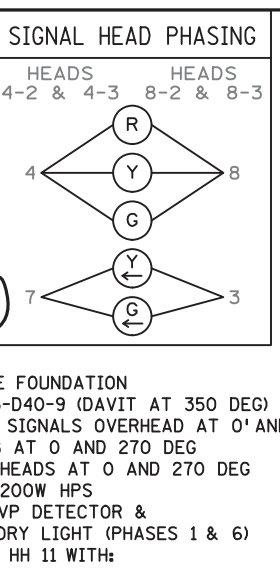


DISTRICT #: Metro
 PLOT NAME: NEWESTT20074_SGL
 PATH & FILENAME: Projects\DM_FOS\005\0000\Traffic\Signal\40.46 TH5 @ CSAH(13) ROLLING ACRES-BAVARIA 1734967\NEWESTT20074_SGL\0610: 26-OCT-2022

| LOOP DETECTORS | | |
|----------------|------------|----------|
| NUMBER | SIZE (FT.) | LOCATION |
| D1-1,D1-2 | 6X6 | 40 & 10 |
| D2-1 | 6X6 | 475 |
| D2-2 | 6X6 | 240 |
| D4-1 | 6X6 | 290 |
| D4-2 | 2-6X6 | 5 & 20 |
| D7-1 | 2-6X6 | 20 & 50 |
| D7-2 | 2-6X6 | 5 & 35 |
| D5-1,D5-2 | 6X6 | 40 & 10 |
| D6-1 | 6X6 | 550 |
| D6-2 | 6X6 | 275 |
| D8-1 | 6X6 | 300 |
| D8-2 | 6X6 | 5 |
| D8-3 | 2-6X6 | 5 & 20 |
| D3-1 | 2-6X6 | 20 & 50 |
| D3-2 | 2-6X6 | 5 & 35 |

| SIGNAL HEAD CHART | | | | | |
|-------------------------------|---|---|---|---|---|
| SIGNAL HEADS SHALL BE 12" LED | | | | | |
| FACES | R | Y | G | Y | G |
| 1-1,1-2 | ◀ | ◀ | ◀ | | |
| 2-1,2-2 | ○ | ○ | ○ | | |
| 4-1 | ○ | ○ | ○ | | |
| 4-2,4-3 | ○ | ○ | ○ | ◀ | ◀ |
| 5-1,5-2 | ◀ | ◀ | ◀ | | |
| 6-1,6-2 | ○ | ○ | ○ | | |
| 8-1 | ○ | ○ | ○ | ▶ | ▶ |
| 8-2,8-3 | ○ | ○ | ○ | ◀ | ◀ |

