

- ① PA100 POLE FOUNDATION  
TYPE PA100-A-55-D40-9 (DAVIT AT 350°)  
LUMINAIRE-250 W HPS  
2-ANGLE MOUNT SIGNALS-OVERHEAD AT 0' (TWO WAY MOUNT)  
2-STRAIGHT MOUNT SIGNALS-OVERHEAD AT 11' & 23'  
2-ANGLE MOUNT SIGNALS-POLE MOUNTED 90° & 180°  
1-ANGLE MOUNT C.D. PED INDICATION-POLE MOUNTED 180°  
1-PEDESTRIAN PUSH BUTTON  
2-R6-1 SIGN PANELS-POLE MOUNTED 0° & 180°  
TYPE D SIGN PANEL-OVERHEAD  
ONE WAY EVP DETECTOR AND LIGHT (Ø4,7)  
EXTEND INTO H.H.19:  
3"R.S.C.  
3-12/c#14  
1-3/c#14  
1-3/c#20  
1-2/c#14  
1-3/c#14 (LUM)  
1-1/c#6 (GRD.)
- ② PEDESTAL FOUNDATION  
12' (min.) PEDESTAL POLE (INCLUDES BASE)  
1-STRAIGHT MOUNT SIGNAL-POLE MOUNTED  
(FACING EB TRAFFIC)  
1-STRAIGHT MOUNT C.D. PED INDICATION-  
POLE MOUNTED (FOR CROSSING CSAH 7)  
1-PEDESTRIAN PUSH BUTTON  
EXTEND INTO H.H.1:  
3"R.S.C.  
1-12/c#14  
1-2/c#14  
1-1/c#6 (GRD.)
- ③ PA100 POLE FOUNDATION  
TYPE PA100-A-55-D40-9 (DAVIT AT 350°)  
LUMINAIRE-250 W HPS  
2-ANGLE MOUNT SIGNALS-OVERHEAD AT 0' (TWO WAY MOUNT)  
2-STRAIGHT MOUNT SIGNALS-OVERHEAD AT 11' & 23'  
2-ANGLE MOUNT SIGNALS-POLE MOUNTED 90° & 180°  
1-ANGLE MOUNT C.D. PED INDICATION-POLE MOUNTED 180°  
1-PEDESTRIAN PUSH BUTTON  
2-R6-1 SIGN PANELS-POLE MOUNTED 0° & 180°  
TYPE D SIGN PANEL-OVERHEAD  
ONE WAY EVP DETECTOR AND LIGHT (Ø6,1)  
EXTEND INTO H.H.5:  
3"R.S.C.  
3-12/c#14  
1-3/c#14  
1-3/c#20  
1-2/c#14  
1-3/c#14 (LUM)  
1-1/c#6 (GRD.)

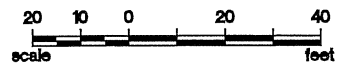
- ④ PEDESTAL FOUNDATION  
12' (min.) PEDESTAL POLE (INCLUDES BASE)  
1-STRAIGHT MOUNT SIGNAL-POLE MOUNTED  
(FACING SB TRAFFIC)  
1-STRAIGHT MOUNT C.D. PED INDICATION-  
POLE MOUNTED (FOR CROSSING CSAH 116)  
1-PEDESTRIAN PUSH BUTTON  
EXTEND INTO H.H.6:  
3"R.S.C.  
1-12/c#14  
1-2/c#14  
1-1/c#6 (GRD.)

- ⑤ PA100 POLE FOUNDATION  
TYPE PA100-A-55-D40-9 (DAVIT AT 350°)  
LUMINAIRE-250 W HPS  
2-ANGLE MOUNT SIGNALS-OVERHEAD AT 0' (TWO WAY MOUNT)  
2-STRAIGHT MOUNT SIGNALS-OVERHEAD AT 17' & 29'  
2-ANGLE MOUNT SIGNALS-POLE MOUNTED 90° & 180°  
1-ANGLE MOUNT C.D. PED INDICATION-POLE MOUNTED 180°  
1-PEDESTRIAN PUSH BUTTON  
2-R6-1 SIGN PANELS-POLE MOUNTED 0° & 180°  
TYPE D SIGN PANEL-OVERHEAD  
ONE WAY EVP DETECTOR AND LIGHT (Ø8,3)  
EXTEND INTO H.H.10:  
3"R.S.C.  
3-12/c#14  
1-3/c#14  
1-3/c#20  
1-2/c#14  
1-3/c#14 (LUM)  
1-1/c#6 (GRD.)

- ⑥ PEDESTAL FOUNDATION  
12' (min.) PEDESTAL POLE (INCLUDES BASE)  
1-STRAIGHT MOUNT SIGNAL-POLE MOUNTED  
(FACING WB TRAFFIC)  
1-STRAIGHT MOUNT C.D. PED INDICATION-  
POLE MOUNTED (FOR CROSSING CSAH 7)  
1-PEDESTRIAN PUSH BUTTON  
EXTEND INTO H.H.11:  
3"R.S.C.  
1-12/c#14  
1-2/c#14  
1-1/c#6 (GRD.)

- ⑦ PA100 POLE FOUNDATION  
TYPE PA100-A-55-D40-9 (DAVIT AT 350°)  
LUMINAIRE-250 W HPS  
2-ANGLE MOUNT SIGNALS-OVERHEAD AT 0' (TWO WAY MOUNT)  
2-STRAIGHT MOUNT SIGNALS-OVERHEAD AT 17' & 29'  
2-ANGLE MOUNT SIGNALS-POLE MOUNTED 90° & 180°  
1-ANGLE MOUNT C.D. PED INDICATION-POLE MOUNTED 180°  
1-PEDESTRIAN PUSH BUTTON  
2-R6-1 SIGN PANELS-POLE MOUNTED 0° & 180°  
TYPE D SIGN PANEL-OVERHEAD  
ONE WAY EVP DETECTOR AND LIGHT (Ø2,5)  
EXTEND INTO H.H.15:  
3"R.S.C.  
3-12/c#14  
1-3/c#14  
1-3/c#20  
1-2/c#14  
1-3/c#14 (LUM)  
1-1/c#6 (GRD.)
- ⑧ PEDESTAL FOUNDATION  
12' (min.) PEDESTAL POLE (INCLUDES BASE)  
1-STRAIGHT MOUNT SIGNAL-POLE MOUNTED  
(FACING NB TRAFFIC)  
1-STRAIGHT MOUNT C.D. PED INDICATION-  
POLE MOUNTED (FOR CROSSING CSAH 116)  
1-PEDESTRIAN PUSH BUTTON  
EXTEND INTO H.H.16:  
3"R.S.C.  
1-12/c#14  
1-2/c#14  
1-1/c#6 (GRD.)

