

STATUS:

- 1 = MAINTAIN 3-SECTION HEAD AT CURRENT LOCATION (AT 29') & REVISE SIGNAL HEAD NUMBER/LABELING (FROM 2-3 TO 2-2, AND FROM 6-3 TO 6-2).
- 2 = MAINTAIN 3-SECTION HEAD AT CURRENT LOCATION, (AT 17'), SWAP RLA-YLA-GLA LENSES WITH RYG LENSES IN RELOCATED SIGNAL HEAD AT 6', AND REVISE SIGNAL HEAD NUMBER/LABELING (FROM 5-1 TO 2-3, AND FROM 1-1 TO 6-3).
- 3 = SALVAGE INPLACE 3-SECTION HEAD FROM MOUNT AT 41' (OLD 2-2, 6-2) (CAP MOUNT), INSTALL ON NEW STRAP-ON MID-MAST ARM MOUNT AT 6', SWAP RYG LENSES WITH RLA-YLA-GLA LENSES IN INPLACE SIGNAL HEAD AT 17', AND REVISE SIGNAL HEAD NUMBER/LABELING (FROM 2-2 TO 5-1, AND FROM 6-2 TO 1-1).
- 4 = REVISE FROM TYPE 10A BRACKETING TO TYPE 10B BRACKETING (TO INCORPORATE NEW ONE SECTION PEDESTRIAN INDICATION INSTALLATION).

SIGNAL HEAD #	ALL 12" INDICATIONS				STATUS
	R	Y	FYA	G	
1-1	←	←	←	←	3
1-2	←	←	←	←	INPLACE
2-1	○	○	○	○	INPLACE
2-2	○	○	○	○	1
2-3	○	○	○	○	2
3-1	←	←	←	←	INPLACE
3-2 (&&)	←	←	←	←	4
4-1 (&&)	○	○	○	○	4
4-2, 4-3	○	○	○	○	INPLACE
5-1	←	←	←	←	3
5-2	←	←	←	←	INPLACE
6-1	○	○	○	○	INPLACE
6-2	○	○	○	○	1
6-3	○	○	○	○	2
7-1, 7-2	←	←	←	←	INPLACE
8-1, 8-2, 8-3	○	○	○	○	INPLACE

○ ← = INPLACE LED (REUSE INPLACE).
FYA = FLASHING YELLOW ARROW

MATCH LINE TO WEST

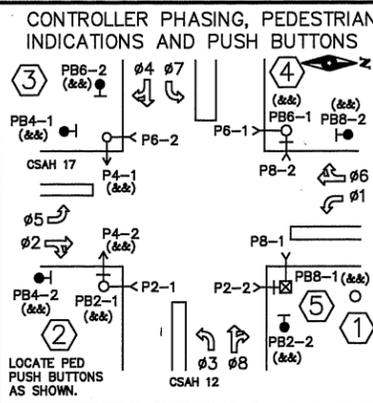
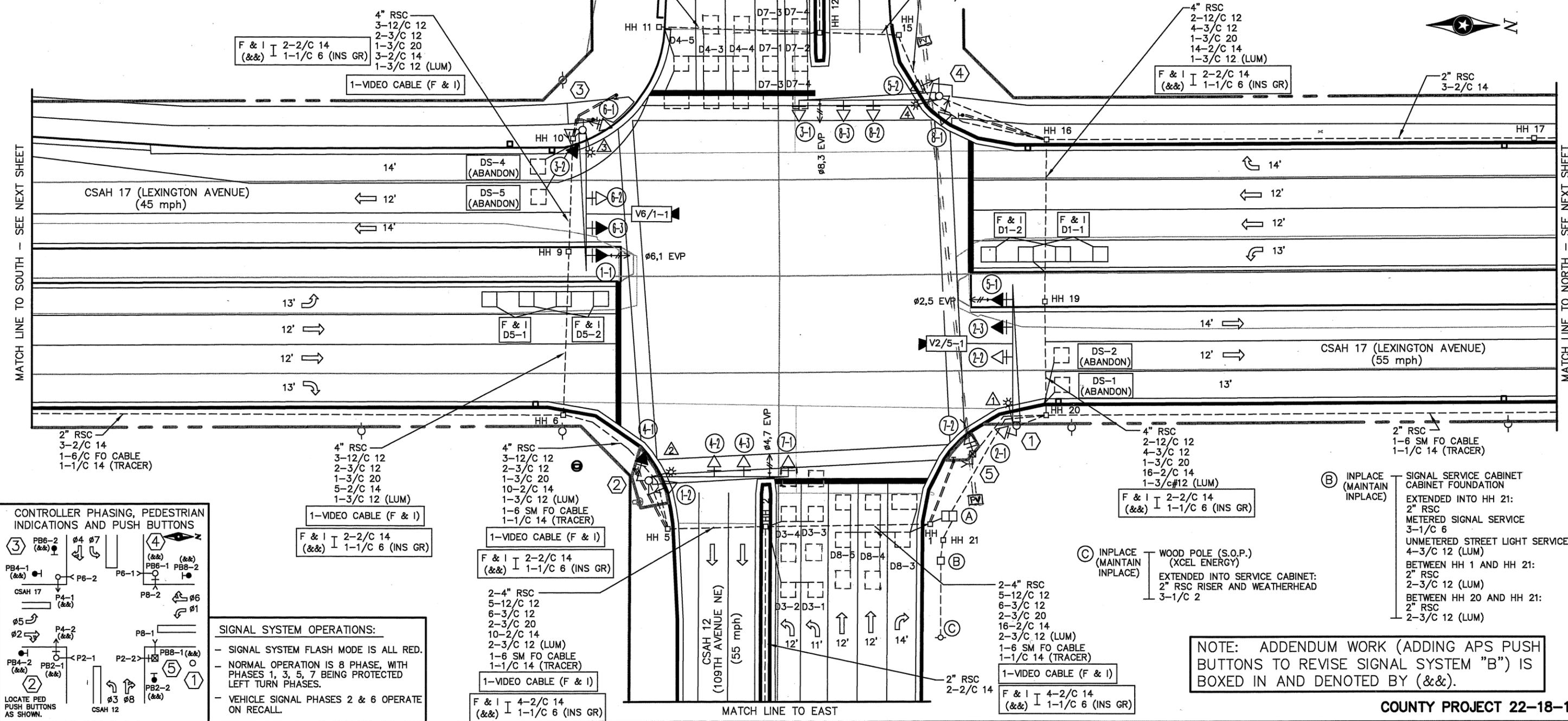
LOOP DETECTORS FUNCTIONS:

- 1) CALL AND EXTEND
- 3) EXTEND ONLY
- 7) DELAYED CALL- IMMEDIATE EXTEND
- 8) CARRY OVER (STRETCH)

PVC LOOP DETECTORS				
NUMBER	SIZE (FT.)	LOCATION	FUNCTION	STATUS
D1-1	2-6x6	20' & 50'	1	F & I
D1-2	2-6x6	5' & 35'	1	F & I
D2-1	6x6	300'	1	F & I
D2-2	6x6	300'	1	F & I
D3-1	6x6	40'	1	INPLACE
D3-2	6x6	40'	1	INPLACE
D3-3	6x6	10'	1	INPLACE
D3-4	6x6	10'	1	INPLACE
D4-1	6x6	475'	3,8	INPLACE
D4-2	6x6	475'	3,8	INPLACE
D4-3	2-6x6	-5' & 10'	1	INPLACE
D4-4	2-6x6	-5' & 10'	1	INPLACE
D4-5	6x10&6x6	-5' & 10'	7	INPLACE

PVC LOOP DETECTORS				
NUMBER	SIZE (FT.)	LOCATION	FUNCTION	STATUS
D5-1	2-6x6	20' & 50'	1	F & I
D5-2	2-6x6	5' & 35'	1	F & I
D6-1	6x6	475'	1	F & I
D6-2	6x6	475'	1	F & I
D7-1	2-6x6	10' & 40'	1	INPLACE
D7-2	2-6x6	10' & 40'	1	INPLACE
D7-3	2-6x6	-5' & 25'	1	INPLACE
D7-4	2-6x6	-5' & 25'	1	INPLACE
D8-1	6x6	475'	3,8	INPLACE
D8-2	6x6	475'	3,8	INPLACE
D8-3	6x10&6x6	5' & 20'	7	INPLACE
D8-4	2-6x6	5' & 20'	1	INPLACE
D8-5	2-6x6	5' & 20'	1	INPLACE

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



SIGNAL SYSTEM OPERATIONS:

- SIGNAL SYSTEM FLASH MODE IS ALL RED.
- NORMAL OPERATION IS 8 PHASE, WITH PHASES 1, 3, 5, 7 BEING PROTECTED LEFT TURN PHASES.
- VEHICLE SIGNAL PHASES 2 & 6 OPERATE ON RECALL.

NOTE: ADDENDUM WORK (ADDING APS PUSH BUTTONS TO REVISE SIGNAL SYSTEM "B") IS BOXED IN AND DENOTED BY (&&).

DRAWN BY:	JMG
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.