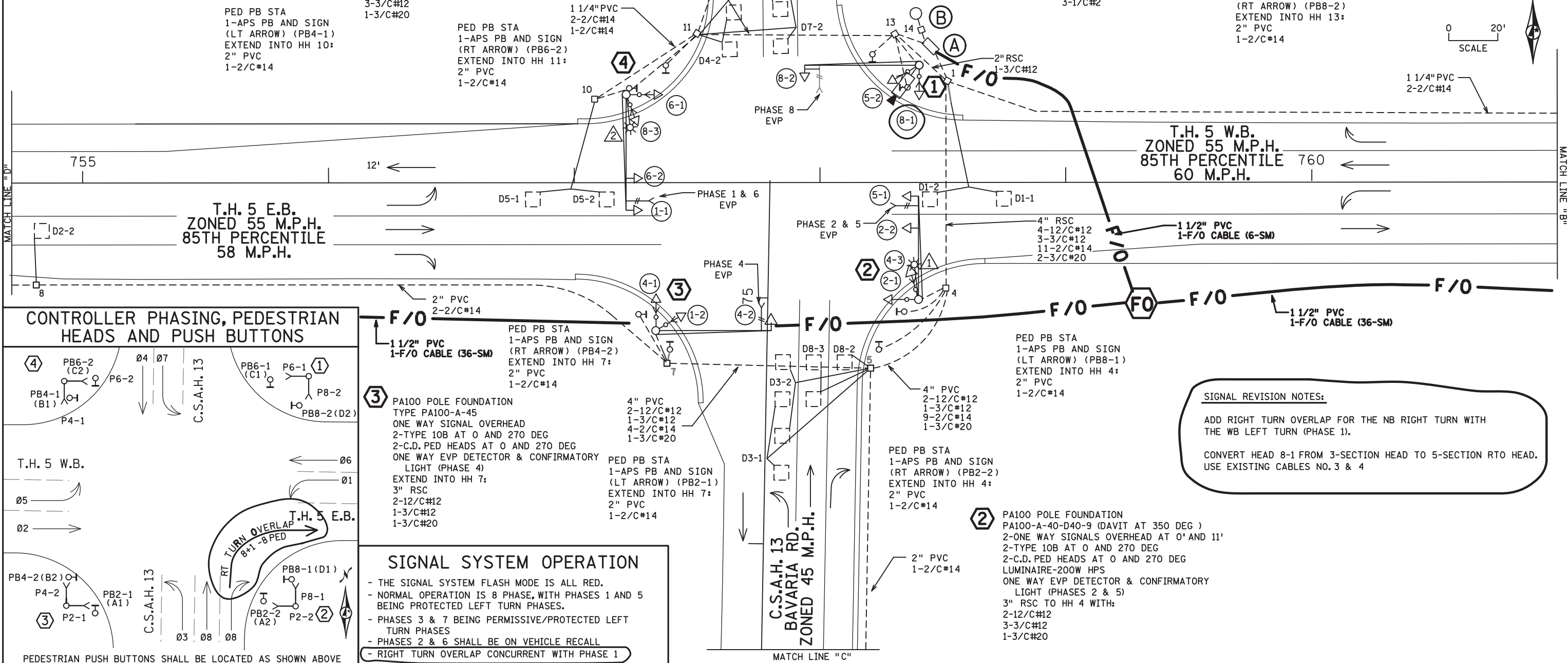


ALL LOOPS ARE PVC UNLESS NOTED
 LOCATION = DISTANCE IN FT. FROM CROSSWALK TO FRONT OF DETECTOR

4 PA100 POLE FOUNDATION
 PA100-A-45-D40-9 (DAVIT AT 350 DEG)
 2-ONE WAY SIGNALS OVERHEAD AT 0° AND 11°
 2-TYPE 10B AT 0 AND 270 DEG
 2-C.D. PED HEADS AT 0 AND 270 DEG
 LUMINAIRE-200W HPS
 ONE WAY EVP DETECTOR & CONFIRMATORY LIGHT (PHASES 1 & 6)
 3" RSC TO HH 11 WITH:
 2-12/C#12
 3-3/C#12
 1-3/C#20

PED PB STA
 1-APS PB AND SIGN (LT ARROW) (PB4-1)
 EXTEND INTO HH 10:
 2" PVC
 1-2/C#14

PED PB STA
 1-APS PB AND SIGN (RT ARROW) (PB6-2)
 EXTEND INTO HH 11:
 2" PVC
 1-2/C#14



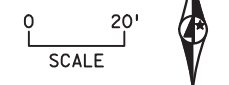
1 PA100 POLE FOUNDATION
 TYPE PA100-A-45-X-400 (AT 350 DEG)
 1-VIDEO CAMERA
 2-TYPE 10B AT 0 AND 270 DEG
 ONE WAY EVP DETECTOR & CONFIRMATORY LIGHT (PHASE 8)
 2-C.D. PED HEADS AT 0 AND 270 DEG
 3" RSC INTO HH 13 WITH:
 2-12/C#12
 2-3/C#12
 1-3/C#20
 1-7/16" GROUNDING BRAID
 1-3/C#14 (CAMERA POWER)
 1-COM CABLE
 1-COAXIAL CABLE

A EQUIPMENT PAD
 CONTROLLER & CABINET
 SERVICE CABINET
 CABINET TO HH 13
 4" RSC
 4-12/C#12
 4-3/C#12
 10-2/C#14
 2-3/C#20
 1-3/C#14 (CAMERA POWER)
 1-COM CABLE
 1-COAXIAL CABLE
 CONTROLLER CABINET TO TMS PULL VAULT:
 1-1/2" PVC INSIDE EXISTING 3" RSC
 1-FO PATCH/PIGTAIL (6SM)

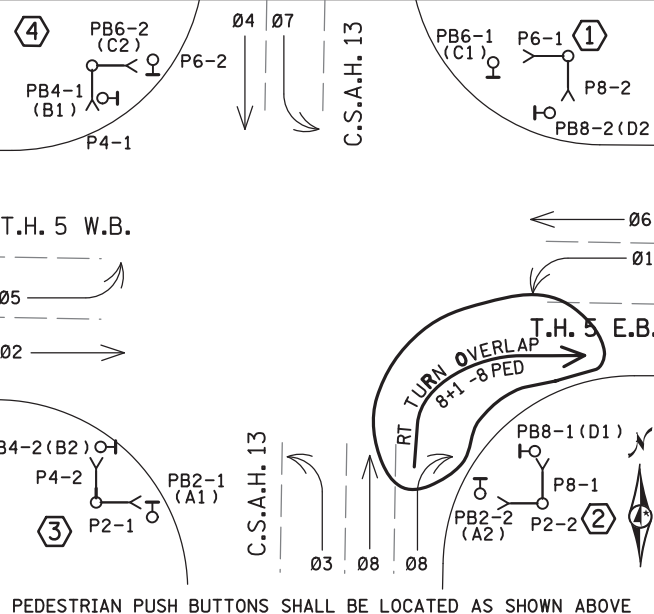
SERVICE CABINET TO CONTROLLER CABINET
 2" RSC
 2-1/C#6
 1-1/C#6 INS. GR.
 2" RSC
 2-3/C#12 (LUM)

