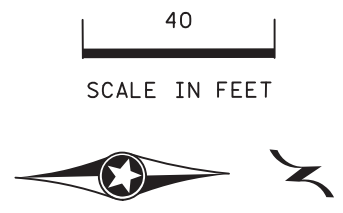


PLOTTED/REVISED: 14-DEC-2023

DISTRICT #: Metro
PLOT NAME: T39357_sgl_7B
FILENAME: Projects\DM_FOS\06500000\Traffic\Signals\2899_39357_CSAH_74_221ST_AVE_NE_1736834\PENDING\T39357_sgl.dgn

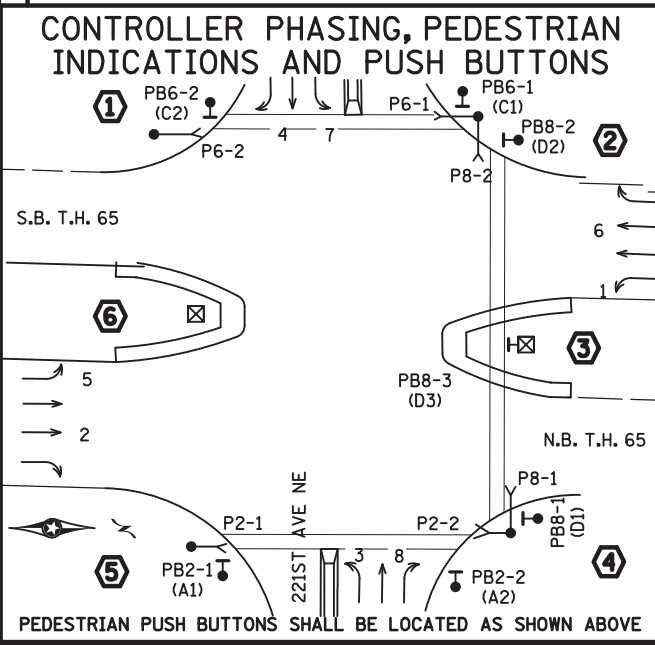
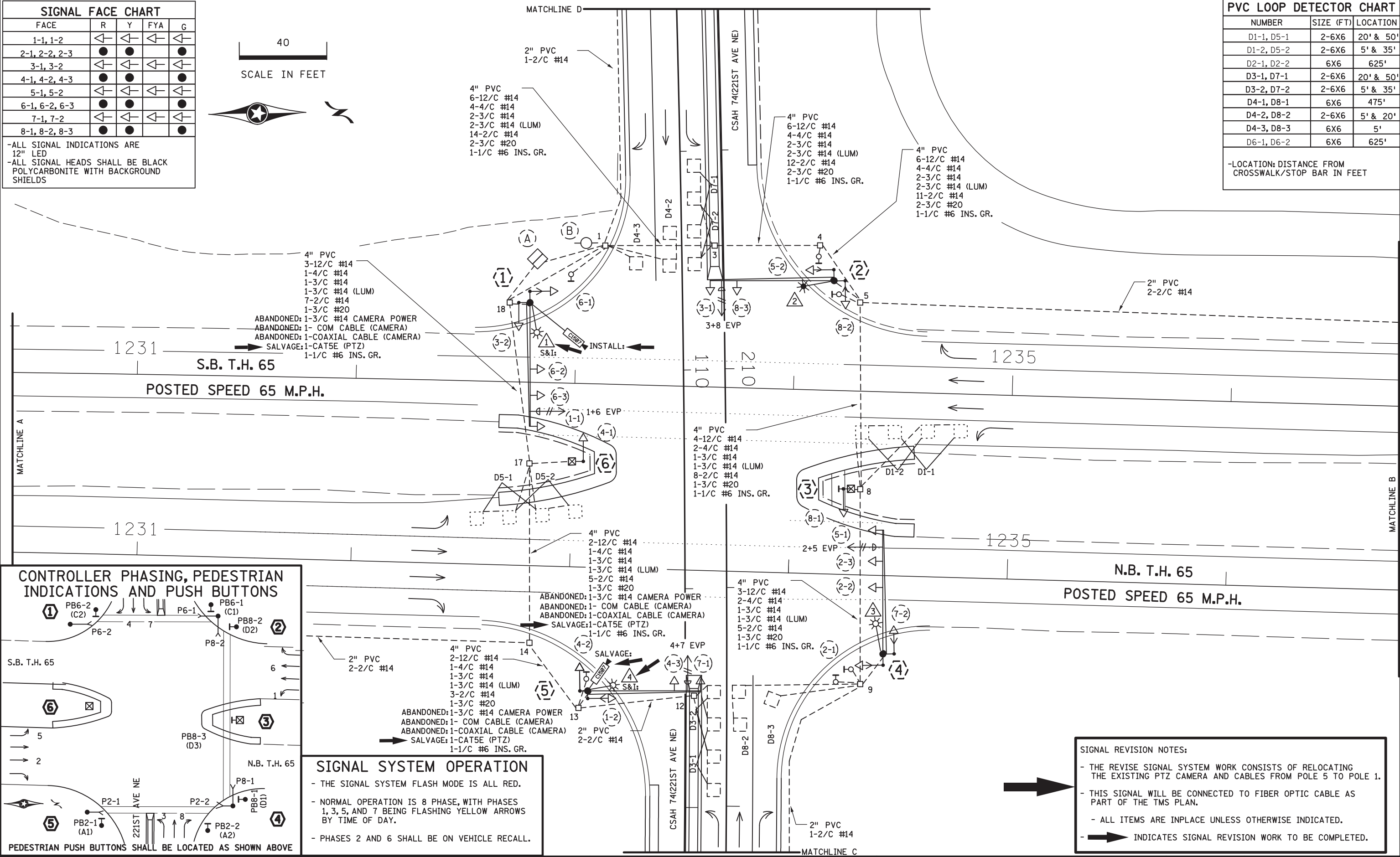
SIGNAL FACE CHART				
FACE	R	Y	FYA	G
1-1, 1-2	◀	◀	◀	◀
2-1, 2-2, 2-3	●	●	●	●
3-1, 3-2	◀	◀	◀	◀
4-1, 4-2, 4-3	●	●	●	●
5-1, 5-2	◀	◀	◀	◀
6-1, 6-2, 6-3	●	●	●	●
7-1, 7-2	◀	◀	◀	◀
8-1, 8-2, 8-3	●	●	●	●

-ALL SIGNAL INDICATIONS ARE 12" LED
-ALL SIGNAL HEADS SHALL BE BLACK POLYCARBONITE WITH BACKGROUND SHIELDS



PVC LOOP DETECTOR CHART		
NUMBER	SIZE (FT)	LOCATION
D1-1, D5-1	2-6X6	20' & 50'
D1-2, D5-2	2-6X6	5' & 35'
D2-1, D2-2	6X6	625'
D3-1, D7-1	2-6X6	20' & 50'
D3-2, D7-2	2-6X6	5' & 35'
D4-1, D8-1	6X6	475'
D4-2, D8-2	2-6X6	5' & 20'
D4-3, D8-3	6X6	5'
D6-1, D6-2	6X6	625'

-LOCATION: DISTANCE FROM CROSSWALK/STOP BAR IN FEET



SIGNAL SYSTEM OPERATION

- THE SIGNAL SYSTEM FLASH MODE IS ALL RED.
- NORMAL OPERATION IS 8 PHASE, WITH PHASES 1, 3, 5, AND 7 BEING FLASHING YELLOW ARROWS BY TIME OF DAY.
- PHASES 2 AND 6 SHALL BE ON VEHICLE RECALL.

