

LOOP DETECTOR CHART		
NUMBER	SIZE (FT)	LOCATION
D1-1	2-6x6	20 & 50
D1-2	2-6x6	5 & 35
D2-1, D2-2	6x6	300
D6-1, D6-2	6x6	300
D8-1, D8-2	6x6	120
D8-3	2-6x6	-5 & 5
D8-4, D8-5	2-6x6	5 & 20

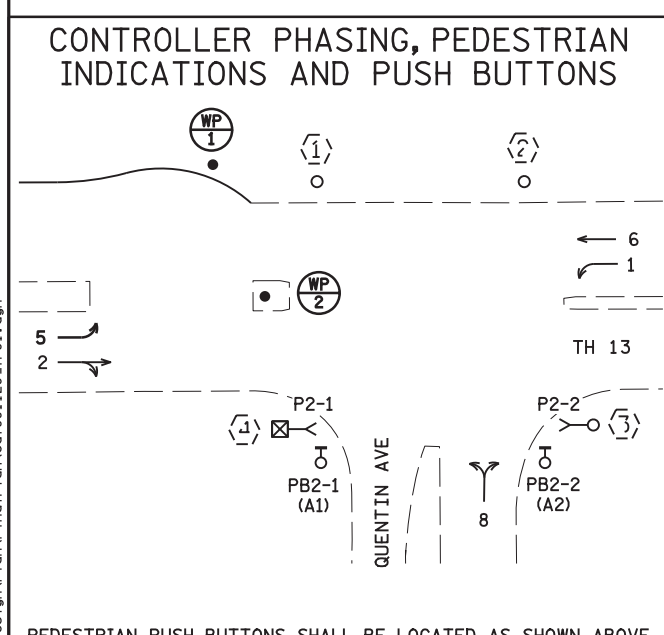
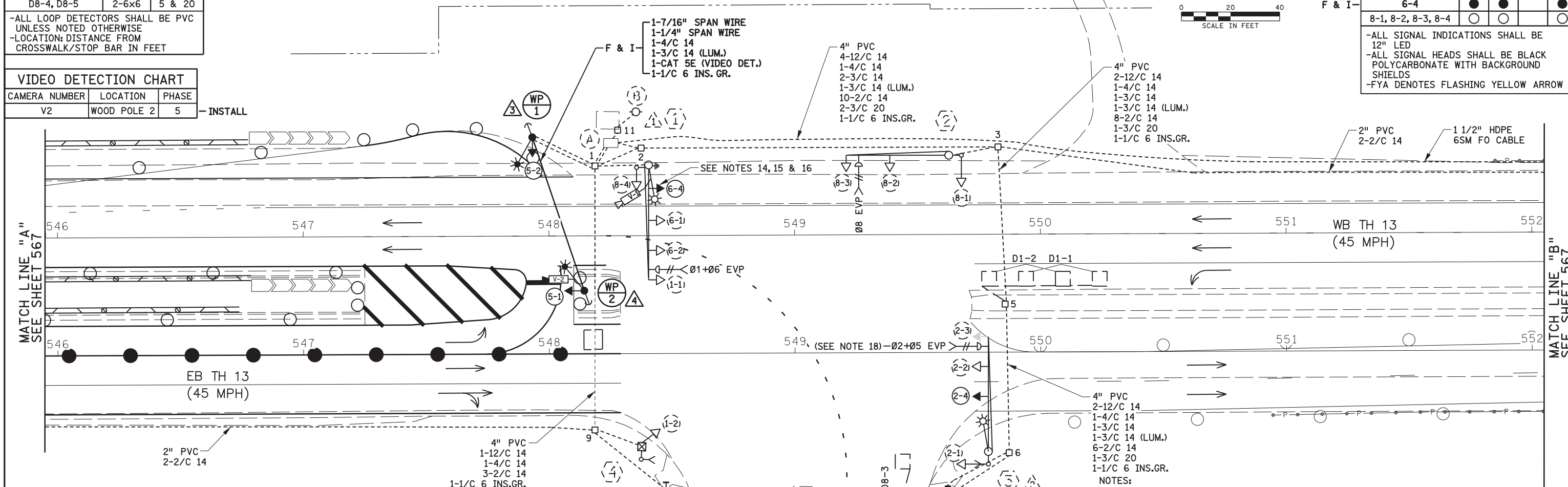
-ALL LOOP DETECTORS SHALL BE PVC UNLESS NOTED OTHERWISE
-LOCATION: DISTANCE FROM CROSSWALK/STOP BAR IN FEET