(\* ) 1.5" CONDUIT-F & I (BORE UNDER ALL DRIVEWAYS/ROADS)  
(\* ) 1-12 SM FIBER-OPTIC CABLE-F & I (TO CSAH 38 SIGNAL SYSTEM)



MATCH LINE FOR INTERCONNECT SEE CSAH 116/CASTLE FIELD LAYOUT

MATCH LINE TO EAST

MATCH LINE (INTERCONNECT) TO NORTH

MATCH LINE "J" (INTERCONNECT) (TO 38TH AVENUE SIGNAL)

MATCH LINE TO NORTH - SEE SIGNAL SHEET 8

MATCH LINE TO SOUTH - SEE SIGNAL SHEET 12

S:\VEVA\ANOKA\CORPORATE SIGNALS\2017\INTERCONNECT\2017\BASE.DWG

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*  
Name: John M. Gray, PE  
Lic. No. 22457  
Date: July 6, 2018

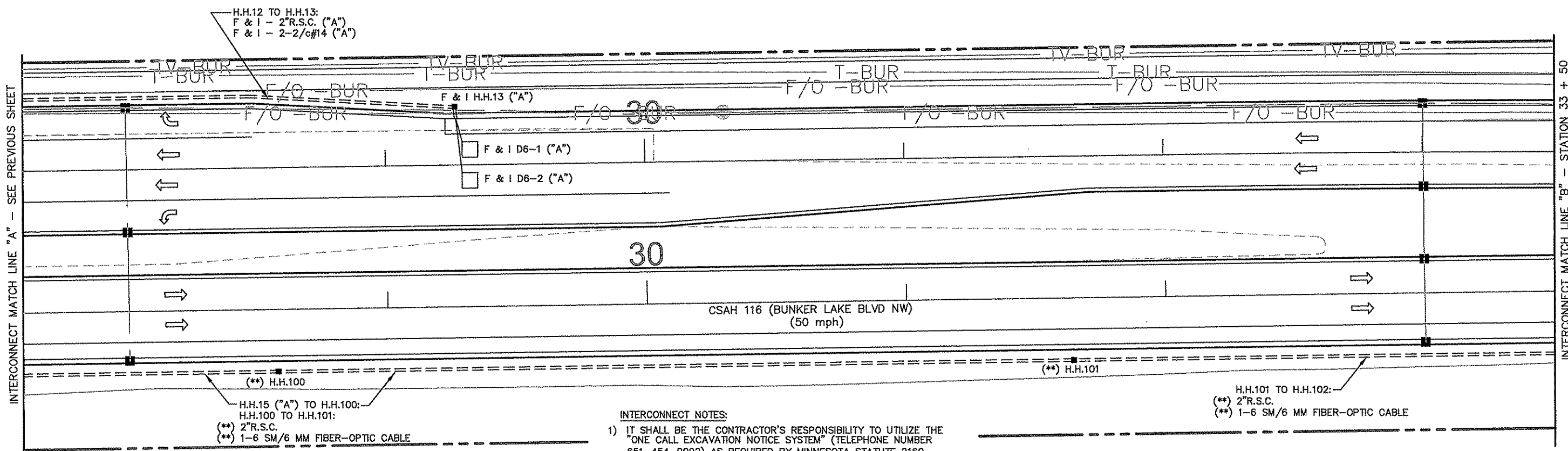
**SEH**  
PHONE: (651) 490-2000  
3535 VADNAIS CENTER DR.  
ST. PAUL, MN 55110

**ANOKA COUNTY, MN**  
**CITY OF ANOKA**  
SAP 002-030-010

**TRAFFIC SIGNAL INTERCONNECT 'C'**  
**INTERSECTION LAYOUT**  
**CSAH 7 (7TH AVENUE NW)**  
**AT CSAH 116 (BUNKER LAKE BLVD)**

FILE NO.  
ANOKC 142312

**63**  
**115**



INTERCONNECT MATCH LINE "A" - SEE PREVIOUS SHEET

INTERCONNECT MATCH LINE "B" - STATION 33 + 50

INTERCONNECT MATCH LINE "C" - STATION 35 + 00

CSAH 116 (BUNKER LAKE BLVD NW)  
(50 mph)

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 INTERCONNECTION). SEE STATEMENT OF ESTIMATED QUANTITIES AND SPECIAL PROVISIONS.
- 4) NEW HANDHOLES SHALL BE PVC HANDHOLES WITH METAL FRAMES AND COVERS PER MNDOT STANDARD PLATE NO. 8114A.

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

F & I H.H.13 ("A")

F & I D6-1 ("A")  
F & I D6-2 ("A")

(\*\*) H.H.100

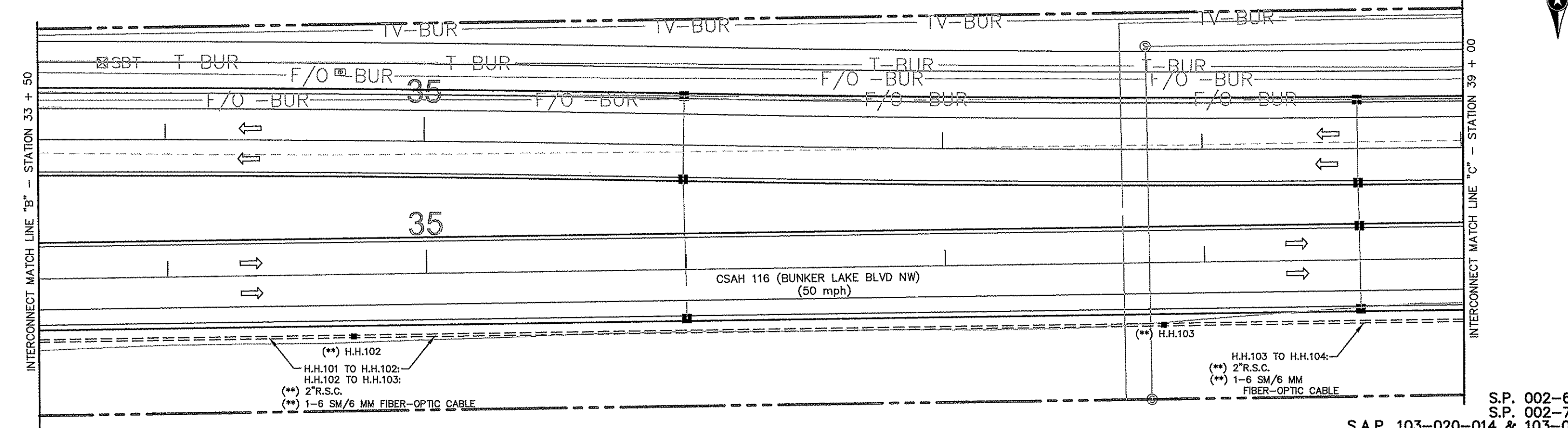
H.H.15 ("A") TO H.H.100:  
H.H.100 TO H.H.101:  
(\*\*) 2"R.S.C.  
(\*\*) 1-6 SM/6 MM FIBER-OPTIC CABLE

