

- NOTES:**
- 1) LOCATION OF FOUNDATIONS, LOOP DETECTORS, AND HANDHOLES SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
 - 2) EACH SIGNAL FACE HAS A BACKGROUND SHIELD.
 - 3) NEW LOOP DETECTOR WIRES SHALL BE CROSS-LINKED POLYETHYLENE (XLP) IN 3/4" N.M.C. SEE SPECIAL PROVISIONS.
 - 4) NEW HANDHOLES 2A, 10A, 11A, 12A, AND 13A SHALL BE PVC HANDHOLES WITH METAL FRAMES AND COVERS. REMOVE AND DISPOSE OF INPLACE HANDHOLES 1, 10, 12, 13, 14, 15, 16, 18, 19.
 - 5) SEE SPECIAL PROVISIONS REGARDING REMOVAL, SALVAGING AND INSTALLATION OF INPLACE SIGNAL EQUIPMENT.
 - 6) INPLACE ITEMS TO BE REUSED INPLACE AS PART OF REVISE SIGNAL SYSTEM "A" SHALL BE PROTECTED AND MAINTAINED INPLACE. SEE SPECIAL PROVISIONS.
 - 7) CONTRACTOR SHALL MAINTAIN OPERATION OF A SIGNAL SYSTEM AT THIS INTERSECTION AT ALL TIMES, UNLESS OTHERWISE APPROVED BY THE ENGINEER FOR THE SIGNAL SYSTEM TO BE TURNED OFF.
 - 8) F & I = MATERIALS TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR AS PART OF REVISE SIGNAL SYSTEM "A".
 - 9) S & I = MATERIALS TO BE SALVAGED AND INSTALLED BY THE CONTRACTOR AS PART OF REVISE SIGNAL SYSTEM "A".
 - 10) ALL ONE SECTION LED COUNTDOWN TIMER PEDESTRIAN INDICATIONS ARE INPLACE AND SHALL BE REUSED AND MADE OPERATIONAL AS SHOWN.
 - 11) ALL INPLACE VEHICLE SIGNAL INDICATIONS ARE LED.
 - 12) SEE SPECIAL PROVISIONS AND DETAILS REGARDING SIGNS TO BE FURNISHED & INSTALLED (OR SALVAGED & REINSTALLED) BY THE CONTRACTOR (INCLUDED AS PART OF PAY ITEM FOR "REVISE SIGNAL SYSTEM "A").
 - 13) SEE SPECIAL PROVISIONS FOR COUNTY FURNISHED MATERIALS.
 - 14) (*) DENOTES ITEMS TO BE INCLUDED AS PART OF WORK TO REVISE THE EXISTING EMERGENCY VEHICLE PREEMPTION (EVP) SYSTEM (INCLUDED AS PART OF PAY ITEM FOR "REVISE SIGNAL SYSTEM "A").
 - 15) (**) DENOTES ITEMS TO BE FURNISHED AND INSTALLED BY CONTRACTOR UNDER ITEM NO. 2565 (TRAFFIC CONTROL INTERCONNECT). SEE STATEMENT OF ESTIMATED QUANTITIES AND SPECIAL PROVISIONS.
 - 16) SEE DETAILS, SPECIAL PROVISIONS, AND STATEMENT OF ESTIMATED QUANTITIES REGARDING BATTERY BACK-UP SIGNAL SERVICE CABINET TO BE FURNISHED AND INSTALLED BY CONTRACTOR (SEPARATE FROM ITEM NO. 2565 FOR THIS SIGNAL SYSTEM).