PED PB STA
 1-APS PB AND SIGN (RT ARROW) (PB8-2)
 EXTEND INTO HH 13:
 2" PVC
 1-2/C#14

B SOP
 25' WOOD POLE
 2" RSC RISER & WEATHERHEAD
 3-1/C#2
 2" RSC TO HH 14
 3-1/C#2



CONTROLLER PHASING, PEDESTRIAN HEADS AND PUSH BUTTONS



3 PA100 POLE FOUNDATION
 TYPE PA100-A-45
 ONE WAY SIGNAL OVERHEAD
 2-TYPE 10B AT 0 AND 270 DEG
 2-C.D. PED HEADS AT 0 AND 270 DEG
 ONE WAY EVP DETECTOR & CONFIRMATORY LIGHT (PHASE 4)
 EXTEND INTO HH 7:
 3" RSC
 2-12/C#12
 1-3/C#12
 1-3/C#20

PED PB STA
 1-APS PB AND SIGN (LT ARROW) (PB2-1)
 EXTEND INTO HH 7:
 2" PVC
 1-2/C#14

PED PB STA
 1-APS PB AND SIGN (LT ARROW) (PB8-1)
 EXTEND INTO HH 4:
 2" PVC
 1-2/C#14

2 PA100 POLE FOUNDATION
 TYPE PA100-A-40-D40-9 (DAVIT AT 350 DEG)
 2-ONE WAY SIGNALS OVERHEAD AT 0° AND 11°
 2-TYPE 10B AT 0 AND 270 DEG
 2-C.D. PED HEADS AT 0 AND 270 DEG
 LUMINAIRE-200W HPS
 ONE WAY EVP DETECTOR & CONFIRMATORY LIGHT (PHASES 2 & 5)
 3" RSC TO HH 4 WITH:
 2-12/C#12
 3-3/C#12
 1-3/C#20

