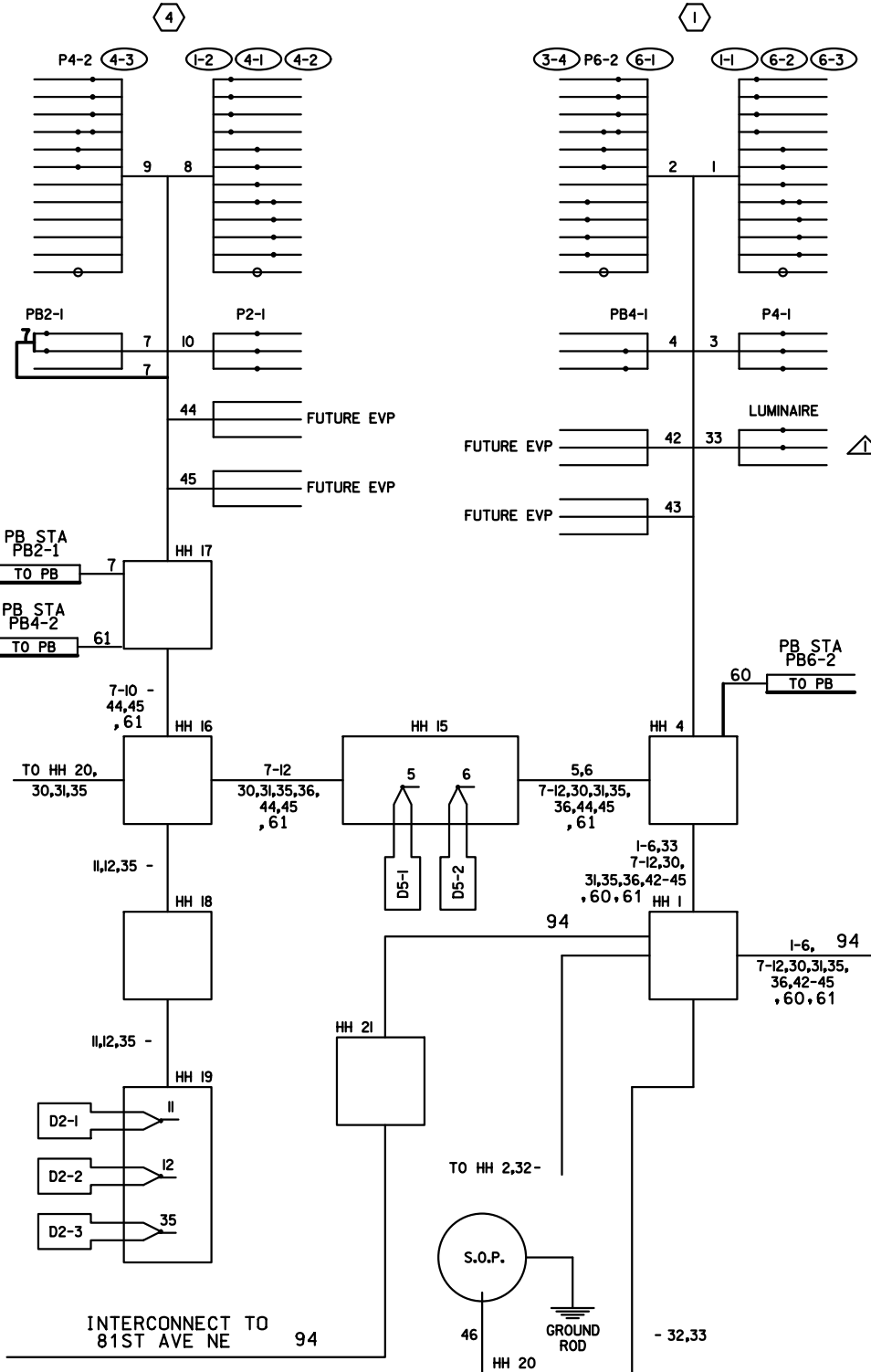


- SIGNAL SYSTEM OPERATION**
- FLASH MODE IS ALL RED
 - NORMAL OPERATION IS 6 PHASE
 - PHASES 1 & 5 SHALL BE PROTECTED LEFT TURNS
 - PHASES 2&6 SHALL BE ON VEHICLE RECALL

| | | | | | | | | | |
|---------|----------------|---|-------------------------------------|-----------|--|--|-------------------------|---------------|---------------|
| BY: EJA | DATE: 09-13-13 | REVISIONS: AS-BUILT /CORRECTIONS SP 0205-98 (APS) | SYSTEM ID: 20683 | T.E. 5125 | INTERSECTION LAYOUT TH 47 (UNIVERSITY AVE NE) AT CO RD 132(85TH AVE NE) IN FRIDLEY, SPRING LAKE PARK, AND BLAINE ANOKA COUNTY | S.A.P. NO. | DRAWN BY: BAM | CKD BY: CDB | DATE: 4/21/10 |
| | | | METER ADDRESS: TH 47 AT CO. RD. 132 | | | CERTIFIED BY: <i>Michael P. Gelinsky</i> LICENSED PROFESSIONAL ENGINEER | LIC. NO. 19863 | DATE: 4/21/10 | |
| | | | MASTER ID: | T.E. | | STATE PROJ. NO. 0205-98 (T.H.47) | SHEET NO. 1 OF 2 SHEETS | | |