VIDEO DETECTION CHART		
CAMERA NUMBER	LOCATION	PHASE
V2	WOOD POLE 2	5

-INSTALL

SIGNAL HEAD CHART				
FACE	R	Y	FYA	G
1-1, 1-2	←	←	←	←
2-1, 2-2	○	○		○
2-3	○	○		○
2-4	●	●		●
5-1, 5-2	←	←		←
6-1, 6-2	○	○		○
6-4	●	●		●
8-1, 8-2, 8-3, 8-4	○	○		○

-ALL SIGNAL INDICATIONS SHALL BE 12" LED
-ALL SIGNAL HEADS SHALL BE BLACK POLYCARBONATE WITH BACKGROUND SHIELDS
-FYA DENOTES FLASHING YELLOW ARROW



SIGNAL SYSTEM OPERATION

- THE SIGNAL SYSTEM FLASH MODE IS ALL RED.
- NORMAL OPERATION IS 5 PHASE, WITH PHASE 1 BEING FLASHING YELLOW ARROWS BY TIME OF DAY AND PHASE 5 BEING A PROTECTED U-TURN PHASE
- PHASES 2 AND 6 SHALL BE ON VEHICLE RECALL.

SYSTEM ID NO: 39179
TAMS NO: 1736777
TE NO. 46630
METER ADDRESS:
12275 QUENTIN AVE.

- NOTES:**
1. ALL ITEMS SHOWN ARE INPLACE AND SHALL REMAIN INPLACE UNLESS NOTED OTHERWISE.
 2. SEE SPECIAL PROVISIONS FOR STATE FURNISHED MATERIALS.
 3. REFER TO EXISTING SIGNAL PLANS FOR INPLACE SIGNAL COMPONENTS.
 4. ENSURE THE EXACT LOCATION OF THE WOOD POLES ARE VERIFIED IN THE FIELD BY MNDOT OFFICE PERSONNEL.
 5. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE CONNECTION OF THE POWER.
 6. FOR PAVEMENT MARKINGS AND TRAFFIC CONTROL DEVICES, SEE TRAFFIC CONTROL PLANS.
 7. FOR CONSTRUCTION OF MEDIAN WORK SEE CONSTRUCTION PLANS.
 8. THIS PLAN SPECIFIES CONDUIT SIZES, TYPES, AND GENERAL LOCATIONS. THE EXACT LOCATIONS WILL BE DETERMINED IN THE FIELD.
 9. USE PVC OR HDPE FOR ALL NEW CONDUIT.
 10. CONDUIT SIZES ARE NOMINAL DIAMETER.
 11. ALL WIRES LISTED ARE AWG (AMERICAN WIRE GAUGE).
 12. SEE SHEET 567 FOR INTERSECTION NOTES.
 13. BAG SIGNAL HEAD 2-3 AND DISCONNECT IN THE CONTROLLER CABINET.
 14. FOR STAGE 1B CONSTRUCTION FURNISH AND INSTALL SIGNAL HEAD 6-4 ON MA-1 AT 36' FROM END OF MAST ARM. BAG SIGNAL HEAD 6-2 AND DISCONNECT IN THE CONTROLLER CABINET.
 15. FOR STAGE 1C CONSTRUCTION BAG SIGNAL HEAD 6-4 AND DISCONNECT IN THE CONTROLLER CABINET. UNBAG SIGNAL HEAD 6-2 AND CONNECT IN THE CONTROLLER.
 16. FOR STAGES 2, 2A AND 3 CONSTRUCTION UNBAG SIGNAL HEAD 6-4 AND CONNECT IN THE CONTROLLER CABINET.
 17. FOR STAGE 3A CONSTRUCTION THE SIGNAL SHALL BE REVERTED BACK TO THE ORIGINAL DESIGN AS SHOWN ON THE EXISTING SIGNAL PLANS.
 18. FOR EASTBOUND TH 13, MODIFY EVP DETECTOR, CONFIRMATION LIGHT AND CONFIGURATION IN THE CABINET TO ACCOUNT FOR THE PHASE 5 U-TURN MOVEMENT.
 19. ANY EXISTING LOOP DETECTOR DAMAGED BY MILLING OR PAVING ACTIVITIES SHALL BE REPLACED IN KIND AND MADE OPERATIONAL WITHIN 24 HOURS OF DAMAGE OCCURING. SEE SPECIAL PROVISIONS.

