

PVC LOOP DETECTORS				
NUMBER	SIZE (FT.)	LOCATION	FUNCTION	STATUS
D1-1, D1-2	2-6x6	15' & 45'	1	2
D1-3, D1-4	2-6x6	0' & 30'	1	1
D2-1, D2-2	6x6	300'	1	INPLACE
D2-3, D2-4	2-6x6	5' & 20'	2	INPLACE
D3-1, D7-1	2-6x6	10' & 40'	1	3
D3-2, D7-2	2-6x6	-5' & 25'	1	4
D4-1, D4-2	6x6	475'	1	INPLACE
D4-3, D4-4	2-6x6	5' & 20'	2	INPLACE
D5-1, D5-2	2-6x6	20' & 50'	1	2
D5-3, D5-4	2-6x6	5' & 35'	1	1
D6-1, D6-2	6x6	300'	1	INPLACE
D6-3, D6-4	2-6x6	5' & 20'	2	INPLACE
D8-1, D8-2	6x6	475'	1	INPLACE
D8-3, D8-4	2-6x6	5' & 20'	2	INPLACE

LOOP DETECTORS FUNCTIONS:

- 1) CALL AND EXTEND
- 2) CALL ONLY

LOOP DETECTOR STATUS:

- 1 = DETACH EXISTING FRONT LOOP DETECTOR FROM EXISTING LEAD-IN CABLE AND SPLICE TO EXISTING BACK LOOP DETECTOR AND FRONT LEAD-IN CABLE (F & I NEW SPLICE KIT). PROTECT EXISTING LOOP DETECTORS IN ROADWAY.
- 2 = FURNISH & INSTALL NEW PVC LOOP DETECTORS AT 9' FROM BACK OF EXISTING LOOPS. SPLICE THESE NEW LOOP DETECTORS TO EXISTING BACK LEAD-IN CABLE (F & I NEW SPLICE KIT).
- 3 = DETACH EXISTING FRONT (10') LOOP DETECTOR FROM EXISTING LEAD-IN CABLE AND SPLICE TO EXISTING BACK (40') LOOP DETECTOR AND BACK LEAD-IN CABLE (F & I NEW SPLICE KIT). PROTECT EXISTING 10'/40' LOOP DETECTORS IN ROADWAY.
- 4 = FURNISH & INSTALL NEW PVC LOOP DETECTORS AT -5' AND 25' FROM STOP BAR. SPLICE THESE NEW LOOP DETECTORS TO EXISTING FRONT LEAD-IN CABLE (F & I NEW SPLICE KIT).

LOCATION = DISTANCE FROM STOP BAR TO FRONT OF DETECTOR.

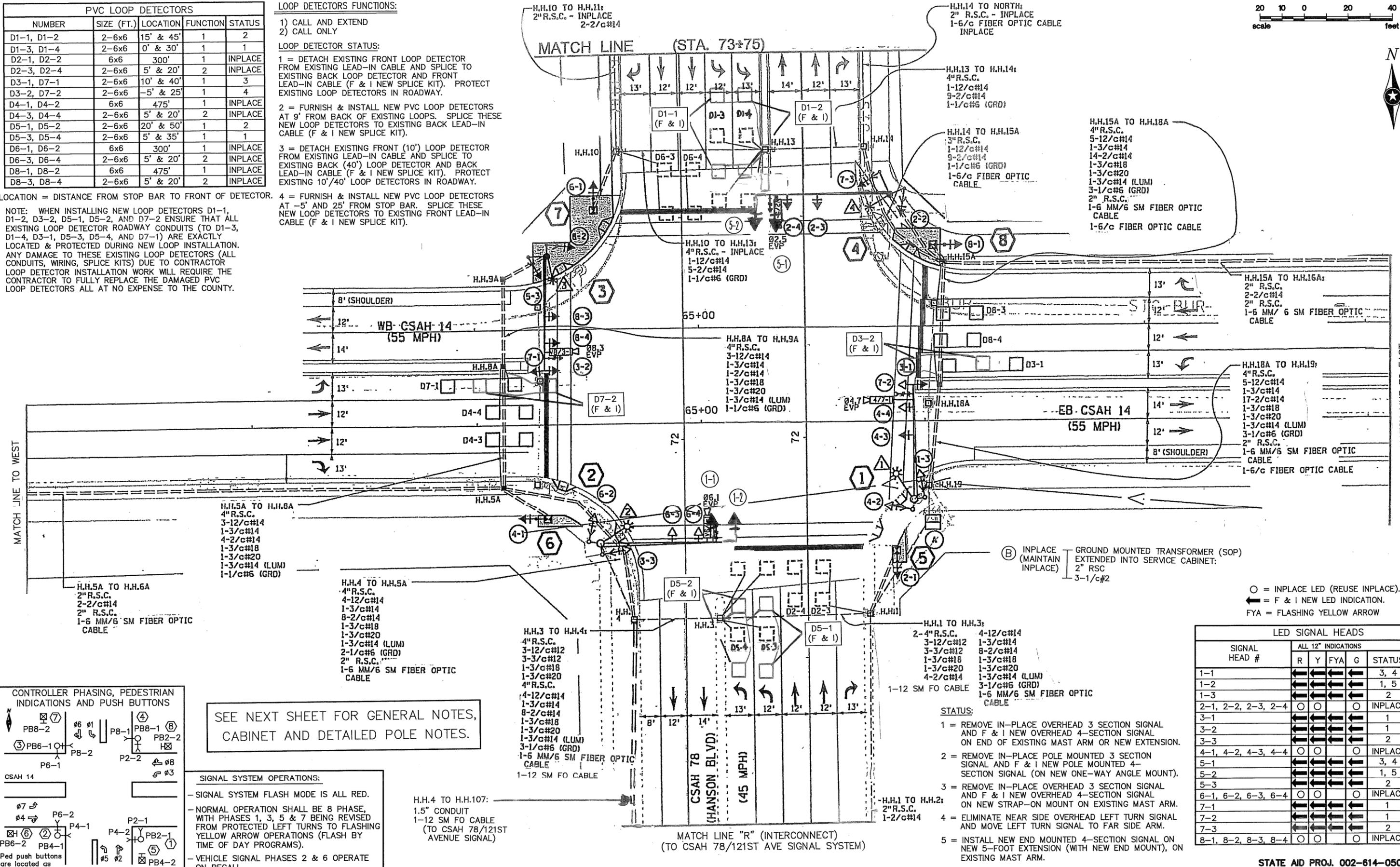
NOTE: WHEN INSTALLING NEW LOOP DETECTORS D1-1, D1-2, D3-2, D5-1, D5-2, AND D7-2 ENSURE THAT ALL EXISTING LOOP DETECTOR ROADWAY CONDUITS (TO D1-3, D1-4, D3-1, D5-3, D5-4, AND D7-1) ARE EXACTLY LOCATED & PROTECTED DURING NEW LOOP INSTALLATION. ANY DAMAGE TO THESE EXISTING LOOP DETECTORS (ALL CONDUITS, WIRING, SPLICE KITS) DUE TO CONTRACTOR LOOP DETECTOR INSTALLATION WORK WILL REQUIRE THE CONTRACTOR TO FULLY REPLACE THE DAMAGED PVC LOOP DETECTORS ALL AT NO EXPENSE TO THE COUNTY.

H.H.10 TO H.H.11:
2" R.S.C. - INPLACE
2-2/c#14

H.H.14 TO NORTH:
2" R.S.C. - INPLACE
1-6/c FIBER OPTIC CABLE
INPLACE



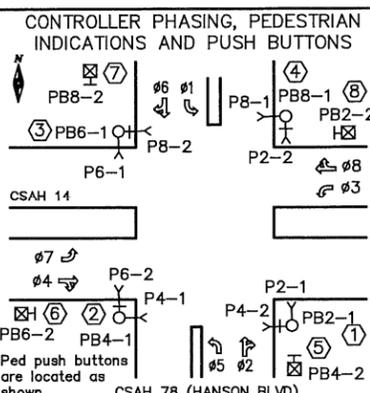
MATCH LINE (STA. 73+75)



MATCH LINE TO WEST

MATCH LINE TO EAST

SEE NEXT SHEET FOR GENERAL NOTES, CABINET AND DETAILED POLE NOTES.



SIGNAL SYSTEM OPERATIONS:

- SIGNAL SYSTEM FLASH MODE IS ALL RED.
- NORMAL OPERATION SHALL BE 8 PHASE, WITH PHASES 1, 3, 5 & 7 BEING REVISED FROM PROTECTED LEFT TURNS TO FLASHING YELLOW ARROW OPERATIONS (FLASH BY TIME OF DAY PROGRAMS).
- VEHICLE SIGNAL PHASES 2 & 6 OPERATE ON RECALL.