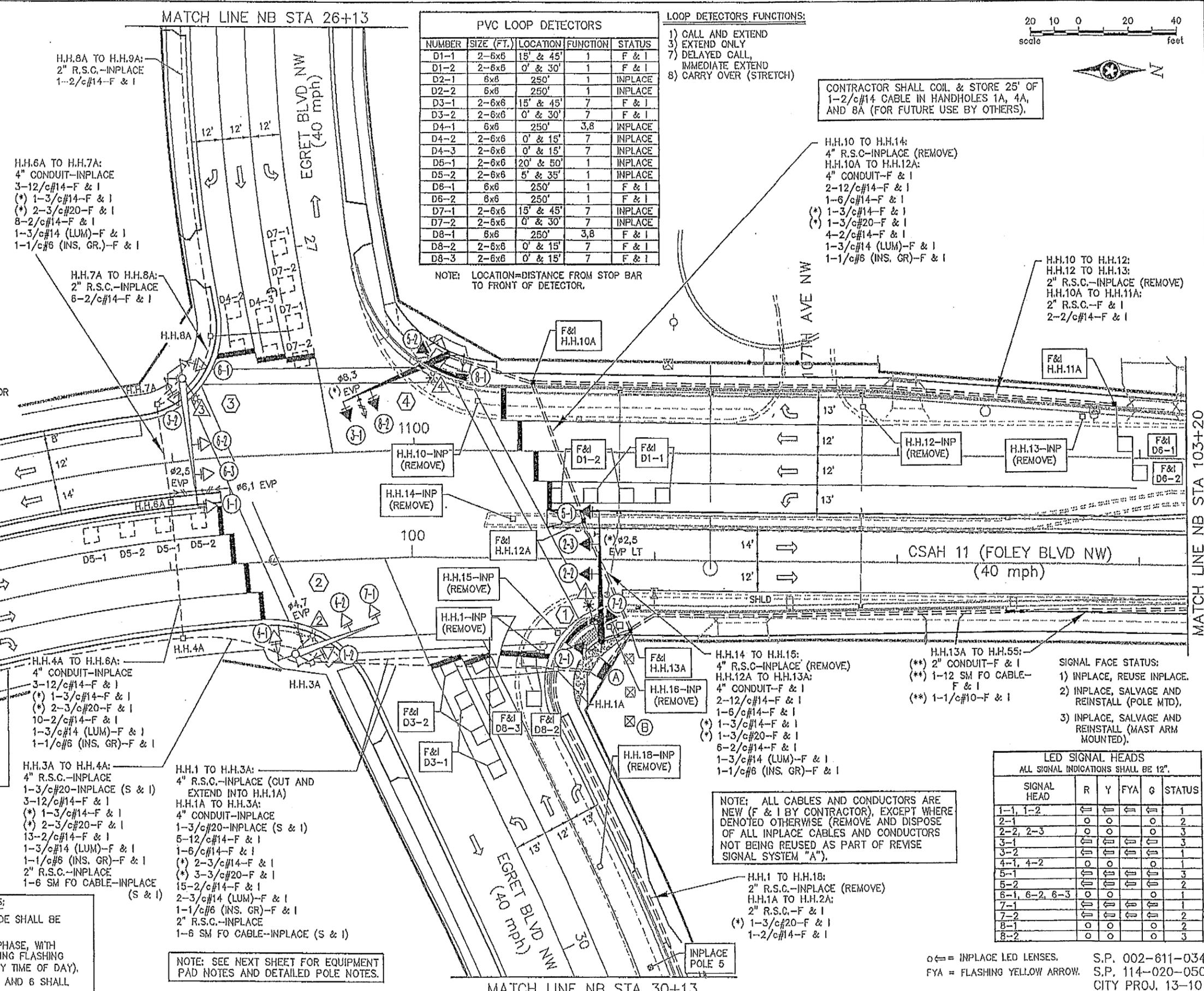
PVC LOOP DETECTORS

NUMBER	SIZE (FT.)	LOCATION	FUNCTION	STATUS
D1-1	2-6x6	15' & 45'	1	F & I
D1-2	2-6x6	0' & 30'	1	F & I
D2-1	6x6	250'	1	INPLACE
D2-2	6x6	250'	1	INPLACE
D3-1	2-6x6	15' & 45'	7	F & I
D3-2	2-6x6	0' & 30'	7	F & I
D4-1	6x6	250'	3,8	INPLACE
D4-2	2-6x6	0' & 15'	7	INPLACE
D4-3	2-6x6	0' & 15'	7	INPLACE
D5-1	2-6x6	20' & 50'	1	INPLACE
D5-2	2-6x6	5' & 35'	1	INPLACE
D6-1	6x6	250'	1	F & I
D6-2	6x6	250'	1	F & I
D7-1	2-6x6	15' & 45'	7	INPLACE
D7-2	2-6x6	0' & 30'	7	INPLACE
D8-1	6x6	250'	3,8	F & I
D8-2	2-6x6	0' & 15'	7	F & I
D8-3	2-6x6	0' & 15'	7	F & I

NOTE: LOCATION=DISTANCE FROM STOP BAR TO FRONT OF DETECTOR.

- LOOP DETECTORS FUNCTIONS:**
- 1) CALL AND EXTEND
 - 3) EXTEND ONLY
 - 7) DELAYED CALL, IMMEDIATE EXTEND
 - 8) CARRY OVER (STRETCH)

CONTRACTOR SHALL COIL & STORE 25' OF 1-2/c#14 CABLE IN HANDHOLES 1A, 4A, AND 8A (FOR FUTURE USE BY OTHERS).



H.H.8A TO H.H.9A:
2" R.S.C.-INPLACE
1-2/c#14-F & I

H.H.6A TO H.H.7A:
4" CONDUIT-INPLACE
3-12/c#14-F & I
(*) 1-3/c#14-F & I
(*) 2-3/c#20-F & I
8-2/c#14-F & I
1-3/c#14 (LUM)-F & I
1-1/c#6 (INS. GR.)-F & I

H.H.7A TO H.H.8A:
2" R.S.C.-INPLACE
6-2/c#14-F & I

H.H.10 TO H.H.14:
4" R.S.C.-INPLACE (REMOVE)
H.H.10A TO H.H.12A:
4" CONDUIT-F & I
2-12/c#14-F & I
1-6/c#14-F & I
(*) 1-3/c#14-F & I
(*) 1-3/c#20-F & I
4-2/c#14-F & I
1-3/c#14 (LUM)-F & I
1-1/c#6 (INS. GR.)-F & I

H.H.10 TO H.H.12:
H.H.12 TO H.H.13:
2" R.S.C.-INPLACE (REMOVE)
H.H.10A TO H.H.11A:
2" R.S.C.-F & I
2-2/c#14-F & I

H.H.4A TO H.H.6A:
4" CONDUIT-INPLACE
3-12/c#14-F & I
(*) 1-3/c#14-F & I
(*) 2-3/c#20-F & I
10-2/c#14-F & I
1-3/c#14 (LUM)-F & I
1-1/c#6 (INS. GR.)-F & I

H.H.5A TO SOUTH:
2" CONDUIT-INPLACE
1-3/c#20-INPLACE
1-6 SM FO CABLE-INPLACE

H.H.3A TO H.H.4A:
4" R.S.C.-INPLACE
1-3/c#20-INPLACE (S & I)
3-12/c#14-F & I
(*) 1-3/c#14-F & I
(*) 2-3/c#20-F & I
13-2/c#14-F & I
1-3/c#14 (LUM)-F & I
1-1/c#6 (INS. GR.)-F & I
2" R.S.C.-INPLACE
1-6 SM FO CABLE-INPLACE (S & I)

H.H.1 TO H.H.3A:
4" R.S.C.-INPLACE (CUT AND EXTEND INTO H.H.1A)
H.H.1A TO H.H.3A:
4" CONDUIT-INPLACE
1-3/c#20-INPLACE (S & I)
5-12/c#14-F & I
1-6/c#14-F & I
(*) 2-3/c#14-F & I
(*) 3-3/c#20-F & I
15-2/c#14-F & I
2-3/c#14 (LUM)-F & I
1-1/c#6 (INS. GR.)-F & I
2" R.S.C.-INPLACE
1-6 SM FO CABLE-INPLACE (S & I)

H.H.14 TO H.H.15:
4" R.S.C.-INPLACE (REMOVE)
H.H.12A TO H.H.13A:
4" CONDUIT-F & I
2-12/c#14-F & I
1-6/c#14-F & I
(*) 1-3/c#14-F & I
(*) 1-3/c#20-F & I
6-2/c#14-F & I
1-3/c#14 (LUM)-F & I
1-1/c#6 (INS. GR.)-F & I

H.H.13A TO H.H.55:
(**) 2" CONDUIT-F & I
(**) 1-12 SM FO CABLE-F & I
(**) 1-1/c#10-F & I

SIGNAL FACE STATUS:

- 1) INPLACE, REUSE INPLACE.
- 2) INPLACE, SALVAGE AND REINSTALL (POLE MTD).
- 3) INPLACE, SALVAGE AND REINSTALL (MAST ARM MOUNTED).

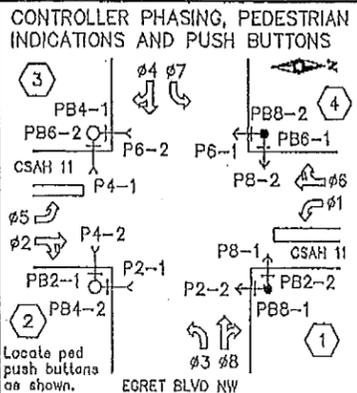
LED SIGNAL HEADS
ALL SIGNAL INDICATIONS SHALL BE 12".

SIGNAL HEAD	R	Y	FYA	G	STATUS
1-1, 1-2	o	o	o	o	1
2-1	o	o	o	o	2
2-2, 2-3	o	o	o	o	3
3-1	o	o	o	o	3
3-2	o	o	o	o	1
4-1, 4-2	o	o	o	o	1
5-1	o	o	o	o	3
5-2	o	o	o	o	2
6-1, 6-2, 6-3	o	o	o	o	1
7-1	o	o	o	o	1
7-2	o	o	o	o	2
8-1	o	o	o	o	2
8-2	o	o	o	o	3

NOTE: ALL CABLES AND CONDUCTORS ARE NEW (F & I BY CONTRACTOR), EXCEPT WHERE DENOTED OTHERWISE (REMOVE AND DISPOSE OF ALL INPLACE CABLES AND CONDUCTORS NOT BEING REUSED AS PART OF REVISE SIGNAL SYSTEM "A").