(\*\*) H.H.101

H.H.101 TO H.H.102:  
(\*\*) 2"R.S.C.  
(\*\*) 1-6 SM/6 MM FIBER-OPTIC CABLE

20 10 0 20 40  
scale feet

N



INTERCONNECT MATCH LINE "B" - STATION 33 + 50

INTERCONNECT MATCH LINE "C" - STATION 39 + 00

CSAH 116 (BUNKER LAKE BLVD NW)  
(50 mph)

(\*\*) H.H.102

H.H.101 TO H.H.102:  
H.H.102 TO H.H.103:  
(\*\*) 2"R.S.C.  
(\*\*) 1-6 SM/6 MM FIBER-OPTIC CABLE

(\*\*) H.H.103

H.H.103 TO H.H.104:  
(\*\*) 2"R.S.C.  
(\*\*) 1-6 SM/6 MM FIBER-OPTIC CABLE

S.P. 002-607-021  
S.P. 002-716-012  
S.A.P. 103-020-014 & 103-020-015  
S.A.P. 198-020-031 & 198-020-032

ANOKA COUNTY, MINNESOTA  
CITIES OF ANDOVER, ANOKA

TRAFFIC SIGNAL SYSTEM "A"/INTERCONNECT  
INTERSECTION LAYOUT  
CSAH 116 AT CSAH 7 (7TH AVE NW)

FILE NO. ANOKC 120319  
SIGNAL SHEET 11 OF 26

194  
282

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

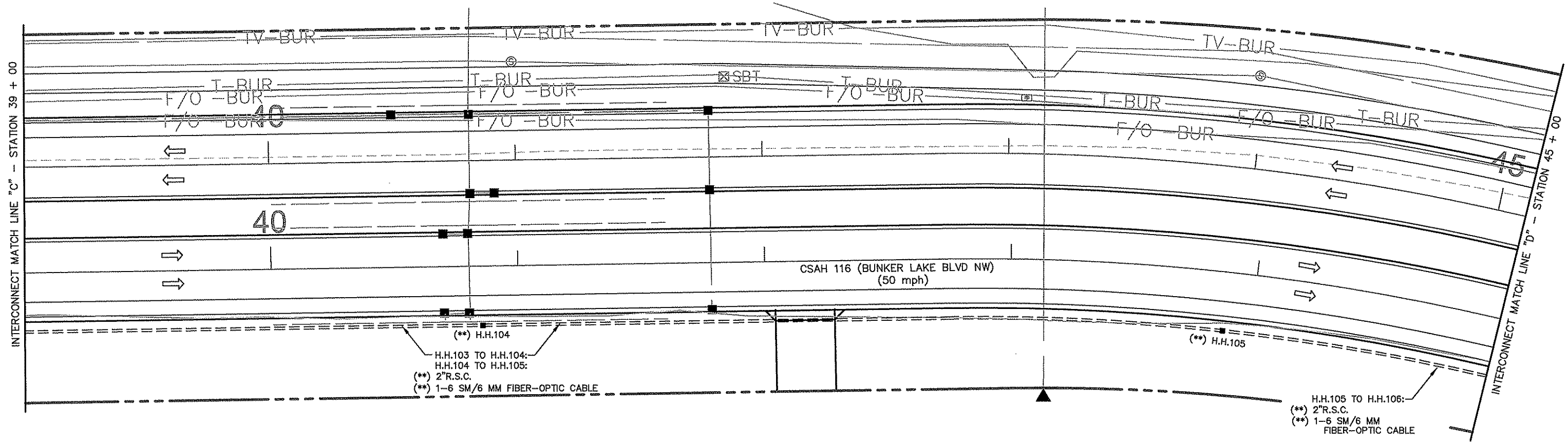
NO.	BY	DATE	REVISIONS

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: June 7, 2012

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

0271612\_SIGBASE-FERMDWG  
06/07/2012



**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.
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- 3) (\*\*) DENOTES ITEMS TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNDER ITEM NO. 2565 (TRAFFIC CONTROL INTERCONNECTION). SEE STATEMENT OF ESTIMATED QUANTITIES AND SPECIAL PROVISIONS.
- 4) NEW HANDHOLES SHALL BE PVC HANDHOLES WITH METAL FRAMES AND COVERS PER MNDOT STANDARD PLATE NO. 8114A.

S.P. 002-716-012  
 S.A.P. 103-020-014  
 S.A.P. 198-020-031

0271612\_S168ASE-FER04.DWG 06/27/2012

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.