PLOTTED/REVISED: 9/13/2013

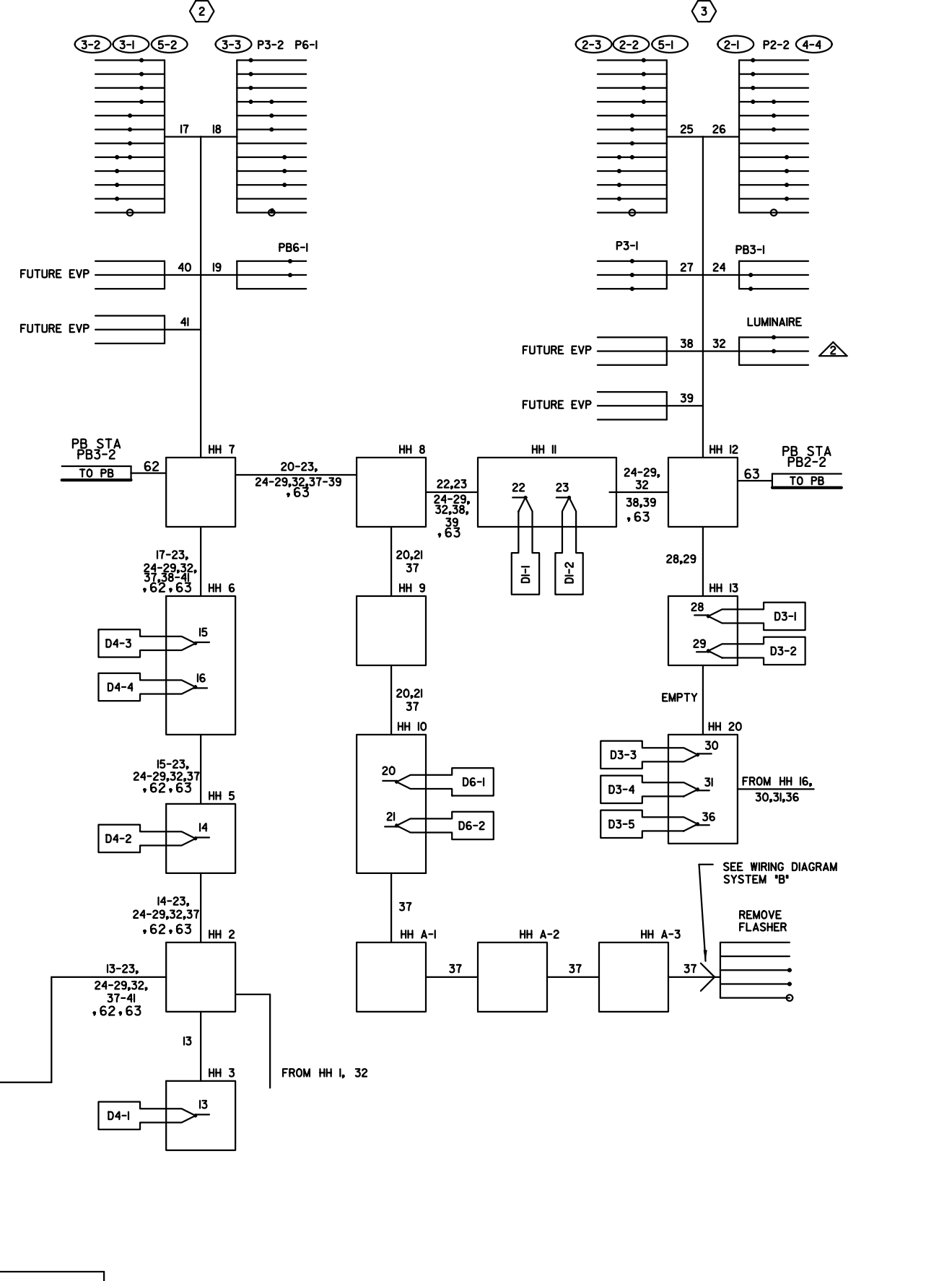
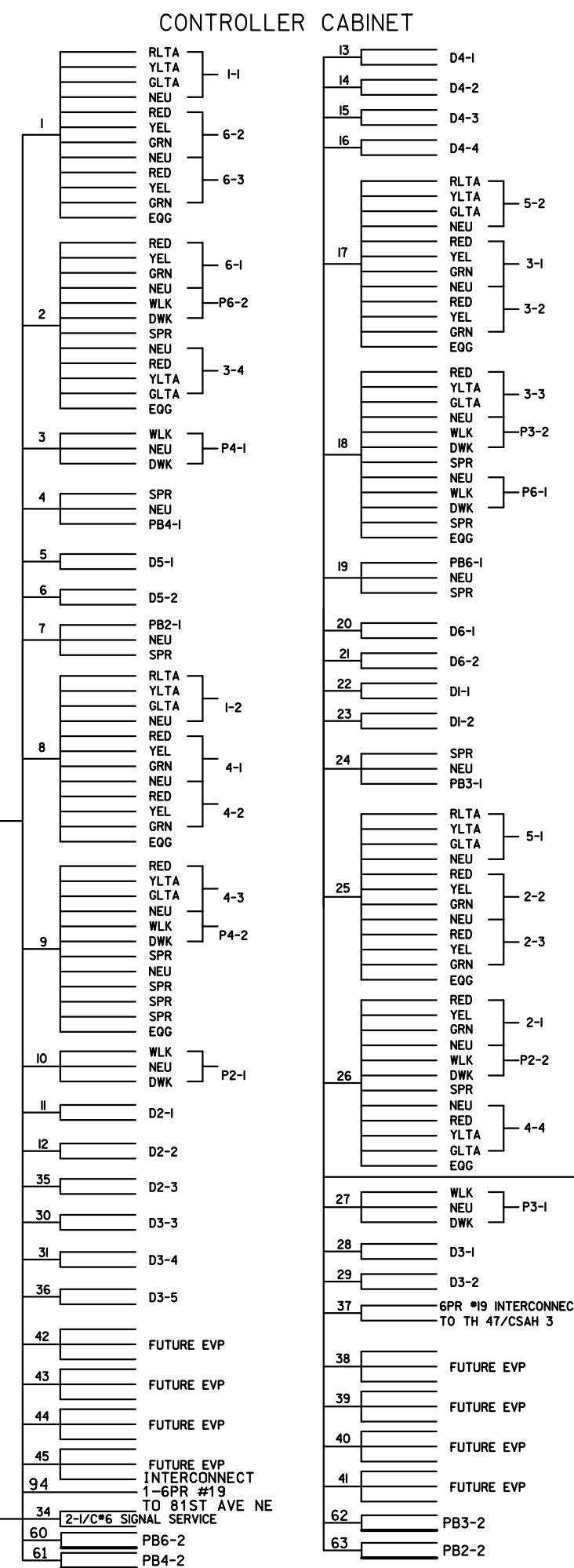
DISTRICT #: METRO
IPLOT NAME: wire
PATH & FILENAME: IP_PWP-d0781055V20683L.sgl.dgn