NO	DATE	BY	CKD	APPR	REVISION

cd7001128_tr01.dgn

I hereby certify that this plan, specification, or report 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.

Print Name: **ADRIAN S. POTTER**
Adrian S. Potter
Date: 11-12-21 License #: 42785

STATE PROJECT NO. 7001-128
070-596-015
211-594-001

COUNTY PROJECT NO.

CITY PROJECT NO.

DRAWN BY M. BRESSLER
DESIGNED BY M. BRESSLER
CHECKED BY A. POTTER
COMM. NO. 11432



LOOP DETECTOR CHART

NUMBER	SIZE (FT)	LOCATION
D1-1	6x6	20 & 50
D1-2	6x6	5 & 35
D2-1, D2-2	6x6	300
D6-1, D6-2	6x6	300
D8-1, D8-2	6x6	120
D8-3	6x6	-5 & 5
D8-4, D8-5	2-6x6	5 & 20

-ALL LOOP DETECTORS PVC

-LOCATION: DISTANCE FROM CROSSWALK/STOP BAR IN FEET

1 WB STA 102+56, 30' LT
 PA100 POLE FOUNDATION
 TYPE PA100-A-45-X6-350/CAM 400 (AT 350 DEG)
 VIDEO CAMERA
 LUMINAIRE-250W HPS
 1-ANGLE MOUNT SIGNAL OVERHEAD AT 0'
 1-ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT (PHASES 1 & 6) AT 6'
 2-STRAIGHT MOUNT SIGNALS OVERHEAD AT 11' AND 23'
 ANGLE MOUNT SIGNAL AT 90 DEG
 CAMERA POWER SUPPLY AT 180 DEG
 2-R9-3 SIGNS (FACING POLES 2 & 4)
 1-R10-X12 SIGN ADJACENT TO HEAD 1-1
 1-TYPE D SIGN
 3-PVC TO HH 1: 1-PVC STUB OUT
 2-12/C#14 1-7/16 BRAIDED GR. (TO GR. RD.)
 1-3/C#14 (LUM) 1-1/2" INS. GR. (FROM POWER SUPPLY)
 1-3/C#14
 1-3/C#20
 1-1/2" INS. GR.
 1-3/C#14 (CAMERA POWER)
 1-7.5PR#24 (COM CABLE)
 1-COAXIAL CABLE

2 WB STA 103+76, 30' LT
 PA100 POLE FOUNDATION
 TYPE PA100-A-40-D40-9 (DAVIT AT 350 DEG)
 LUMINAIRE-250W HPS
 1-ANGLE MOUNT SIGNAL OVERHEAD AT 0'
 1-ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT (PHASES 3 & 8) AT 6'
 1-STRAIGHT MOUNT SIGNAL OVERHEAD AT 18'
 1-ANGLE MOUNT SIGNAL AT 180 DEG
 2-R9-3 SIGNS (FACING POLES 1 & 3)
 1-TYPE D SIGN
 3-PVC TO HH 3:
 2-12/C#14
 1-3/C#14
 1-3/C#20
 1-1/2" INS. GR.