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

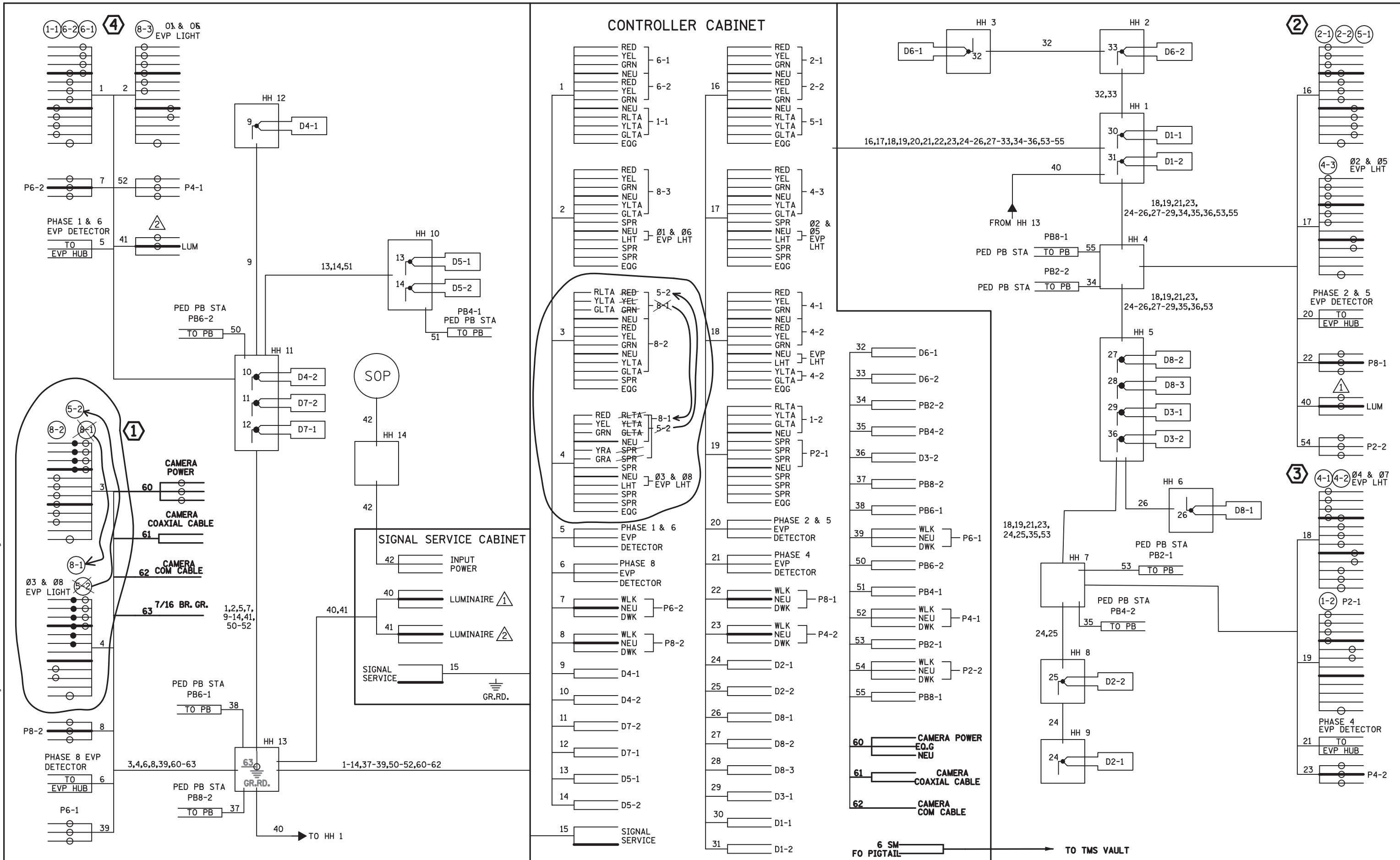
SIGNAL SYSTEM OPERATION

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

SIGNAL REVISION NOTES:
 ADD RIGHT TURN OVERLAP FOR THE NB RIGHT TURN WITH THE WB LEFT TURN (PHASE 1).
 CONVERT HEAD 8-1 FROM 3-SECTION HEAD TO 5-SECTION RTO HEAD. USE EXISTING CABLES NO. 3 & 4

| | | | | | | | | |
|---------|----------------|-----------------------------------|------------------------------|---|------------|---|-------------|-------------------------|
| BY: EJA | DATE: 01-14-15 | REVISIONS: AS-BUILT OF SP 1002-98 | SYSTEM ID: 1734967 | T.E. 77508 | S.A.P. NO. | DRAWN BY: MAS | CKD BY: CDB | DATE: 11/9/12 |
| | | | METER ADDRESS: 699 TH 5 EAST | INTERSECTION LAYOUT T.H. 5 AT C.S.A.H. 13 (ROLLING ACRES ROAD) IN VICTORIA, CARVER COUNTY | | CERTIFIED BY: _____ LICENSED PROFESSIONAL ENGINEER | | DATE: 11/9/12 |
| | | | OLD SYSTEM ID: 20074 | | | STATE PROJ. NO. (T.H. 5) | | SHEET NO. 1 OF 3 SHEETS |

DISTRICT #: Metro
 IPLOT NAME: NEWESTT20074_SGL
 PATH & FILENAME: Projects\DM_POS\005\0000\Traffic\Signals\4046 TH5 @ CSAH13\ROLLING ACRES-BAYARIA 1734967\NEWESTT20074_SGL\B610: 26-OCT-2022