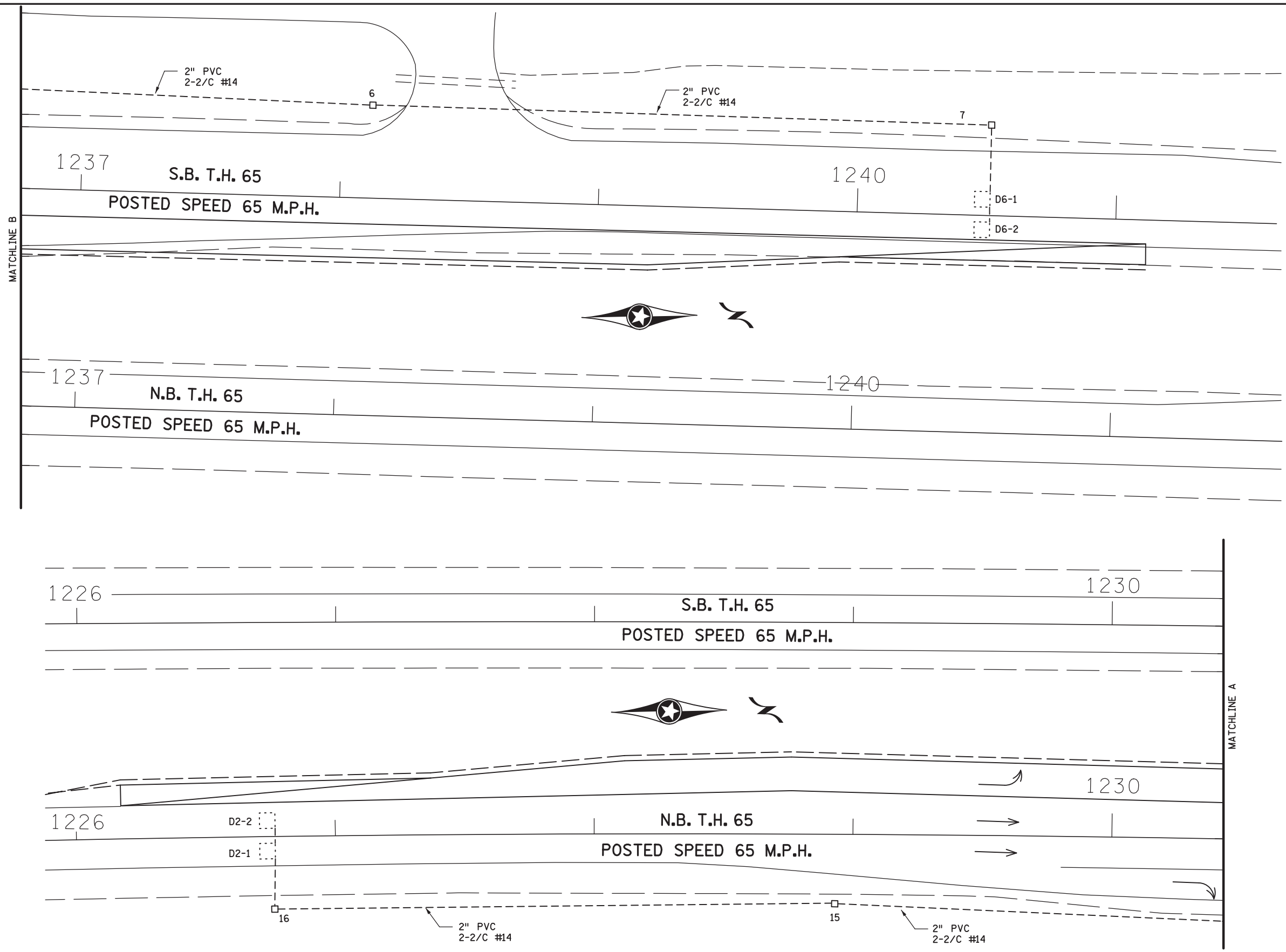
SIGNAL REVISION NOTES:

- THE REVISE SIGNAL SYSTEM WORK CONSISTS OF RELOCATING THE EXISTING PTZ CAMERA AND CABLES FROM POLE 5 TO POLE 1.
- THIS SIGNAL WILL BE CONNECTED TO FIBER OPTIC CABLE AS PART OF THE TMS PLAN.
- ALL ITEMS ARE IN PLACE UNLESS OTHERWISE INDICATED.
- INDICATES SIGNAL REVISION WORK TO BE COMPLETED.

BY	DATE	REVISIONS	SYSTEM ID: 1736834	T.E. 103238	REVISE SIGNAL SYSTEM "T" INTERSECTION LAYOUT TH 65 AT CSAH 74 (221ST AVE NE) IN EAST BETHEL, ANOKA COUNTY	S.P.002-632-021, S.P.106-020-040, S.P.106-125-009	DRAWN BY:HRL	CKD BY:CDB	DATE:10/10/23
			METER ADDRESS:			CERTIFIED BY	LIC. NO. 26829	DATE: 12/8/23	
			OLD SYSTEM ID: 39357			STATE PROJ.NO. 0208-165 (T.H.65) SHEET NO. SS83 OF SS87 SHEETS			

PLOTTED/REVISED: 3-NOV-2023

DISTRICT *: Metro
PLOT NAME: T39357_sgl_79
FILENAME: Projects\DM_FOS\06500000\Traffic\Signals\2899_39357_CSAH 74_ 221ST_AVE_NE 1736834\PENDING\T39357_sgl.dgn



NOTE: THERE IS NOT ANY SIGNAL WORK REQUIRED ON THIS SHEET.

BY	DATE	REVISIONS

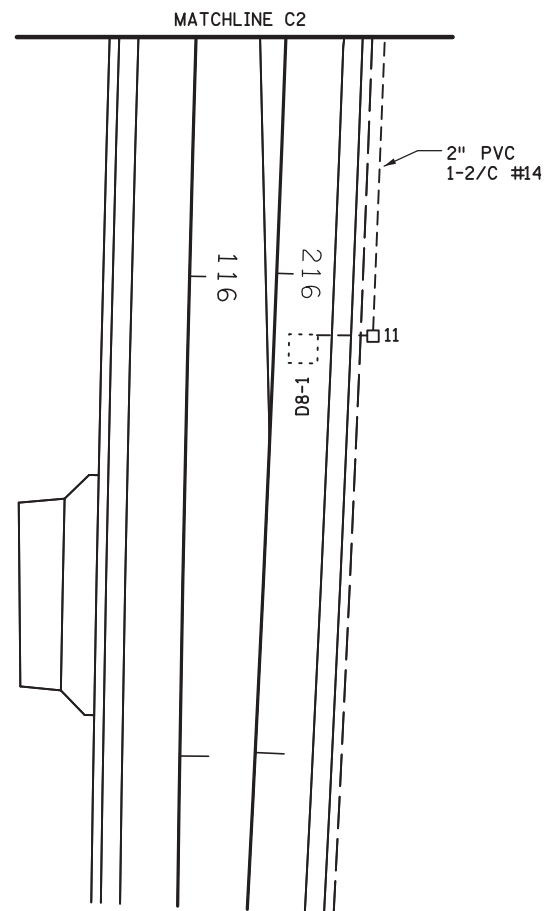
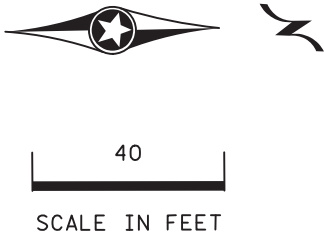
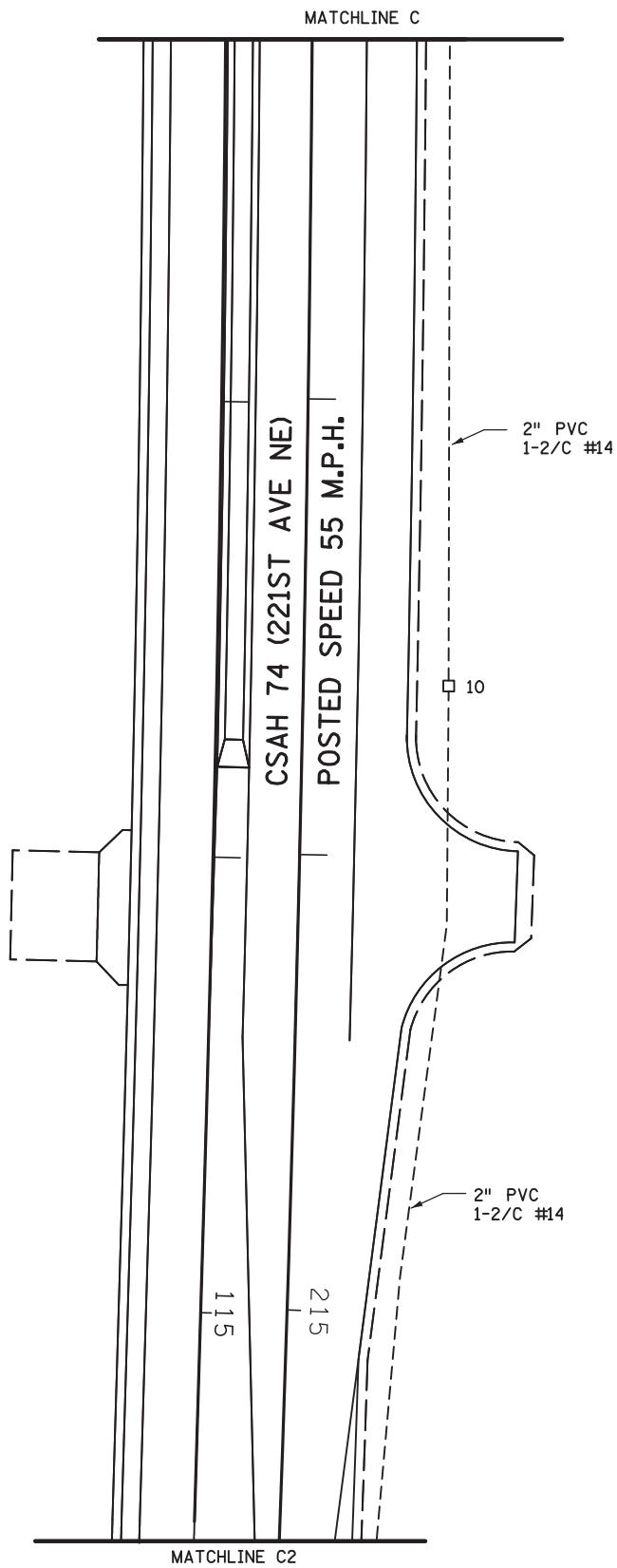
SYSTEM ID: 1736834 T.E. 103238
 METER ADDRESS:
 OLD SYSTEM ID: 39357