H.H.1 TO H.H.18:
2" R.S.C.-INPLACE (REMOVE)
H.H.1A TO H.H.2A:
2" R.S.C.-F & I
(*) 1-3/c#20-F & I
1-2/c#14-F & I

NOTE: SEE NEXT SHEET FOR EQUIPMENT PAD NOTES AND DETAILED POLE NOTES.



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

I HEREBY CERTIFY THAT THIS PLAN 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.

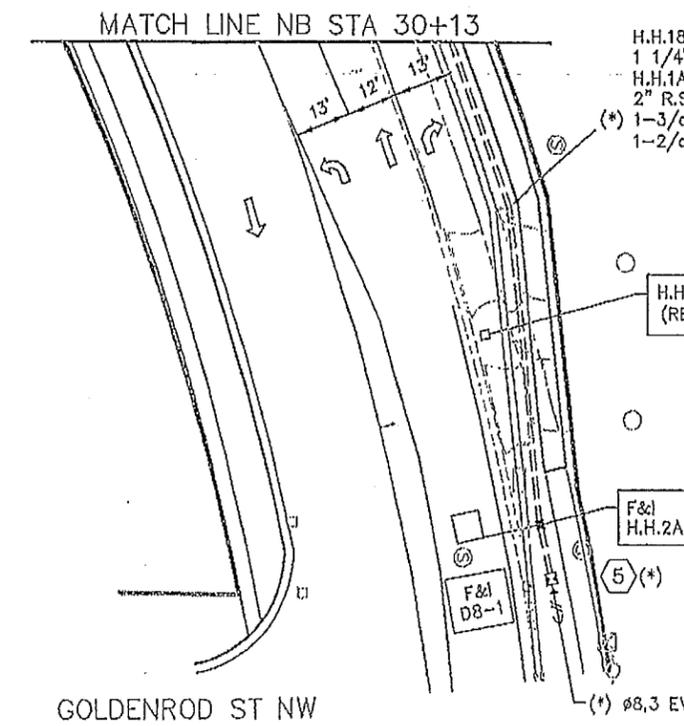
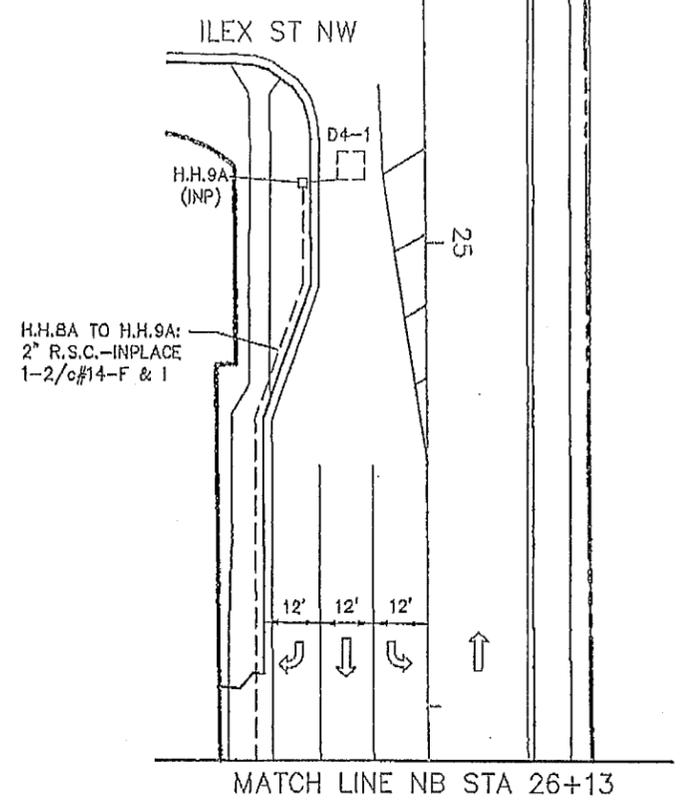
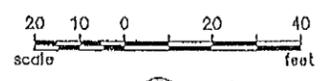
PHONE: (651) 490-2000
3635 VAUGHAN CENTER DR.
ST. PAUL, MN 55119

ANOKA COUNTY
CITY OF COON RAPIDS

REVISE SIGNAL SYSTEM "A"
INTERSECTION LAYOUT

FILE NO. 175
ANOKA 132239
SIGNAL SHEET

S.P. 002-611-034
S.P. 114-020-050
CITY PROJ. 13-10



- (A) INPLACE (S & I) CONTROLLER AND CABINET
- INPLACE (REMOVE) CABINET FOUNDATION EXTENDED INTO H.H.16: 2" R.S.C., 3-1/c#6
- EXTENDED INTO H.H.15: 4" R.S.C., 4-12/c#12, 2-6/c#14, 5-3/c#12, 1-3/c#20, 4-2/c#14
- EXTENDED INTO H.H.1: 4" R.S.C. AND 3" R.S.C., 5-12/c#14, 1-6/c#14, 2-3/c#14, 4-3/c#20, 19-2/c#14, 2-1/c#6 (INS. GR.)
- F & I EQUIPMENT PAD FOUNDATION BATTERY BACK-UP SIGNAL SERVICE CABINET BETWEEN CONTROLLER CABINET AND SERVICE CABINET: METERED SIGNAL SERVICE 2" R.S.C., 3-1/c#6
- CONTROLLER CABINET TO H.H.13A: 4" R.S.C., 2-12/c#14, 1-6/c#14, (*) 1-3/c#14, (*) 1-3/c#20, 6-2/c#14
- CONTROLLER CABINET TO H.H.1A: 4" R.S.C., 2-12/c#14, 1-6/c#14, (*) 1-3/c#14, (*) 2-3/c#20, 8-2/c#14, 1-1/c#6 (INS. GR.)
- F & I INPLACE (S & I) CONTROLLER CABINET TO H.H.13A: 2" R.S.C., 1-12 SM FIBER OPTIC CABLE, 1-1/c#10
- CONTROLLER CABINET TO H.H.1A: 2" R.S.C.
- F & I SERVICE CABINET TO H.H.1A: 1 1/4" R.S.C. UNMETERED STREET LIGHT SERVICE 2-3/c#14 (LUM)
- SERVICE CABINET TO H.H.13A: 1 1/4" R.S.C. UNMETERED STREET LIGHT SERVICE 2-3/c#14 (LUM)
- STUB OUT 2" R.S.C. FROM SERVICE CABINET TO EAST (FOR POWER BY CONNEXUS)
- STUB OUT 3" R.S.C. FROM CONTROLLER CABINET TO EAST (THREAD AND CAP-FOR FUTURE USE)

- (B) INPLACE (REMOVE) CABINET FOUNDATION SIGNAL SERVICE CABINET EXTENDED INTO H.H.16: 2" R.S.C., 2-3/c#14 (LUM), 2-3/c#12 (LUM), 3-1/c#6
- EXTENDED TO SOP: 2" R.S.C., 3-1/c#6
- INPLACE GROUND MOUNTED TRANSFORMER (S.O.P.) (CONNEXUS)-TO BE REUSED AND MAINTAINED INPLACE BY OTHERS