| BY | DATE | REVISIONS |
|-----|----------|------------------------|
| EJA | 01-14-15 | AS-BUILT OF SP 1002-98 |

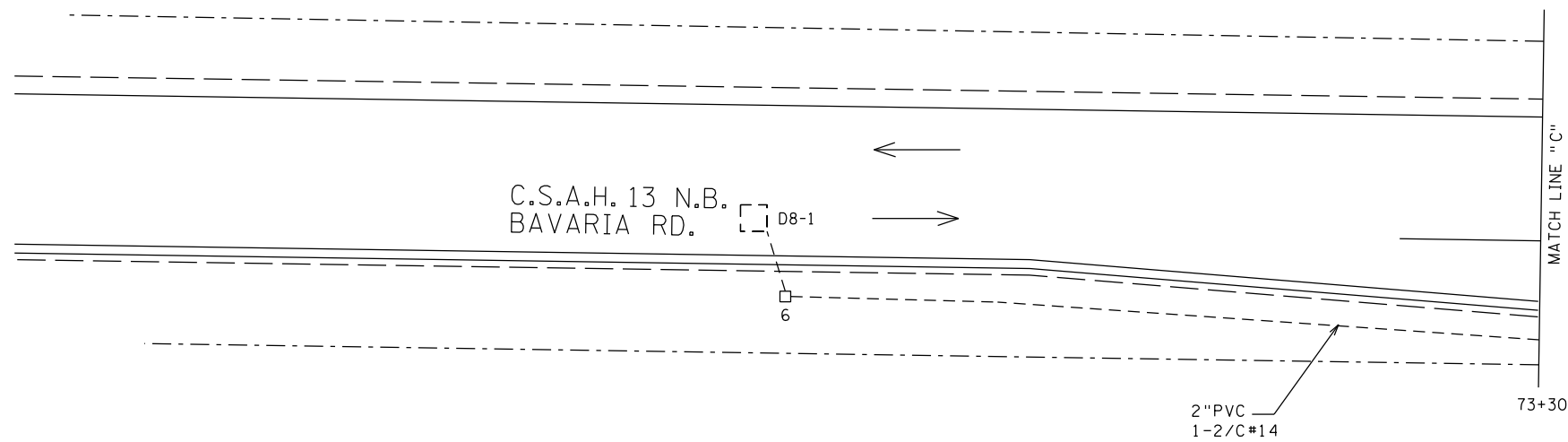
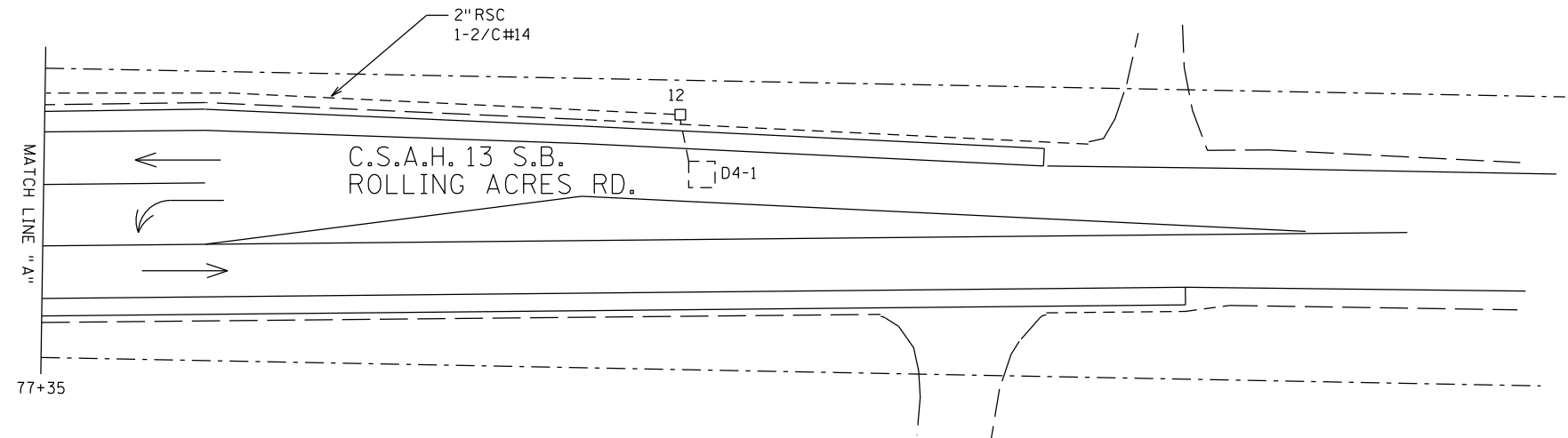
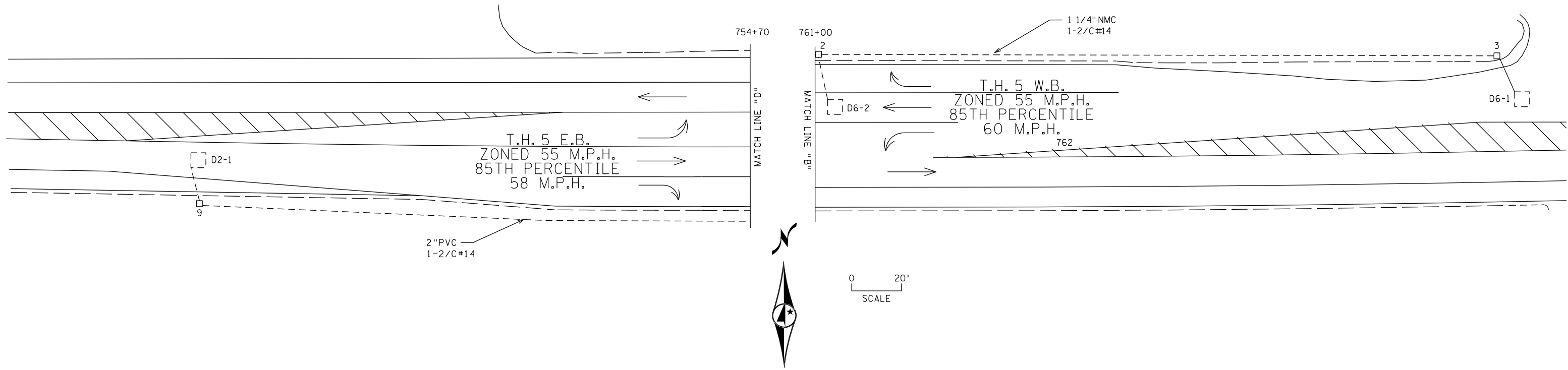
SYSTEM ID: 1734967
 T.E. 77508
 METER ADDRESS: 699 TH 5 EAST
 OLD SYSTEM ID: 20074

WIRING DIAGRAM
T.H. 5 AT C.S.A.H. 13(ROLLING ACRES ROAD)
IN VICTORIA, CARVER COUNTY

| | | | |
|--------------------------|----------------|-------------------------|---------------|
| S.A.P. NO. | DRAWN BY: MAS | CKD BY: GAK | DATE: 11/9/12 |
| CERTIFIED BY _____ | LIC. NO. _____ | DATE: 11/9/12 | |
| STATE PROJ. NO. (T.H. 5) | | SHEET NO. 3 OF 3 SHEETS | |