REVISE SIGNAL SYSTEM "T"
 MATCH LINE LAYOUT (1 of 2)
 TH 65 AT CSAH 74 (221ST AVE NE)
 IN EAST BETHEL, ANOKA COUNTY

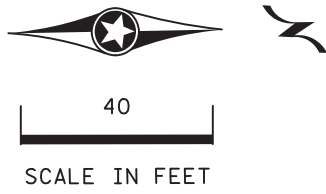
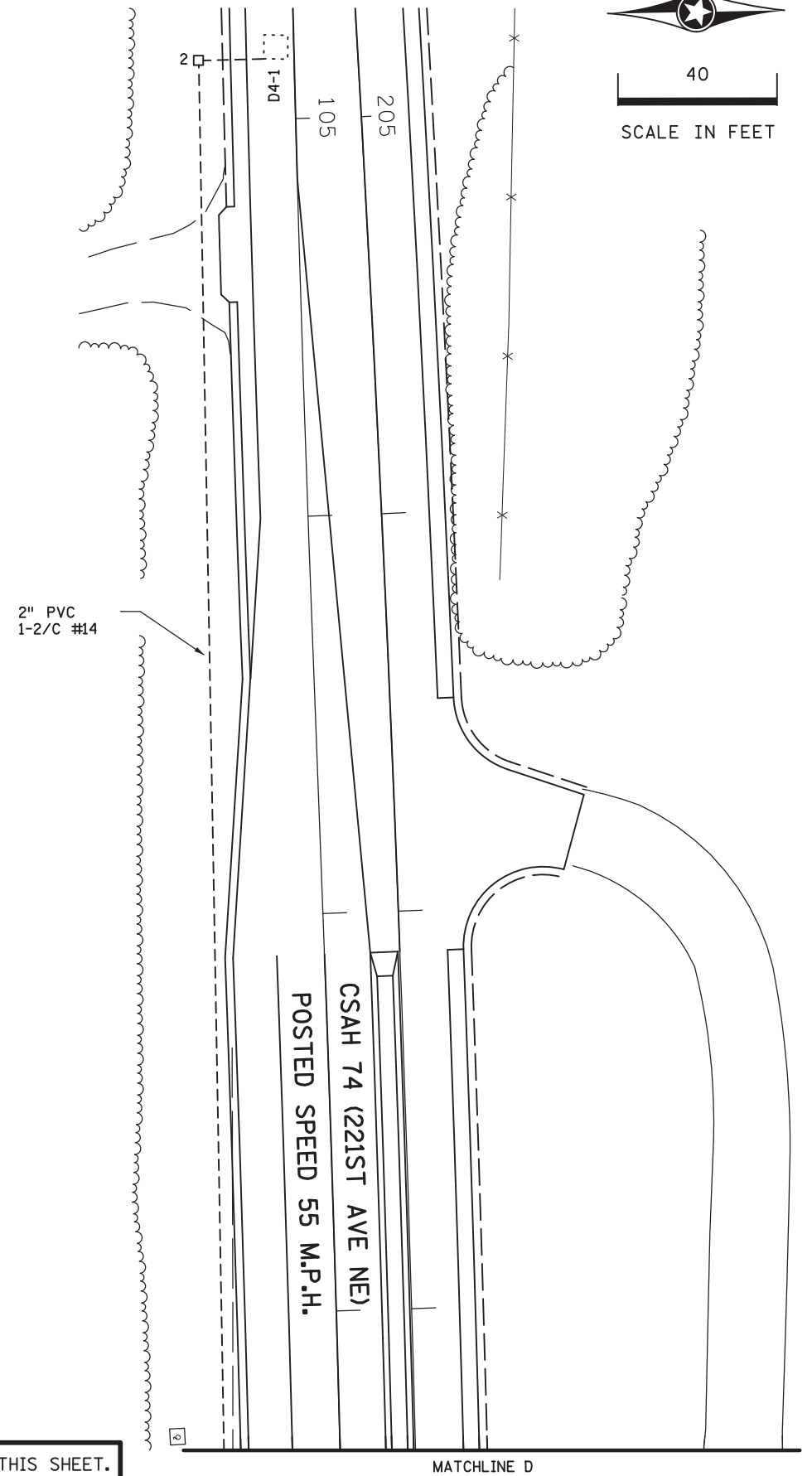
S.P.002-632-021, S.P.106-020-040, S.P.106-125-009
 DRAWN BY: HRL CKD BY: CDB DATE: 10/10/23
 CERTIFIED BY: *Gregory Ken* LIC. NO. 26829 DATE: 10/12/23
 STATE PROJ. NO. 0208-165 (T.H.65) SHEET NO. SS84 OF SS87 SHEETS

PLOTTED/REVISED: 3-NOV-2023

DISTRICT *: Metro
PLOT NAME: T39357_sgl_80
FILENAME: Projects\DM_FOS\06500000\Traffic\Signals\2899_39357_CSAH 74_ 221ST_AVE_NE 1736834\PENDING\T39357_sgl.dgn



NOTE: THERE IS NOT ANY SIGNAL WORK REQUIRED ON THIS SHEET.



BY	DATE	REVISIONS

SYSTEM ID: 1736834 T.E. 103238
 METER ADDRESS:
 OLD SYSTEM ID: 39357

REVISE SIGNAL SYSTEM "T"
 MATCH LINE LAYOUT (2 of 2)
 TH 65 AT CSAH 74 (221ST AVE NE)
 IN EAST BETHEL, ANOKA COUNTY

S.P.002-632-021, S.P.106-020-040, S.P.106-125-009
 DRAWN BY: HRL CKD BY: CDB DATE: 10/10/23
 CERTIFIED BY *Gregory Kern* LIC. NO. 26829 DATE: 10/12/23
 STATE PROJ. NO. 0208-165 (T.H.65) SHEET NO. SS85 OF SS87 SHEETS

POLE AND CABINET NOTES

①

X,Y= 507652.1125, 222212.2406
 PA100 POLE FOUNDATION
 TYPE PA100-A-55
 → SALVAGE: 1-D40-9 (DAVIT AT 350 DEG) (INSTALL ON POLE 5)
 → INSTALL: 1-X6-350/CAM 400 EXTENSION (SALVAGED FROM POLE 5)
 → INSTALL: 1-VIDEO CAMERA (PTZ) (SALVAGED FROM POLE 5)
 2-SWING AWAY HINGES
 1-ANGLE MOUNT SIGNAL OVERHEAD AT 0'
 2-STRAIGHT MOUNT SIGNALS OVERHEAD AT 13' AND 25'
 2-ANGLE MOUNT SIGNALS AT 90 AND 180 DEG
 1-ANGLE MOUNT C.D. HEAD AT 180 DEG
 1-ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT (PHASES 6+1)
 → S&I: LUMINAIRE-250W HPS
 1-R6-1R SIGN (ONE WAY)
 1-R6-1L SIGN (ONE WAY)
 1-R10-X12 (YIELD ON FLASHING YELLOW ARROW)
 1-R9-3 (NO PED) FACING POLE 6
 1-TYPE D SIGN (D-1)
 1-TYPE D SIGN (D-3)
 3" PVC TO HH 18:
 3-12/C #14
 1-4/C #14
 1-3/C #14
 1-3/C #14 (LUM)
 1-3/C #20
 1-1/C #6 INS. GR.
 → INSTALL: 1-CAT5E (PTZ) (SALVAGED FROM POLE 5)
 → F&I: 1-7/16" GROUNDING BRAID TO GROUND ROD IN HH 18

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

②

X,Y= 507643.8127, 222351.3157
 PA100 POLE FOUNDATION
 TYPE PA100-A-55-D30-9 (DAVIT AT 350 DEG)
 2-SWING AWAY HINGES
 1-ANGLE MOUNT SIGNAL OVERHEAD AT 0'
 1-STRAIGHT MOUNT SIGNAL OVERHEAD AT 11'
 2-ANGLE MOUNT SIGNALS AT 90 AND 180 DEG
 2-ANGLE MOUNT C.D. PED HEADS AT 90 AND 180 DEG
 1-ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT (PHASES 4+7)
 LUMINAIRE-250W HPS
 1-R10-X12 (YIELD ON FLASHING YELLOW ARROW)
 1-TYPE D SIGN (D-2)
 3" PVC TO HH 5:
 2-12/C #14
 2-4/C #14
 1-3/C #14
 1-3/C #14 (LUM)
 1-3/C #20
 1-1/C #6 INS. GR.
 PED PB STATION
 1-APS PB AND SIGN (LT ARROW) (PB6-1)
 EXTEND INTO HH 4:
 2" PVC
 1-2/C #14

PED PB STATION
 1-APS PB AND SIGN (RT ARROW) (PB8-2)
 EXTEND INTO HH 5:
 2" PVC
 1-2/C #14

③

X,Y= 507739.0793, 222355.6408
 PEDESTAL FOUNDATION
 13' PEDESTAL POLE PLUS BASE
 1-STRAIGHT MOUNT SIGNAL AT 90 DEG
 1-APS PB AND SIGN (DBL ARROW) (PB8-3)
 3" PVC TO HH 8:
 1-12/C #14
 1-2/C #14

(A)

EQUIPMENT PAD
 SERVICE CABINET (SSB)
 CONTROLLER AND CABINET
 4" PVC TO HH 18:
 6-12/C #14
 2-4/C #14
 2-3/C #14
 1-3/C #14 (CAMERA POWER)
 7-2/C #14
 2-3/C #20
 4" PVC TO HH 1:
 6-12/C #14
 2-4/C #14
 2-3/C #14
 11-2/C #14
 2-3/C #20
 1-1/C #6 INS. GR.
 → LAI/REUSE: 1-CAT 5E (PTZ)
 ABANDONED: 1-COM CABLE (CAMERA)
 ABANDONED: 1-COAXIAL CABLE (CAMERA)
 1-1/C #6 INS. GR.