- (5) INPLACE (S & I) (*) ONE WAY EVP DETECTOR-MOUNT ON TOP OF NEW SLIPFITTER COLLAR (#8,3)
- INPLACE (REMOVE) (*) PEDESTAL FOUNDATION (*) PEDESTAL POLE AND BASE EXTENDED INTO H.H.18: (*) 2" R.S.C., (*) 1-3/c#20
- F & I (*) PEDESTAL FOUNDATION (*) 10' PEDESTAL POLE (INCLUDES BASE, WIND COLLAR) (*) SLIPFITTER COLLAR ATOP PEDESTAL POLE EXTEND INTO H.H.2A: (*) 2" R.S.C., (*) 1-3/c#20

- (1) INPLACE (S & I) TYPE PA100-A-50-D40-9 (DAVIT AT 350 DEG) LUMINAIRE-LED "SHOEBOX" LUMINAIRE CHECK SWITCH AT 0 DEG 1-ANGLE MOUNT SIGNAL-OVERHEAD AT 0' (5-1) 2-STRAIGHT MOUNT SIGNALS-OVERHEAD AT 12' AND 24' (2-3, 2-2) 2-TYPE 10B-POLE MOUNTED 90 DEG (7-2, P8-1) AND 180 DEG (2-1, P2-2) 2-PEDESTRIAN PUSH BUTTONS & SIGNS (R10-3e) R10-X12 SIGN PANEL-ADJACENT TO 5-1 TYPE D SIGN PANEL-OVERHEAD ONE WAY EVP CONFIRMATION LIGHT (#2,5)
- INPLACE (REMOVE) PA100 POLE FOUNDATION EXTENDED INTO H.H.15: 3" R.S.C., 2-12/c#12, 1-6/c#14, 3-3/c#12, 1-3/c#12 (LUM)
- F & I PA100 POLE FOUNDATION EXTEND INTO H.H.13A: 3" CONDUIT 3-12/c#14, (*) 1-3/c#14, 2-2/c#14, 1-3/c#14 (LUM), 1-1/c#6 (INS. GR.)

- (3) INPLACE (REMOVE) PA100 POLE FOUNDATION TYPE PA100-A-50-D40-9 (DAVIT AT 350 DEG) LUMINAIRE-LED "SHOEBOX" LUMINAIRE CHECK SWITCH AT 0 DEG 1-ANGLE MOUNT SIGNAL-OVERHEAD AT 0' 2-STRAIGHT MOUNT SIGNALS-OVERHEAD AT 12' & 24' 2-TYPE 10B-POLE MOUNTED 90 DEG & 180 DEG 2-PEDESTRIAN PUSH BUTTONS & SIGNS (R10-3e) R10-X12 SIGN PANEL-ADJACENT TO 1-1 TYPE D SIGN PANEL-OVERHEAD TWO WAY EVP DETECTOR AND ONE WAY LIGHT (#6,1 DETECTOR/LIGHT, #2,5 DETECTOR) EXTENDED INTO H.H.7A: 3" CONDUIT
- INPLACE (REMOVE) 3-12/c#14, 2-3/c#14, 2-3/c#20, 2-2/c#14, 1-1/c#6 (INS. GR.)
- F & I 3-12/c#14, (*) 1-3/c#14, (*) 2-3/c#20, 2-2/c#14, 1-3/c#14 (LUM), 1-1/c#6 (INS. GR.)

- (2) INPLACE (REMOVE) PA90 POLE FOUNDATION TYPE PA90-A-35-D40-9 (DAVIT AT 350 DEG) LUMINAIRE-LED "SHOEBOX" LUMINAIRE CHECK SWITCH AT 0 DEG 1-ANGLE MOUNT SIGNAL-OVERHEAD AT 0' 1-STRAIGHT MOUNT SIGNAL-OVERHEAD AT 12' 2-TYPE 10B-POLE MOUNTED 90 DEG & 180 DEG 2-PEDESTRIAN PUSH BUTTONS & SIGNS (R10-3e) R10-X12 SIGN PANEL-ADJACENT TO 7-1 TYPE D SIGN PANEL-OVERHEAD ONE WAY EVP DETECTOR AND LIGHT (#4,7)-3 FEET FROM RIGHT END OF MAST ARM EXTENDED INTO H.H.3A: 3" CONDUIT
- INPLACE (REMOVE) 2-12/c#14, 1-6/c#14, 2-3/c#14, 1-3/c#20, 2-2/c#14, 1-1/c#6 (INS. GR.)
- F & I 2-12/c#14, 1-6/c#14, (*) 1-3/c#14, (*) 1-3/c#20, 2-2/c#14, 1-3/c#14 (LUM), 1-1/c#6 (INS. GR.)

- (4) INPLACE (REMOVE) PA90 POLE FOUNDATION TYPE PA90-A-30-D40-9 (DAVIT AT 350 DEG) 2-TYPE 10B BRACKETING-POLE MOUNTED 90/180 DEG EXTENDED INTO H.H.10: 3" R.S.C., 2-12/c#12, 1-6/c#14, 2-3/c#12, 1-3/c#20, 1-3/c#12 (LUM)
- INPLACE (S & I) LUMINAIRE-LED "SHOEBOX" 1-ONE WAY SIGNAL-OVERHEAD AT 0' (3-1) 1-ONE WAY SIGNAL-OVERHEAD AT 11' (8-2) 2-ONE WAY SIGNALS-POLE MOUNTED 90 DEG (5-2) AND 180 DEG (8-1) 2-SETS OD PED INDICATIONS (P6-1, P8-2) 2-PEDESTRIAN PUSH BUTTONS (PB6-1, PB8-2) R10-X12 SIGN PANEL-ADJACENT TO 3-1 TYPE D SIGN PANEL-OVERHEAD (D-5) (*) ONE WAY EVP DETECTOR AND LIGHT AT 6' (#8,3)
- F & I PA100 POLE FOUNDATION TYPE PA100-A-45-D40-9 (DAVIT AT 350 DEG) MID-MAST ARM MOUNT AT 11' (FOR 8-2) 1-ANGLE MOUNT-OVERHEAD AT 0' (FOR 3-1) 1-STRAIGHT MOUNT-OVERHEAD AT 11' (FOR 8-2) 2-TYPE 10B BRACKETING-POLE MOUNTED 90 DEG (5-2, P6-1) AND 180 DEG (8-1, P8-2) 2-PEDESTRIAN INSTRUCTION SIGNS (R10-3e) EXTEND INTO H.H.10A: 3" CONDUIT 2-12/c#14, 1-6/c#14, (*) 1-3/c#14, (*) 1-3/c#20, 2-2/c#14, 1-3/c#14 (LUM), 1-1/c#6 (INS. GR.)

DRAWN BY: LC
 DESIGNER: JMQ
 CHECKED BY: JMQ

I HEREBY CERTIFY THAT THIS PLAN 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.