H.H.4 TO H.H.107:
1.5" CONDUIT
1-12 SM FO CABLE
(TO CSAH 78/121ST AVENUE SIGNAL)

(B) INPLACE (MAINTAIN INPLACE) GROUND MOUNTED TRANSFORMER (SOP) EXTENDED INTO SERVICE CABINET:
2" RSC
3-1/c#2

○ = INPLACE LED (REUSE INPLACE).
◄ = F & I NEW LED INDICATION.
FYA = FLASHING YELLOW ARROW

LED SIGNAL HEADS					
SIGNAL HEAD #	ALL 12" INDICATIONS				STATUS
	R	Y	FYA	G	
1-1	◄	◄	◄	◄	3, 4
1-2	◄	◄	◄	◄	1, 5
1-3	◄	◄	◄	◄	2
2-1, 2-2, 2-3, 2-4	○	○	○	○	INPLACE
3-1	◄	◄	◄	◄	1
3-2	◄	◄	◄	◄	1
3-3	◄	◄	◄	◄	2
4-1, 4-2, 4-3, 4-4	○	○	○	○	INPLACE
5-1	◄	◄	◄	◄	3, 4
5-2	◄	◄	◄	◄	1, 5
5-3	◄	◄	◄	◄	2
6-1, 6-2, 6-3, 6-4	○	○	○	○	INPLACE
7-1	◄	◄	◄	◄	1
7-2	◄	◄	◄	◄	1
7-3	◄	◄	◄	◄	2
8-1, 8-2, 8-3, 8-4	○	○	○	○	INPLACE

- STATUS:**
- 1 = REMOVE IN-PLACE OVERHEAD 3 SECTION SIGNAL AND F & I NEW OVERHEAD 4-SECTION SIGNAL ON END OF EXISTING MAST ARM OR NEW EXTENSION.
 - 2 = REMOVE IN-PLACE POLE MOUNTED 3 SECTION SIGNAL AND F & I NEW POLE MOUNTED 4-SECTION SIGNAL (ON NEW ONE-WAY ANGLE MOUNT).
 - 3 = REMOVE IN-PLACE OVERHEAD 3 SECTION SIGNAL AND F & I NEW OVERHEAD 4-SECTION SIGNAL ON NEW STRAP-ON MOUNT ON EXISTING MAST ARM.
 - 4 = ELIMINATE NEAR SIDE OVERHEAD LEFT TURN SIGNAL AND MOVE LEFT TURN SIGNAL TO FAR SIDE ARM.
 - 5 = INSTALL NEW END MOUNTED 4-SECTION SIGNAL ON NEW 5-FOOT EXTENSION (WITH NEW END MOUNT), ON EXISTING MAST ARM.

DRAWN BY: JMG
DESIGNER: JMG
CHECKED BY: JMG

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: August 21, 2020

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

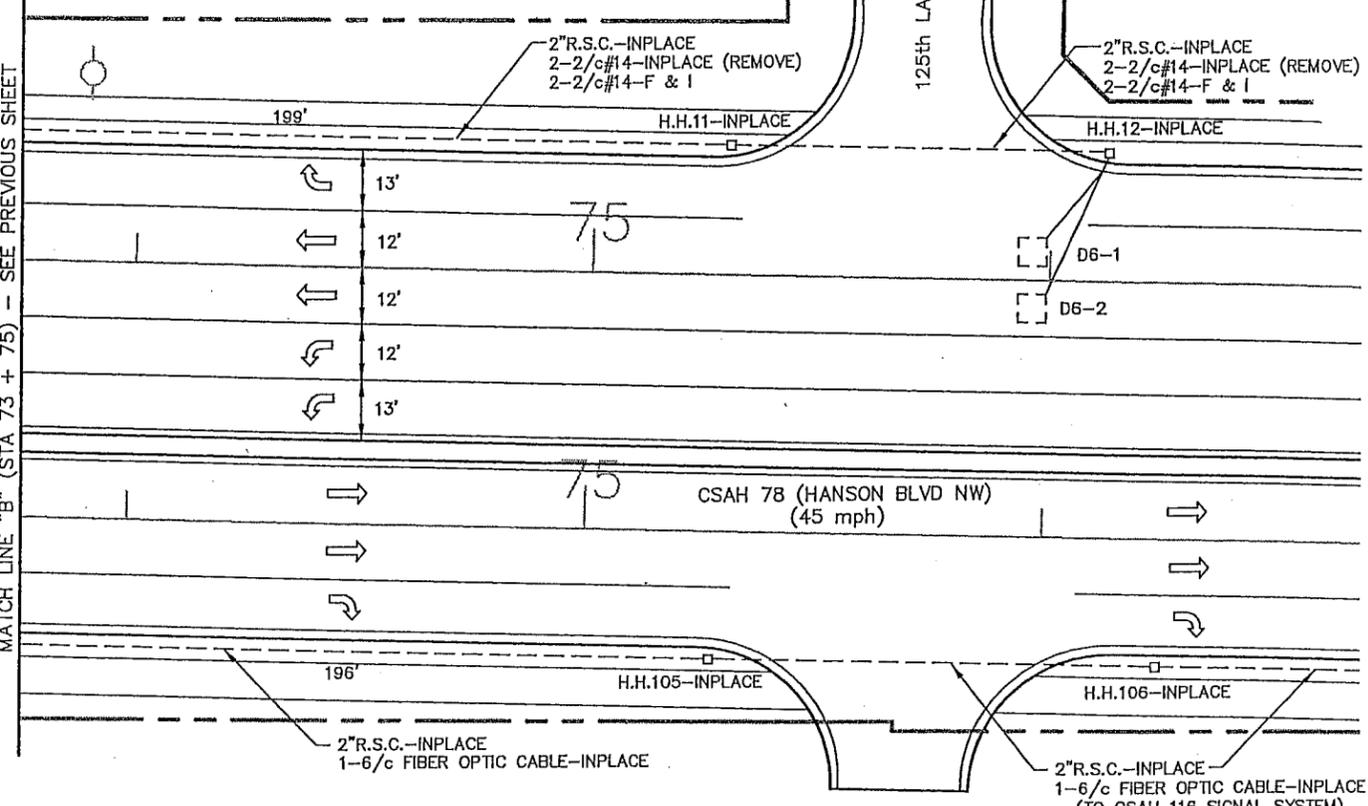
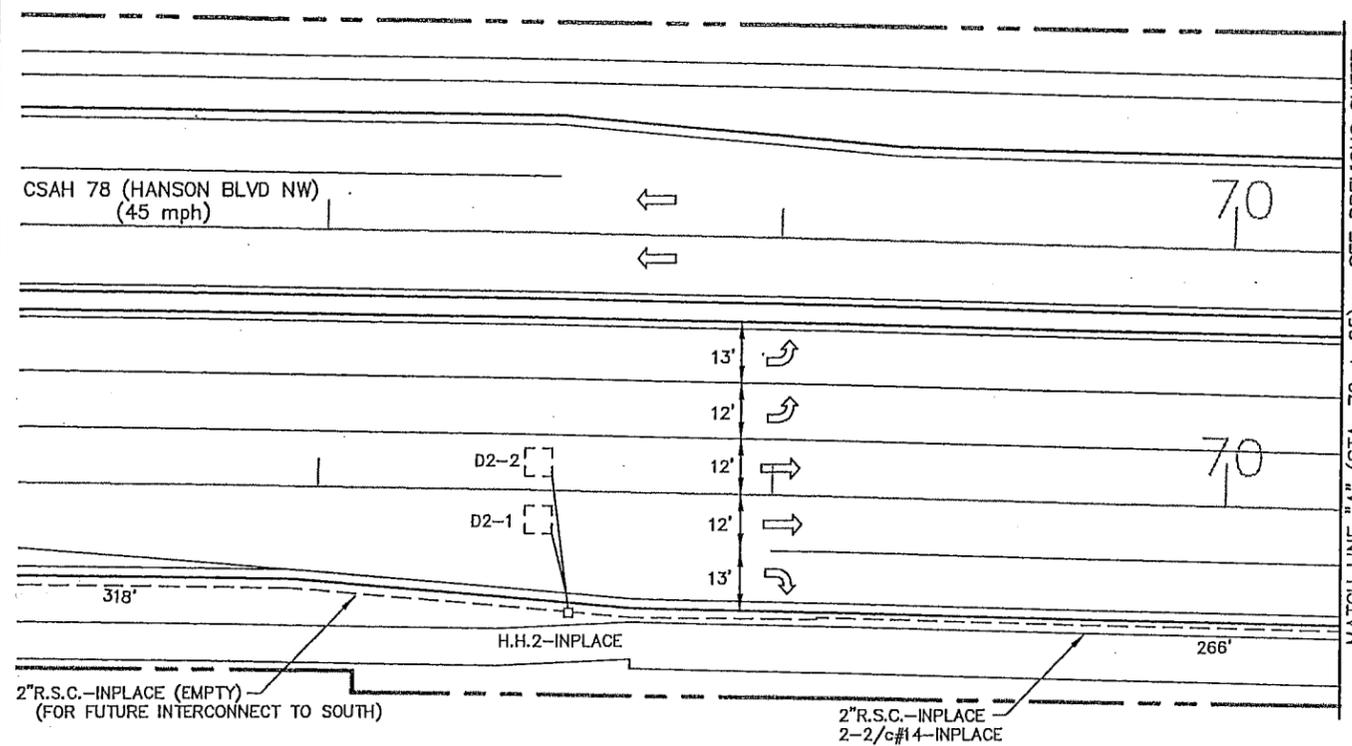
ANOKA COUNTY
CITY OF COON RAPIDS