Name: John M Gray, PE
Lic. No. 22457
Date: May 9, 2022

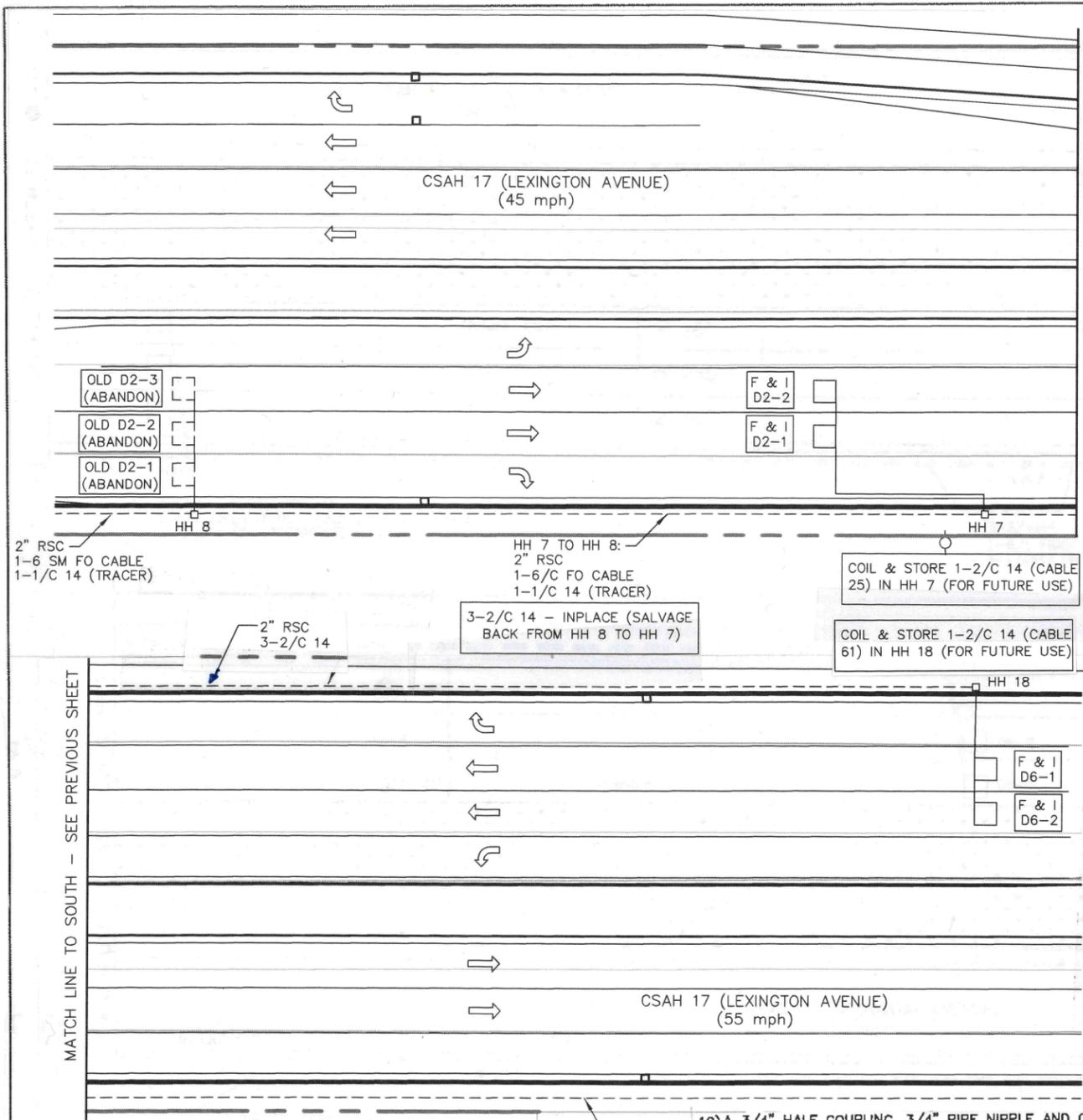
SEH
PHONE: (651) 490-2000
3535 VADNAIS CENTER DR.
ST. PAUL, MN 55110

**ANOKA COUNTY
CITY OF BLAINE**

**REVISE SIGNAL SYSTEM "B"
INTERSECTION LAYOUT**
CSAH 17 (LEXINGTON AVENUE NE)
AT CSAH 12 (109TH AVENUE NE)

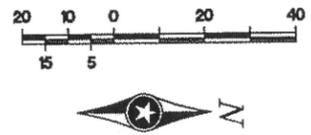
FILE NO.
ANOKC 122928
SIGNAL SHEET
6 OF 35

57A
94



MATCH LINE TO NORTH - SEE PREVIOUS SHEET

MATCH LINE TO SOUTH - SEE PREVIOUS SHEET

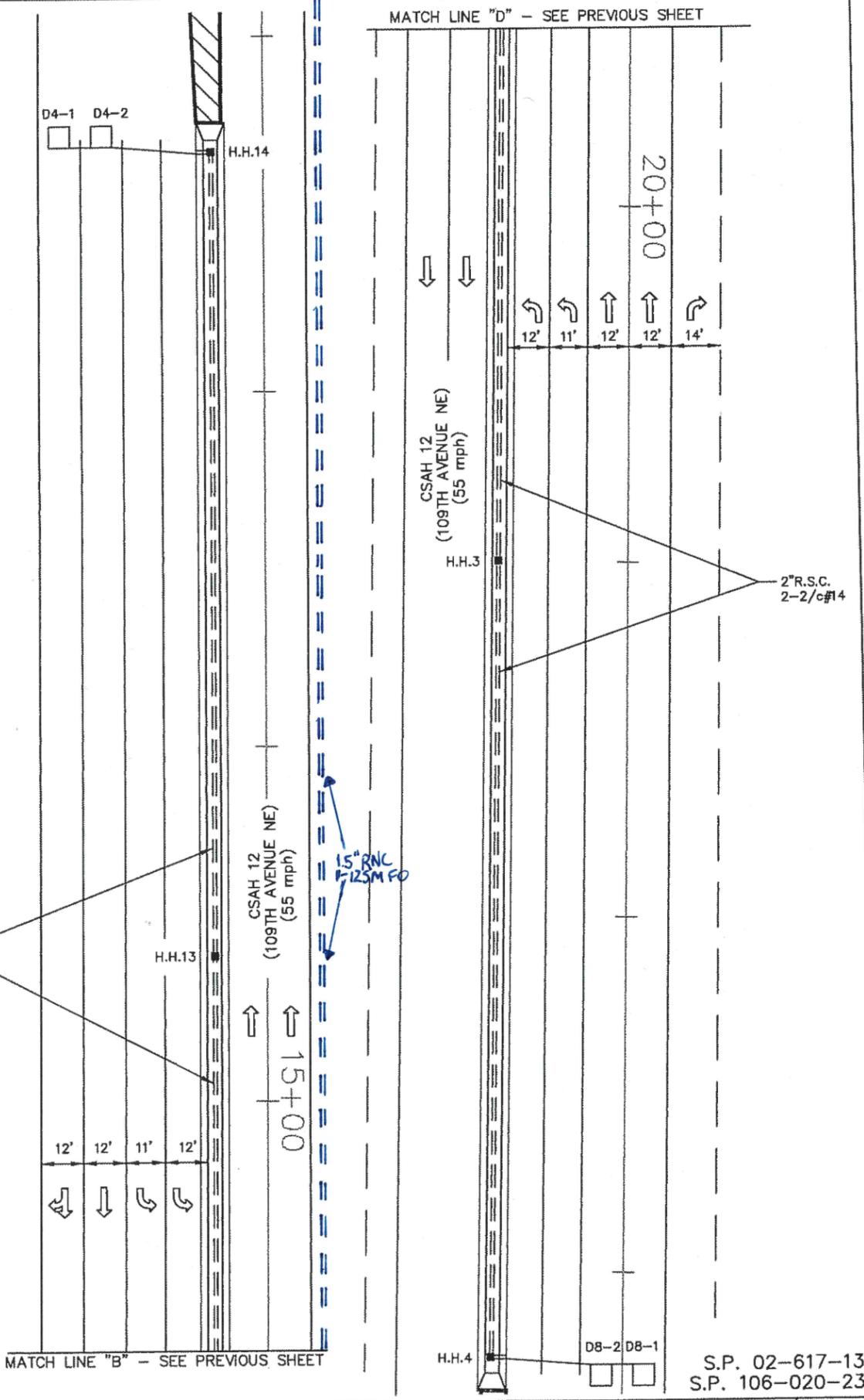


NOTES:

- 1) LOCATION OF PDLES, CONTROLLER CABINET, SERVICE CABINET, LOOP DETECTORS AND HANDHOLES SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- 2) SEE SPECIAL PROVISIONS FOR COUNTY FURNISHED MATERIALS.
- 3) LOOP DETECTOR WIRES SHALL BE CROSS-LINKED POLYETHYLENE (XLP) IN 3/4" N.M.C. SEE SPECIAL PROVISIONS.
- 4) NEW HANDHOLES SHALL BE PVC HANDHOLES WITH METAL FRAMES AND COVERS.
- 5) EACH SIGNAL FACE SHALL HAVE BACKGROUND SHIELD.
- 6) EACH PEDESTRIAN INDICATION SHALL BE ONE SECTION HAND/WALKING PERSON INDICATION.
- 7) ALL VEHICLE SIGNAL INDICATIONS, AND ALL PEDESTRIAN SIGNAL INDICATIONS SHALL BE LEO.
- 8) SEE SPECIAL PROVISIONS AND DETAILS REGARDING SIGNS TO BE FURNISHED & INSTALLED BY CONTRACTOR (INCIDENTAL TO ITEM NO. 2565.511 FOR THIS SIGNAL SYSTEM).
- 9) CONTRACTOR SHALL PROVIDE EXTENDED BRACKETS FOR EACH POLE MOUNTED VEHICLE AND PEDESTRIAN SIGNAL FACE.

2" RSC
1-6 SM FO CABLE
1-1/C 14 (TRACER)

- 10) A 3/4" HALF COUPLING, 3/4" PIPE NIPPLE AND CONDUIT OUTLET BODY SHALL BE FURNISHED AND INSTALLED 6 FEET FROM THE END OF EACH MAST ARM (FOR EVP).
- 11) SEE SPECIAL PROVISIONS & ESTIMATED QUANTITIES REGARDING INPLACE SIGNAL SYSTEM TO BE REMOVED AND SALVAGED BY CONTRACTOR (SEPARATE FROM ITEM NO. 2565.511).
- 12) CONTRACTOR SHALL MAINTAIN OPERATION OF INPLACE SIGNAL SYSTEM AT ALL TIMES, UNTIL APPROVED BY ENGINEER FOR SIGNAL SYSTEM TO BE TURNED OFF.
- 13) CONTRACTOR SHALL COORDINATE ALL TRAFFIC SIGNAL INSTALLATION WORK WITH ROAD CONSTRUCTION TO BE COMPLETED BY OTHERS AS PART OF ENTIRE PROJECT.
- 14) (INTERCONNECT) DENOTES ITEMS TO BE FURNISHED & INSTALLED BY CONTRACTOR UNDER ITEM NO. 2565.601 (TRAFFIC CONTROL INTERCONNECTION). SEE ESTIMATED QUANTITIES & SPECIAL PROVISIONS.
- 15) CONTRACTOR SHALL COIL AND STORE AN ADDITIONAL 10' OF 1-2/c#14 CABLE IN HANDHOLES 10 AND 20 (FOR FUTURE LOOP DETECTOR INSTALLATIONS BY OTHERS).
- 16) CONTRACTOR SHALL COIL AND STORE AN ADDITIONAL 10' OF 2-2/c#14 CABLE IN HANDHOLE 19 (FOR FUTURE LOOP DETECTOR INSTALLATIONS BY OTHERS).
- 17) CONTRACTOR SHALL COIL AND STORE AN ADDITIONAL 10' OF 4-2/c#14 CABLE IN HANDHOLE 9 (FOR FUTURE LOOP DETECTOR INSTALLATIONS BY OTHERS).