2-2" AND 3" PVC STUBBED OUT (CAPPED BOTH ENDS)
 3/4" PVC STUBBED OUT (FOR TELEPHONE LINE)

→ AS PART OF THE TMS PLAN, A 1.5' CONDUIT WITH 6-SM FIBER WILL BE ROUTED TO THIS CABINET THROUGH THE SPARE 3" RSC CONDUIT.

CONTROLLER CABINET TO SERVICE CABINET:
 2" PVC
 2-1/C #6
 1-1/C #6 INS. GR.

CONTROLLER CABINET TO SERVICE CABINET (COMMS):
 2" PVC

SERVICE CABINET TO GROUND MOUNTED TRANSFORMER:
 2" PVC
 3-1/C #2

SERVICE CABINET TO HH 18:
 2" PVC
 4-3/C #14 (LUM)

HH 18 TO HH 1:
 2" PVC
 2-3/C #14 (LUM)

(B)

SOP-WOOD POLE MOUNTED TRANSFORMER (CONNEXUS ENERGY)
 2" RSC PVC RISER, WEATHERHEAD AND 2" PVC TO SERVICE CABINET:
 3-1/C #2

⑥

X,Y= 507725.0315, 222235.6839
 PEDESTAL FOUNDATION
 13' PEDESTAL POLE PLUS BASE
 1-STRAIGHT MOUNT SIGNAL AT 90 DEG
 2-R9-3a (NO PED) FACING POLES 1 AND 5
 3" PVC TO HH 17:
 1-12/C #14

⑤

X,Y= 507829.9348, 222236.3553
 PA100 POLE FOUNDATION
 TYPE PA100-A-50
 → SALVAGE: 1-X6-350/CAM 400 EXTENSION (INSTALL ON POLE 1)
 → INSTALL: 1-D40-9 (DAVIT AT 350 DEG) (SALVAGED FROM POLE 1)
 2-SWING AWAY HINGES
 1-ANGLE MOUNT SIGNAL OVERHEAD AT 0'
 1-STRAIGHT MOUNT SIGNAL OVERHEAD AT 11'
 2-ANGLE MOUNT SIGNALS AT 90 AND 180 DEG
 1-ANGLE MOUNT C.D. PED HEAD AT 90 DEG
 1-ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT (PHASES 3+8)
 S&I: LUMINAIRE-250W HPS
 → SALVAGE: 1-VIDEO CAMERA (INSTALL ON POLE 1)
 1-R10-X12 (YIELD ON FLASHING YELLOW ARROW)
 1-R9-3 (NO PED) FACING POLE 6
 1-TYPE D SIGN (D-2)
 3" PVC TO HH 13:
 2-12/C #14
 1-4/C #14
 1-3/C #14
 1-3/C #14 (LUM)
 1-3/C #20
 → SALVAGE: 1-CAT5E (PTZ) (RE-ROUTE TO POLE 1)
 → SALVAGE: 1-ETHERNET REPEATER IN POLE BASE
 ABANDONED: 1-3/C #14 (CAMERA POWER)
 ABANDONED: 1-COM CABLE (CAMERA)
 ABANDONED: 1-COAXIAL CABLE (CAMERA)
 → REMOVE: 1-7/16" GROUNDING BRAID TO GROUND ROD IN HH 13
 1-1/C #6 INS. GR.

PED PB STATION
 1-APS PB AND SIGN (LT ARROW) (PB2-2)
 EXTEND INTO HH 13:
 2" PVC
 1-2/C #14

④

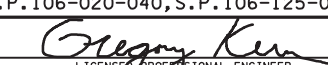
X,Y= 507814.7425, 222371.5119
 PA100 POLE FOUNDATION
 TYPE PA100-A-55-D40-9 (DAVIT AT 350 DEG)
 2-SWING AWAY HINGES
 1-ANGLE MOUNT SIGNAL OVERHEAD AT 0'
 2-STRAIGHT MOUNT SIGNALS OVERHEAD AT 13' AND 25'
 2-ANGLE MOUNT SIGNALS AT 90 AND 180 DEG
 2-ANGLE MOUNT C.D. PED HEADS AT 90 AND 180 DEG
 1-ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT (PHASES 2+5)
 LUMINAIRE-250W HPS
 1-R6-1R SIGN (ONE WAY)
 1-R6-1L SIGN (ONE WAY)
 1-R10-X12 (YIELD ON FLASHING YELLOW ARROW)
 1-TYPE D SIGN (D-1)
 1-TYPE D SIGN (D-3)
 3" PVC TO HH 9:
 3-12/C #14
 2-4/C #14
 1-3/C #14
 1-3/C #14 (LUM)
 1-3/C #20
 1-1/C #6 INS. GR.

PED PB STATION
 1-APS PB AND SIGN (LT ARROW) (PB8-1)
 EXTEND INTO HH 9:
 2" PVC
 1-2/C #14

PED PB STATION
 1-APS PB AND SIGN (RT ARROW) (PB2-2)
 EXTEND INTO HH 9:
 2" PVC
 1-2/C #14

SIGNAL REVISION NOTES:
 - THE REVISE SIGNAL SYSTEM WORK CONSISTS OF RELOCATING THE EXISTING PTZ CAMERA AND CABLES FROM POLE 5 TO POLE 1.
 - THIS SIGNAL WILL BE CONNECTED TO FIBER OPTIC CABLE AS PART OF THE TMS PLAN.
 - ALL ITEMS ARE INPLACE UNLESS OTHERWISE INDICATED.
 - → INDICATES SIGNAL REVISION WORK TO BE COMPLETED.

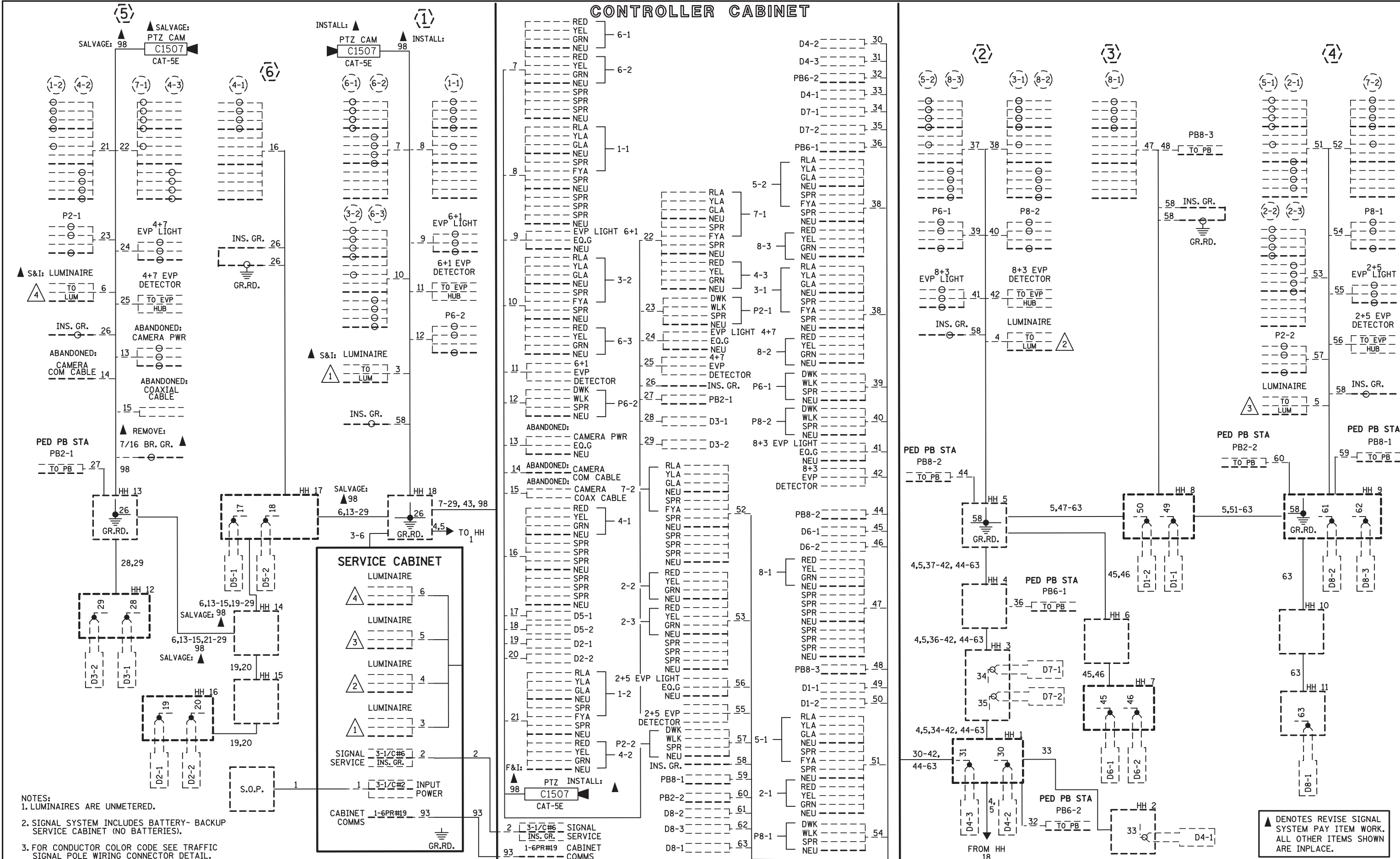
DISTRICT *: Metro
 PLOT NAME: T39357_sgl_B1
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 PLOTTED/REVISED: 14-DEC-2023