CONDUCTOR COLOR CODING

| | | | |
|---------|--------|-----------|-----|
| 3/C #20 | R | 3/C #12 | BLK |
| | WH | | WH |
| | BLK | | R |
| 3/C #12 | BLK | 2/C #14 | BLK |
| | WH | | CLR |
| | R | 2-1/C #6 | BLK |
| 2/C #14 | O/BLK | | WH |
| | BL/BLK | 2-1/c #10 | R |
| | WH/BLK | | WH |
| | BLK | | |
| | BLK/WH | | |
| | G/BLK | | |
| | G | | |

NOTE: ALL TERMINAL BLOCK CONNECTIONS SHALL BE ARRANGED AS SPECIFIED



| | | | |
|--|----------------------------|--------------------------------|-----------------------|
| CKD BY: CDB DATE: 4/21/10 | CKD BY: DATE: T.E. 5125 | CKD BY: DATE: T.E. (MASTER) | AS BUILT BY: DATE: |
| SYSTEM ID: 20683 | | METER ADDRESS: TH 47 @ CR 132 | |
| S.A.P. NO. | | S.A.P. NO. | |
| CERTIFIED BY: <i>Michael P. Lubinsky</i> LICENSED PROFESSIONAL ENGINEER | | LIC. NO. 19863 | |
| STATE PROJ. NO. 0205-98 (T.H. 47) | | DATE: 4/21/10 | |

FIELD WIRING DIAGRAM
TH 47 (UNIVERSITY AVE NE) AT
CO RD 132 (85TH AVE NE)
IN FRIDLEY, SPRING LAKE PARK,
AND BLAINE ANOKA COUNTY

SHEET NO. 2 OF 2 SHEETS