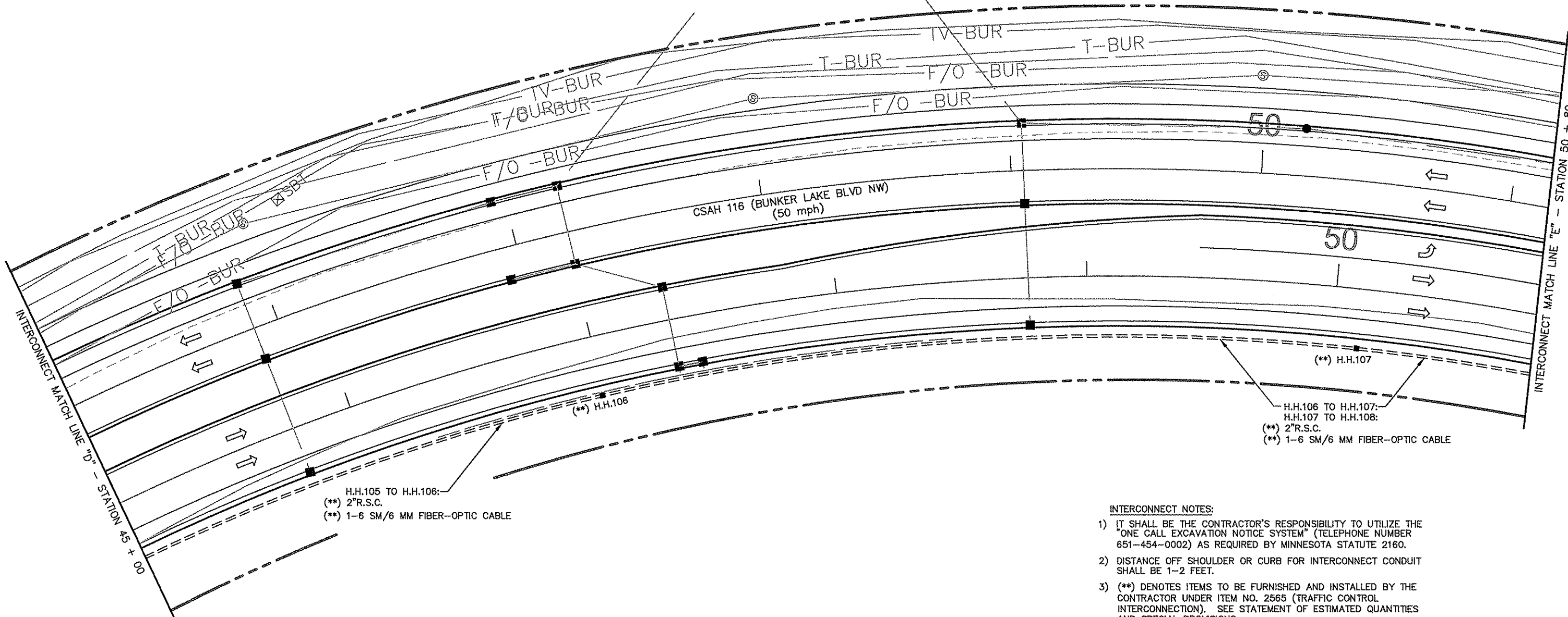
*John M. Gray*  
 Name: John M. Gray, PE  
 Lic. No. 22457  
 Date: June 7, 2012

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

**ANOKA COUNTY, MINNESOTA**  
 CITIES OF ANDOVER, ANOKA

**TRAFFIC CONTROL INTERCONNECTION**  
 INTERSECTION LAYOUT  
 CSAH 116 (CSAH 7 TO 38TH AVE NW)

FILE NO. ANOKC 120319	<b>197</b>
SIGNAL SHEET 14 OF 26	<b>282</b>



H.H.105 TO H.H.106:  
 (\*\*) 2"R.S.C.  
 (\*\*) 1-6 SM/6 MM FIBER-OPTIC CABLE

(\*\*) H.H.107  
 H.H.106 TO H.H.107:  
 H.H.107 TO H.H.108:  
 (\*\*) 2"R.S.C.  
 (\*\*) 1-6 SM/6 MM FIBER-OPTIC CABLE

**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 INTERCONNECTION). SEE STATEMENT OF ESTIMATED QUANTITIES AND SPECIAL PROVISIONS.
- 4) NEW HANDHOLES SHALL BE PVC HANDHOLES WITH METAL FRAMES AND COVERS PER MNDOT STANDARD PLATE NO. 8114A.

0271612.SIGBASE-FEEM.DWG 08/07/2012

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*  
 Name: John M. Gray, PE  
 Date: June 7, 2012  
 Lic. No. 22457

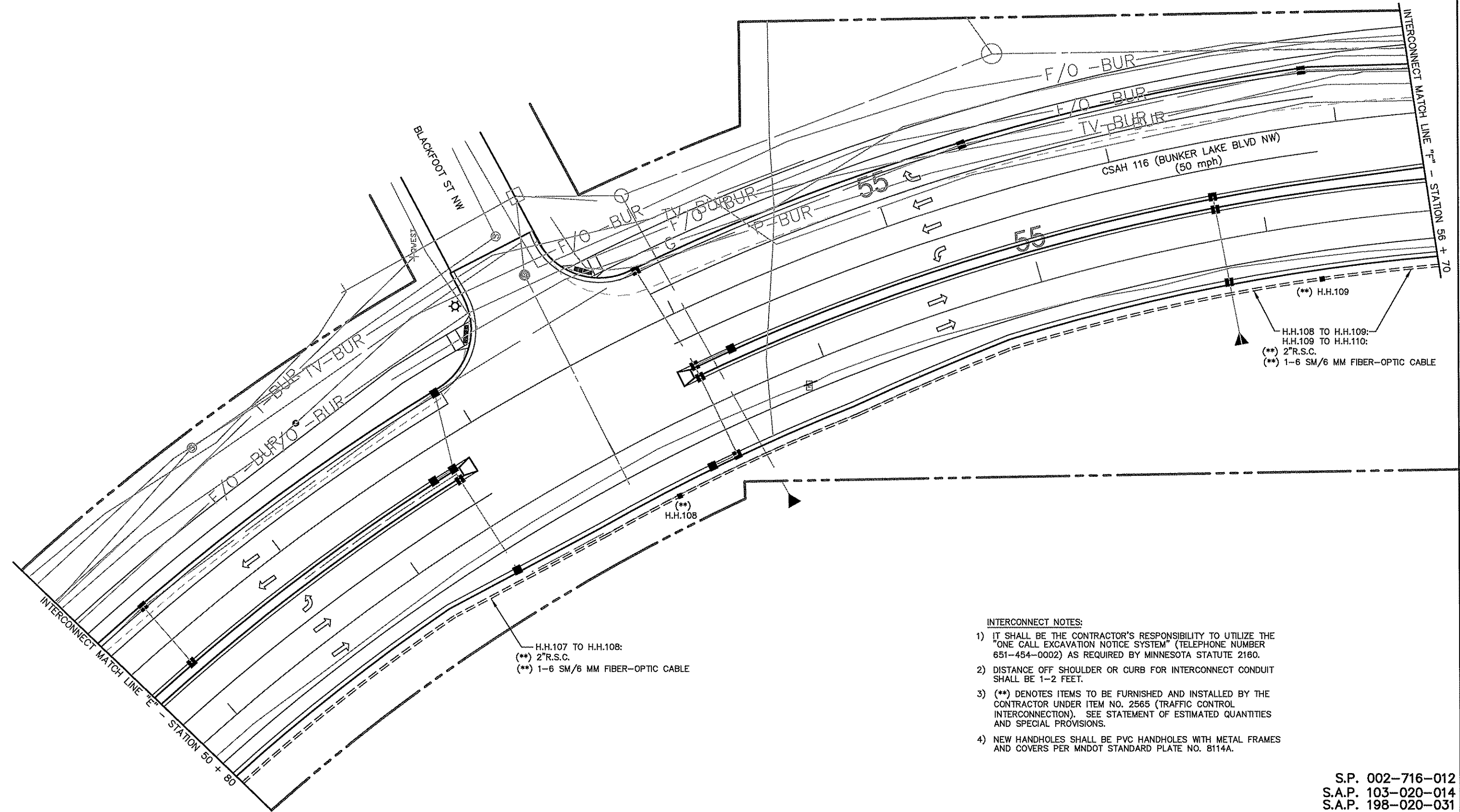
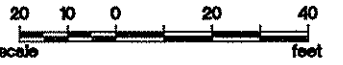
**SEH**  
 PHONE: (651) 490-2000  
 3535 VADNAIS CENTER DR.  
 ST. PAUL, MN 55110