REVISE SIGNAL SYSTEM 'F'
INTERSECTION LAYOUT
CSAH 14 (MAIN STREET) AT CSAH 78 (HANSON BLVD)

STATE AID PROJ. 002-614-050
FILE NO. ANOKC 153783
34
55

128581

SCALE 1" = 20'



MATCH LINE "A" (STA. 70 + 25) - SEE PREVIOUS SHEET

MATCH LINE "B" (STA 73 + 75) - SEE PREVIOUS SHEET

- ① INPLACE (MAINTAIN INPLACE) PA100 POLE FOUNDATION TYPE PA100-A-50-D40-9 (DAVIT AT 350') PA100 SWING-AWAY HINGES LUMINAIRE-250 W HPS 1-ONE WAY SIGNAL-OVERHEAD AT 12' (4-4) 2-ONE WAY SIGNALS-POLE MOUNTED 45' & 225' (1-3, 4-2) 2-SETS PEDESTRIAN INDICATIONS-POLE MOUNTED 45' & 225' (P2-1, P4-2) 1-PEDESTRIAN PUSH BUTTON AT 270' (PB2-1) 2-R6-1 SIGN PANELS-POLE MOUNTED 0' & 180' TYPE D SIGN PANEL-OVERHEAD ONE WAY EVP DETECTOR AND LIGHT (#4,7) 1-VIDEO DETECTOR CAMERA-MAST ARM MOUNTED (FACING EB TRAFFIC) (V4/7-1) EXTENDED INTO H.H.19: 3\"/>

- ② INPLACE (MAINTAIN INPLACE) PA100 POLE FOUNDATION TYPE PA100-A-55-D40-9 (DAVIT AT 350') PA100 SWING-AWAY HINGES LUMINAIRE-250 W HPS 2-ONE WAY SIGNALS-OVERHEAD AT 12' & 24' (6-4, 6-3) 2-ONE WAY SIGNALS-POLE MOUNTED 45' & 225' (3-3, 6-2) 2-SETS PEDESTRIAN INDICATIONS-POLE MOUNTED 45' & 225' (P4-1, P6-2) 1-PEDESTRIAN PUSH BUTTON AT 270' (PB4-1) 2-R6-1 SIGN PANELS-POLE MOUNTED 0' & 180' 2-TYPE D SIGN PANELS-OVERHEAD ONE WAY EVP DETECTOR AND LIGHT (#6,1) 1-VIDEO DETECTOR CAMERA-MAST ARM MOUNTED (FACING SB TRAFFIC) (V6/1-1) EXTENDED INTO H.H.4: 3\"/>

- ③ INPLACE (S & I) TYPE PA100-A-50-D40-9 (DAVIT AT 350') PA100 SWING-AWAY HINGES LUMINAIRE-250 W HPS 1-ONE WAY SIGNAL-OVERHEAD AT 0' (3-2) 1-ONE WAY SIGNAL-OVERHEAD AT 12' (8-4) 2-ONE WAY SIGNALS-POLE MOUNTED 45' & 225' (5-3, 8-2) 2-SETS PEDESTRIAN INDICATIONS-POLE MOUNTED 45' & 225' (P6-1, P8-2) 1-PED. PUSH BUTTON AT 0' (RELOCATE TO POLE 7) (PB8-2) 1-PEDESTRIAN PUSH BUTTON AT 270' (PB6-1) 2-R6-1 SIGN PANELS-POLE MOUNTED 0' & 180' TYPE D SIGN PANEL-OVERHEAD (0-5) ONE WAY EVP DETECTOR AND LIGHT (#8,3) 1-VIDEO DETECTOR CAMERA-MAST ARM MOUNTED (FACING WB TRAFFIC) (V8/3-1)
- INPLACE (REMOVE) PA100 POLE FOUNDATION ONE WAY MOUNT-OVERHEAD AT 0' 2-"HAND/WALKING PERSON" LENSES (LEAVE HOUSING/VISOR INPLACE) 2-PEDESTRIAN INSTRUCTION SIGNS (R10-4b) EXTEND INTO H.H.9: 3\"/>

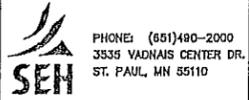
- ④ INPLACE (S & I) TYPE PA100-A-55-D40-9 (DAVIT AT 350') PA100 SWING-AWAY HINGES LUMINAIRE-250 W HPS 3-ONE WAY SIGNALS-OVERHEAD AT 0', 12' & 24' (5-2, 2-4, 2-3) 2-ONE WAY SIGNALS-POLE MOUNTED 45' & 225' (7-3, 2-2) 2-SETS PEDESTRIAN INDICATIONS-POLE MOUNTED 45' & 225' (P8-1, P2-2) 1-PED. PUSH BUTTON AT 0' (RELOCATE TO POLE 8) (PB2-2) 1-PEDESTRIAN PUSH BUTTON AT 270' (PB8-1) 2-R6-1 SIGN PANELS-POLE MOUNTED 0' & 180' 2-TYPE D SIGN PANELS-OVERHEAD ONE WAY EVP DETECTOR AND LIGHT (#2,5) 1-VIDEO DETECTOR CAMERA-MAST ARM MOUNTED (FACING NB TRAFFIC) (V2/5-1)
- INPLACE (REMOVE) PA100 POLE FOUNDATION ONE WAY MOUNT-OVERHEAD AT 0' 2-"HAND/WALKING PERSON" LENSES (LEAVE HOUSING/VISOR INPLACE) 2-PEDESTRIAN INSTRUCTION SIGNS (R10-4b) EXTEND INTO H.H.15: 3\"/>

- ⑤ INPLACE (S & I) 1-PEDESTRIAN PUSH BUTTON (RELOCATED FROM ADJACENT MAST ARM POLE) (PB2-2, PB4-2, PB6-2, PB8-2)
- ⑥ F & I PEDESTAL FOUNDATION 12' PEDESTAL POLE (INCLUDES BASE) WIND COLLAR FOR PEDESTAL POLE 1-ONE WAY SIGNAL-POLE MOUNTED (FACING ONCOMING TRAFFIC) (2-1, 4-1, 6-1, 8-1) 1-PEDESTRIAN INSTRUCTION SIGN (R10-3eR) EXTEND INTO H.H. 1, 5A, 10, AND 15A: 3\"/>

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

Certified By: *[Signature]* Lic. No. 22457
 Printed Name: JOHN M. GRAY, PE Date: 01/21/10



ANOKA COUNTY, MN.
CSAH 14
 S.P. NO. 02-814-32
 S.A.P. NO. 114-020-042 (C.S.A.H. 14)
 S.A.P. NO. 114-129-008 (SHEVANDOAH BLVD)

REVISE SIGNAL SYSTEM "B" INTERSECTION LAYOUT
 CSAH 14 (MAIN ST) AT CSAH 78 (HANSON BLVD)