MATCH LINE "D" - SEE PREVIOUS SHEET

MATCH LINE "B" - SEE PREVIOUS SHEET

DRAWN BY:	JMG	1	JMG	06/23	REVISED TO ACCOMMODATE NEW EAST GEOMETRICS
DESIGNER:	JMG				
CHECKED BY:	JMG				
DESIGN TEAM		NO.	BY	DATE	REVISIONS

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John M. Gray
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Date: June 23, 2004 Lic. No. 22457

SEH
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ST. PAUL, MN 55110

ANOKA COUNTY, MINNESOTA
CITY OF BLAINE

TRAFFIC SIGNAL SYSTEM "A"
INTERSECTION LAYOUT
CSAH 17 (LEXINGTON AVENUE) AT
CSAH 12 (109TH AVENUE NE)

FILE NO. AANOKC0305.00
SIGNAL SHEET 9A OF 28
132
226

S.P. 02-617-13
S.P. 106-020-23

MATCH LINE - STATION 68 + 55

MATCH LINE - STATION 74 + 76

70+00

70+00

CSAH 17 (LEXINGTON AVENUE)
(55 mph)

H.H.105
(INTERCONNECT)

H.H.106
(INTERCONNECT)

H.H.107
(INTERCONNECT)

2"R.S.C. (INTERCONNECT)
1-6/c FIBER OPTIC CABLE (INTERCONNECT)
1-1/c#14 (INTERCONNECT)

2"R.S.C. (INTERCONNECT)
1-6/c FIBER OPTIC CABLE (INTERCONNECT)
1-1/c#14 (INTERCONNECT)



NOTES:

- 1) IT SHALL BE 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) (INTERCONNECT) DENOTES ITEMS TO BE MEASURED AND PAID FOR UNDER ITEM NO. 2565.601 (TRAFFIC CONTROL INTERCONNECTION). SEE ESTIMATED QUANTITIES AND SPECIAL PROVISIONS.

MATCH LINE - STATION 74 + 76

MATCH LINE - STATION 82 + 13

75+00

80+00

75+00

80+00

CSAH 17 (LEXINGTON AVENUE)
(55 mph)

H.H.108
(INTERCONNECT)

H.H.109
(INTERCONNECT)

H.H.110
(INTERCONNECT)

2"R.S.C. (INTERCONNECT)
1-6/c FIBER OPTIC CABLE (INTERCONNECT)
1-1/c#14 (INTERCONNECT)

2"R.S.C. (INTERCONNECT)
1-6/c FIBER OPTIC CABLE (INTERCONNECT)
1-1/c#14 (INTERCONNECT)

2"R.S.C. (INTERCONNECT)
1-6/c FIBER OPTIC CABLE (INTERCONNECT)
1-1/c#14 (INTERCONNECT)

LOCHNESS PARK

S.P. 02-617-13
S.P. 106-020-23

W:\E\ANOKG\030903\71BLASE.DWG

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

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John M. Gray
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Date: October 9, 2003 Lic. No. 22457

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**ANOKA COUNTY,
MINNESOTA
CITY OF BLAINE**

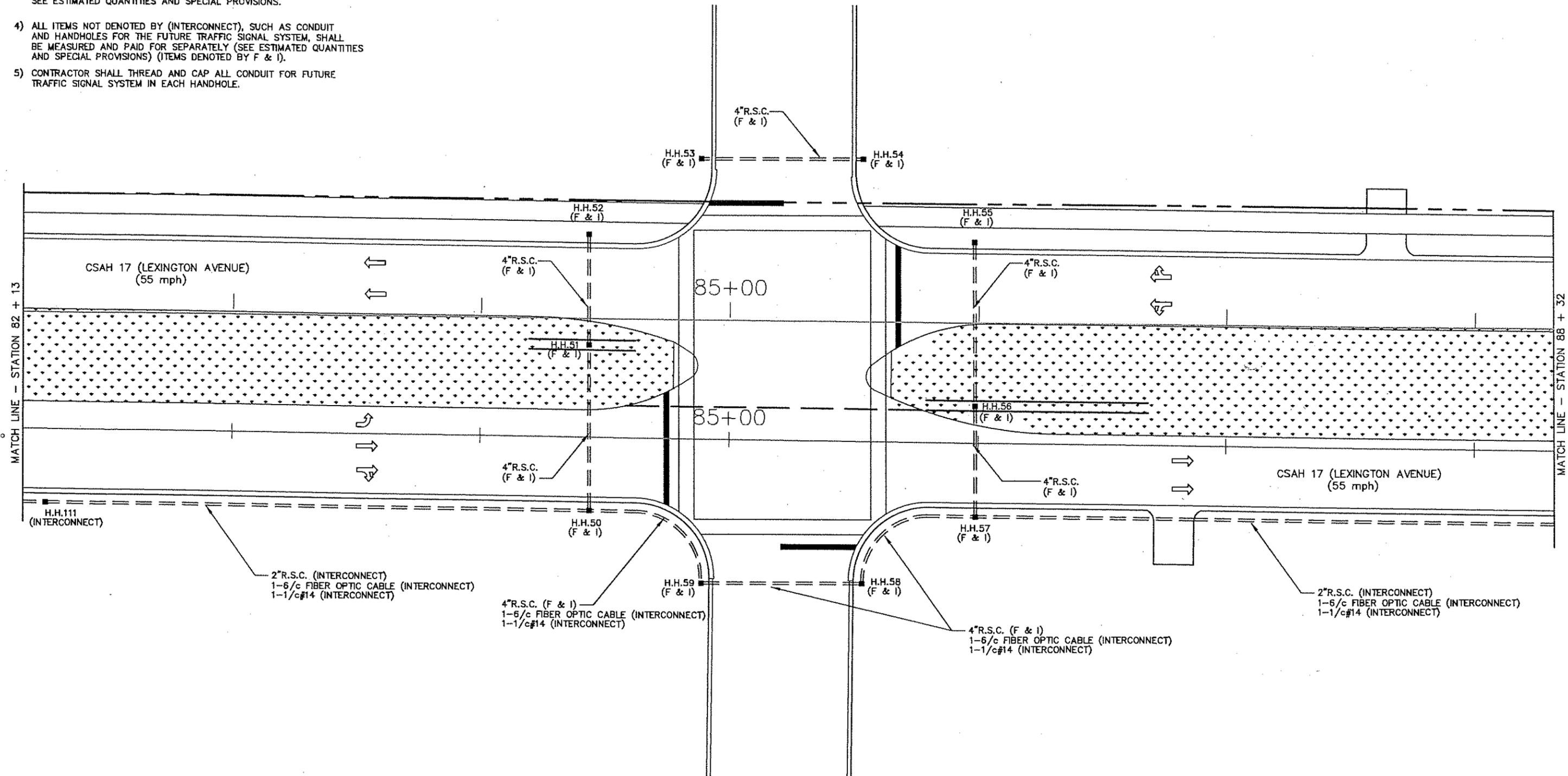
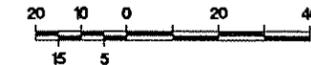
**TRAFFIC SIGNAL INTERCONNECT
INTERSECTION LAYOUT
CSAH 17 (LEXINGTON AVENUE)**

FILE NO.	AANOKC0305.00
SIGNAL SHEET	11 OF 28

134
226

NOTES:

- 1) IT SHALL BE 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) (INTERCONNECT) DENOTES ITEMS TO BE MEASURED AND PAID FOR UNDER ITEM NO. 2565.601 (TRAFFIC CONTROL INTERCONNECTION). SEE ESTIMATED QUANTITIES AND SPECIAL PROVISIONS.
- 4) ALL ITEMS NOT DENOTED BY (INTERCONNECT), SUCH AS CONDUIT AND HANDHOLES FOR THE FUTURE TRAFFIC SIGNAL SYSTEM, SHALL BE MEASURED AND PAID FOR SEPARATELY (SEE ESTIMATED QUANTITIES AND SPECIAL PROVISIONS) (ITEMS DENOTED BY F & I).
- 5) CONTRACTOR SHALL THREAD AND CAP ALL CONDUIT FOR FUTURE TRAFFIC SIGNAL SYSTEM IN EACH HANDHOLE.



FUTURE 113TH AVENUE NE

S.P. 02-617-13
S.P. 106-020-23

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

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John M. Gray
Name: John M. Gray, P.E.
Date: October 9, 2003
Lic. No. 22457



ANOKA COUNTY, MINNESOTA
CITY OF BLAINE

INTERCONNECT/FUTURE SIGNAL SYSTEM INTERSECTION LAYOUT
CSAH 17 (LEXINGTON AVENUE) AT 113TH AVENUE NORTHEAST

FILE NO.	AANOKC0305.00
SIGNAL SHEET	12 OF 28

135
226

W:\E\ANOKA\030500\7171ASE.DWG

MATCH LINE - STATION 88 + 32

MATCH LINE - STATION 94 + 55

90+00

90+00

CSAH 17 (LEXINGTON AVENUE)
(55 mph)

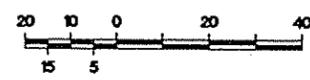
H.H.112
(INTERCONNECT)

H.H.113
(INTERCONNECT)

2"R.S.C. (INTERCONNECT)
1-6/c FIBER OPTIC CABLE (INTERCONNECT)
1-1/c#14 (INTERCONNECT)

2"R.S.C. (INTERCONNECT)
1-6/c FIBER OPTIC CABLE (INTERCONNECT)
1-1/c#14 (INTERCONNECT)

- NOTES:
- 1) IT SHALL BE 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.
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114TH AVENUE NE

MATCH LINE - STATION 94 + 55

MATCH LINE - STATION 100 + 61

95+00

100+00

95+00

100+00

CSAH 17 (LEXINGTON AVENUE)
(55 mph)

H.H.114
(INTERCONNECT)

H.H.115
(INTERCONNECT)

2"R.S.C. (INTERCONNECT)
1-6/c FIBER OPTIC CABLE (INTERCONNECT)
1-1/c#14 (INTERCONNECT)

2"R.S.C. (INTERCONNECT)
1-6/c FIBER OPTIC CABLE (INTERCONNECT)
1-1/c#14 (INTERCONNECT)

W:\AE\ANOKA\030900\7BASE.DWG

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

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Date: October 9, 2003 Lic. No. 22457

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3535 VADNAIS CENTER DR.
ST. PAUL, MN 55110