**ANOKA COUNTY, MINNESOTA**  
 CITIES OF ANDOVER, ANOKA

**TRAFFIC CONTROL INTERCONNECTION INTERSECTION LAYOUT**  
 CSAH 116 (CSAH 7 TO 38TH AVE NW)

FILE NO. ANOKC 120319	<b>198</b>
SIGNAL SHEET 15 OF 26	<b>282</b>

S.P. 002-716-012  
 S.A.P. 103-020-014  
 S.A.P. 198-020-031



(\*\*) H.H.109  
 H.H.108 TO H.H.109:  
 H.H.109 TO H.H.110:  
 (\*\*) 2" R.S.C.  
 (\*\*) 1-6 SM/6 MM FIBER-OPTIC CABLE

H.H.107 TO H.H.108:  
 (\*\*) 2" R.S.C.  
 (\*\*) 1-6 SM/6 MM FIBER-OPTIC CABLE

**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 INTERCONNECTION). SEE STATEMENT OF ESTIMATED QUANTITIES AND SPECIAL PROVISIONS.
- 4) NEW HANDHOLES SHALL BE PVC HANDHOLES WITH METAL FRAMES AND COVERS PER MNDOT STANDARD PLATE NO. 8114A.

S.P. 002-716-012  
 S.A.P. 103-020-014  
 S.A.P. 198-020-031

0271612\_SIBERASE-FERMA.DWG 06/07/2012

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

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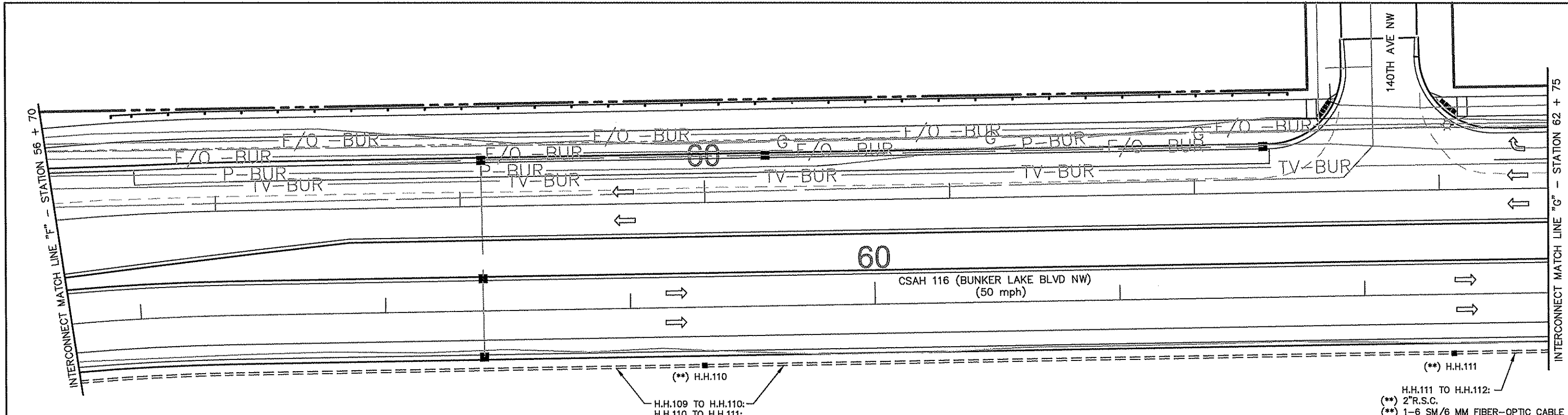
*John M. Gray*  
 Name: John M. Gray, PE  
 Lic. No. 22457  
 Date: June 7, 2012