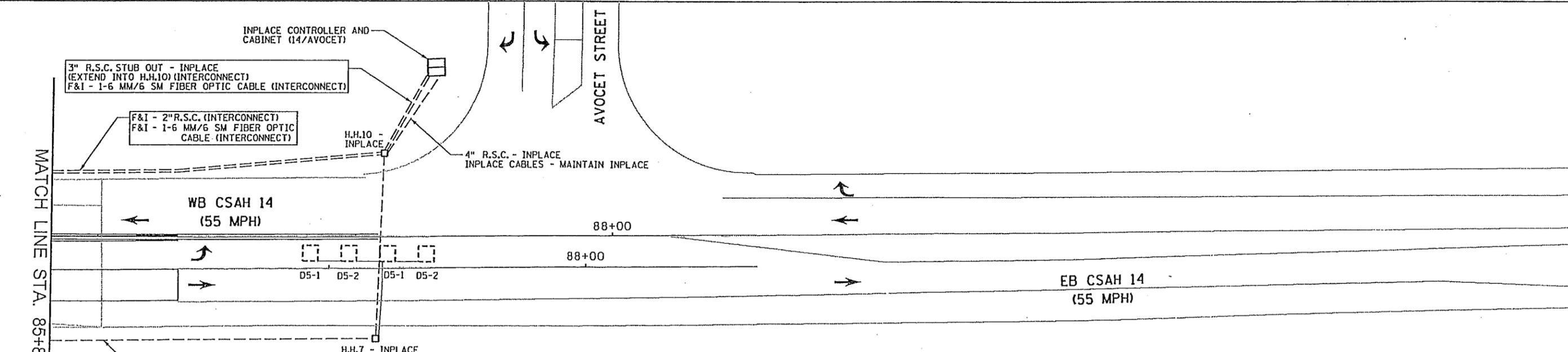
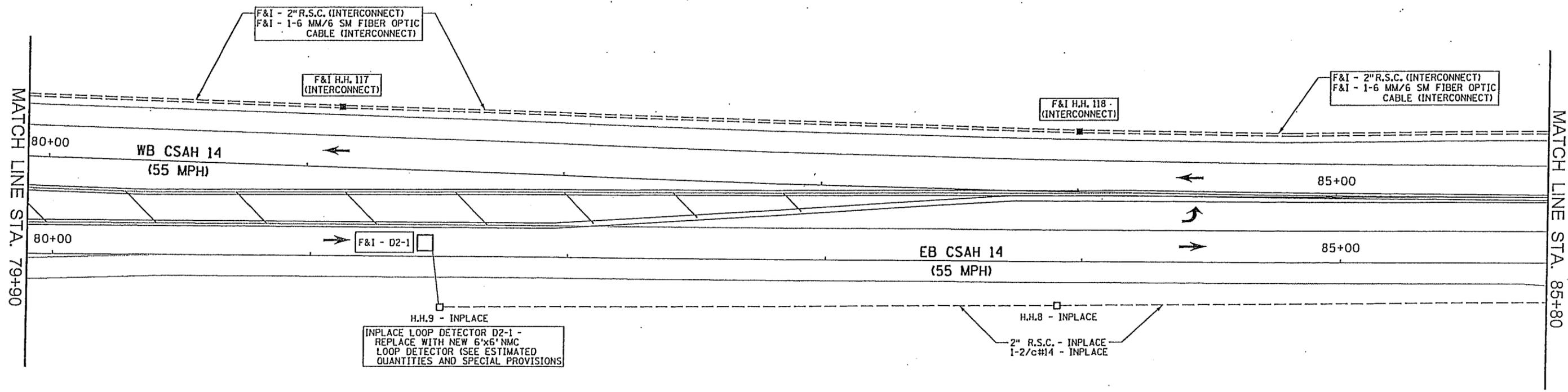
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SG17 OF SG32	194

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1/20/2010

Interconnect 6

S:\ME\A\Anoka\102287\5-dsgn\51-cadd\Civil\plansh\anok102-sg.dgn



- 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 FURNISHED AND INSTALLED BY CONTRACTOR, AND TO BE MEASURED AND PAID FOR AS NOTED IN THE SPECIAL PROVISIONS AND ESTIMATED QUANTITIES.



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

Certified By: *John M. Gray* Lic. No. 22457
 Printed Name: JOHN M. GRAY, PE Date: 1/20/2010

ANOKA COUNTY, MN.
CSAH 14
 S.P. NO. 02-614-32 CTB
 S.P. NO. 114-020-042 (C.S.A.H. 14)
 S.P. NO. 114-129-008 (SHENANDOAH BLVD.)

TRAFFIC SIGNAL INTERCONNECT INTERSECTION LAYOUT
 CSAH 14 (MAIN ST)
 (STA 68+10 TO AVOCET STREET)

FILE NO.	183
102287	
SG21	194
OF SG32	

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1/20/2010

Interconnect 4

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NOTES:

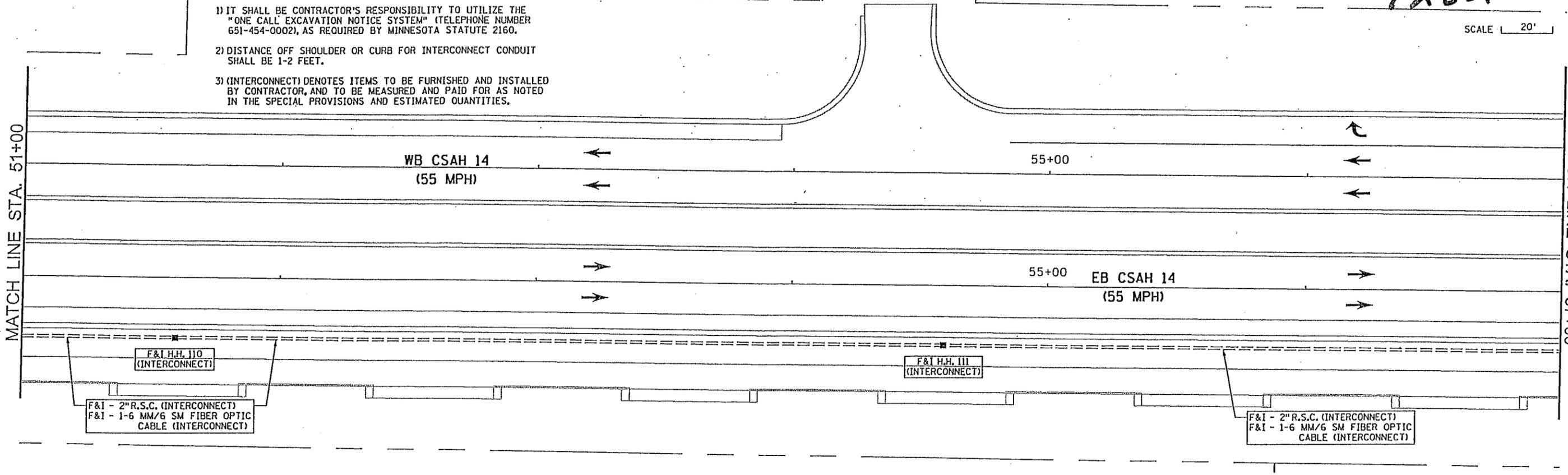
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7282

SCALE 20'

MATCH LINE STA. 57+00

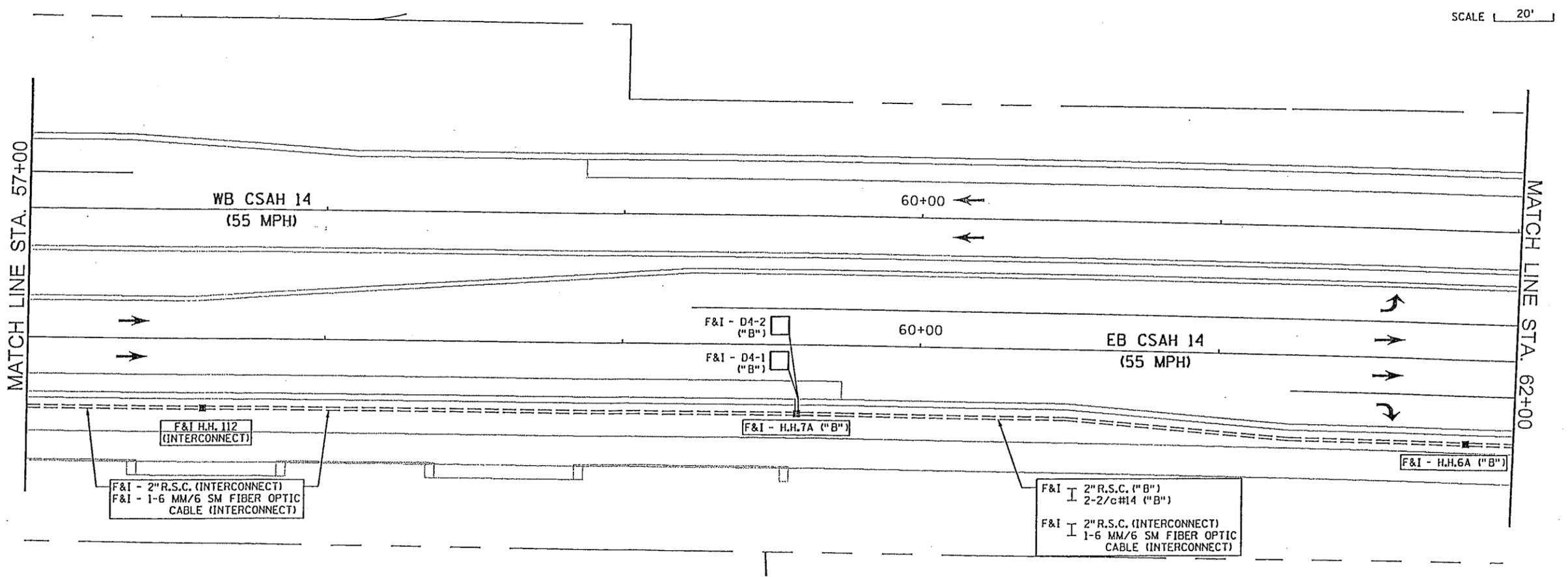
MATCH LINE STA. 51+00



SCALE 20'

MATCH LINE STA. 62+00

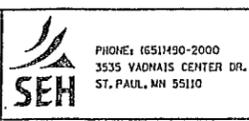
MATCH LINE STA. 57+00



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

Certified By: *John M. Gray* Lic. No. 22457
 Printed Name: JOHN M. GRAY, PE Date: 1/20/2010



ANOKA COUNTY, MN.
CSAH 14
 S.P. NO. 02-614-32 CTB
 S.P. NO. 114-020-042 (C.S.A.H. 14)
 S.P. NO. 114-129-008 (ISHENANDOGAH BLVD.)