PLOTTED/REVISED: \$\$\$@DATE@\$\$\$

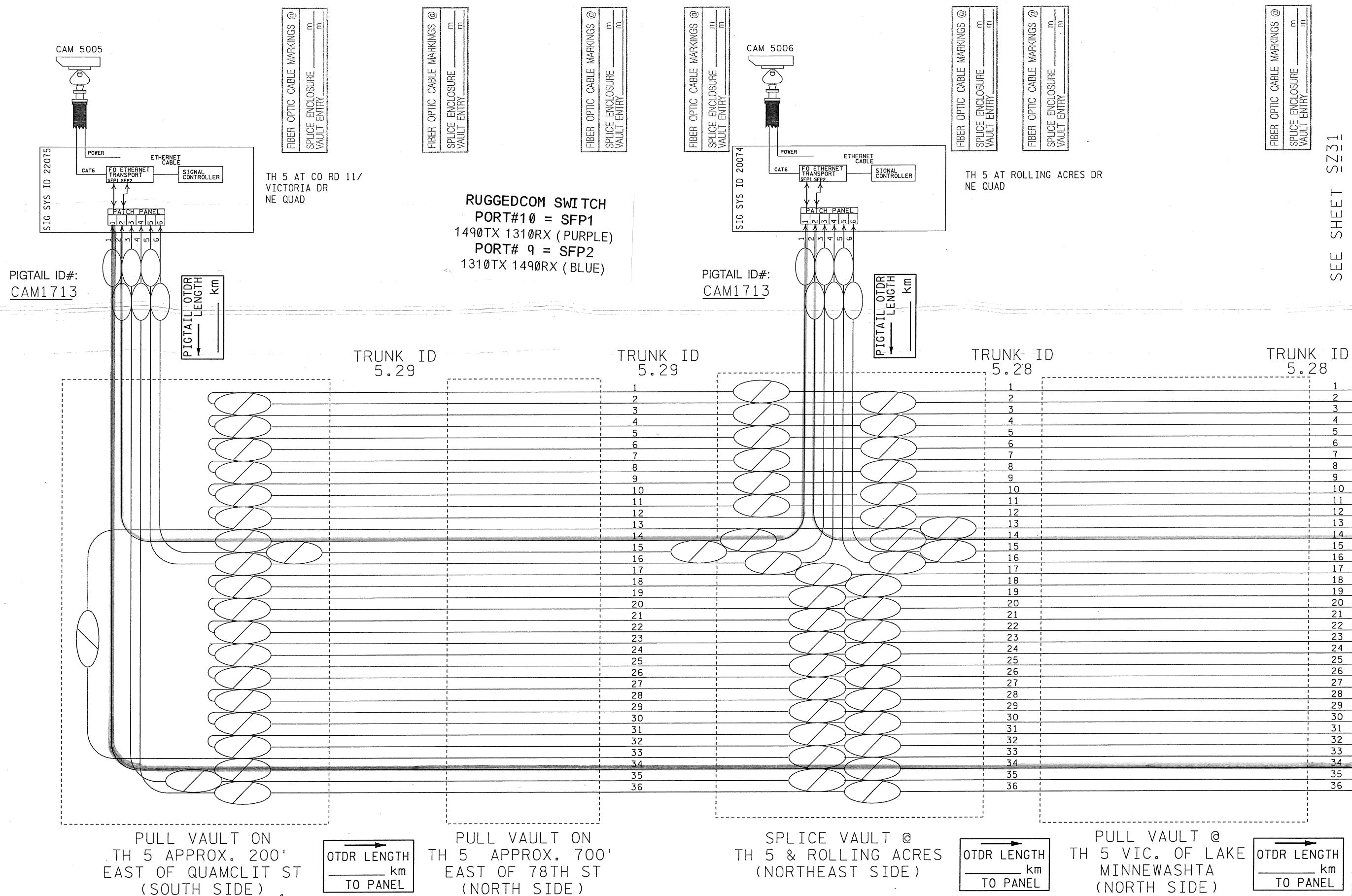
DISTRICT #: @@DISTRICT@
PLOT NAME: @@PLOT\$NAME@
PATH & FILENAME: \$\$\$@PATH\$FILENAME@\$\$\$



| | | | | | | | | |
|-----|----------|------------------------|------------------------------|-----------|------------------------|----------------|-------------------------|----------------|
| BY | DATE | REVISIONS | SYSTEM ID: 20074 | T.E. 5457 | S.A.P. NO. | DRAWN BY: BTJ | CKD BY: MAS | DATE: 10-25-11 |
| EJA | 01-14-15 | AS-BUILT OF SP 1002-98 | METER ADDRESS: 699 TH 5 EAST | | CERTIFIED BY _____ | LIC. NO. _____ | DATE: 10-26-11 | |
| | | | MASTER ID: | T.E. | STATE PROJ. NO. (TH 5) | | SHEET NO. 2 OF 3 SHEETS | |