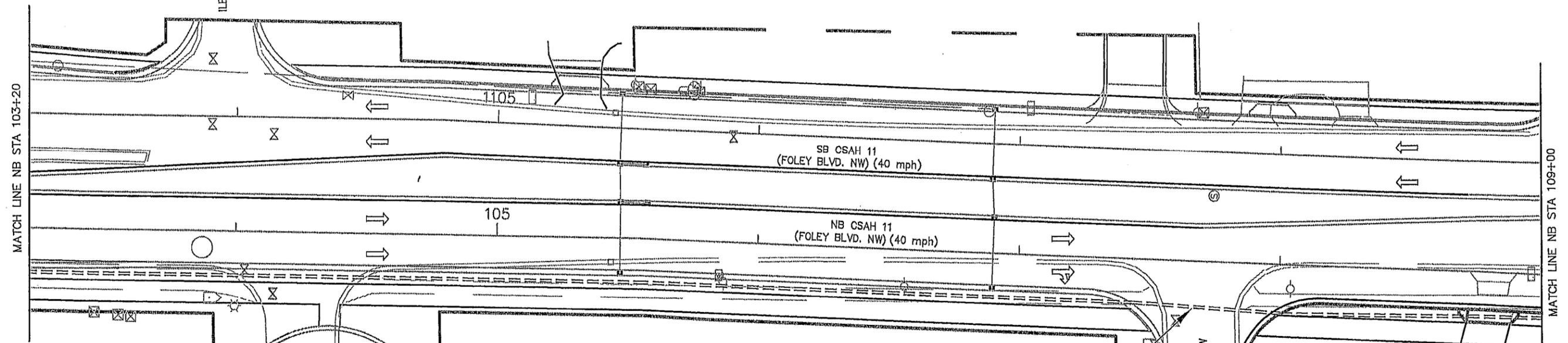
PHONE: (651) 490-2000
 3535 WADSWORTH CENTER DR.
 ST. PAUL, MN 55110

ANOKA COUNTY
 CITY OF COON RAPIDS

REVISE SIGNAL SYSTEM 'A'
 INTERSECTION LAYOUT

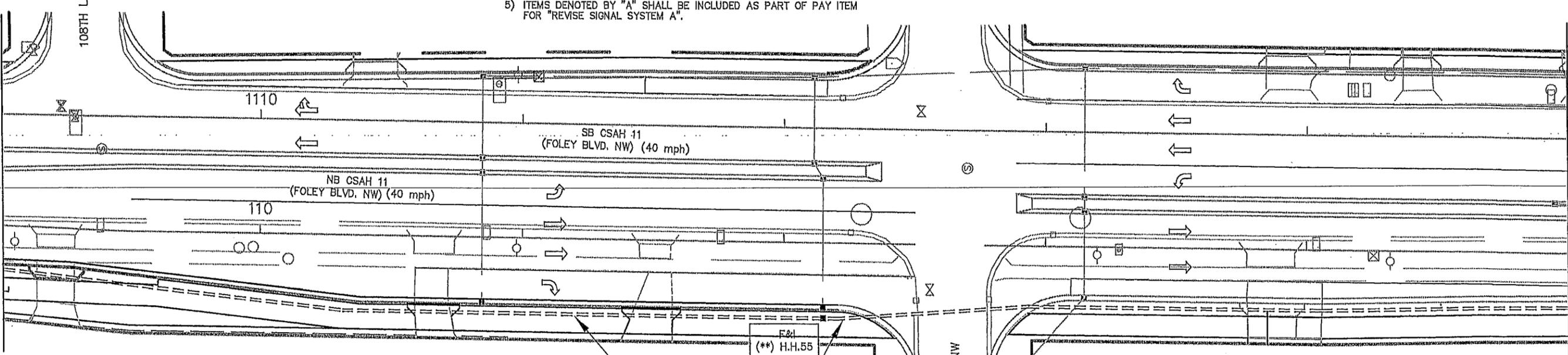
FILE NO. 176
 ANOKA 132239
 SIGNAL SHEET

S.P. 002-611-034
 S.P. 114-020-050
 CITY PROJ. 13-10



- INTERCONNECT NOTES:**
- 1) IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO UTILIZE THE "ONE CALL EXCAVATION NOTICE SYSTEM" (TELEPHONE NUMBER 651-454-0002) AS REQUIRED BY MINNESOTA STATUTE 2160.
 - 2) DISTANCE OFF SHOULDER OR CURB FOR INTERCONNECT CONDUIT SHALL BE 1-2 FEET.
 - 3) (**) DENOTES ITEMS TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNDER ITEM NO. 2565 (TRAFFIC CONTROL INTERCONNECT). SEE STATEMENT OF ESTIMATED QUANTITIES AND SPECIAL PROVISIONS.
 - 4) NEW HANDHOLES SHALL BE PVC HANDHOLES WITH METAL FRAMES AND COVERS. SEE SPECIAL PROVISIONS.
 - 5) ITEMS DENOTED BY "A" SHALL BE INCLUDED AS PART OF PAY ITEM FOR "REVISE SIGNAL SYSTEM A".

H.H.13A ("A") TO H.H.55:
 (**) 2" CONDUIT
 (**) 1-12 SM FO CABLE
 (**) 1-1/c#10

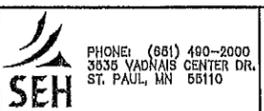


H.H.13A ("A") TO H.H.55:
 H.H.55 TO H.H.58:
 (**) 2" CONDUIT
 (**) 1-12 SM FO CABLE
 (**) 1-1/c#10

DRAWN BY: LO			
DESIGNER: JMG			
CHECKED BY: JMG			
DESIGN TEAM	NO.	BY	DATE
			REVISIONS

I HEREBY CERTIFY THAT THIS PLAN 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.

Date: April 4, 2018 Name: John M. Gray, PE Lic. No. 22457



ANOKA COUNTY
CITY OF COON RAPIDS

TRAFFIC CONTROL INTERCONNECTION
INTERSECTION LAYOUT
 CSAH 11 (EGRET BLVD TO NORTHDAL BLVD)