BY	DATE	REVISIONS	SYSTEM ID: 1736834	T.E. 103238	REVISE SIGNAL SYSTEM "T" POLE AND CABINET NOTES TH 65 AT CSAH 74 (221ST AVE NE) IN EAST BETHEL, ANOKA COUNTY	S.P.002-632-021, S.P.106-020-040, S.P.106-125-009	DRAWN BY:HRL	CKD BY:CDB	DATE:10/10/23
			METER ADDRESS:			CERTIFIED BY: 	LIC. NO. 26829	DATE: 12/8/23	
			OLD SYSTEM ID: 39357			STATE PROJ.NO. 0208-165 (T.H.65)	SHEET NO. SS86 OF SS87 SHEETS		

PLOTTED/REVISED: 14-DEC-2023

DISTRICT *: Metro
PLOT NAME: T39357_sgl.dgn
FILENAME: Projects\DM_R05\0650000\Traffic\Signals\2899_39357_CSAH 74_221ST_AVE_NE_1736834\PENDIN\T39357_sgl.dgn

CONTROLLER CABINET



▲ DENOTES REVISE SIGNAL SYSTEM PAY ITEM WORK. ALL OTHER ITEMS SHOWN ARE INPLACE.

BY	DATE	REVISIONS

SYSTEM ID: 1736834 T.E. 103238
 METER ADDRESS:
 OLD SYSTEM ID: 39357

**REVISE SIGNAL SYSTEM "T"
 FIELD WIRING DIAGRAM
 TH 65 AT CSAH 74 (221ST AVE NE)
 IN EAST BETHEL, ANOKA COUNTY**

S.P. 002-632-021, S.P. 106-020-040, S.P. 106-125-009
 DRAWN BY: HRL CKD BY: CDB DATE: 10/10/23
 CERTIFIED BY: *Gregory Kern* LIC. NO. 26829 DATE: 12/8/23
 STATE PROJ. NO. 0208-165 (T.H.65) SHEET NO. SS87 OF SS87 SHEETS

SIGNAL FACE CHART

FACE	R	Y	FYA	G
1-1, 1-2	←	←	←	←
2-1, 2-2, 2-3	●	●	●	●
3-1, 3-2	←	←	←	←
4-1, 4-2, 4-3	●	●	●	●
5-1, 5-2	←	←	←	←
6-1, 6-2, 6-3	●	●	●	●
7-1, 7-2	←	←	←	←
8-1, 8-2, 8-3	●	●	●	●

-ALL SIGNAL INDICATIONS ARE 12" LED
 -ALL SIGNAL HEADS SHALL BE BLACK POLYCARBONITE WITH BACKGROUND SHIELDS

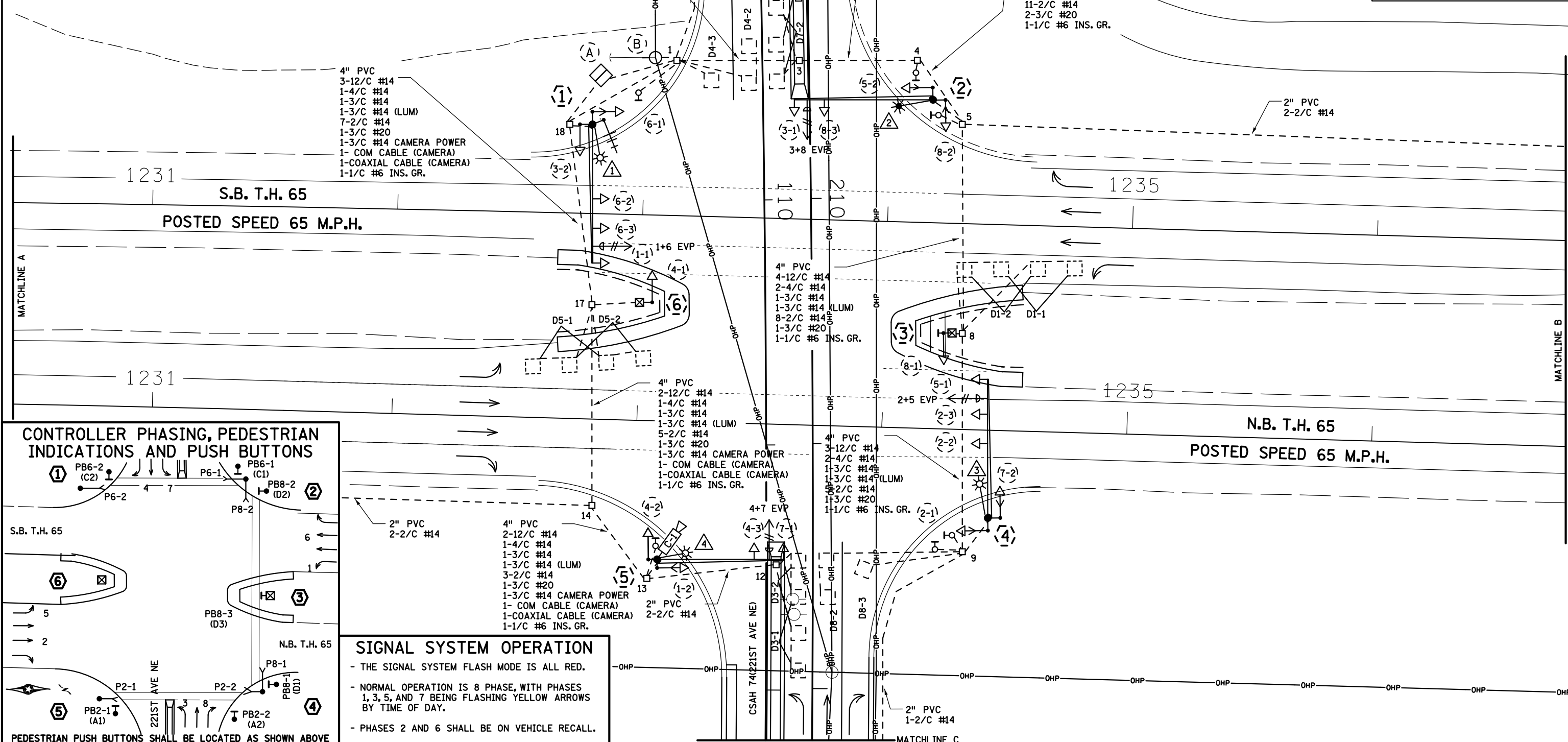
40
SCALE IN FEET



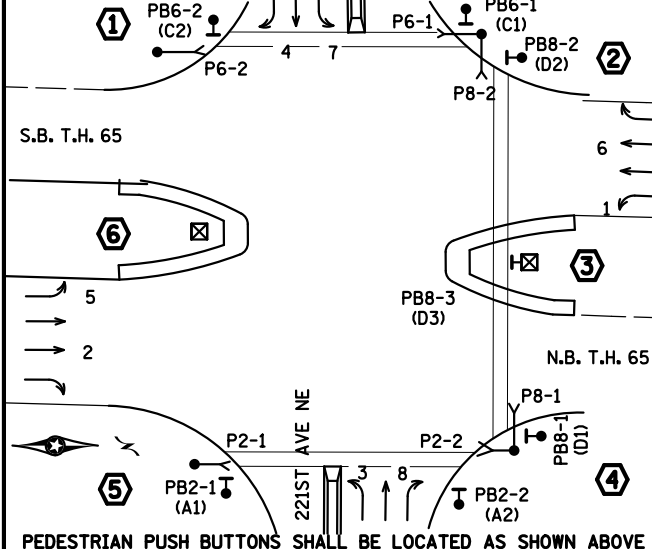
PVC LOOP DETECTOR CHART

NUMBER	SIZE (FT)	LOCATION
D1-1, D5-1	2-6X6	20' & 50'
D1-2, D5-2	2-6X6	5' & 35'
D2-1, D2-2	6X6	625'
D3-1, D7-1	2-6X6	20' & 50'
D3-2, D7-2	2-6X6	5' & 35'
D4-1, D8-1	6X6	475'
D4-2, D8-2	2-6X6	5' & 20'
D4-3, D8-3	6X6	5'
D6-1, D6-2	6X6	625'

-LOCATION: DISTANCE FROM CROSSWALK/STOP BAR IN FEET



CONTROLLER PHASING, PEDESTRIAN INDICATIONS AND PUSH BUTTONS



SIGNAL SYSTEM OPERATION

- THE SIGNAL SYSTEM FLASH MODE IS ALL RED.
- NORMAL OPERATION IS 8 PHASE, WITH PHASES 1, 3, 5, AND 7 BEING FLASHING YELLOW ARROWS BY TIME OF DAY.
- PHASES 2 AND 6 SHALL BE ON VEHICLE RECALL.