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

**ANOKA COUNTY, MINNESOTA**  
 CITIES OF ANDOVER, ANOKA

**TRAFFIC CONTROL INTERCONNECTION INTERSECTION LAYOUT**  
 CSAH 116 (CSAH 7 TO 38TH AVE NW)

FILE NO. ANOKC 120319	<b>199</b>
SIGNAL SHEET 16 OF 26	

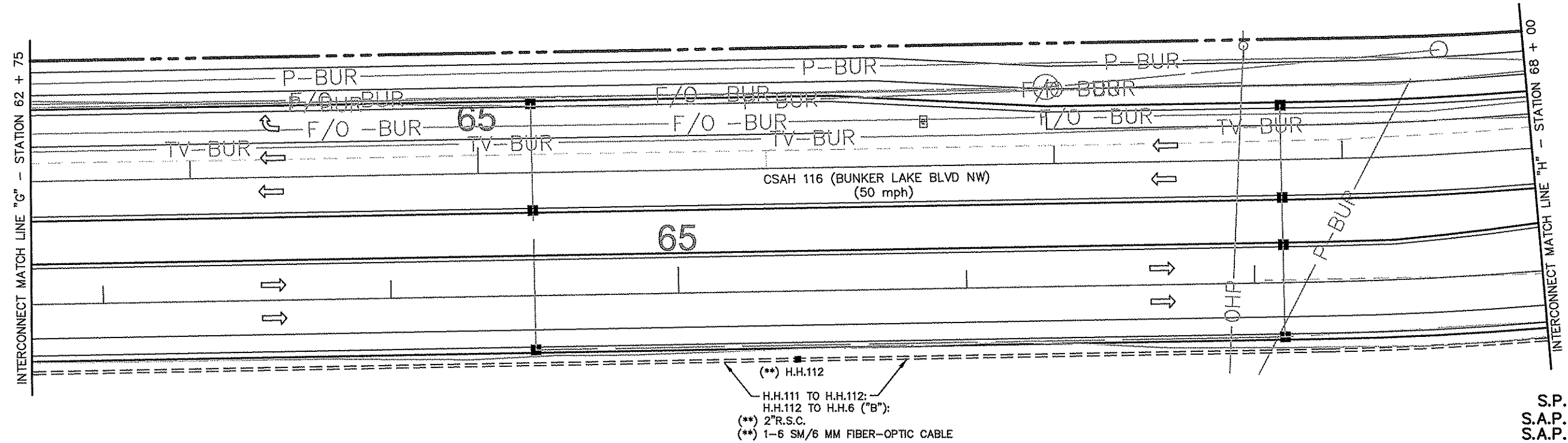
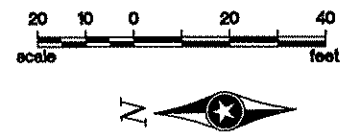


**INTERCONNECT NOTES:**

- 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 INTERCONNECTION). SEE STATEMENT OF ESTIMATED QUANTITIES AND SPECIAL PROVISIONS.
- 4) NEW HANDHOLES SHALL BE PVC HANDHOLES WITH METAL FRAMES AND COVERS PER MNDOT STANDARD PLATE NO. 8114A.

(\*\*) H.H.110  
 H.H.109 TO H.H.110:  
 H.H.110 TO H.H.111:  
 (\*\*\*) 2"R.S.C.  
 (\*\*\*) 1-6 SM/6 MM FIBER-OPTIC CABLE

(\*\*) H.H.111  
 H.H.111 TO H.H.112:  
 (\*\*\*) 2"R.S.C.  
 (\*\*\*) 1-6 SM/6 MM FIBER-OPTIC CABLE



(\*\*) H.H.112  
 H.H.111 TO H.H.112:  
 H.H.112 TO H.H.6 ("B"):  
 (\*\*\*) 2"R.S.C.  
 (\*\*\*) 1-6 SM/6 MM FIBER-OPTIC CABLE

S.P. 002-716-012  
 S.A.P. 103-020-014  
 S.A.P. 198-020-031

0271612\_SIBRASE-FERM.DWG  
08/07/2012

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*  
 Name: John M. Gray, PE  
 Lic. No. 22457  
 Date: June 7, 2012