MATCHLINES
T.H. 5 AT C.S.A.H. 13 (ROLLING ACRES ROAD)
IN VICTORIA, CARVER COUNTY

LICENSED PROFESSIONAL ENGINEER



FIBER OPTIC CABLE MARKINGS @
 SPLICE ENCLOSURE _____ m
 VAULT ENTRY _____ m

FIBER OPTIC CABLE MARKINGS @
 SPLICE ENCLOSURE _____ m
 VAULT ENTRY _____ m

FIBER OPTIC CABLE MARKINGS @
 SPLICE ENCLOSURE _____ m
 VAULT ENTRY _____ m

FIBER OPTIC CABLE MARKINGS @
 SPLICE ENCLOSURE _____ m
 VAULT ENTRY _____ m

FIBER OPTIC CABLE MARKINGS @
 SPLICE ENCLOSURE _____ m
 VAULT ENTRY _____ m

FIBER OPTIC CABLE MARKINGS @
 SPLICE ENCLOSURE _____ m
 VAULT ENTRY _____ m

FIBER OPTIC CABLE MARKINGS @
 SPLICE ENCLOSURE _____ m
 VAULT ENTRY _____ m

TH 5 AT CO RD 11/
 VICTORIA DR
 NE QUAD

TH 5 AT ROLLING ACRES DR
 NE QUAD

RUGGEDCOM SWITCH
 PORT#10 = SFP1
 1490TX 1310RX (PURPLE)
 PORT# 9 = SFP2
 1310TX 1490RX (BLUE)

PIGTAIL ID#:
 CAM1713

PIGTAIL ID#:
 CAM1713

PIGTAIL OTRD
 LENGTH
 _____ km

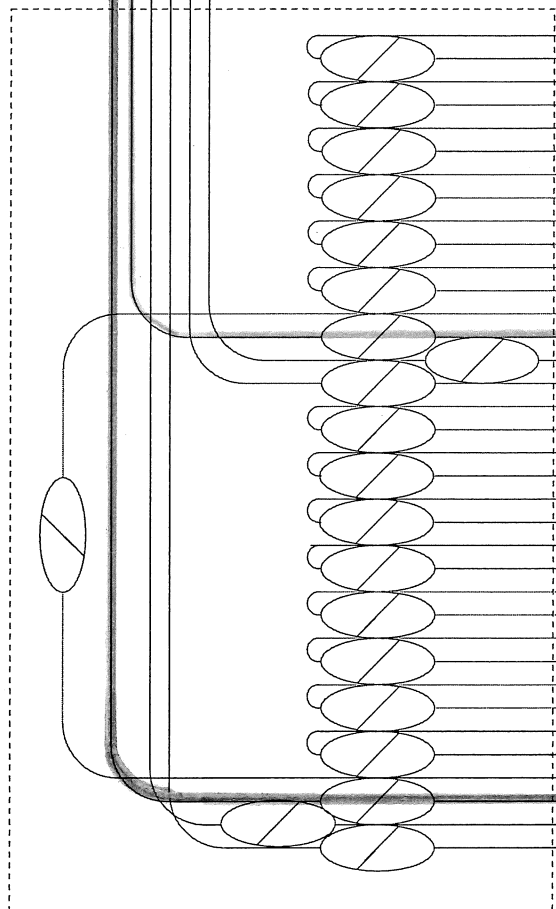
PIGTAIL OTRD
 LENGTH
 _____ km

TRUNK ID
 5.29

TRUNK ID
 5.29

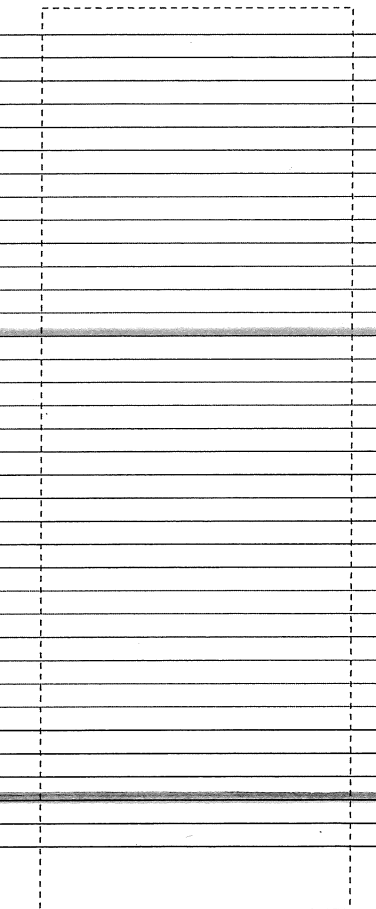
TRUNK ID
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TRUNK ID
 5.28