BY	DATE	REVISIONS
EJA	06-10-13	AS-BUILT OF SP 0208-147
EJA	05-05-14	PLAN UPDATES

SYSTEM ID: 39357 **1736834** T.E. 5453
 METER ADDRESS: XXXX HIGHWAY 65
 MASTER ID: T.E.

INTERSECTION LAYOUT
 TH 65 AT CSAH 74 (221ST AVE NE)
 IN EAST BETHEL, ANOKA COUNTY

S.P. NO. _____ DRAWN BY: BAM CKD BY: CDB DATE: 4-20-12
 CERTIFIED BY: *Michael P. Gulinsky* LIC. NO. 19863 DATE: 4-23-12
 STATE PROJ. NO. (T.H.65) SHEET NO. 1 OF 5 SHEETS

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

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

POLE AND CABINET NOTES

①

X,Y= 507652.1125, 222212.2406
 PA100 POLE FOUNDATION
 TYPE PA100-A-55-D40-9 (DAVIT AT 350 DEG)
 2-SWING AWAY HINGES
 1-ANGLE MOUNT SIGNAL OVERHEAD AT 0'
 2-STRAIGHT MOUNT SIGNALS OVERHEAD
 AT 13' AND 25'
 2-ANGLE MOUNT SIGNALS AT 90 AND 180 DEG
 1-ANGLE MOUNT C. D. HEAD
 AT 180 DEG
 1-ONE WAY EVP DETECTOR AND
 CONFIRMATORY LIGHT (PHASES 6+1)
 LUMINAIRE-250W HPS
 1-RADIO INTERCONNECT ANTENNA
 1-R6-1R SIGN (ONE WAY)
 1-R6-1L SIGN (ONE WAY)
 1-R10-X12 (YIELD ON FLASHING YELLOW ARROW)
 1-R9-3 (NO PED) FACING POLE 6
 1-TYPE D SIGN (D-1)
 1-TYPE D SIGN (D-3)
 3" PVC TO HH 18:
 3-12/C #14
 1-4/C #14
 1-3/C #14
 1-3/C #14 (LUM)
 1-COM CABLE (ANTENNA)
 1-3/C #20
 1-1/C #6 INS. GR.

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

⑥

X,Y= 507725.0315, 222235.6839
 PEDESTAL FOUNDATION
 13' PEDESTAL POLE PLUS BASE
 1-STRAIGHT MOUNT SIGNAL
 AT 90 DEG
 2-R9-3a (NO PED) FACING POLES 1 AND 5
 3" PVC TO HH 17:
 1-12/C #14

②

X,Y= 507643.8127, 222351.3157
 PA100 POLE FOUNDATION
 TYPE PA100-A-55-D30-9 (DAVIT AT 350 DEG)
 2-SWING AWAY HINGES
 1-ANGLE MOUNT SIGNAL OVERHEAD AT 0'
 1-STRAIGHT MOUNT SIGNAL OVERHEAD AT 11'
 2-ANGLE MOUNT SIGNALS AT 90 AND 180 DEG
 2-ANGLE MOUNT C.D. PED HEADS AT 90 AND 180 DEG
 1-ONE WAY EVP DETECTOR AND
 CONFIRMATORY LIGHT (PHASES 4+7)
 LUMINAIRE-250W HPS
 1-R10-X12 (YIELD ON FLASHING YELLOW ARROW)
 1-TYPE D SIGN (D-2)
 3" PVC TO HH 5:
 2-12/C #14
 2-4/C #14
 1-3/C #14
 1-3/C #14 (LUM)
 1-3/C #20
 1-1/C #6 INS. GR.

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

PED PB STATION
 1-APS PB AND SIGN
 (RT ARROW) (PB8-2)
 EXTEND INTO HH 5:
 2" PVC
 1-2/C #14

⑤

X,Y= 507829.9348, 222236.3553
 PA100 POLE FOUNDATION
 TYPE PA100-A-50-X6-350/CAM 400 EXTENSION
 2-SWING AWAY HINGES
 1-ANGLE MOUNT SIGNAL OVERHEAD AT 0'
 1-STRAIGHT MOUNT SIGNAL OVERHEAD AT 11'
 2-ANGLE MOUNT SIGNALS AT 90 AND 180 DEG
 1-ANGLE MOUNT C.D. PED HEAD AT 90 DEG
 1-ONE WAY EVP DETECTOR AND
 CONFIRMATORY LIGHT (PHASES 3+8)
 LUMINAIRE-2502 HPS
 1-VIDEO CAMERA
 1-R10-X12 (YIELD ON FLASHING YELLOW ARROW)
 1-R9-3 (NO PED) FACING POLE 6
 1-TYPE D SIGN (D-2)
 3" PVC TO HH 13:
 2-12/C #14
 1-4/C #14
 1-3/C #14
 1-3/C #14 (LUM)
 1-3/C #20
 1-3/C #14 (CAMERA POWER)
 1-COM CABLE (CAMERA)
 1-COAXIAL CABLE (CAMERA)
 1-7/16" GROUNDING BRAID TO GROUND ROD IN HH 18
 1-1/C #6 INS. GR.

PED PB STATION
 1-APS PB AND SIGN
 (LT ARROW) (PB2-2)
 EXTEND INTO HH 13:
 2" PVC
 1-2/C #14

③

X,Y= 507739.0793, 222355.6408
 PEDESTAL FOUNDATION
 13' PEDESTAL POLE PLUS BASE
 1-STRAIGHT MOUNT SIGNAL
 AT 90 DEG
 1-APS PB AND SIGN (DBL ARROW) (PB8-3)
 3" PVC TO HH 8:
 1-12/C #14
 1-2/C #14

④

X,Y= 507814.7425, 222371.5119
 PA100 POLE FOUNDATION
 TYPE PA100-A-55-D40-9 (DAVIT AT 350 DEG)
 2-SWING AWAY HINGES
 1-ANGLE MOUNT SIGNAL OVERHEAD AT 0'
 2-STRAIGHT MOUNT SIGNALS OVERHEAD
 AT 13' AND 25'
 2-ANGLE MOUNT SIGNALS AT 90 AND 180 DEG
 2-ANGLE MOUNT C. D. PED HEADS
 AT 90 AND 180 DEG
 1-ONE WAY EVP DETECTOR AND
 CONFIRMATORY LIGHT (PHASES 2+5)
 LUMINAIRE-250W HPS
 1-R6-1R SIGN (ONE WAY)
 1-R6-1L SIGN (ONE WAY)
 1-R10-X12 (YIELD ON FLASHING YELLOW ARROW)
 1-TYPE D SIGN (D-1)
 1-TYPE D SIGN (D-3)
 3" PVC TO HH 9:
 3-12/C #14
 2-4/C #14
 1-3/C #14
 1-3/C #14 (LUM)
 1-3/C #20
 1-1/C #6 INS. GR.

PED PB STATION
 1-APS PB AND SIGN
 (LT ARROW) (PB8-1)
 EXTEND INTO HH 9:
 2" PVC
 1-2/C #14

PED PB STATION
 1-APS PB AND SIGN
 (RT ARROW) (PB2-2)
 EXTEND INTO HH 9:
 2" PVC
 1-2/C #14

Ⓐ

EQUIPMENT PAD
 SERVICE CABINET (SSB)
 CONTROLLER AND CABINET

4" PVC TO HH 18:	4" PVC TO HH 1:
6-12/C #14	6-12/C #14
2-4/C #14	2-4/C #14
2-3/C #14	2-3/C #14
1-3/C #14 (CAMERA POWER)	11-2/C #14
7-2/C #14	2-3/C #20
2-3/C #20	1-COM CABLE (ANTENNA)
1-COM CABLE (CAMERA)	1-1/C #6 INS. GR.
1-COAXIAL CABLE (CAMERA)	
1-1/C #6 INS. GR.	

2-2" AND 3" PVC STUBBED OUT (CAPPED BOTH ENDS
 3/4" PVC STUBBED OUT (FOR TELEPHONE LINE)

CONTROLLER CABINET TO SERVICE CABINET:
 2" PVC
 2-1/C #6
 1-1/C #6 INS. GR.