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

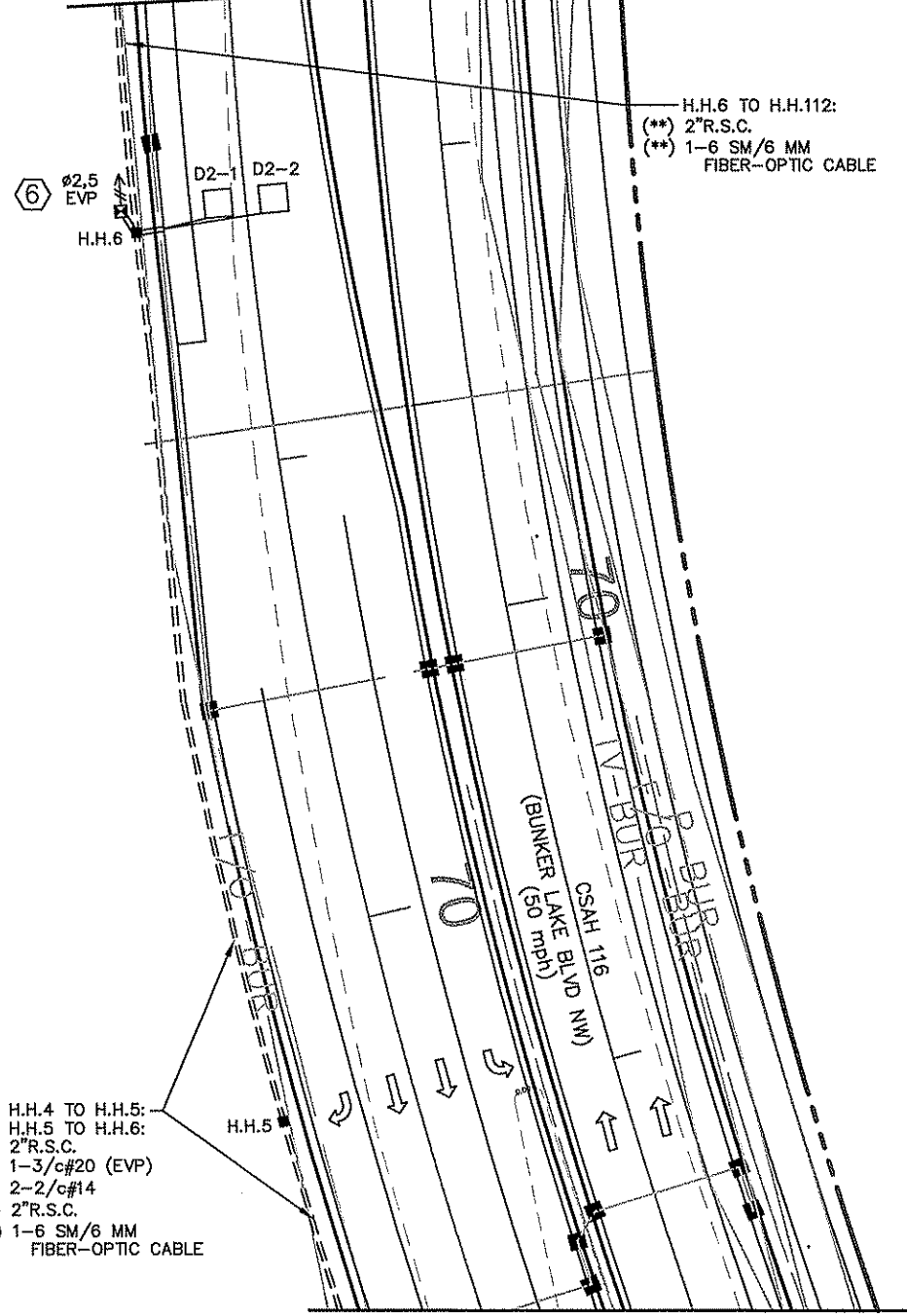
**ANOKA COUNTY, MINNESOTA**  
 CITIES OF ANDOVER, ANOKA

**TRAFFIC CONTROL INTERCONNECTION INTERSECTION LAYOUT**  
 CSAH 116 (CSAH 7 TO 38TH AVE NW)

FILE NO. ANOKC 120319	<b>200</b>
SIGNAL SHEET 17 OF 26	<b>282</b>



INTERCONNECT MATCH LINE "H" - STATION 68 + 00



H.H.6 TO H.H.112:  
 (\*\*) 2"R.S.C.  
 (\*\*) 1-6 SM/6 MM FIBER-OPTIC CABLE

⑥ Ø2.5 EVP  
 H.H.6

① PA100 POLE FOUNDATION  
 TYPE PA100-A-50-D40-9 (DAVIT AT 350')  
 LUMINAIRE-250 W HPS  
 1-ANGLE MOUNT SIGNAL-OVERHEAD AT 0'  
 2-STRAIGHT MOUNT SIGNALS-OVERHEAD AT 11' & 23'  
 1-ANGLE MOUNT SIGNAL-POLE MOUNTED 180'  
 1-ANGLE MOUNT C.D. PED INDICATION-POLE MOUNTED 180'  
 1-PEDESTRIAN PUSH BUTTON  
 1-R9-3 SIGN PANEL-FACING POLE 4  
 1-R6-1R SIGN PANEL-POLE MOUNTED 180'  
 TYPE D SIGN PANEL-OVERHEAD (D-5)  
 ONE WAY EVP DETECTOR AND LIGHT (Ø2,5) (EVP)  
 EXTEND INTO H.H.13:  
 3"R.S.C.  
 2-12/c#14  
 1-3/c#14 (EVP)  
 1-3/c#20 (EVP)  
 1-2/c#14  
 1-3/c#14 (LUM)  
 1-1/c#6 (GRD.)

③ PA100 POLE FOUNDATION  
 TYPE PA100-A-45-D40-9 (DAVIT AT 350')  
 LUMINAIRE-250 W HPS  
 1-ANGLE MOUNT SIGNAL-OVERHEAD AT 0'  
 2-STRAIGHT MOUNT SIGNALS-OVERHEAD AT 11' & 23'  
 2-ANGLE MOUNT SIGNALS-POLE MOUNTED 90' & 270'  
 1-ANGLE MOUNT C.D. PED INDICATION-POLE MOUNTED 270'  
 1-PEDESTRIAN PUSH BUTTON  
 1-R6-1L SIGN PANELS-POLE MOUNTED 0'  
 TYPE D SIGN PANEL-OVERHEAD (D-6)  
 ONE WAY EVP DETECTOR AND LIGHT (Ø6,1) (EVP)  
 EXTEND INTO H.H.8:  
 3"R.S.C.  
 3-12/c#14  
 1-3/c#14 (EVP)  
 1-3/c#20 (EVP)  
 1-2/c#14  
 1-3/c#14 (LUM)  
 1-1/c#6 (GRD.)

⑤ PEDESTAL FOUNDATION (EVP)  
 12' PEDESTAL POLE (INCLUDES BASE) (EVP)  
 ONE WAY EVP DETECTOR-MOUNT ON TOP OF PEDESTAL POLE (ON SLIPFITTER COLLAR) (Ø8) (EVP)  
 EXTEND INTO H.H.2:  
 2"R.S.C. (EVP)  
 1-3/c#20 (EVP)

⑥ PEDESTAL FOUNDATION (EVP)  
 12' PEDESTAL POLE (INCLUDES BASE) (EVP)  
 ONE WAY EVP DETECTOR-MOUNT ON TOP OF PEDESTAL POLE (ON SLIPFITTER COLLAR) (Ø2,5) (EVP)  
 EXTEND INTO H.H.6:  
 2"R.S.C. (EVP)  
 1-3/c#20 (EVP)

② PEDESTAL FOUNDATION  
 14' PEDESTAL POLE (INCLUDES BASE)  
 1-STRAIGHT MOUNT SIGNAL-POLE MOUNTED  
 2-STRAIGHT MOUNT C.D. PED INDICATIONS-POLE MOUNTED  
 2-PEDESTRIAN PUSH BUTTONS  
 EXTEND INTO H.H.3:  
 3"R.S.C.  
 1-12/c#14  
 2-2/c#14  
 1-1/c#6 (GRD.)

④ PA85 POLE FOUNDATION  
 TYPE PA85-A-20  
 1-ANGLE MOUNT SIGNAL-OVERHEAD AT 0'  
 1-ANGLE MOUNT SIGNAL-POLE MOUNTED 180'  
 1-R9-3 SIGN PANEL-FACING POLE 1  
 TYPE D SIGN PANEL-OVERHEAD (D-7)  
 ONE WAY EVP DETECTOR AND LIGHT (Ø8) (EVP)  
 EXTEND INTO H.H.9:  
 3"R.S.C.  
 1-12/c#14  
 1-6/c#14  
 1-3/c#14 (EVP)  
 1-3/c#20 (EVP)  
 1-1/c#6 (GRD.)

⑦ PEDESTAL FOUNDATION (EVP)  
 12' PEDESTAL POLE (INCLUDES BASE) (EVP)  
 ONE WAY EVP DETECTOR-MOUNT ON TOP OF PEDESTAL POLE (ON SLIPFITTER COLLAR) (Ø6,1) (EVP)  
 EXTEND INTO H.H.11:  
 2"R.S.C. (EVP)  
 1-3/c#20 (EVP)

H.H.4 TO H.H.5:  
 H.H.5 TO H.H.6:  
 2"R.S.C.  
 1-3/c#20 (EVP)  
 2-2/c#14  
 (\*\*) 2"R.S.C.  
 (\*\*) 1-6 SM/6 MM FIBER-OPTIC CABLE

INTERCONNECT MATCH LINE "I" - SEE NEXT SHEET

0271612\_SIGNBASE-FERMA.DWG 08/07/2012

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*  
 Name: John M. Gray, PE  
 Lic. No. 22457  
 Date: June 7, 2012