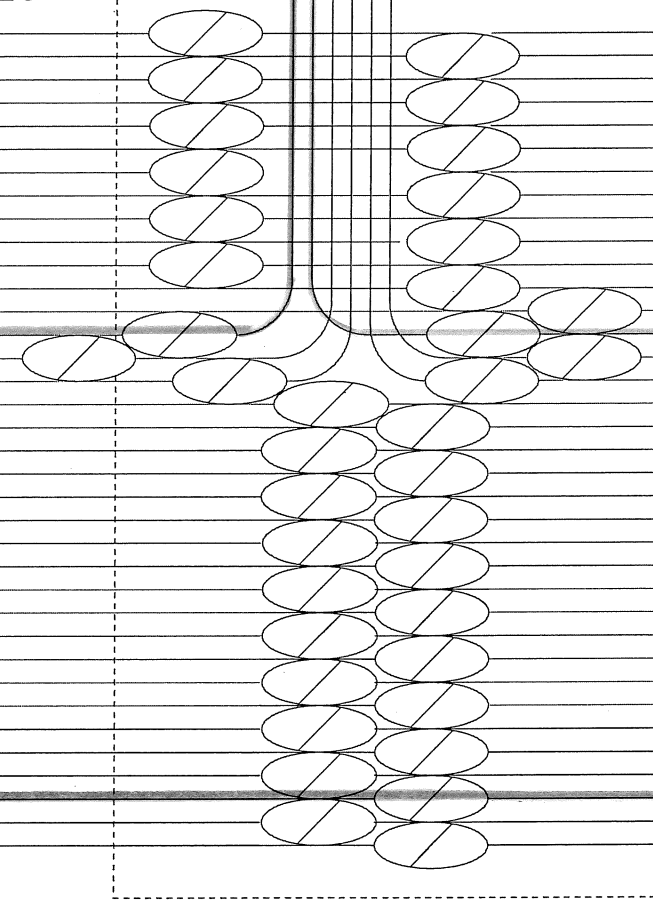


PULL VAULT ON
 TH 5 APPROX. 200'
 EAST OF QUAMCLIT ST
 (SOUTH SIDE)

OTDR LENGTH
 _____ km
 TO PANEL

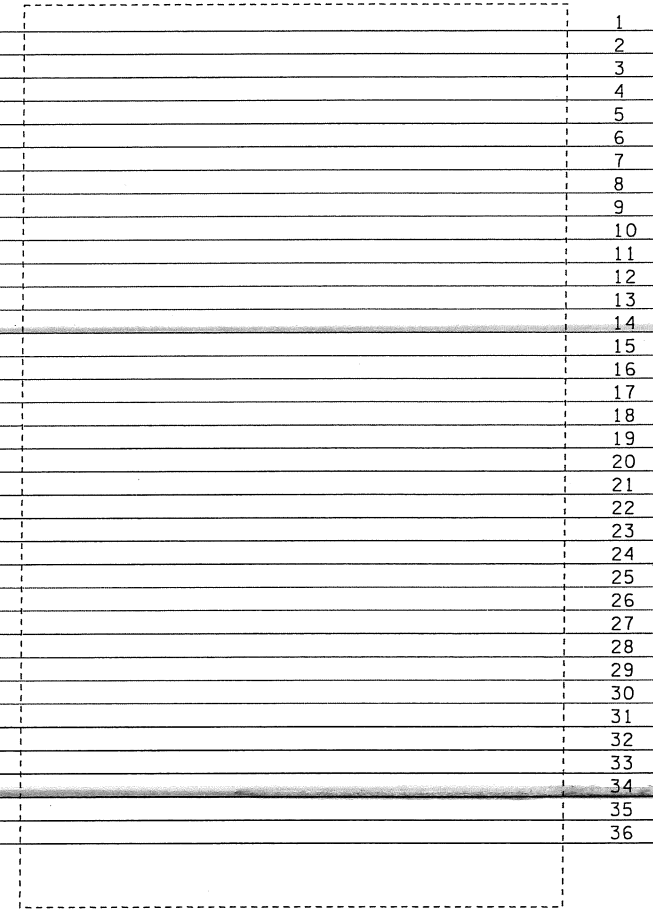


PULL VAULT ON
 TH 5 APPROX. 700'
 EAST OF 78TH ST
 (NORTH SIDE)



SPLICE VAULT @
 TH 5 & ROLLING ACRES
 (NORTHEAST SIDE)

OTDR LENGTH
 _____ km
 TO PANEL



PULL VAULT @
 TH 5 VIC. OF LAKE
 MINNEWASHTA
 (NORTH SIDE)

OTDR LENGTH
 _____ km
 TO PANEL

| | |
|----------|-----------|
| REV. NO. | DATE: / / |
| REV. NO. | DATE: / / |

CERTIFIED BY *[Signature]*
 LICENSED PROFESSIONAL ENGINEER

LIC. NO. 26530 OCT. 25 2012

STATE PROJ. NO. 1002-98 (TH 5) SHEET NO. SZ30 OF SZ50 SHEETS

SEE SHEET SZ31