CONTROLLER CABINET TO SERVICE CABINET (COMMS):
 2" PVC

SERVICE CABINET TO GROUND MOUNTED TRANSFORMER:
 2" PVC
 3-1/C #2

SERVICE CABINET TO HH 18:
 2" PVC
 4-3/C #14 (LUM)

HH 18 TO HH 1:
 2" PVC
 2-3/C #14 (LUM)

Ⓑ

SOP-WOOD POLE MOUNTED
 TRANSFORMER (CONNEXUS ENERGY)
 2" RSC PVC RISER, WEATHERHEAD AND
 2" PVC TO SERVICE CABINET:
 3-1/C #2

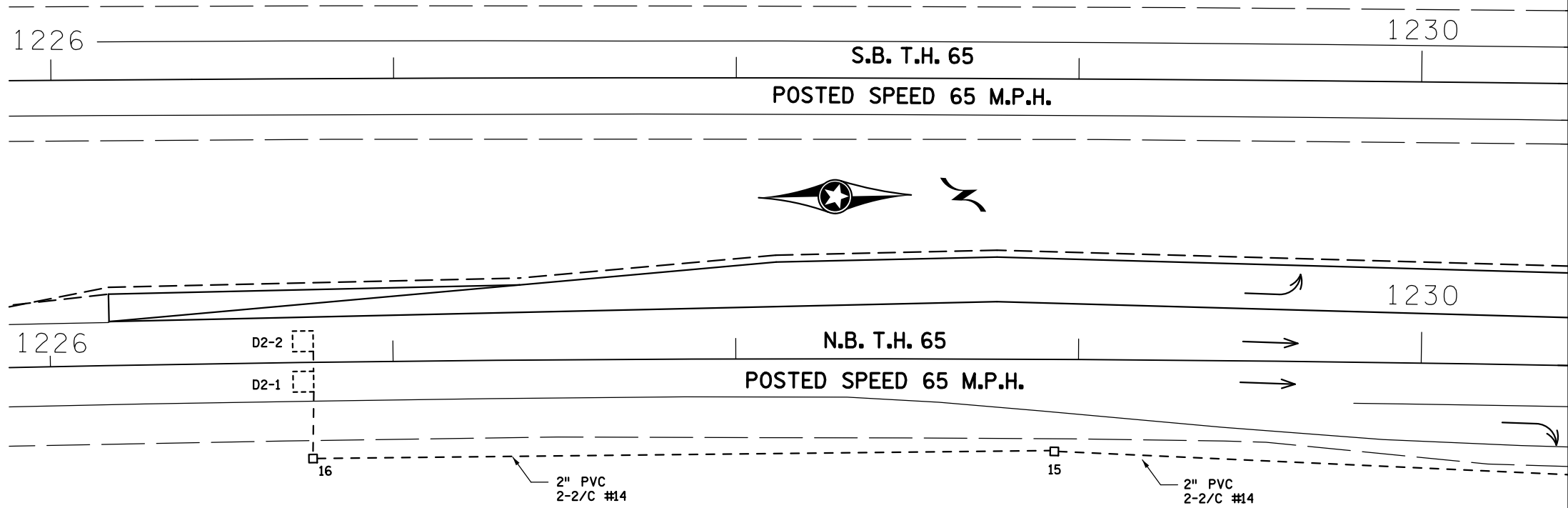
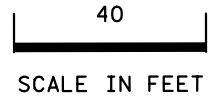
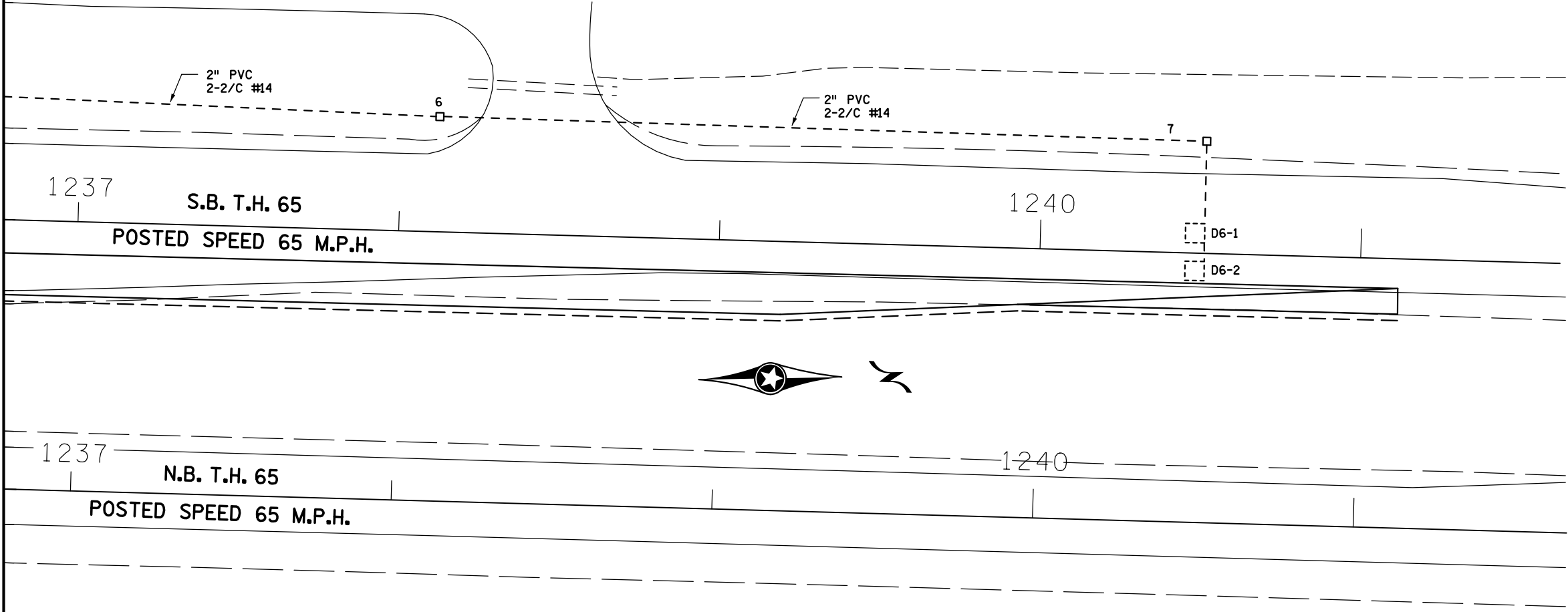
PLOTTED/REVISED: 5/5/2014

DISTRICT #: METRO
 IPLOT NAME: notes
 PATH & FILENAME: IP_PWP-d\4\52\4\T\39357_1_sgl.dgn

BY	DATE	REVISIONS	SYSTEM ID: 39357 1736834	T.E. 5453	POLE AND CABINET NOTES TRAFFIC CONTROL SIGNAL SYSTEM TH 65 AT CSAH 74 (221ST AVE NE) IN EAST BETHEL, ANOKA COUNTY	S.P. NO.	DRAWN BY: BAM	CKD BY: CDB	DATE: 4-20-12	
EJA	06-10-13	AS-BUILT OF SP 0208-147	METER ADDRESS: XXXX HIGHWAY 65			CERTIFIED BY: <i>Michael P. Lubinsky</i>	LIC. NO. 19863	DATE: 4-23-12		
EJA	05-05-14	PLAN UPDATES	MASTER ID:	T.E.		STATE PROJ. NO. (T.H.65)	SHEET NO. 2 OF 5 SHEETS			

PLOTTED/REVISED: 5/5/2014

MATCHLINE B



MATCHLINE A

DISTRICT #: METRO
 IPLOT NAME: matchline1
 PATH & FILENAME: IP_PWP-d\415214\T39357_sgl.dgn