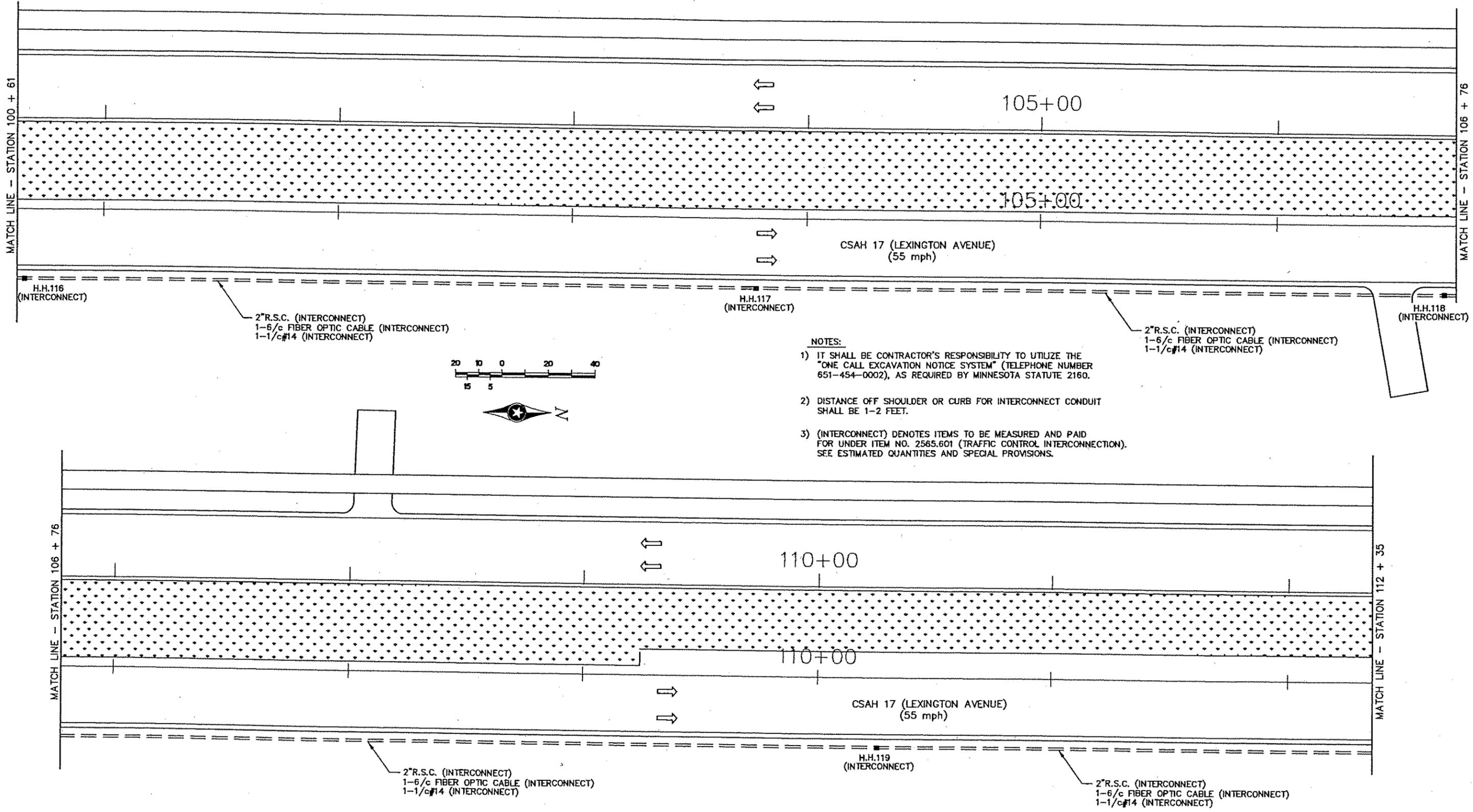
**ANOKA COUNTY,
MINNESOTA
CITY OF BLAINE**

**TRAFFIC SIGNAL INTERCONNECT
INTERSECTION LAYOUT
CSAH 17 (LEXINGTON AVENUE)**

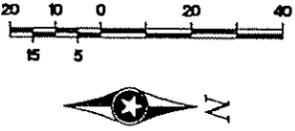
S.P. 02-617-13
S.P. 106-020-23

FILE NO. AANOKC0305.00
SIGNAL SHEET 13 OF 28

136
226



- NOTES:**
- 1) IT SHALL BE CONTRACTOR'S RESPONSIBILITY TO UTILIZE THE "ONE CALL EXCAVATION NOTICE SYSTEM" (TELEPHONE NUMBER 651-454-0002), AS REQUIRED BY MINNESOTA STATUTE 2160.
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S.P. 02-617-13
S.P. 106-020-23

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DESIGNER: JMG
CHECKED BY: JMG

NO.	BY	DATE	REVISIONS

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Name: John M. Gray, P.E.
Date: October 9, 2003 Lic. No. 22457



ANOKA COUNTY, MINNESOTA
CITY OF BLAINE

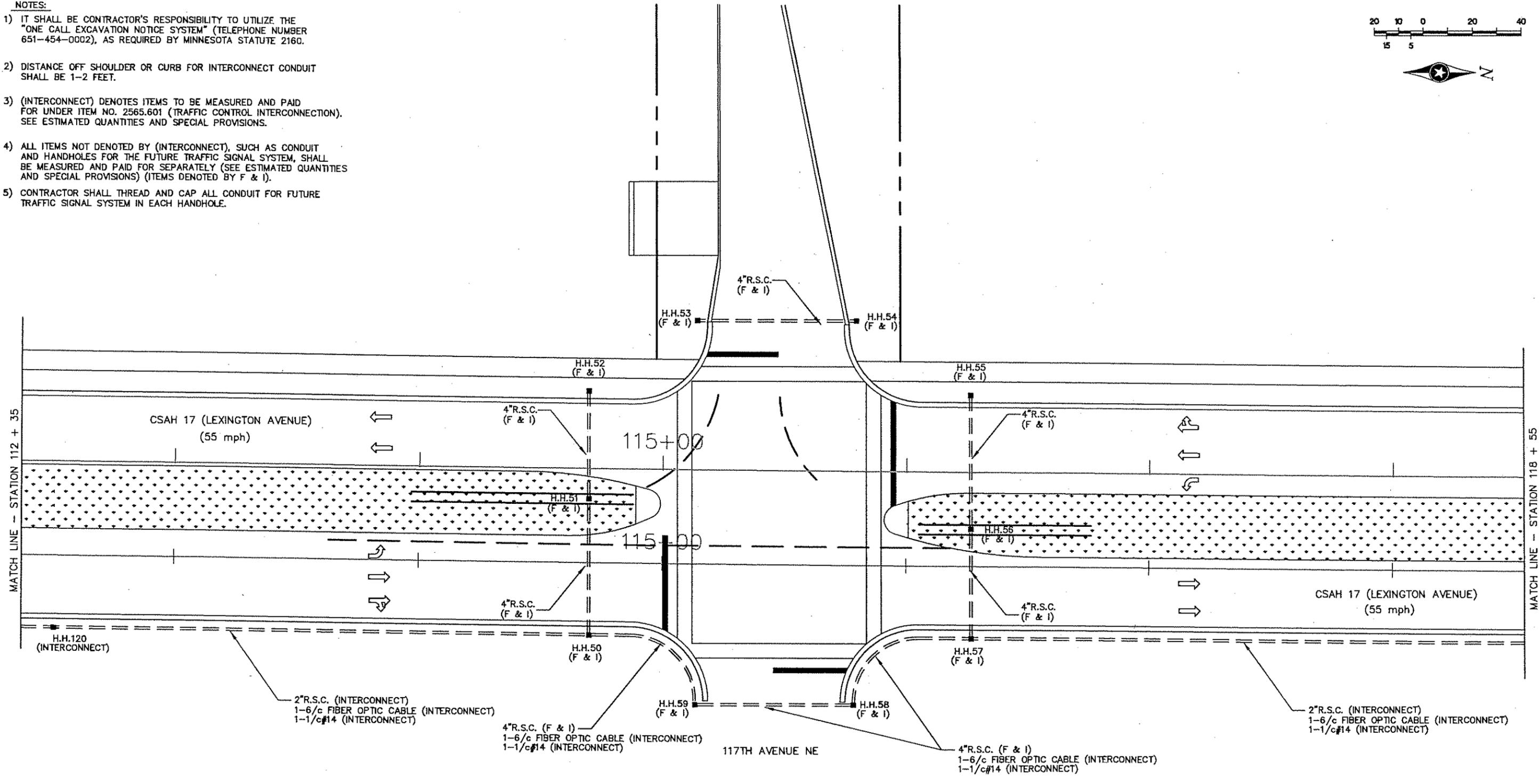
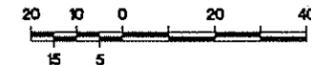
TRAFFIC SIGNAL INTERCONNECT INTERSECTION LAYOUT
CSAH 17 (LEXINGTON AVENUE)

FILE NO. AANOKC0305.00
SIGNAL SHEET 14 OF 28
137
226

W./AE/ANOKC/030600/7BASE.DWG

NOTES:

- 1) IT SHALL BE CONTRACTOR'S RESPONSIBILITY TO UTILIZE THE "ONE CALL EXCAVATION NOTICE SYSTEM" (TELEPHONE NUMBER 651-454-0002), AS REQUIRED BY MINNESOTA STATUTE 2160.
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- 5) CONTRACTOR SHALL THREAD AND CAP ALL CONDUIT FOR FUTURE TRAFFIC SIGNAL SYSTEM IN EACH HANDHOLE.



W:\E\ANGKC\030500\7BASE.DWG

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

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**ANOKA COUNTY,
 MINNESOTA
 CITY OF BLAINE**

**INTERCONNECT/FUTURE SIGNAL SYSTEM
 INTERSECTION LAYOUT
 CSAH 17 (LEXINGTON AVENUE) AT
 117TH AVENUE NORTHEAST**

S.P. 02-617-13
 S.P. 106-020-23

FILE NO. AANOKC0305.00	138 226
SIGNAL SHEET 15 OF 28	

MATCH LINE - STATION 118 + 55

MATCH LINE - STATION 124 + 75

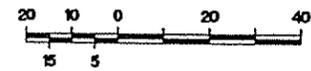
120+00

120+00

CSAH 17 (LEXINGTON AVENUE)
(55 mph)

H.H.121
(INTERCONNECT)

2"R.S.C. (INTERCONNECT)
1-6/c FIBER OPTIC CABLE (INTERCONNECT)
1-1/c#14 (INTERCONNECT)



H.H.122
(INTERCONNECT)

2"R.S.C. (INTERCONNECT)
1-6/c FIBER OPTIC CABLE (INTERCONNECT)
1-1/c#14 (INTERCONNECT)

- NOTES:
- 1) IT SHALL BE 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) (INTERCONNECT) DENOTES ITEMS TO BE MEASURED AND PAID FOR UNDER ITEM NO. 2565.601 (TRAFFIC CONTROL INTERCONNECTION). SEE ESTIMATED QUANTITIES AND SPECIAL PROVISIONS.

MATCH LINE - STATION 124 + 75

MATCH LINE - STATION 130 + 89

125+00

125+00



CSAH 17 (LEXINGTON AVENUE)
(55 mph)

H.H.123
(INTERCONNECT)

2"R.S.C. (INTERCONNECT)
1-6/c FIBER OPTIC CABLE (INTERCONNECT)
1-1/c#14 (INTERCONNECT)

H.H.124
(INTERCONNECT)

2"R.S.C. (INTERCONNECT)
1-6/c FIBER OPTIC CABLE (INTERCONNECT)
1-1/c#14 (INTERCONNECT)

130+00

130+00

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

NO.	BY	DATE	REVISIONS

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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.