REVISE SIGNAL SYSTEM "B"
INTERSECTION LAYOUT
 CSAH 14 (MAIN ST) AT
 CSAH 78 (HANSON BLVD)

FILE NO. 177
 102287
 SG15
 OF 5632
 194

7282

SCALE 20'

11:33:33 PM

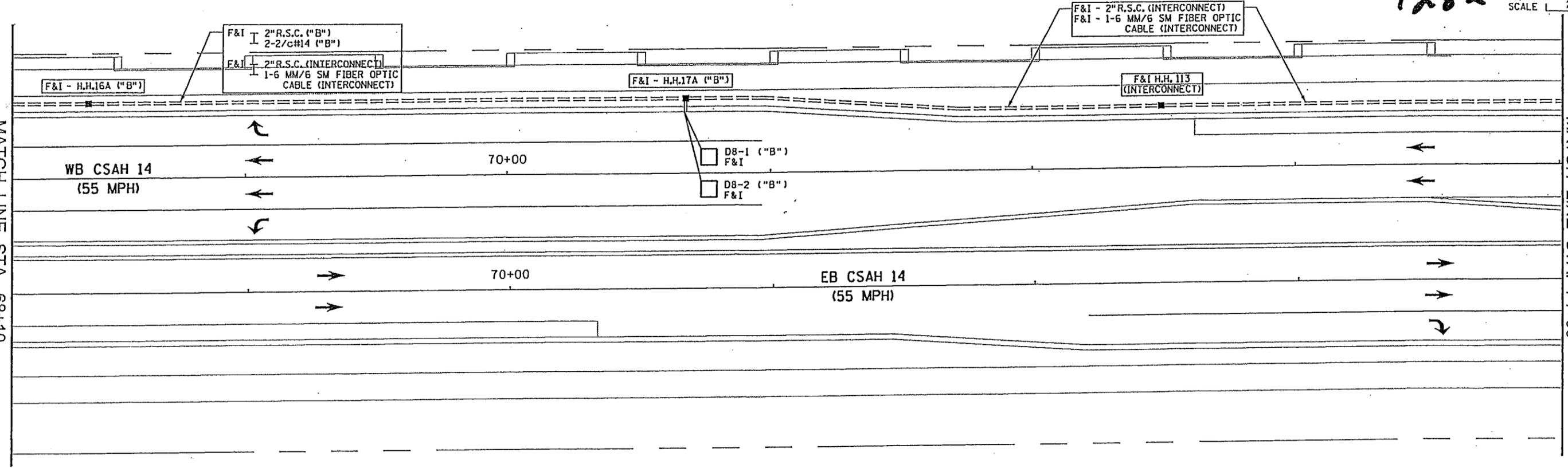
1/20/2010

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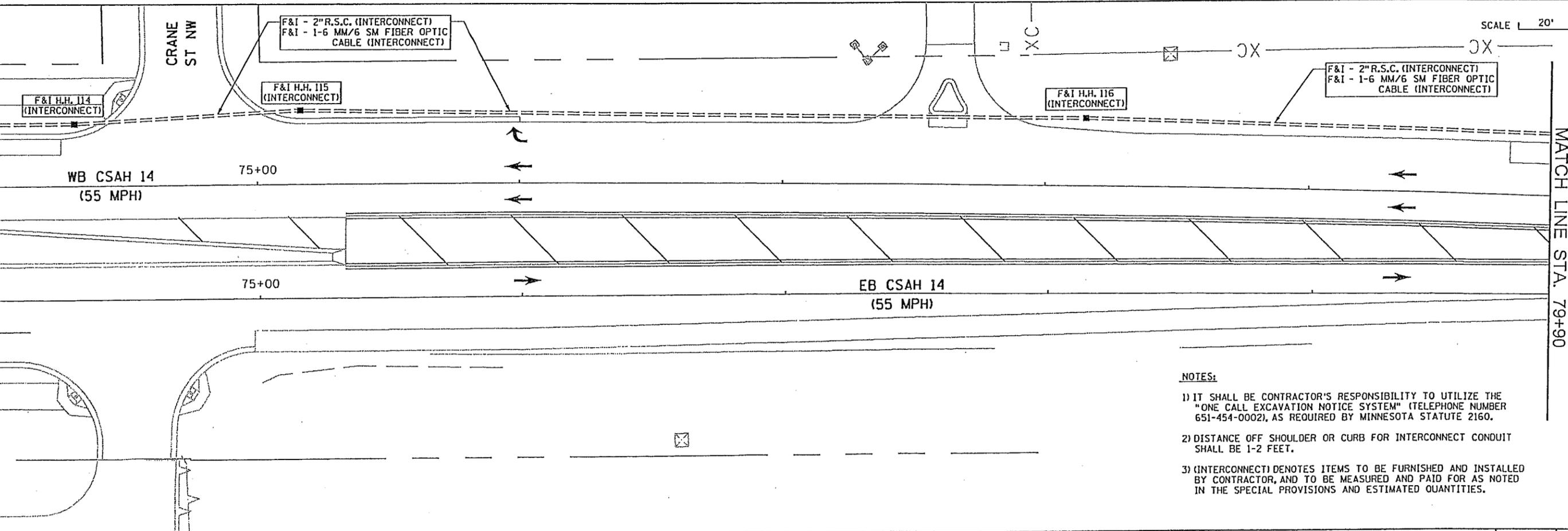
MATCH LINE STA. 68+10

MATCH LINE STA. 74+00



MATCH LINE STA. 74+00

MATCH LINE STA. 79+90



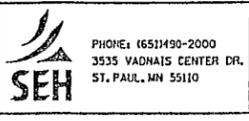
NOTES:

- 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 FURNISHED AND INSTALLED BY CONTRACTOR, AND TO BE MEASURED AND PAID FOR AS NOTED IN THE SPECIAL PROVISIONS AND ESTIMATED QUANTITIES.

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

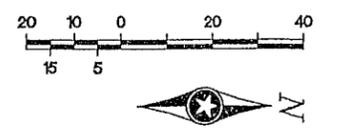
Certified By: *John M. Gray* Lic. No. 22457
 Printed Name: JOHN M. GRAY, PE Date: 1/20/2010



ANOKA COUNTY, MN.
CSAH 14
 S.P. NO. 02-614-32 CTB
 S.P. NO. 114-020-042 (C.S.A.H. 14)
 S.P. NO. 114-129-008 (SHENANDOAH BLVD.)