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

**ANOKA COUNTY, MINNESOTA**  
 CITIES OF ANDOVER, ANOKA

**TRAFFIC SIGNAL SYSTEM "B"**  
 INTERSECTION LAYOUT  
 CSAH 116 AT 38TH AVENUE NW

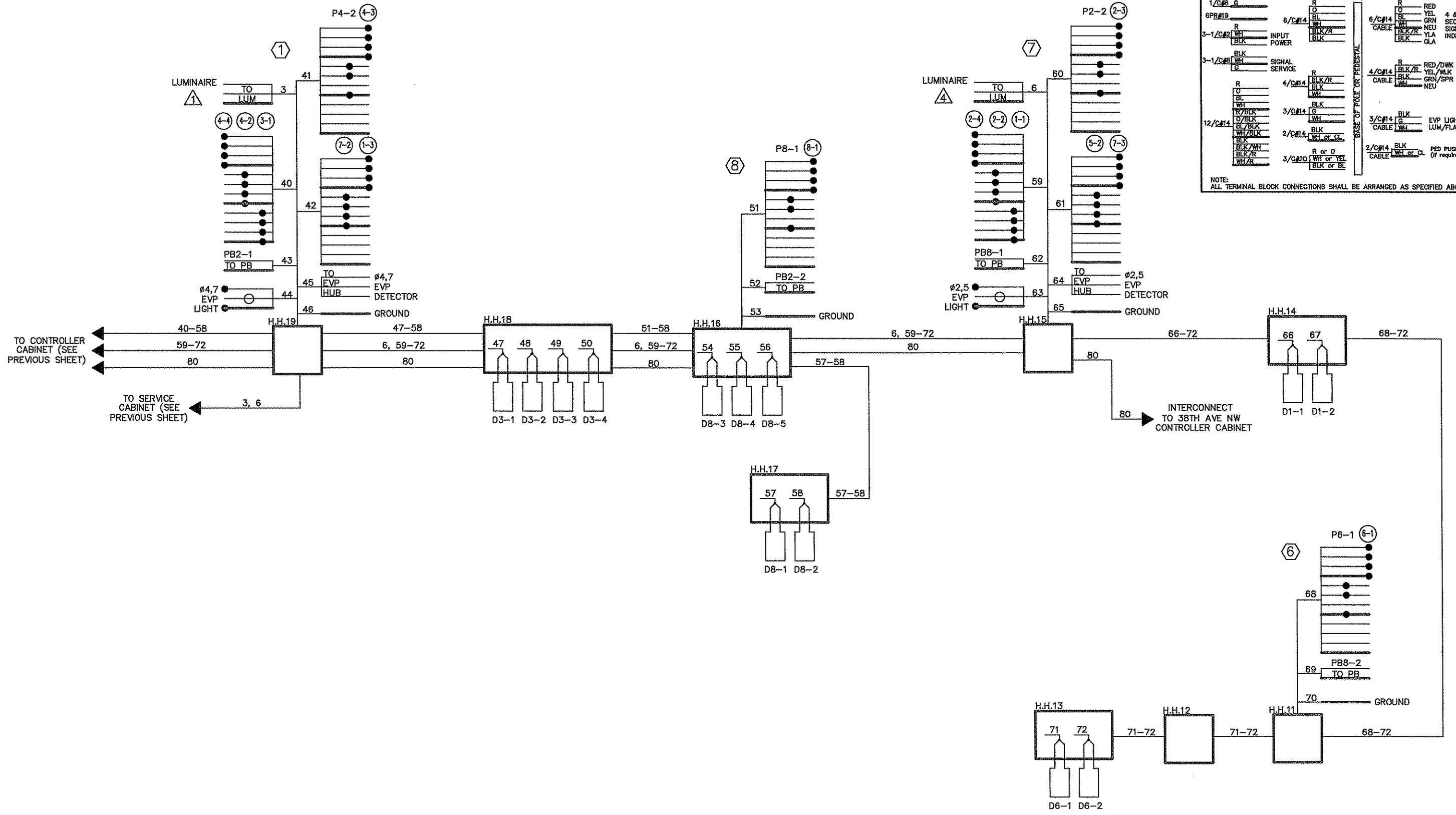
FILE NO. ANOKC 120319  
 SIGNAL SHEET 18 OF 25  
**201**  
**282**

S.P. 002-716-012  
 S.A.P. 103-020-014  
 S.A.P. 198-020-031



CONDUCTOR COLOR CODE (14 GAUGE)			
TO SIGNAL CABINET		TO DEVICE	
1/C#6 G	R	R	RED 4 & 5
6PR#19	BL	BL	YEL GRN SECTION
3-1/C#22 WH	WH	WH	NEU SIGNAL
BLK	BLK	BLK	YLA INDICATION
3-1/C#8 WH	BLK	BLK	GLA
BLK	BLK	BLK	
3-1/C#8 WH	BLK	BLK	
IC	BLK	BLK	
R	BLK/R	BLK/R	RED/DWK 3 SECTION
BL	BLK	BLK	YEL/WLK AND
WH	WH	WH	GRN/SPR PED
R/BLK	BLK	BLK	NEU INDICATION
O/BLK	WH	WH	
12/C#14 BL/BLK	3/C#14 G	3/C#14 G	EVP LIGHT
WH/BLK	WH	WH	LUM/FLASHER
BLK	2/C#14 BLK	2/C#14 BLK	PED PUSH BUTTON
BLK/WH	WH or CL	WH or CL	(if required)
WH/R	R or O	R or O	
WH/R	3/C#20 WH or YEL	3/C#20 WH or YEL	
	BLK or BL	BLK or BL	

NOTE: ALL TERMINAL BLOCK CONNECTIONS SHALL BE ARRANGED AS SPECIFIED ABOVE.



S.P. 002-607-021  
 S.P. 002-716-012  
 S.A.P. 103-020-014 & 103-020-015  
 S.A.P. 198-020-031 & 198-020-032

0271612\_SIGBASE-PEP.MXD  
08/07/2012

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.

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**ANOKA COUNTY, MINNESOTA**  
 CITIES OF ANDOVER, ANOKA

**TRAFFIC SIGNAL SYSTEM 'A'**  
 FIELD WIRING DIAGRAM  
 CSAH 116 AT CSAH 7 (7TH AVE NW)

FILE NO. ANOKC 120319  
 SIGNAL SHEET 13 OF 26  
**196**  
**282**