J.M.G.
Name: John M. Gray, P.E.
Date: October 9, 2003
Lic. No. 22457

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

**ANOKA COUNTY,
MINNESOTA
CITY OF BLAINE**

**TRAFFIC SIGNAL INTERCONNECT
INTERSECTION LAYOUT
CSAH 17 (LEXINGTON AVENUE)**

S.P. 02-617-13
S.P. 106-020-23

FILE NO.	AANOKC0305.00
SIGNAL SHEET	139 226
16 OF 28	

MATCH LINE - STATION 130 + 89

MATCH LINE - STATION 137 + 05

135+00

135+00

CSAH 17 (LEXINGTON AVENUE)
(55 mph)

H.H.125
(INTERCONNECT)

H.H.126
(INTERCONNECT)

2"R.S.C. (INTERCONNECT)
1-6/c FIBER OPTIC CABLE (INTERCONNECT)
1-1/c#14 (INTERCONNECT)

2"R.S.C. (INTERCONNECT)
1-6/c FIBER OPTIC CABLE (INTERCONNECT)
1-1/c#14 (INTERCONNECT)

NOTES:

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- 2) DISTANCE OFF SHOULDER OR CURB FOR INTERCONNECT CONDUIT SHALL BE 1-2 FEET.
- 3) (INTERCONNECT) DENOTES ITEMS TO BE MEASURED AND PAID FOR UNDER ITEM NO. 2565.601 (TRAFFIC CONTROL INTERCONNECTION). SEE ESTIMATED QUANTITIES AND SPECIAL PROVISIONS.



MATCH LINE - STATION 137 + 05

MATCH LINE - STATION 142 + 89

140+00

140+00

CSAH 17 (LEXINGTON AVENUE)
(55 mph)

H.H.127
(INTERCONNECT)

H.H.128
(INTERCONNECT)

H.H.129
(INTERCONNECT)

2"R.S.C. (INTERCONNECT)
1-6/c FIBER OPTIC CABLE (INTERCONNECT)
1-1/c#14 (INTERCONNECT)

2"R.S.C. (INTERCONNECT)
1-6/c FIBER OPTIC CABLE (INTERCONNECT)
1-1/c#14 (INTERCONNECT)

S.P. 02-617-13
S.P. 106-020-23

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DESIGNER: JMG
CHECKED BY: JMG

DESIGN TEAM	NO.	BY	DATE	REVISIONS

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**ANOKA COUNTY,
MINNESOTA
CITY OF BLAINE**

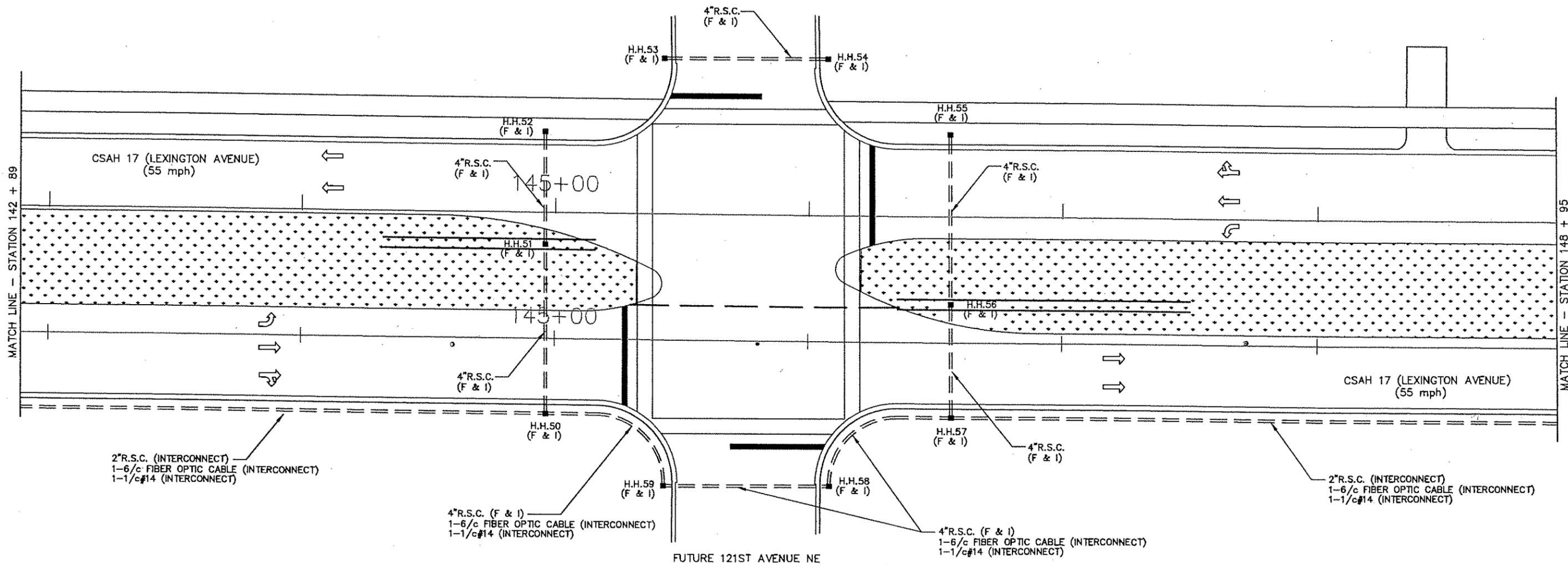
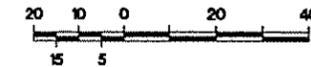
**TRAFFIC SIGNAL INTERCONNECT
INTERSECTION LAYOUT
CSAH 17 (LEXINGTON AVENUE)**

FILE NO. AANOKC0305.00
SIGNAL SHEET 17 OF 28

140
226

NOTES:

- 1) IT SHALL BE 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) (INTERCONNECT) DENOTES ITEMS TO BE MEASURED AND PAID FOR UNDER ITEM NO. 2565.601 (TRAFFIC CONTROL INTERCONNECTION). SEE ESTIMATED QUANTITIES AND SPECIAL PROVISIONS.
- 4) ALL ITEMS NOT DENOTED BY (INTERCONNECT), SUCH AS CONDUIT AND HANDHOLES FOR THE FUTURE TRAFFIC SIGNAL SYSTEM, SHALL BE MEASURED AND PAID FOR SEPARATELY (SEE ESTIMATED QUANTITIES AND SPECIAL PROVISIONS) (ITEMS DENOTED BY F & I).
- 5) CONTRACTOR SHALL THREAD AND CAP ALL CONDUIT FOR FUTURE TRAFFIC SIGNAL SYSTEM IN EACH HANDHOLE.



S.P. 02-617-13
S.P. 106-020-23

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DESIGNER:	JMG			
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Date: October 9, 2003 Lic. No. 22457

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**ANOKA COUNTY,
MINNESOTA**
CITY OF BLAINE

**INTERCONNECT/FUTURE SIGNAL SYSTEM
INTERSECTION LAYOUT**
CSAH 17 (LEXINGTON AVENUE) AT
121ST AVENUE NORTHEAST

FILE NO.	AANOKC0305.00	141
SIGNAL SHEET	18 OF 28	226

W:\E\ANOKC\030500\TBASE.DWG

MATCH LINE - STATION 148 + 95

MATCH LINE - STATION 155 + 23

150+00

CSAH 17 (LEXINGTON AVENUE)
(55 mph)

155+00

150+00

155+00

H.H.130
(INTERCONNECT)

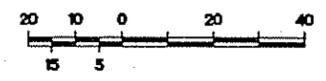
H.H.131
(INTERCONNECT)

H.H.132
(INTERCONNECT)

2"R.S.C. (INTERCONNECT)
1-6/c FIBER OPTIC CABLE (INTERCONNECT)
1-1/c#14 (INTERCONNECT)

NOTES:

- 1) IT SHALL BE 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) (INTERCONNECT) DENOTES ITEMS TO BE MEASURED AND PAID FOR UNDER ITEM NO. 2565.601 (TRAFFIC CONTROL INTERCONNECTION). SEE ESTIMATED QUANTITIES AND SPECIAL PROVISIONS.



2"R.S.C. (INTERCONNECT)
1-6/c FIBER OPTIC CABLE (INTERCONNECT)
1-1/c#14 (INTERCONNECT)

MATCH LINE - STATION 155 + 23

MATCH LINE - STATION 162 + 66

CSAH 17 (LEXINGTON AVENUE)
(55 mph)

160+00

160+00

H.H.133
(INTERCONNECT)

H.H.134
(INTERCONNECT)

2"R.S.C. (INTERCONNECT)
1-6/c FIBER OPTIC CABLE (INTERCONNECT)
1-1/c#14 (INTERCONNECT)

2"R.S.C. (INTERCONNECT)
1-6/c FIBER OPTIC CABLE (INTERCONNECT)
1-1/c#14 (INTERCONNECT)

S.P. 02-617-13
S.P. 106-020-23

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DRAWN BY: JMG
 DESIGNER: JMG
 CHECKED BY: JMG

NO.	BY	DATE	REVISIONS

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**ANOKA COUNTY,
 MINNESOTA
 CITY OF BLAINE**

**TRAFFIC SIGNAL INTERCONNECT
 INTERSECTION LAYOUT
 CSAH 17 (LEXINGTON AVENUE)**

FILE NO. AANOKC0305.00
 SIGNAL SHEET 19 OF 28
 142
 226

REVISE SIGNAL SYSTEM B NOTES:

- ALL ITEMS OF THIS SIGNAL SYSTEM ARE INPLACE AND SHALL BE REUSED AND MAINTAINED INPLACE, UNLESS BOXED IN AND NOTED OTHERWISE ON PLANS.
- ALL HANDHOLES (PVC WITH METAL FRAMES AND COVERS) ARE INPLACE AND SHALL BE REUSED AND MAINTAINED INPLACE, EXCEPT AS FOLLOWS:
- ADJUST HANDHOLES 6, 7, 8, 9, 10, 11, 15, 16, 17, 18, 19, AND 20 TO FINISHED SURROUNDING GRADE AFTER ALL WORK IS COMPLETED (INCIDENTAL).
- LOCATION OF NEW LOOP DETECTORS SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- ALL CABLES AND CONDUCTORS, CONDUIT, HANDHOLES, AND LOOP DETECTORS ARE INPLACE AND SHALL BE REUSED AND MAINTAINED INPLACE, EXCEPT WHERE BOXED IN AND DENOTED OTHERWISE.
- LOOP DETECTOR WIRES SHALL BE CROSS-LINKED POLYETHYLENE (XLP) 12 AWG IN 3/4" NMC. NEW LOOP DETECTORS D1-1, D1-2, D2-1, D2-2, D5-1, D5-2, D6-1, AND D6-2 SHALL BE FURNISHED, INSTALLED & MADE OPERATIONAL BY CONTRACTOR TO THE SATISFACTION OF ENGINEER. SEE DETAILS & SPECIAL PROVISIONS.
- CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EXISTING LOOP DETECTOR SPLICE KITS (FOR LOOP DETECTORS D1-1, D1-2, D2-1, D2-2, D5-1, D5-2, D6-1, D6-2) AND SHALL FURNISH AND INSTALL NEW LOOP DETECTOR SPLICE KITS IN THE ADJACENT HANDHOLE FOR THESE LOOP DETECTORS AS CALLED FOR IN THE SPECIAL PROVISIONS.
- A SEPARATE PAY ITEM HAS BEEN ADDED (2565 - RIGID PVC LOOP DETECTOR 6' x 6') FOR POTENTIAL REPLACEMENT OF LOOP DETECTORS, SHOULD THESE LOOP DETECTORS BE REQUIRED TO BE REPLACED BY THE CONTRACTOR EITHER DUE TO MILL/OVERLAY WORK OR CURB RAMP/CURB AND GUTTER WORK THAT CAUSES THE EXISTING LOOP DETECTOR TO BE DAMAGED. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO PROTECT AND MAINTAIN THE EXISTING LOOP DETECTORS (INCLUDING LEAD-IN CONDUITS FROM HANDHOLE TO IN-PAVEMENT LOOP DETECTOR CONDUIT) AND SHALL NOTIFY THE ENGINEER IF THEY ANTICIPATE THAT A LOOP DETECTOR WILL BE DAMAGED DUE TO THEIR WORK. COUNTY WILL PROVIDE INITIAL LOCATION OF THESE LOOP DETECTORS FOR CONTRACTOR TO BE ABLE TO PLAN FOR WORKING AROUND THESE LOOP DETECTORS. SEE SPECIAL PROVISIONS.
- CONTRACTOR SHALL MAINTAIN A SIGNAL SYSTEM IN OPERATION AT THIS INTERSECTION AT ALL TIMES, UNLESS OTHERWISE APPROVED BY THE ENGINEER FOR THE SIGNAL SYSTEM TO BE PLACED INTO ALL-RED FLASH DURING NON-PEAK TRAFFIC PERIODS (FOR WORK THAT REQUIRES THE SIGNAL SYSTEM TO BE OUT OF OPERATION OR TO ACCOMMODATE ROAD WORK AT THE INTERSECTION).
- ANY DAMAGE TO INPLACE TRAFFIC SIGNAL FACILITIES (CONDUIT, CABLES, HANDHOLES, SIGNAL POLES, ETC.), DUE TO TRAFFIC SIGNAL OR ROAD WORK, SHALL BE REPAIRED BY CONTRACTOR TO SATISFACTION OF THE ENGINEER, AT NO EXPENSE TO THE COUNTY.
- F & I = NEW, FURNISH AND INSTALL.
S & I = INPLACE, SALVAGE AND INSTALL.
- SEE SPECIAL PROVISIONS REGARDING VIDEO DETECTION SYSTEM TO BE FURNISHED BY THE COUNTY, INSTALLED & MADE OPERATIONAL BY THE CONTRACTOR DURING CONSTRUCTION, AND SALVAGED BY THE CONTRACTOR AFTER PERMANENT Ø1, 2, 6 LOOP DETECTORS ARE MADE OPERATIONAL (INCIDENTAL TO REVISE SIGNAL SYSTEM B PAY ITEM).
- VIDEO DETECTOR CABLES TO BE FURNISHED & INSTALLED BY THE CONTRACTOR FOR USE DURING CONSTRUCTION SHALL BE FULLY COMPATIBLE WITH VIDEO CAMERA AND CABINET EQUIPMENT.
- MOVEMENT/REAIMING OF VIDEO CAMERAS AND ALL LABOR AND MATERIALS NEEDED TO REVISE THIS SIGNAL SYSTEM DURING CONSTRUCTION ARE INCIDENTAL.
- CONTRACTOR SHALL FURNISH AND INSTALL TWO (2) NEW ONE-SECTION COUNTDOWN TIMER "HAND/WALKING PERSON" PEDESTRIAN SIGNALS (HOUSINGS, VISORS, LENSES, BRACKETING), ONE EACH ON POLES 2 AND 3 (TO ADD PEDESTRIAN CROSSING TO SOUTH SIDE OF SIGNAL SYSTEM) (INCLUDED AS PART OF THE REVISE SIGNAL SYSTEM B PAY ITEM - ADDENDUM).

NOTE: ADDENDUM WORK (ADDING APS PUSH BUTTONS TO REVISE SIGNAL SYSTEM "B") IS BOXED IN AND DENOTED BY (&&).

① INPLACE (MAINTAIN INPLACE) PA100 POLE FOUNDATION
TYPE PA100-A-55-D40-9 (DAVIT AT 350 DEG)
LUMINAIRE-250 W HPS
END MOUNT CAPPED (FOR FUTURE USE)
2-ONE WAY SIGNALS-OVERHEAD (17' & 29'
FROM END OF MAST ARM) (2-3, 2-2)
TYPE 10A-POLE MOUNTED 180 DEG
TYPE D SIGN PANEL-OVERHEAD
2-R6-1 SIGN PANELS-POLE MOUNTED 0/180 DEG
EXTENDED INTO HH 20:
3" RSC
2-12/C 12
1-3/C 12
1-3/C 20
1-3/C 12 (LUM)

INPLACE (S & I) ONE WAY SIGNAL (HOUSING, VISORS, BACKGROUND SHIELD) - OVERHEAD AT 41' (RELOCATE TO 6')
RLA-YLA-GLA LED LENSES - RELOCATE FROM SIGNAL HEAD AT 17' TO SIGNAL HEAD AT 6' (FOR 5-1)
RYG LED LENSES - RELOCATE FROM SIGNAL HEAD AT 41' TO SIGNAL HEAD AT 17' (FOR 2-3)
ONE WAY EVP DETECTOR & LIGHT AT 6' (Ø2,5)
INSTALL VIDEO CAMERA-MAST ARM MOUNTED (FACING NB TRAFFIC) (FURNISHED BY COUNTY) (V2/5-1)
F & I STRAP-ON MID MAST ARM MOUNT AT 6' (FOR 5-1)
CAP MID-MAST ARM MOUNT AT 41'
3/4" RSC EXTENSION AT 6' (FOR EVP EXTENSION OVER HEAD 5-1)
5-FOOT EXTENSION, MOUNTING HARDWARE, AND KBR HUB AT 24' FOR VIDEO CAMERA (FOR MOUNTING ON MAST ARM)
1-VIDEO CABLE

④ INPLACE (MAINTAIN INPLACE) PA100 POLE FOUNDATION
TYPE PA100-A-55-D40-9 (DAVIT AT 350 DEG)
LUMINAIRE-250 W HPS
3-ONE WAY SIGNALS-OVERHEAD (0', 17'
AND 29' FROM END OF MAST ARM)
2-TYPE 10B-POLE MOUNTED 90/180 DEG
TYPE D SIGN PANEL-OVERHEAD
ONE WAY EVP DETECTOR AND LIGHT (Ø8,3)
2-R6-1 SIGN PANELS-POLE MOUNTED 0/180 DEG
EXTENDED INTO HH 16:
3" RSC
2-12/C 12
4-3/C 12
1-3/C 20
1-3/C 12 (LUM)

INPLACE (SALVAGE) 2-PEDESTRIAN PUSH BUTTONS AT 0/270 DEG
2-R10-3e METAL SIGNS AT 0/270 DEG
F & I 1-APS PB, SIGN (LT ARROW) AND APS MAST ARM POLE ADAPTOR (PB6-1)
PLUG HOLES ON MAST ARM POLE WHERE PUSH BUTTONS USED TO BE (AT 0/270 DEG)
1-2/C 14

⑤ INPLACE (MAINTAIN INPLACE) PEDESTAL FOUNDATION
14' PEDESTAL POLE (INCLUDES BASE)
WIND COLLAR FOR PEDESTAL POLE
TYPE 5D
EXTENDED INTO HH 20:
3" RSC
1-12/C 12
1-3/C 12

INPLACE (SALVAGE) 2-PEDESTRIAN PUSH BUTTONS (WEST/SOUTH SIDES)
2-R10-3e METAL SIGNS AT WEST/SOUTH SIDES
F & I 1-APS PB, SIGN (LT ARROW) AND APS PEDESTAL POLE SPACERS (PBB-1)
PLUG HOLES ON PEDESTAL POLE WHERE PUSH BUTTONS USED TO BE (WEST/SOUTH SIDES)
1-2/C 14

② INPLACE (MAINTAIN INPLACE) PA100 POLE FOUNDATION
TYPE PA100-A-55-D40-9 (DAVIT AT 350 DEG)
LUMINAIRE-250 W HPS
3-ONE WAY SIGNALS-OVERHEAD (0', 18'
AND 30' FROM END OF MAST ARM)
TYPE 10B-POLE MOUNTED 90 DEG
TYPE D SIGN PANEL-OVERHEAD
ONE WAY EVP DETECTOR AND LIGHT (Ø4,7)
2-R6-1 SIGN PANELS-POLE MOUNTED 0/180 DEG
EXTENDED INTO HH 5:
3" RSC
2-12/C 12
4-3/C 12
1-3/C 20
1-3/C 12 (LUM)

INPLACE (SALVAGE) 1-PEDESTRIAN PUSH BUTTON AT 270 DEG
1-R10-3e METAL SIGN AT 270 DEG
INPLACE (REVISE) REVISE TYPE 10A BRACKETING AT 180 DEG TO BECOME TYPE 10B (INPLACE 4-1, NEW P4-2)
INPLACE (REMOVE) R9-3 SIGN PANEL-FACING POLE 3
F & I 1-SET CD PED SIGNAL (HOUSING, VISOR, LED CDT LENS) AT 180 DEG (NEW P4-2)
REVISE TYPE 10A TO TYPE 10B AT 180 DEG
1-APS PB, SIGN (LT ARROW) AND APS MAST ARM POLE ADAPTOR (PB2-1)
PLUG HOLES ON MAST ARM POLE WHERE PUSH BUTTON USED TO BE (AT 270 DEG)
1-2/C 14

F & I APS PUSH BUTTON STATION (SEE DETAILS)
1-APS PB & SIGN (RT ARROW) (PB2-2)
EXTEND INTO HH 1:
1" CONDUIT
1-2/C 14
1-1/C 6 (INS GR)