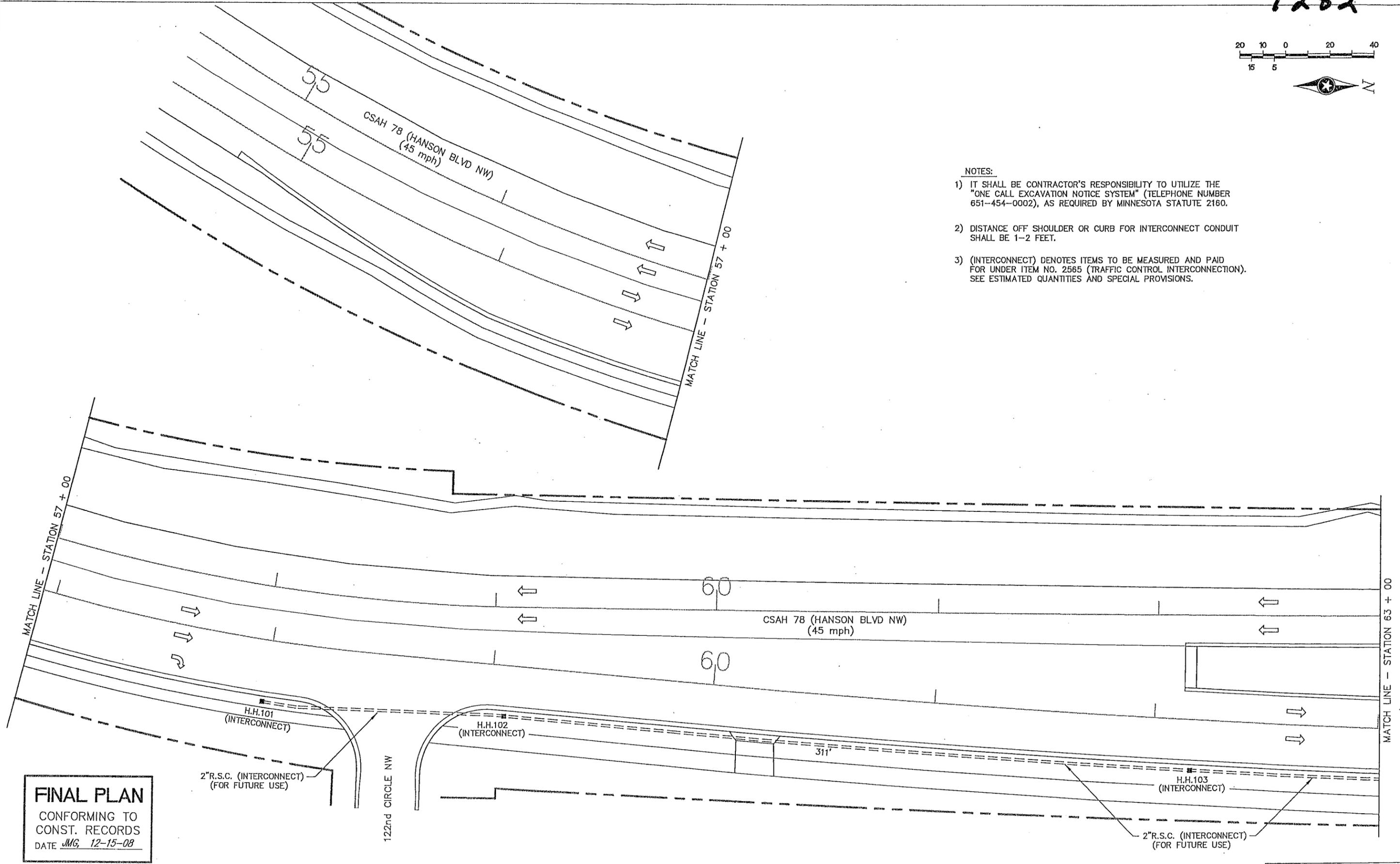
REVISE SIGNAL SYSTEM "B" INTERSECTION LAYOUT
 CSAH 14 (MAIN ST) AT
 CSAH 78 (HANSON BLVD)

FILE NO.	180
102287	
SG18	194
OF 5G32	



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 (TRAFFIC CONTROL INTERCONNECTION). SEE ESTIMATED QUANTITIES AND SPECIAL PROVISIONS.



FINAL PLAN
 CONFORMING TO
 CONST. RECORDS
 DATE *JMG, 12-15-08*

S:\MVA\ANOKA\COMMON\CSAH-78-SIGNALS\SIGBASE-REC.DWG

DRAWN BY: JMG	1	JMG	01/06	REVISED PER COUNTY AND STATE COMMENTS
DESIGNER: JMG	2	JMG	06/06	REVISED PER COUNTY COMMENTS
CHECKED BY: JMG	3	JMG	12/08	RECORD DRAWING
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.

John M. Gray
 Name: John M. Gray, PE
 Lic. No. 22457
 Date: November 28, 2006

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

ANOKA COUNTY, MINNESOTA
 CITY OF COON RAPIDS

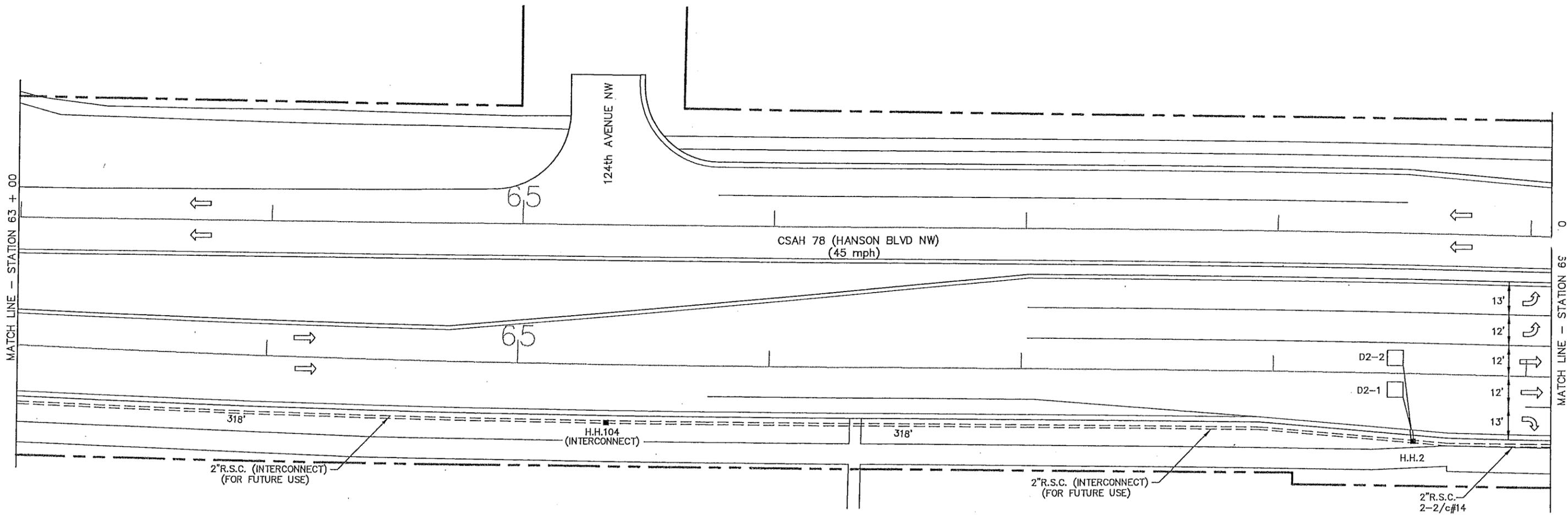
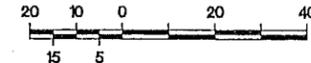
TRAFFIC SIGNAL INTERCONNECT INTERSECTION LAYOUT
 CSAH 78 (HANSON BLVD NW)
 (PROJECT LIMITS TO STATION 63 + 00)

FILE NO. AANOKC0601.00
 SIGNAL SHEET 10 OF 38
 251
 400

S.P. 02-678-16
 S.P. 114-020-25
 COON RAPIDS CITY PROJ. 01-57

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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FINAL PLAN
 CONFORMING TO
 CONST. RECORDS
 DATE JMG, 12-15-08

S.P. 0212-48 (1 2)
 S.P. 02-6, -16
 S.P. 114-020-25
 COON RAPIDS CITY PROJ. 01-57

S:\A\ANOKC\COUNTY\CSAH-78-SIGNALS\SIGBASE-REC.DWG

DRAWN BY: JMG	1	JMG	01/06	REVISED PER COUNTY AND STATE COMMENTS
DESIGNER: JMG	2	JMG	12/08	RECORD DRAWING
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.
 Date: November 28, 2008 Name: John M. Gray, PE Lic. No. 22457

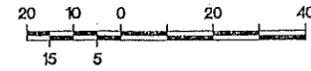
SEH
 PHONE: (651) 490-2000
 3535 VADNAIS CENTER DR.
 ST. PAUL, MN 55110