S.P. 002-611-034
 S.P. 114-020-050
 CITY PROJ. 13-10

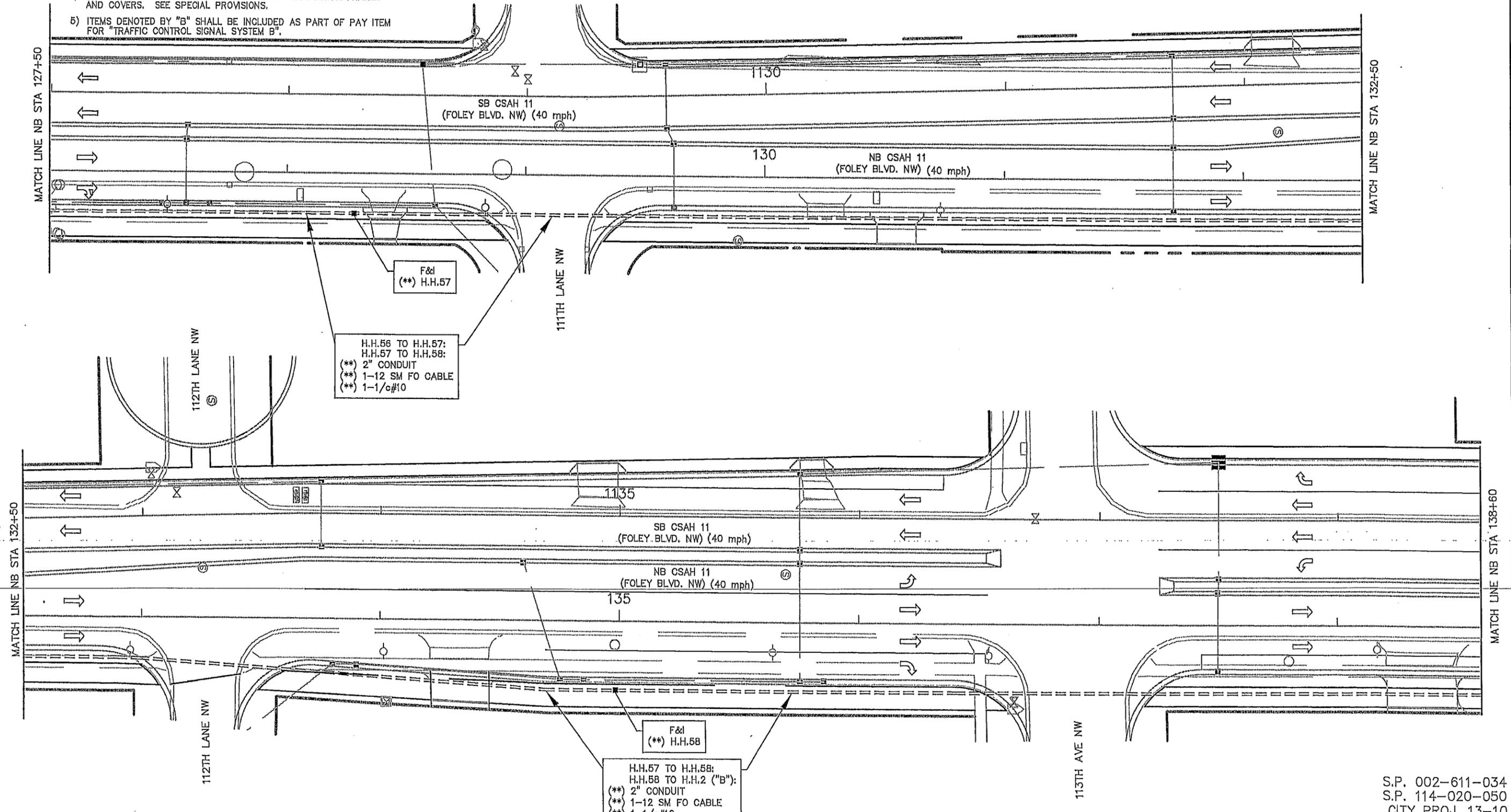
FILE NO. ANOKG 132239
 SIGNAL SHEET 16 OF 29

178
 298



INTERCONNECT NOTES:

- 1) IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO UTILIZE THE "ONE CALL EXCAVATION NOTICE SYSTEM" (TELEPHONE NUMBER 651-454-0002) AS REQUIRED BY MINNESOTA STATUTE 2180.
- 2) DISTANCE OFF SHOULDER OR CURB FOR INTERCONNECT CONDUIT SHALL BE 1-2 FEET.
- 3) (**) DENOTES ITEMS TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNDER ITEM NO. 2565 (TRAFFIC CONTROL INTERCONNECT). SEE STATEMENT OF ESTIMATED QUANTITIES AND SPECIAL PROVISIONS.
- 4) NEW HANDHOLES SHALL BE PVC HANDHOLES WITH METAL FRAMES AND COVERS. SEE SPECIAL PROVISIONS.
- 5) ITEMS DENOTED BY "B" SHALL BE INCLUDED AS PART OF PAY ITEM FOR "TRAFFIC CONTROL SIGNAL SYSTEM B".



H.H.56 TO H.H.57:
H.H.57 TO H.H.58:
(**) 2" CONDUIT
(**) 1-12 SM FO CABLE
(**) 1-1/c#10

F&I
(**) H.H.58
H.H.57 TO H.H.58:
H.H.58 TO H.H.2 ("B"):
(**) 2" CONDUIT
(**) 1-12 SM FO CABLE
(**) 1-1/c#10

DRAWN BY: <u>LO</u>				
DESIGNER: <u>JMG</u>				
CHECKED BY: <u>JMG</u>				
DESIGN TEAM	NO.	BY	DATE	REVISIONS

I HEREBY CERTIFY THAT THIS PLAN 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.

John M. Gray
Name: John M. Gray, PE
Lic. No. 22457
Date: April 4, 2018

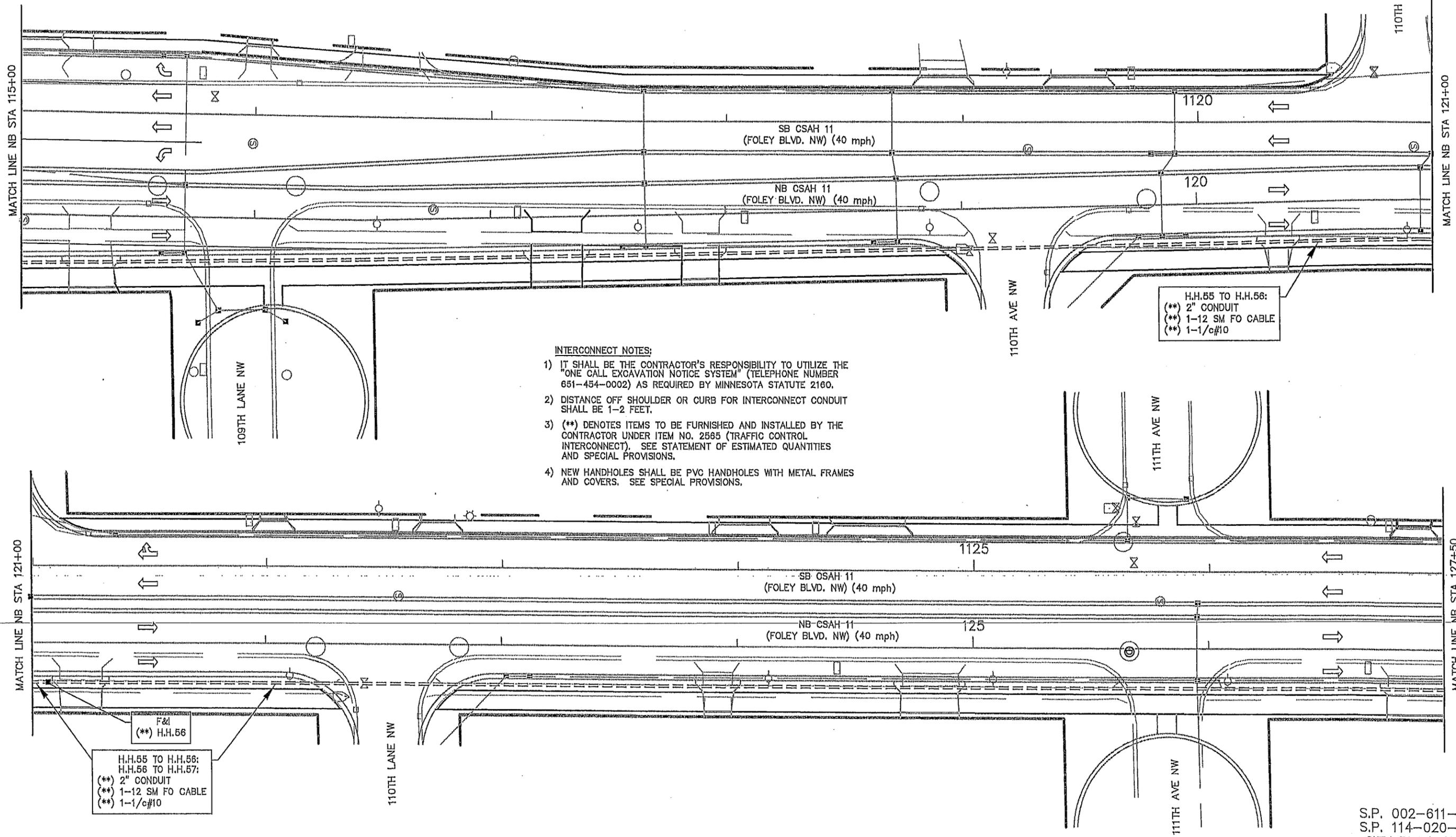
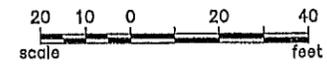
PHONE: (651) 490-2000
3535 VADNAIS CENTER DR.
ST. PAUL, MN 55110