F & I APS PUSH BUTTON STATION (SEE DETAILS)
1-APS PB & SIGN (RT ARROW) (PB4-2)
EXTEND INTO HH 5:
1" CONDUIT
1-2/C 14
1-1/C 6 (INS GR)

F & I APS PUSH BUTTON STATION (SEE DETAILS)
1-APS PB & SIGN (LT ARROW) (PB4-1)
EXTEND INTO HH 10:
1" CONDUIT
1-2/C 14
1-1/C 6 (INS GR)

F & I APS PUSH BUTTON STATION (SEE DETAILS)
1-APS PB & SIGN (RT ARROW) (PB6-2)
EXTEND INTO HH 10:
1" CONDUIT
1-2/C 14
1-1/C 6 (INS GR)

F & I APS PUSH BUTTON STATION (SEE DETAILS)
1-APS PB & SIGN (RT ARROW) (PB8-2)
EXTEND INTO HH 16:
1" CONDUIT
1-2/C 14
1-1/C 6 (INS GR)

③ INPLACE (MAINTAIN INPLACE) PA100 POLE FOUNDATION
TYPE PA100-A-55-D40-9 (DAVIT AT 350 DEG)
LUMINAIRE-250 W HPS
END MOUNT CAPPED (FOR FUTURE USE)
2-ONE WAY SIGNALS-OVERHEAD (17' & 29'
FROM END OF MAST ARM) (6-3, 6-2)
TYPE 10B-POLE MOUNTED 180 DEG
TYPE D SIGN PANEL-OVERHEAD
2-R6-1 SIGN PANELS-POLE MOUNTED 0/180 DEG
EXTENDED INTO HH 10:
3" RSC
3-12/C 12
2-3/C 12
1-3/C 20
1-3/C 12 (LUM)

INPLACE (S & I) ONE WAY SIGNAL (HOUSING, VISORS, BACKGROUND SHIELD) - OVERHEAD AT 41' (RELOCATE TO 6')
RLA-YLA-GLA LED LENSES - RELOCATE FROM SIGNAL HEAD AT 17' TO SIGNAL HEAD AT 6' (FOR 1-1)
RYG LED LENSES - RELOCATE FROM SIGNAL HEAD AT 41' TO SIGNAL HEAD AT 17' (FOR 6-3)
ONE WAY EVP DETECTOR & LIGHT AT 6' (Ø6,1)
INSTALL VIDEO CAMERA-MAST ARM MOUNTED (FACING SB TRAFFIC) (FURNISHED BY COUNTY) (V6/1-1)
F & I STRAP-ON MID MAST ARM MOUNT AT 6' (FOR 1-1)
CAP MID-MAST ARM MOUNT AT 41'
3/4" RSC EXTENSION AT 6' (FOR EVP EXTENSION OVER HEAD 1-1)
5-FOOT EXTENSION, MOUNTING HARDWARE, AND KBR HUB AT 24' FOR VIDEO CAMERA (FOR MOUNTING ON MAST ARM)
1-VIDEO CABLE

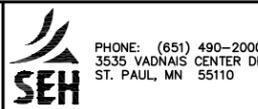
INPLACE (SALVAGE) 1-PEDESTRIAN PUSH BUTTON AT 180 DEG
1-R10-3e METAL SIGN AT 180 DEG
INPLACE (REVISE) REVISE TYPE 10A BRACKETING AT 90 DEG TO BECOME TYPE 10B (INPLACE 3-2, NEW P4-1)
INPLACE (REMOVE) R9-3 SIGN PANEL-FACING POLE 2
F & I 1-SET CD PED SIGNAL (HOUSING, VISOR, LED CDT LENS) AT 90 DEG (NEW P4-1)
REVISE TYPE 10A TO TYPE 10B AT 90 DEG
PLUG HOLES ON MAST ARM POLE WHERE PUSH BUTTON USED TO BE (AT 180 DEG)

INSTALL VIDEO PROCESSOR AND INTERNAL VIDEO EQUIPMENT (FURNISHED BY COUNTY)

Ⓐ INPLACE (MAINTAIN INPLACE) CONTROLLER AND CABINET
CABINET FOUNDATION
EXTENDED INTO HH 21:
METERED SIGNAL SERVICE
2" RSC
3-1/C 6
EXTENDED INTO HH 1:
2-4" RSC
5-12/C 12
6-3/C 12
2-3/C 20
19-2/C 14
1-6 SM FO CABLE
1-1/C 14 (TRACER)
EXTENDED INTO HH 20:
2-4" RSC
5-12/C 12
6-3/C 12
2-3/C 20
19-2/C 14
1-6 SM FO CABLE
1-1/C 14 (TRACER)
2-3" RSC STUBBED OUT FROM CABINET TO SOUTH (BOTH ENDS THREADED & CAPPED)

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

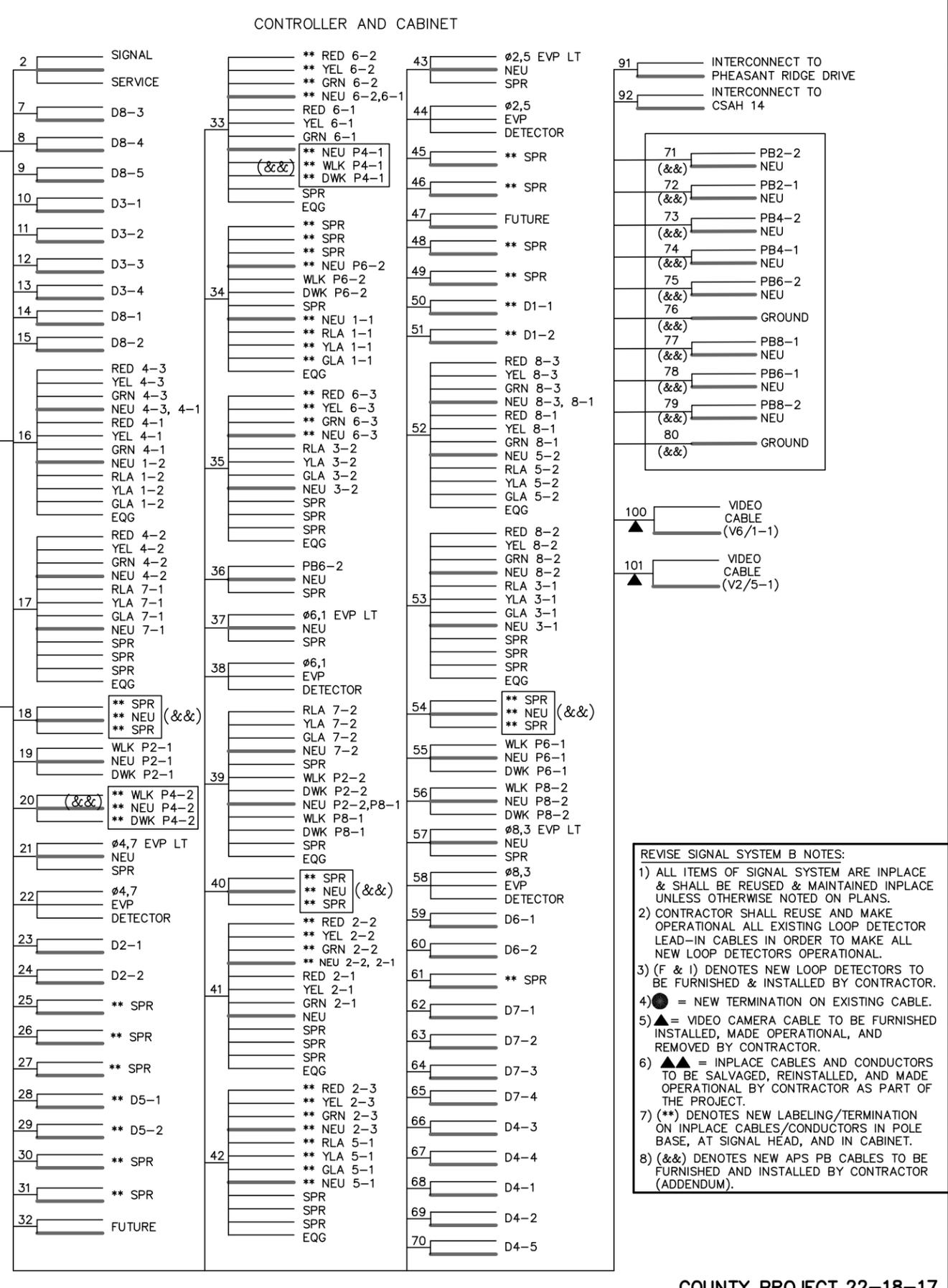
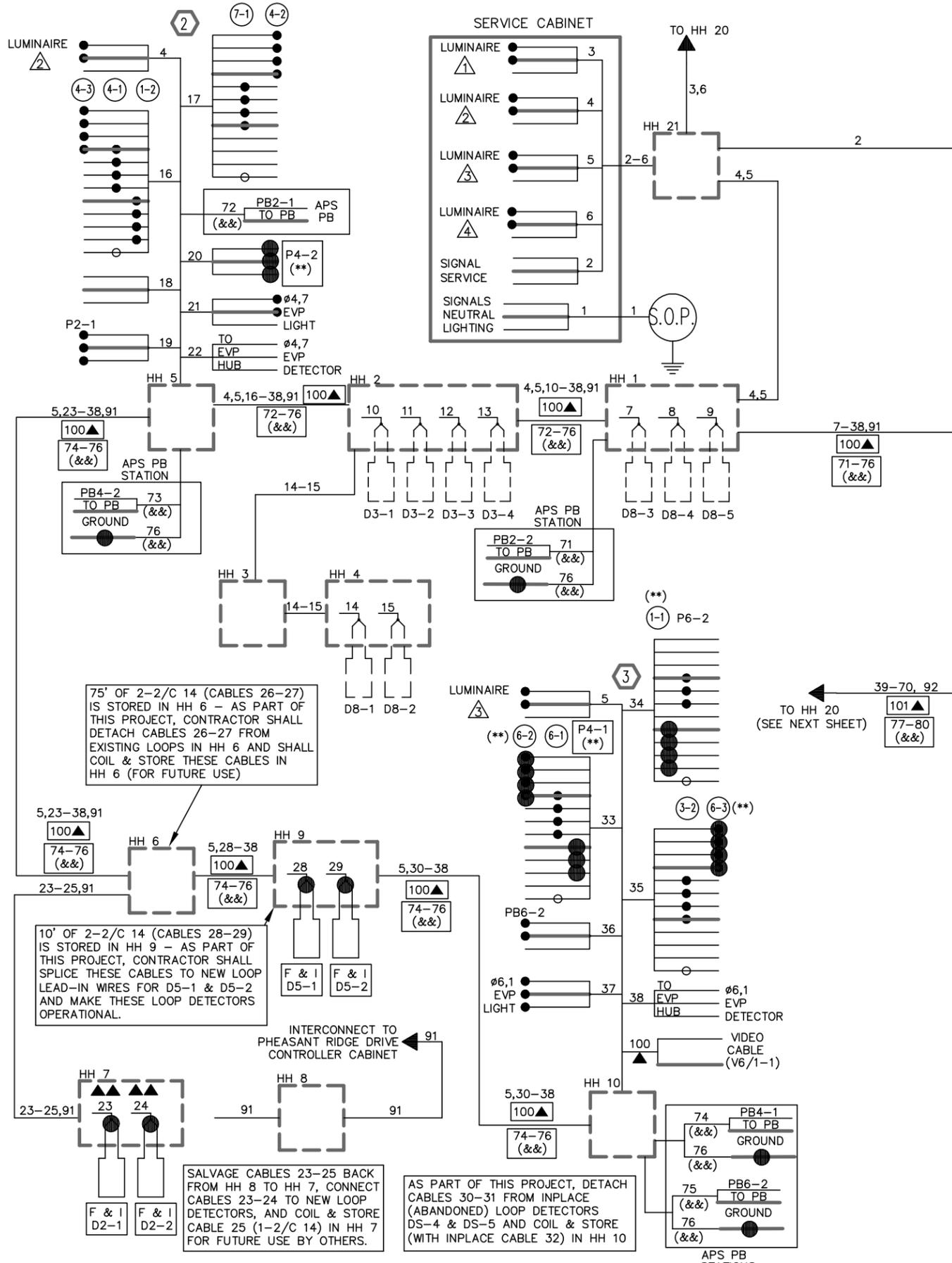
HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
Date: May 9, 2022
Name: John M. Gray, PE
Lic. No. 22457