ANOKA COUNTY, MINNESOTA
 CITY OF COON RAPIDS

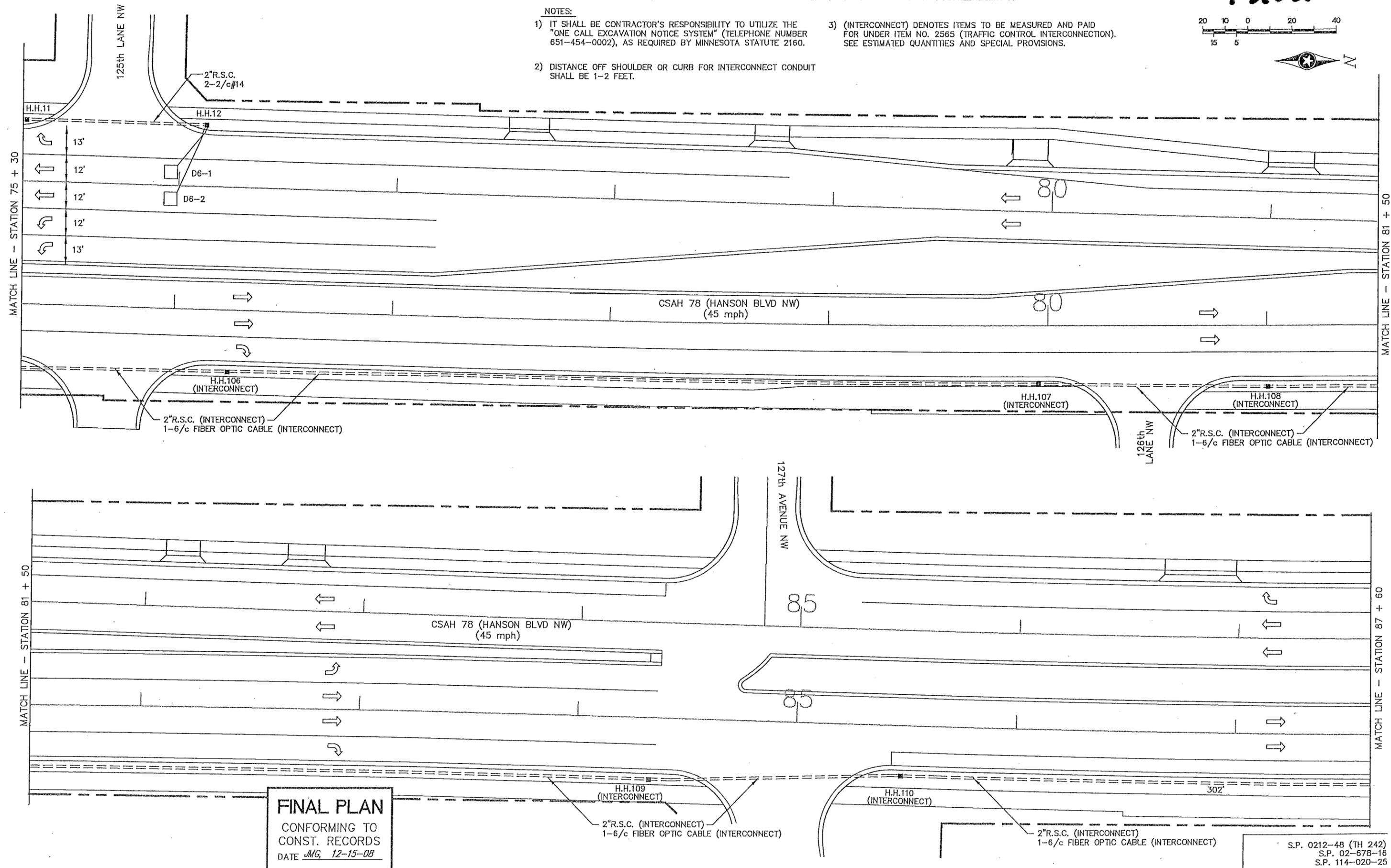
TRAFFIC SIGNAL INTERCONNECT INTERSECTION LAYOUT
 CSAH 78 (HANSON BLVD NW)
 (STATION 63 + 00 TO STATION 69 + 10)

FILE NO. 252
 AANOKC0601.00
 SIGNAL SHEET 11 OF 38
 40C

7282



- 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 (TRAFFIC CONTROL INTERCONNECTION). SEE ESTIMATED QUANTITIES AND SPECIAL PROVISIONS.



FINAL PLAN
 CONFORMING TO
 CONST. RECORDS
 DATE *JMG, 12-15-08*

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

NO.	BY	DATE	REVISIONS
1	JMG	01/06	REVISED PER COUNTY AND STATE COMMENTS
2	JMG	12/08	RECORD DRAWING

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[Signature] Name: John M. Gray, PE
 Date: November 28, 2008 Lic. No. 22457

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

ANOKA COUNTY, MINNESOTA
 CITY OF COON RAPIDS

**TRAFFIC SIGNAL INTERCONNECT
 INTERSECTION LAYOUT**
 CSAH 78 (HANSON BLVD NW)
 (STATION 75 + 30 TO STATION 87 + 60)

S.P. 0212-48 (TH 242)
 S.P. 02-678-16
 S.P. 114-020-25
 COON RAPIDS CITY PROJ. 01-57

FILE NO. AANOKC0601.00
 SIGNAL SHEET 15 OF 38

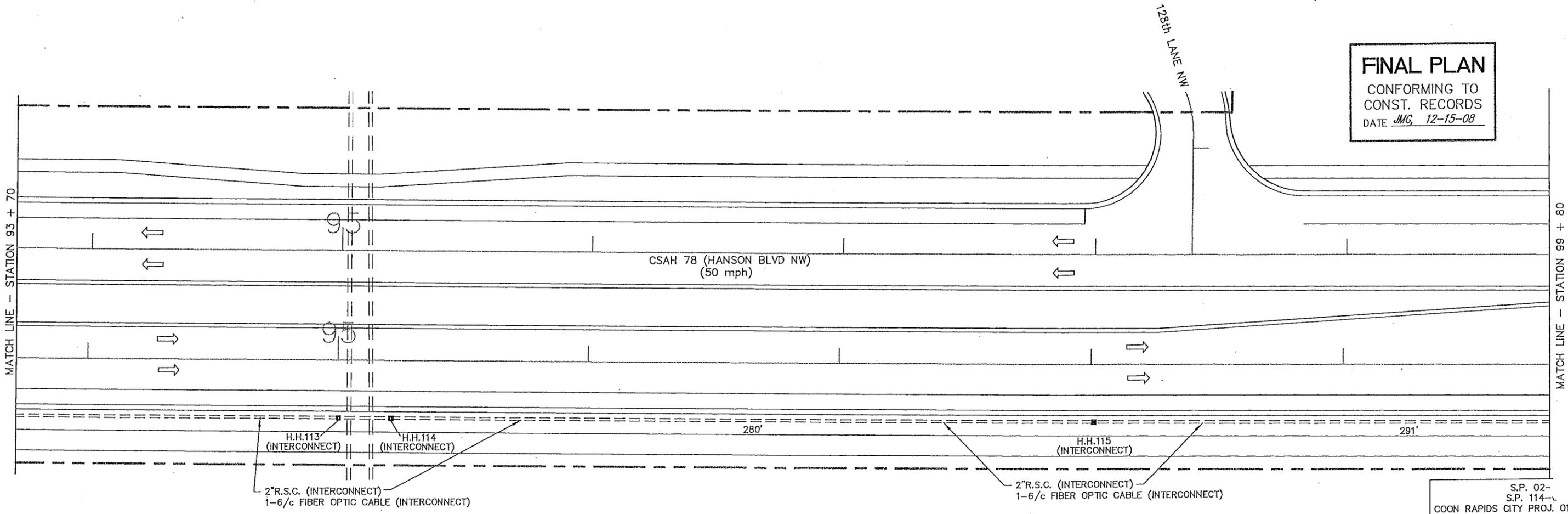
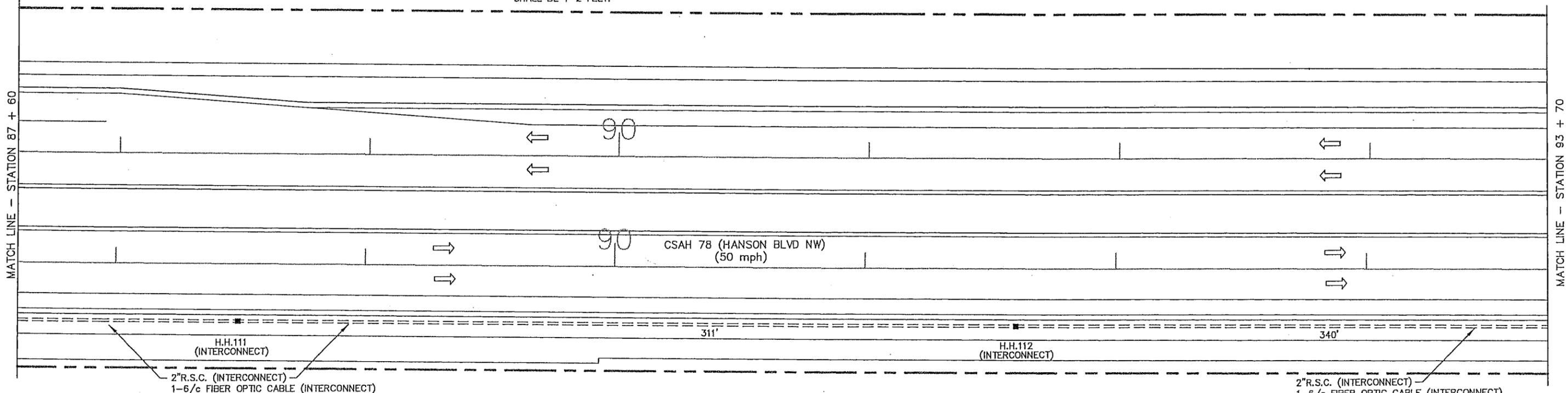
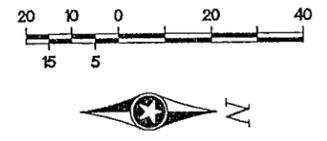
256
 40C

S:\NEW\ANOKA\COMMON\CSAH-78-SIGNALS\SIGBASE-REC.DWG

APAT

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 (TRAFFIC CONTROL INTERCONNECTION), SEE ESTIMATED QUANTITIES AND SPECIAL PROVISIONS.