SIGNAL HEAD CHART

FACE	R	Y	FYA	G
1-1, 1-2	←	←	←	←
2-1, 2-2, 2-3	○	○	○	○
6-1, 6-2	○	○	○	○
8-1, 8-2	○	○	○	○
8-3, 8-4	○	○	○	○

-ALL SIGNAL INDICATIONS ARE 12" LED
 -ALL SIGNAL HEADS ARE BLACK POLYCARBONATE WITH BACKGROUND SHIELDS

A EQUIPMENT PAD
 SERVICE CABINET (BATTERIES INCLUDED)
 CONTROLLER AND CABINET
 4" PVC TO HH 1:
 3-12/C#14 4" PVC TO HH 2
 1-4/C#14 4-12/C#14
 1-3/C#14 1-4/C#14
 1-3/C#20 2-3/C#14
 3-2/C#14 3-3/C#20
 1-1/2" INS. GR. 10-2/C#14
 3" PVC STUBBED OUT - CAPPED BOTH ENDS
 3/4" PVC STUBBED OUT CAPPED FOR TELEPHONE LINE
 2" PVC TO SERVICE CABINET
 2-1/2" C#6
 1-1/2" INS. GR.
 2" PVC TO SERVICE CABINET (COMMS)

TO TMS VAULT:
 1 1/2" PVC
 1-6SM FO PIGTAIL (SEE TMS PLAN)

SERVICE CABINET TO HH 1:
 2" PVC
 3-1/2" C#2
 SERVICE CABINET TO HH 1:
 2" PVC
 2-3/C#14 (LUM)
 1-3/C#14 (CAMERA POWER)
 HH 2 TO HH 1:
 2" PVC
 1-3/C#14 (LUM)

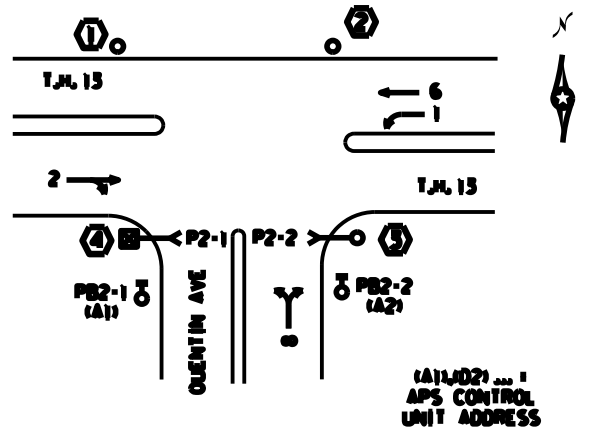
B SOP-25' WOOD POLE
 2" PVC RISER & WEATHERHEAD
 3-1/2" C#2
 2" PVC TO HH 1:
 3-1/2" C#2

4 WB STA 102+51, 38' RT
 PEDESTAL FOUNDATION
 13' PEDESTAL POLE PLUS BASE
 1-STRAIGHT MOUNT SIGNAL
 1-STRAIGHT MOUNT CD PED HEAD
 1-R9-3 SIGN (FACING POLE 1)
 3" PVC TO HH 9:
 1-12/C#14
 1-4/C#14
 1-1/2" INS. GR.

PED PUSH BUTTON STATION
 1-APS PEDESTRIAN PUSH BUTTON AND SIGN (LT ARROW PB2-1)
 2" PVC INTO HH 9:
 1-2/C#14

SIGNAL SYSTEM OPERATION

- THE SIGNAL SYSTEM FLASH MODE IS ALL RED.
- NORMAL OPERATION IS 4 PHASE, WITH PHASE 1 BEING A FLASHING YELLOW ARROW BY TIME OF DAY, PHASE.
- PHASES 2 AND 6 SHALL BE ON VEHICLE RECALL.