ANOKA COUNTY
CITY OF BLAINE

REVISE SIGNAL SYSTEM "B"
NOTES
CSAH 17 (LEXINGTON AVENUE NE)
AT CSAH 12 (109TH AVENUE NE)

FILE NO.
ANOKC 122928
SIGNAL SHEET
8 OF 35
58A
94



NOTE: ADDENDUM WORK (ADDING APS PUSH BUTTONS TO REVISE SIGNAL SYSTEM "B") IS BOXED IN AND DENOTED BY (&&).

75' OF 2-2/C 14 (CABLES 26-27) IS STORED IN HH 6 - AS PART OF THIS PROJECT, CONTRACTOR SHALL DETACH CABLES 26-27 FROM EXISTING LOOPS IN HH 6 AND SHALL COIL & STORE THESE CABLES IN HH 6 (FOR FUTURE USE)

10' OF 2-2/C 14 (CABLES 28-29) IS STORED IN HH 9 - AS PART OF THIS PROJECT, CONTRACTOR SHALL SPLICE THESE CABLES TO NEW LOOP LEAD-IN WIRES FOR D5-1 & D5-2 AND MAKE THESE LOOP DETECTORS OPERATIONAL.

SALVAGE CABLES 23-25 BACK FROM HH 8 TO HH 7, CONNECT CABLES 23-24 TO NEW LOOP DETECTORS, AND COIL & STORE CABLE 25 (1-2/C 14) IN HH 7 FOR FUTURE USE BY OTHERS.

AS PART OF THIS PROJECT, DETACH CABLES 30-31 FROM INPLACE (ABANDONED) LOOP DETECTORS DS-4 & DS-5 AND COIL & STORE (WITH INPLACE CABLE 32) IN HH 10

- REVISE SIGNAL SYSTEM B NOTES:**
- 1) ALL ITEMS OF SIGNAL SYSTEM ARE INPLACE & SHALL BE REUSED & MAINTAINED INPLACE UNLESS OTHERWISE NOTED ON PLANS.
 - 2) CONTRACTOR SHALL REUSE AND MAKE OPERATIONAL ALL EXISTING LOOP DETECTOR LEAD-IN CABLES IN ORDER TO MAKE ALL NEW LOOP DETECTORS OPERATIONAL.
 - 3) (F & I) DENOTES NEW LOOP DETECTORS TO BE FURNISHED & INSTALLED BY CONTRACTOR.
 - 4) ● = NEW TERMINATION ON EXISTING CABLE.
 - 5) ▲ = VIDEO CAMERA CABLE TO BE FURNISHED INSTALLED, MADE OPERATIONAL, AND REMOVED BY CONTRACTOR.
 - 6) ▲▲ = INPLACE CABLES AND CONDUCTORS TO BE SALVAGED, REINSTALLED, AND MADE OPERATIONAL BY CONTRACTOR AS PART OF THE PROJECT.
 - 7) (**) DENOTES NEW LABELING/TERMINATION ON INPLACE CABLES/CONDUCTORS IN POLE BASE, AT SIGNAL HEAD, AND IN CABINET.
 - 8) (&&) DENOTES NEW APS PB CABLES TO BE FURNISHED AND INSTALLED BY CONTRACTOR (ADDENDUM).

DRAWN BY: JMG
 DESIGNER: JMG
 CHECKED BY: JMG

NO.	BY	DATE	REVISIONS

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.

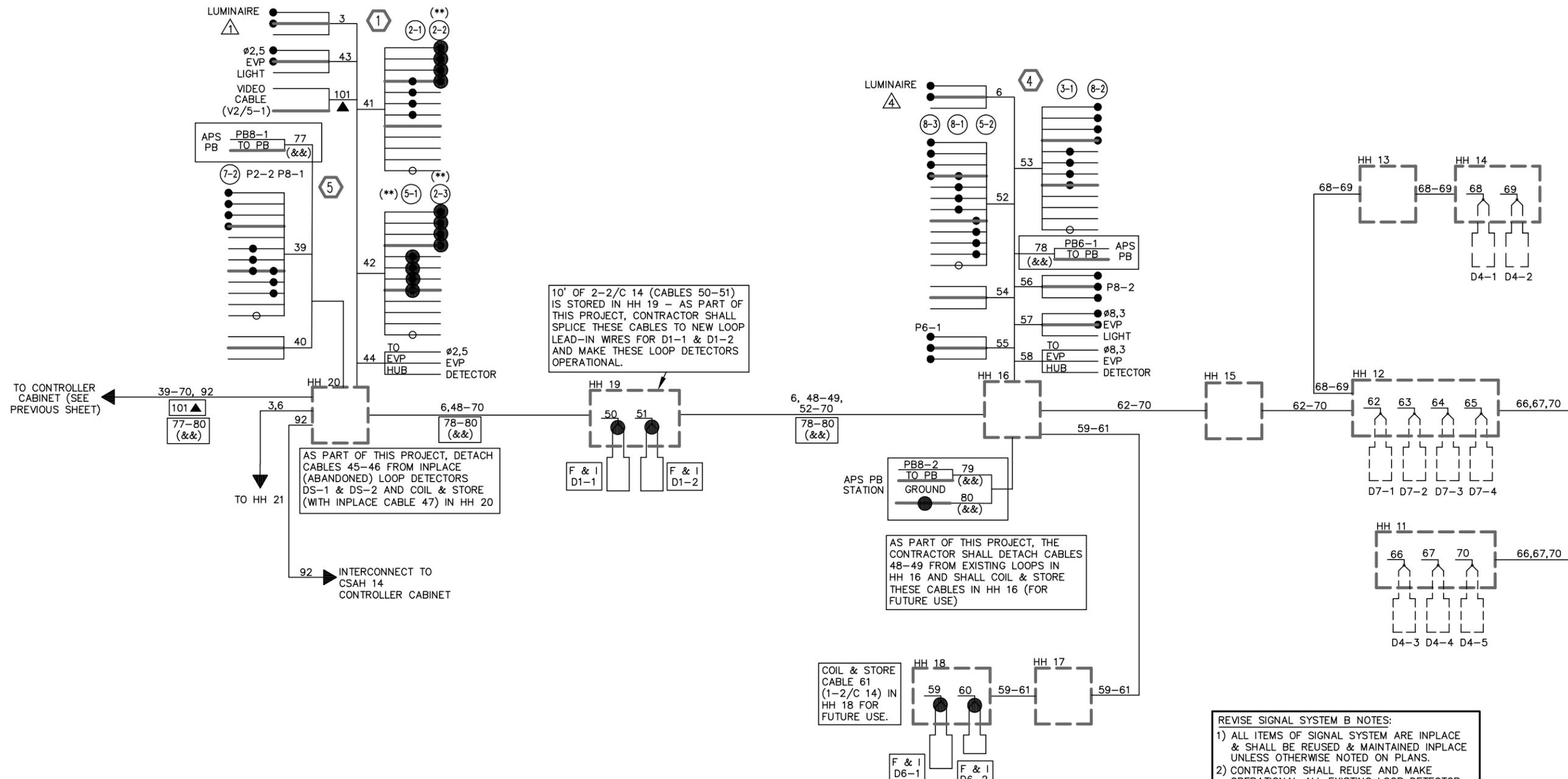
John M. Gray
 Name: John M. Gray, PE
 Lic. No. 22457
 Date: May 9, 2022

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

**ANOKA COUNTY
 CITY OF BLAINE**

**REVISE SIGNAL SYSTEM "B"
 FIELD WIRING DIAGRAM**
 CSAH 17 (LEXINGTON AVENUE NE)
 AT CSAH 12 (109TH AVENUE NE)

FILE NO. ANOKC 122928
 SIGNAL SHEET 9 OF 35
59A
94



NOTE: ADDENDUM WORK (ADDING APS PUSH BUTTONS TO REVISE SIGNAL SYSTEM "B") IS BOXED IN AND DENOTED BY (&&).

- REVISE SIGNAL SYSTEM B NOTES:
- 1) ALL ITEMS OF SIGNAL SYSTEM ARE INPLACE & SHALL BE REUSED & MAINTAINED INPLACE UNLESS OTHERWISE NOTED ON PLANS.
 - 2) CONTRACTOR SHALL REUSE AND MAKE OPERATIONAL ALL EXISTING LOOP DETECTOR LEAD-IN CABLES IN ORDER TO MAKE ALL NEW LOOP DETECTORS OPERATIONAL.
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 - 8) (&&) DENOTES NEW APS PB CABLES TO BE FURNISHED AND INSTALLED BY CONTRACTOR (ADDENDUM).

DRAWN BY: JMG
 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.

John M. Gray
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 Date: May 9, 2022

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REVISE SIGNAL SYSTEM "B"
 FIELD WIRING DIAGRAM
 CSAH 17 (LEXINGTON AVENUE NE)
 AT CSAH 12 (109TH AVENUE NE)

FILE NO. ANOKC 122928
 SIGNAL SHEET 10 OF 35
 59B
 94