ANOKA COUNTY
CITY OF COON RAPIDS

TRAFFIC CONTROL INTERCONNECTION
INTERSECTION LAYOUT
CSAH 11 (EGRET BLVD TO NORTHDAL BLVD)

S.P. 002-611-034
S.P. 114-020-050
CITY PROJ. 13-10

FILE NO. ANOKA 132239	180
SIGNAL SHEET 18 OF 29	298



- INTERCONNECT NOTES:**
- 1) IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO UTILIZE THE "ONE CALL EXCAVATION NOTICE SYSTEM" (TELEPHONE NUMBER 651-454-0002) AS REQUIRED BY MINNESOTA STATUTE 2160.
 - 2) DISTANCE OFF SHOULDER OR CURB FOR INTERCONNECT CONDUIT SHALL BE 1-2 FEET.
 - 3) (**) DENOTES ITEMS TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNDER ITEM NO. 2565 (TRAFFIC CONTROL INTERCONNECT). SEE STATEMENT OF ESTIMATED QUANTITIES AND SPECIAL PROVISIONS.
 - 4) NEW HANDHOLES SHALL BE PVC HANDHOLES WITH METAL FRAMES AND COVERS. SEE SPECIAL PROVISIONS.

H.H.55 TO H.H.56:
 (**) 2" CONDUIT
 (**) 1-12 SM FO CABLE
 (**) 1-1/c#10

F&I
 (**) H.H.56
 H.H.55 TO H.H.56;
 H.H.56 TO H.H.57:
 (**) 2" CONDUIT
 (**) 1-12 SM FO CABLE
 (**) 1-1/c#10

S.P. 002-611-034
 S.P. 114-020-050
 CITY PROJ. 13-10

DRAWN BY: <u>LO</u>				
DESIGNER: <u>JMG</u>				
CHECKED BY: <u>JMG</u>				
DESIGN TEAM	NO.	BY	DATE	REVISIONS

I HEREBY CERTIFY THAT THIS PLAN 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.

John M. Gray
 Name: John M. Gray, PE
 Lic. No. 22457
 Date: April 4, 2016

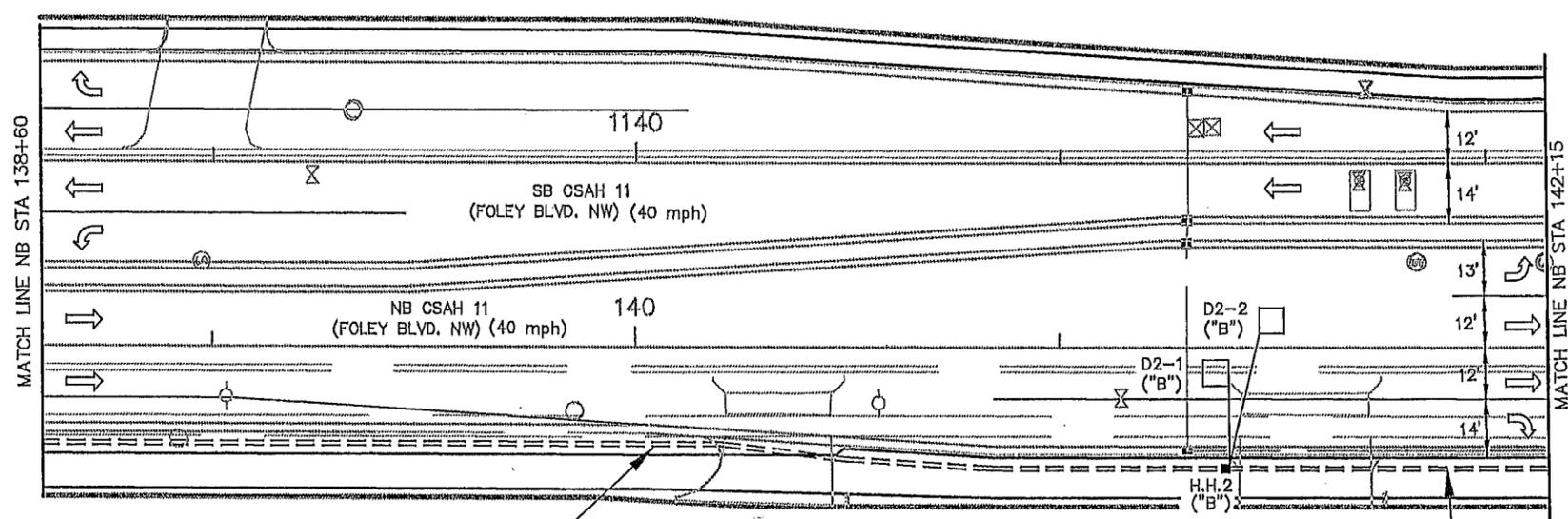
SEH
 PHONE (651) 490-2000
 3535 VADNAIS CENTER DR.
 ST. PAUL, MN 55110

ANOKA COUNTY
CITY OF COON RAPIDS

TRAFFIC CONTROL INTERCONNECTION
INTERSECTION LAYOUT
 CSAH 11 (EGRET BLVD TO NORTHDAL BLVD)

FILE NO. ANOKG 132239	179
SIGNAL SHEET 17 OF 29	298

7111



H.H.58 TO H.H.2 ("B"):
 (**)-2" CONDUIT.
 (**)-1-12 SM FO CABLE
 (**)-1-1/c#10

H.H.1 TO H.H.2:
 2" R.S.C. ("B")
 2-2/c#14 ("B")
 (**)-2" CONDUIT
 (**)-1-12 SM FO CABLE
 (**)-1-1/c#10

INTERCONNECT NOTES:

- 1) IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO UTILIZE THE "ONE CALL EXCAVATION NOTICE SYSTEM" (TELEPHONE NUMBER 651-454-0002) AS REQUIRED BY MINNESOTA STATUTE 2180.
- 2) DISTANCE OFF SHOULDER OR CURB FOR INTERCONNECT CONDUIT SHALL BE 1-2 FEET.
- 3) (**) DENOTES ITEMS TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNDER ITEM NO. 2565 (TRAFFIC CONTROL INTERCONNECT). SEE STATEMENT OF ESTIMATED QUANTITIES AND SPECIAL PROVISIONS.
- 4) NEW HANDHOLES SHALL BE PVC HANDHOLES WITH METAL FRAMES AND COVERS. SEE SPECIAL PROVISIONS.
- 5) ITEMS DENOTED BY "B" SHALL BE INCLUDED AS PART OF PAY ITEM FOR "TRAFFIC CONTROL SIGNAL SYSTEM B".