BY	DATE	REVISIONS
EJA	06-10-13	AS-BUILT OF SO 0208-147
EJA	05-05-14	PLAN UPDATES

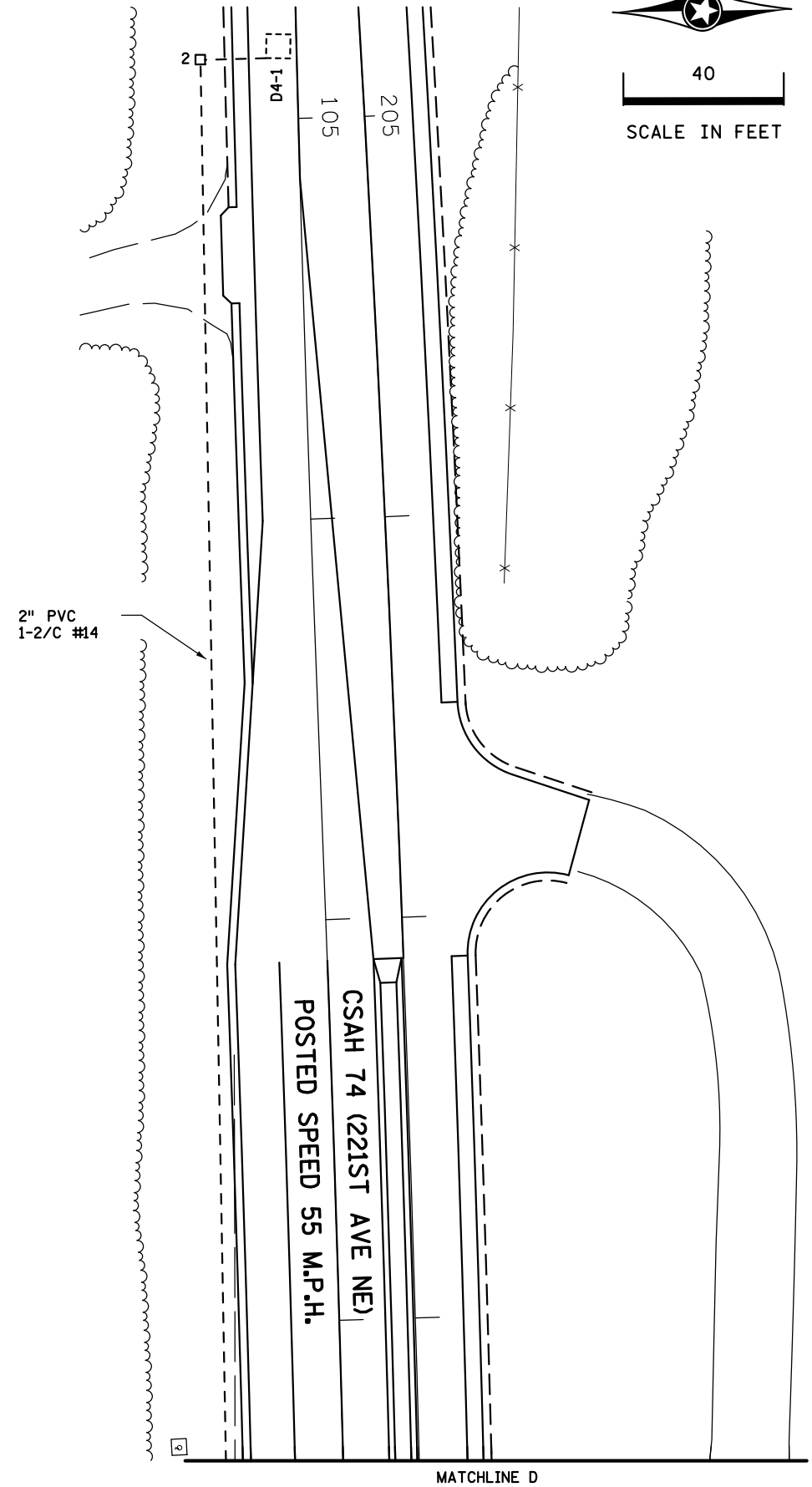
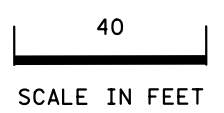
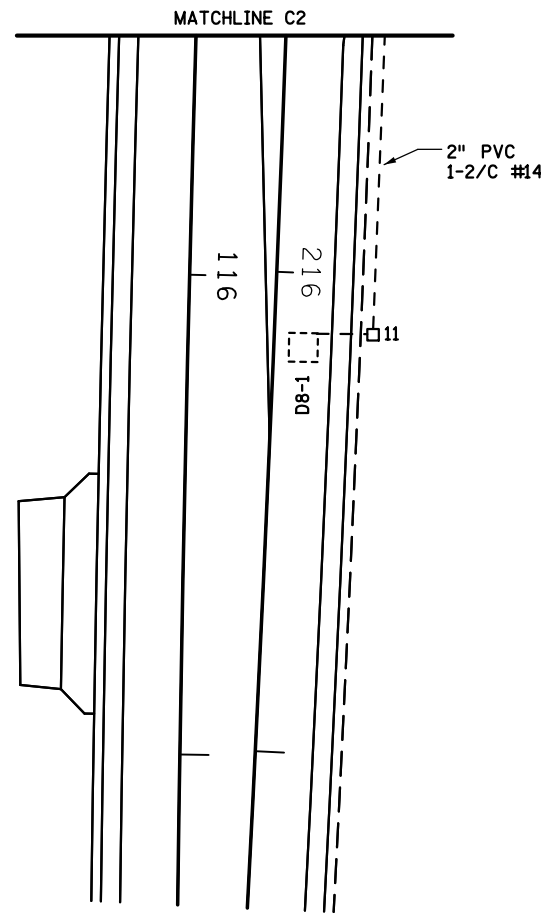
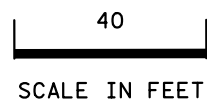
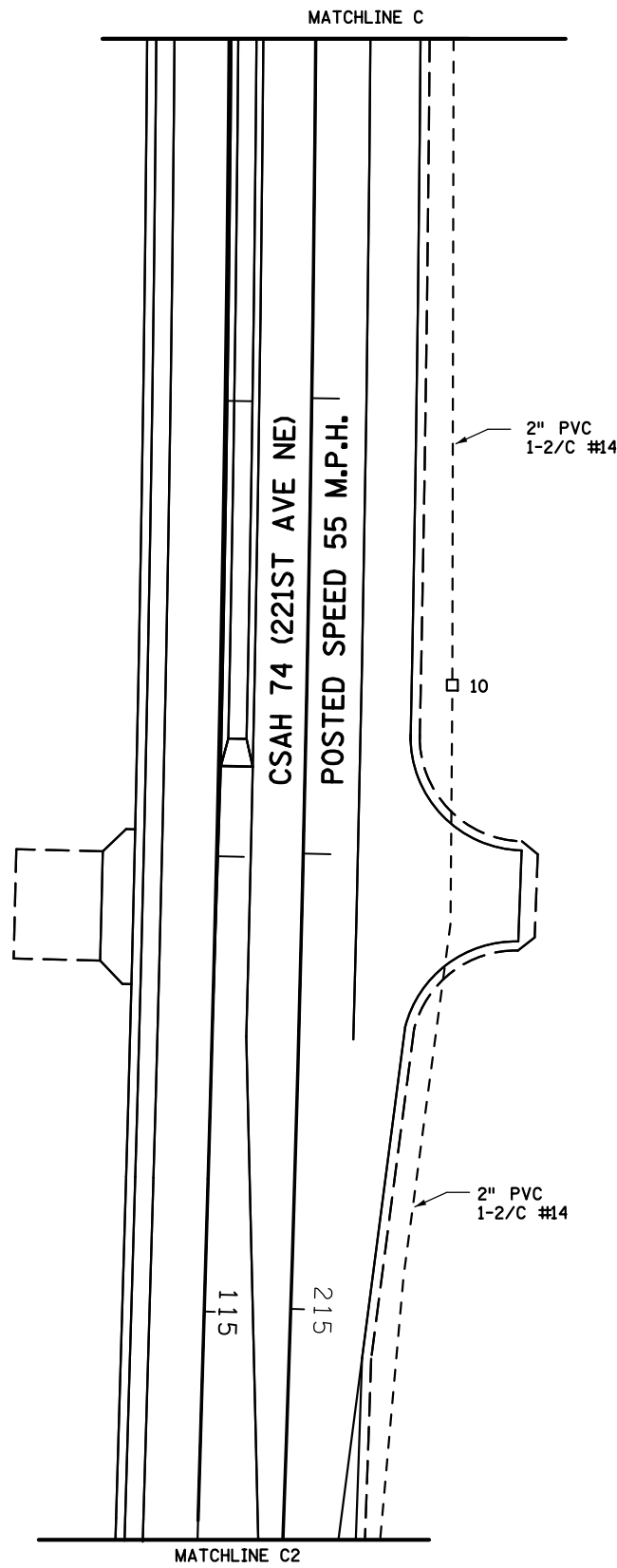
SYSTEM ID: 39357 **1736834** T.E. 5453
 METER ADDRESS: XXXX HIGHWAY 65
 MASTER ID: T.E.

MATCH LINE LAYOUT (1 of 2)
TRAFFIC CONTROL SIGNAL SYSTEM
TH 65 AT CSAH 74 (221ST AVE NE)
IN EAST BETHEL, ANOKA COUNTY

S.P. NO. _____ DRAWN BY: BAM CKD BY: CDB DATE: 4-20-12
 CERTIFIED BY: *Michael P. Gibensky* LIC. NO. 19863 DATE: 4-23-12
 STATE PROJ. NO. _____ (T.H.65) SHEET NO. 3 OF 5 SHEETS

PLOTTED/REVISED: 5/5/2014

DISTRICT #: METRO
IPLOT NAME: matchline 2
PATH & FILENAME: IP_PWP-d\4152\4\T\39357_sgl.dgn



BY	DATE	REVISIONS
EJA	06-10-13	AS-BUILT OF SP 0208-147
EJA	05-05-14	PLAN UPDATES

SYSTEM ID: 39357 **1736834** T.E. 5453
 METER ADDRESS: XXXX HIGHWAY 65
 MASTER ID: T.E.

MATCH LINE LAYOUT (2 of 2)
TRAFFIC CONTROL SIGNAL SYSTEM
TH 65 AT CSAH 74 (221ST AVE NE)
IN EAST BETHEL, ANOKA COUNTY

S.P. NO.	DRAWN BY: BAM	CKD BY: CDB	DATE: 4-20-12
CERTIFIED BY: <i>Michael P. Lubinsky</i> LICENSED PROFESSIONAL ENGINEER	LIC. NO. 19863	DATE: 4-23-12	
STATE PROJ. NO. (T.H. 65)	SHEET NO.	4 OF 5 SHEETS	