BY	DATE	REVISIONS
EJA	05-12-15	AS-BUILT OF SP 7001-106 (NEW SIGNAL)

SYSTEM ID: 39179 T.E.
 METER ADDRESS: 12275 QUENTIN AVE
 MASTER ID: N/A FIBER T.E.

**INTERSECTION LAYOUT
 TH 13 AT QUENTIN AVENUE
 IN SAVAGE, SCOTT COUNTY**

S.A.P. NO.	DRAWN BY:	CHKD BY:	DATE:

CERTIFIED BY: _____ LIC. NO. _____ DATE: _____

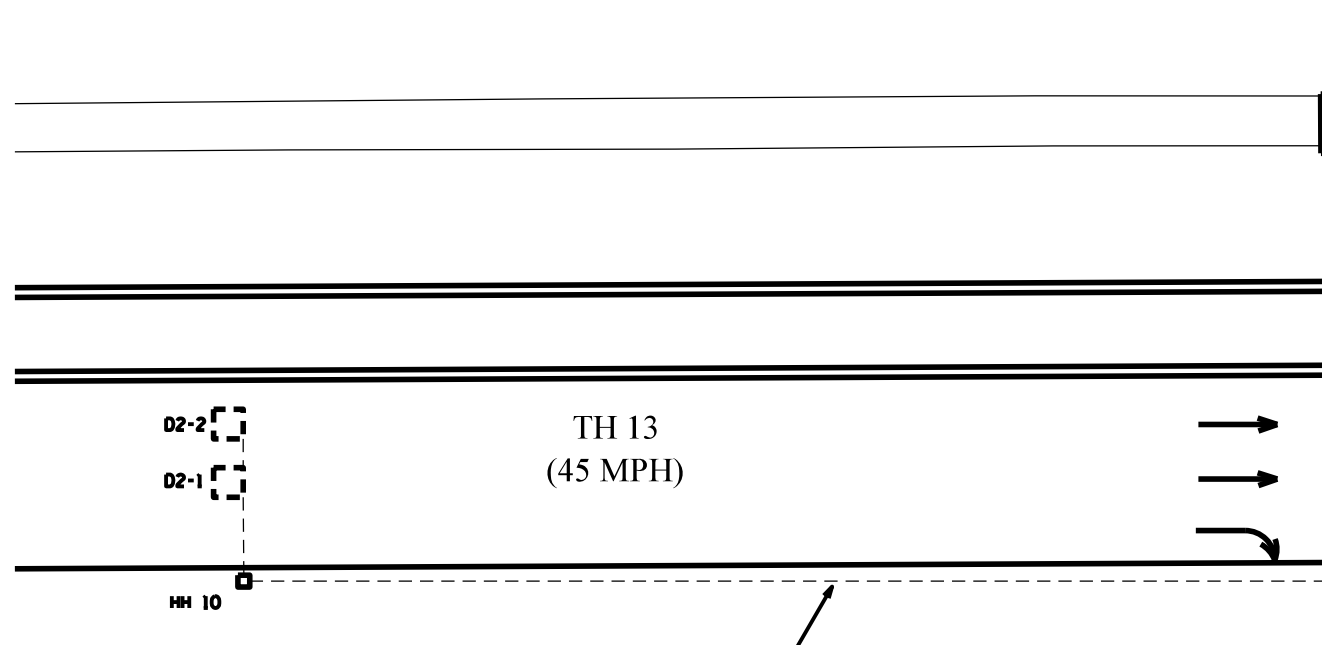
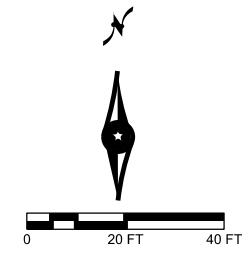
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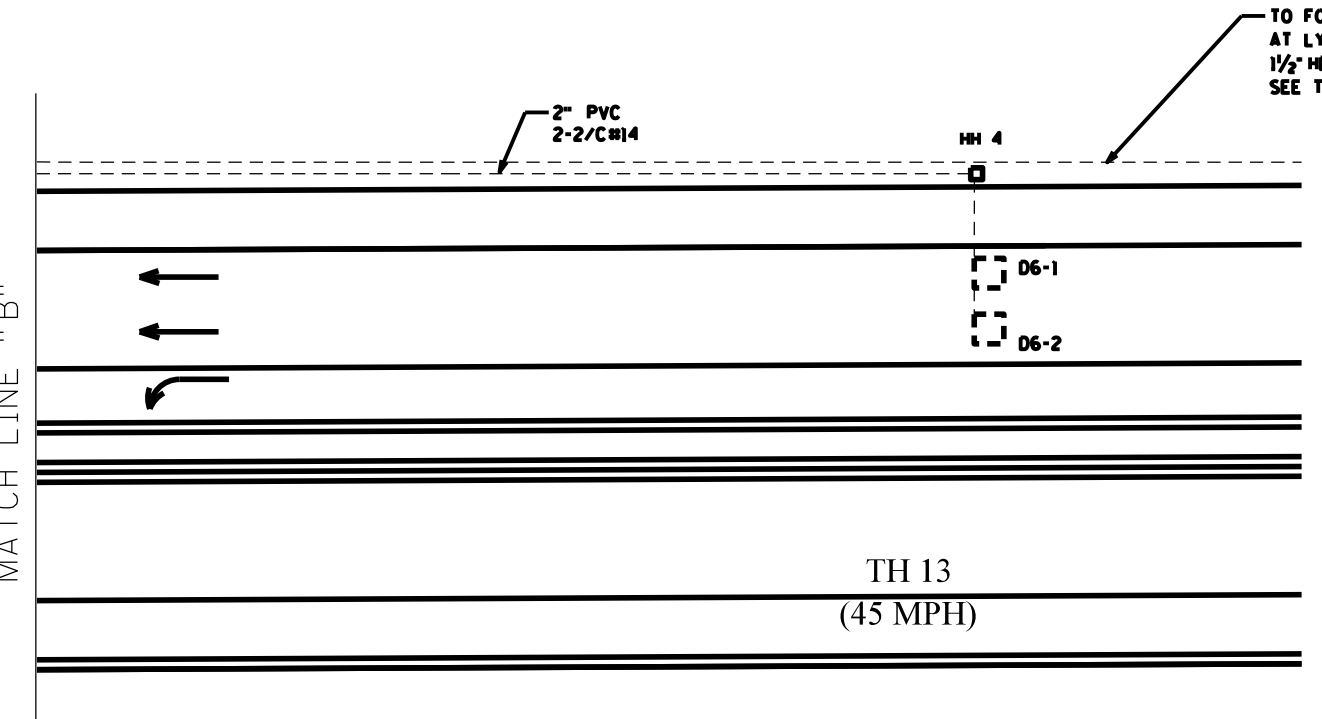
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PLOTTED/REVISED: \$\$\$@DATE\$\$\$\$

DISTRICT: \$\$\$@DISTRICT\$\$\$
PLOT NAME: \$\$\$@PLOTNAME\$\$\$
PATH & FILENAME: \$\$\$@PATHFILENAME\$\$\$



MATCH LINE "A"



MATCH LINE "B"

BY	DATE	REVISIONS
EJA	03-12-15	AS-BUILT OF SP 7001-106 (NEW SIGNAL)

SYSTEM ID: 39179 T.E.
 METER ADDRESS: 12275 QUENTIN AVE
 MASTER ID: N/A FIBER T.E.

**MATCHLINE LAYOUT
 TH 13 AT QUENTIN AVENUE
 IN SAVAGE, SCOTT COUNTY**

S.A.P. NO.	DRAWN BY:	CHKD BY:	DATE:
CERTIFIED BY: _____	LIC. NO. _____	DATE: _____	
STATE PROJ. NO.	TH 13	SHEET NO.	2 OF 3 SHEETS