S.P. 002-611-034
 S.P. 114-020-050
 CITY PROJ. 13-10

DRAWN BY: LC
 DESIGNER: JMG
 CHECKED BY: JMG
 DESIGN TEAM

NO.	BY	DATE	REVISIONS

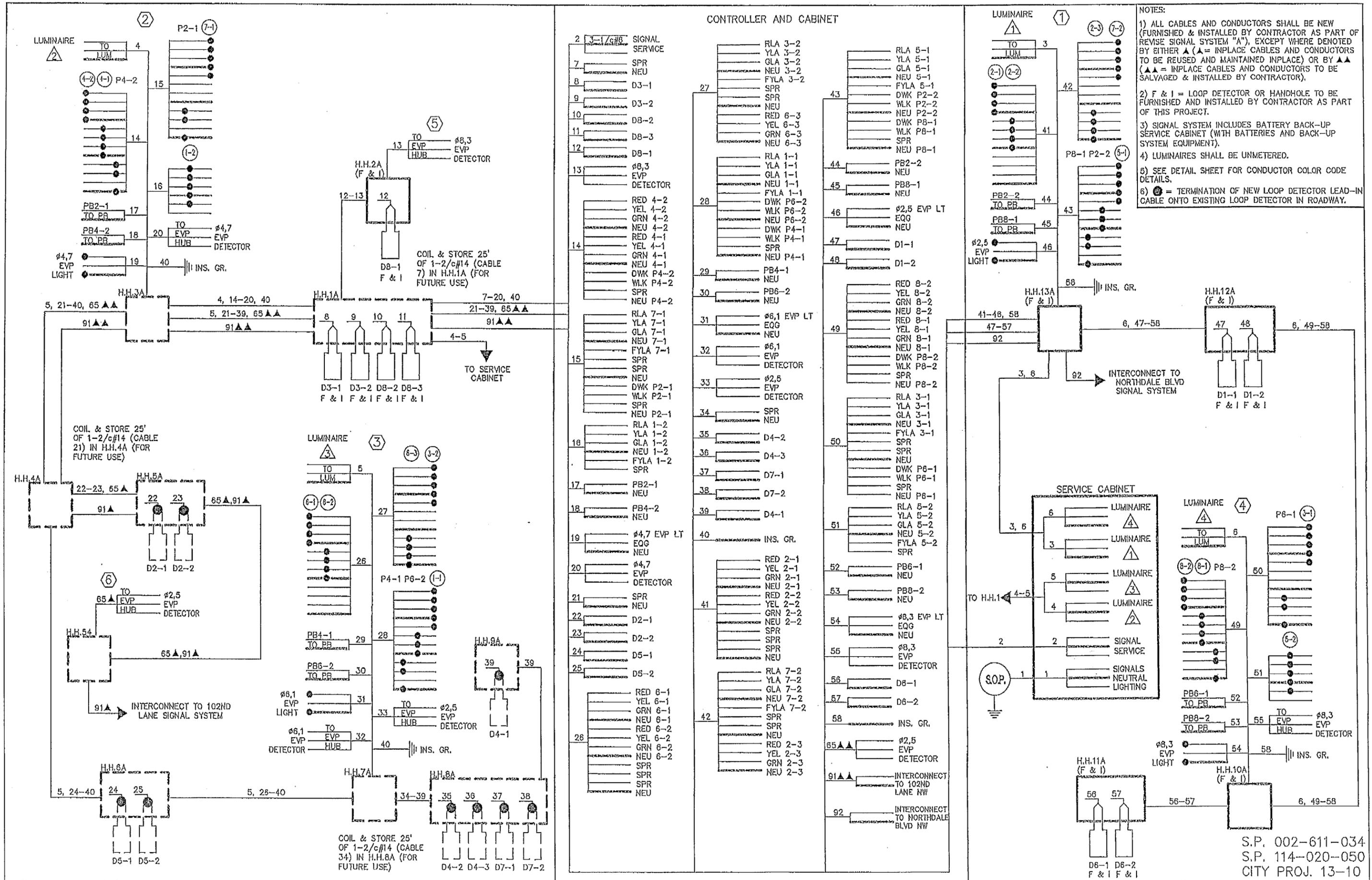
I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 Date: April 4, 2018 Name: John M. Gray, PE Lic. No. 22457

SEH
 PHONE: (651) 460-2000
 3535 VADNAIS CENTER DR.
 ST. PAUL, MN 55110

ANOKA COUNTY
CITY OF COON RAPIDS

SIGNAL SYSTEM "B"/INTERCONNECT INTERSECTION LAYOUT
 CSAH 11 (FOLEY BLVD NW) AT
 CSAH 11/12 (NORTHDALE BLVD NW)

FILE NO. 181
 ANOKA 132239
 SIGNAL SHEET
 19 OF 29
298



NOTES:

- 1) ALL CABLES AND CONDUCTORS SHALL BE NEW (FURNISHED & INSTALLED BY CONTRACTOR AS PART OF REVISE SIGNAL SYSTEM "A"), EXCEPT WHERE DENOTED BY EITHER ▲ (▲ = INPLACE CABLES AND CONDUCTORS TO BE REUSED AND MAINTAINED INPLACE) OR BY ▲▲ (▲▲ = INPLACE CABLES AND CONDUCTORS TO BE SALVAGED & INSTALLED BY CONTRACTOR).
- 2) F & I = LOOP DETECTOR OR HANDHOLE TO BE FURNISHED AND INSTALLED BY CONTRACTOR AS PART OF THIS PROJECT.
- 3) SIGNAL SYSTEM INCLUDES BATTERY BACK-UP SERVICE CABINET (WITH BATTERIES AND BACK-UP SYSTEM EQUIPMENT).
- 4) LUMINAIRES SHALL BE UNMETERED.
- 5) SEE DETAIL SHEET FOR CONDUCTOR COLOR CODE DETAILS.
- 6) ● = TERMINATION OF NEW LOOP DETECTOR LEAD-IN CABLE ONTO EXISTING LOOP DETECTOR IN ROADWAY.

DRAWN BY: LC
 DESIGNER: JMG
 CHECKED BY: JMG

I HEREBY CERTIFY THAT THIS PLAN 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.

PHONE: (651) 490-2000
 3535 VADNAIS CENTER DR.
 ST. PAUL, MN 55110

ANOKA COUNTY
 CITY OF COON RAPIDS

REVISE SIGNAL SYSTEM "A"
 FIELD WIRING DIAGRAM
 S.P. 002-611-034
 S.P. 114-020-050
 CITY PROJ. 13-10
 FILE NO. ANOKA 132239
 SIGNAL SHEET 177