FINAL PLAN
 CONFORMING TO
 CONST. RECORDS
 DATE JMG, 12-15-08

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

1	JMG	01/06
2	JMG	12/08
NO.	BY	DATE

REVISED PER COUNTY AND STATE COMMENTS
 RECORD DRAWING

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 Name: John M. Gray, PE
 Date: November 28, 2008 Lic. No. 22457

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

ANOKA COUNTY, MINNESOTA
 CITY OF COON RAPIDS

TRAFFIC SIGNAL INTERCONNECT
 INTERSECTION LAYOUT
 CSAH 78 (HANSON BLVD NW)
 (STATION 87 + 60 TO STATION 99 + 80)

FILE NO.
 AANOKC0601.00
 SIGNAL SHEET
 16 OF 38

257
 40

S.P. 02-11
 S.P. 114-2
 COON RAPIDS CITY PROJ. 01-5

NOTES:

- 1) ALL ITEMS OF THIS SIGNAL SYSTEM ARE INPLACE AND SHALL BE REUSED AND MAINTAINED INPLACE, UNLESS OTHERWISE NOTED ON PLANS.
- 2) ALL HANDHOLES ARE PVC HANDHOLES WITH METAL FRAMES AND COVERS AND ARE INPLACE (REUSE AND MAINTAIN INPLACE).
- 3) ALL PEDESTRIAN SIGNAL HEADS ARE ONE-SECTION LED "HAND/WALKING PERSON" COUNTDOWN TIMER INDICATIONS AND ARE INPLACE (REUSE AND MAINTAIN INPLACE).
- 4) ALL LOOP DETECTORS ARE INPLACE AND SHALL BE REUSED AND MAINTAINED INPLACE AND OPERATIONAL, EXCEPT AS FOLLOWS: CONTRACTOR SHALL FURNISH AND INSTALL NEW LOOP DETECTORS D1-1, D1-2, D3-2, D5-1, D5-2, AND D7-2 IN PVC PER DETAILS INCLUDED ELSEWHERE IN THESE PLANS. LOOP DETECTOR WIRES FOR NEW LOOP DETECTORS SHALL BE CROSS-LINKED POLY-ETHYLENE (XLP) #12 AWG IN 3/4" NMC. SEE SPECIAL PROVISIONS.
- 5) ANY DAMAGE TO INPLACE TRAFFIC SIGNAL FACILITIES (CONDUIT, CABLES, HANDHOLES, SIGNAL POLES, ETC.), DUE TO TRAFFIC SIGNAL REVISION WORK, SHALL BE REPAIRED BY CONTRACTOR TO SATISFACTION OF THE ENGINEER, AT NO EXPENSE TO THE COUNTY.
- 6) CONTRACTOR SHALL MAINTAIN OPERATION OF THE SIGNAL SYSTEM AT ALL TIMES, EXCEPT AS OTHERWISE APPROVED BY ENGINEER.
- 7) ALL NEW VEHICULAR SIGNAL HEADS SHALL HAVE BACKGROUND SHIELDS FURNISHED & INSTALLED BY CONTRACTOR. ALL INPLACE VEHICULAR SIGNAL HEADS BEING REUSED AS PART OF REVISE SIGNAL SYSTEM "F" HAVE BACKGROUND SHIELDS (REUSE AND MAINTAIN INPLACE).
- 8) LOCATION OF NEW LOOP DETECTORS SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- 9) F & I = NEW, FURNISH AND INSTALL.
S & I = INPLACE, SALVAGE AND INSTALL.
- 10) SEE SPECIAL PROVISIONS FOR COUNTY FURNISHED MATERIALS TO BE INSTALLED AND MADE OPERATIONAL BY CONTRACTOR.
- 11) ALL NEW VEHICULAR SIGNAL HOUSINGS, BACKGROUND SHIELDS AND VISORS SHALL BE FABRICATED USING BLACK POLYCARBONATE MATERIALS. SEE SPECIAL PROVISIONS.
- 12) SEE SPECIAL PROVISIONS & DETAILS REGARDING NEW TYPE C SIGN PANELS TO BE FURNISHED AND INSTALLED BY CONTRACTOR (TO BE INCLUDED AS PART OF PAY ITEM FOR ITEM NO. 2565-REVISE SIGNAL SYSTEM F).

① INPLACE (MAINTAIN INPLACE) PA100 POLE FOUNDATION
TYPE PA100-A-50-D40-9 (DAVIT AT 350 DEG)
PA100 SWING-AWAY HINGES
LUMINAIRE-250 W HPS
2-STRAIGHT MOUNT SIGNALS-OVERHEAD AT 8' & 20' (4-4, 4-3)
MID-MAST ARM MOUNT AT 12' (CAPPED)
1-ANGLE MOUNT SIGNAL-POLE MOUNTED 225 DEG (4-2)
2-SETS CD PED SIGNALS (ANGLE MOUNTED) AT 45/225 DEG
1-PEDESTRIAN PUSH BUTTON & SIGN (R10-4b)
2-R6-1 SIGN PANELS-POLE MOUNTED 0/180 DEG
TYPE D SIGN PANEL-OVERHEAD AT 32'
ONE WAY EVP DETECTOR AND LIGHT AT 6' (Ø4,7)
VIDEO CAMERA-MAST ARM MOUNTED AT 10' (V4/7-1)
EXTENDED INTO H.H.19:
3" RSC
1-12/c#14
2-12/c#12
3-3/c#12
1-3/c#18
1-3/c#20
1-3/c#12 (LUM)
1-1/c#6 (GRD)

INPLACE (REMOVE) 2-ONE WAY SIGNALS AND TWO-WAY MOUNT-OVERHEAD (OLD 3-1, 7-2)
ONE WAY SIGNAL AND MOUNT-POLE MOUNTED 45 DEG (OLD 1-3)
F & I 2-ONE WAY SIGNALS AND TWO-WAY MOUNT-OVERHEAD (NEW 3-1, NEW 7-2)
1-ONE WAY SIGNAL AND ANGLE MOUNT-POLE MOUNTED 45 DEG (NEW 1-3)
R10-X12 SIGN PANEL-ADJACENT TO 7-2

② INPLACE (MAINTAIN INPLACE) PA100 POLE FOUNDATION
TYPE PA100-A-55-D40-9 (DAVIT AT 350 DEG)
PA100 SWING-AWAY HINGES
LUMINAIRE-250 W HPS
2-STRAIGHT MOUNT SIGNALS-OVERHEAD AT 12' & 24' (6-4, 6-3)
1-ANGLE MOUNT SIGNAL-POLE MOUNTED 225 DEG (6-2)
2-SETS CD PED SIGNALS (ANGLE MOUNTED) AT 45/225 DEG
1-PEDESTRIAN PUSH BUTTON & SIGN (R10-4b)
2-R6-1 SIGN PANELS-POLE MOUNTED 0/180 DEG
2-TYPE D SIGN PANELS-OVERHEAD AT 16' AND 30'
VIDEO CAMERA-MAST ARM MOUNTED AT 8' (V6/1-1)
EXTENDED INTO H.H.4:
3" RSC
3-12/c#12
2-3/c#12
1-3/c#18
1-3/c#20
1-3/c#12 (LUM)
1-1/c#6 (GRD)

INPLACE (REMOVE) 2-ONE WAY SIGNALS AND TWO-WAY MOUNT-OVERHEAD (OLD 1-2, 5-1)
ONE WAY SIGNAL AND MOUNT-POLE MOUNTED 45 DEG (OLD 3-3)
INPLACE ONE WAY EVP DETECTOR AND LIGHT-OVERHEAD AT 6' (Ø6,1)
(S & I)
F & I 5-FOOT MAST ARM EXTENSION
1-ONE WAY SIGNAL AND ONE-WAY ANGLE MOUNT-OVERHEAD AT END OF EXTENSION (NEW 1-2)
1-ONE WAY SIGNAL AND STRAP-ON MID-MAST ARM MOUNT-OVERHEAD AT 4' FROM END OF MAST ARM (NEW 1-1)
1-ONE WAY SIGNAL AND ANGLE MOUNT-POLE MOUNTED 45 DEG (NEW 3-3)
3/4" RSC EXTENSION FOR EVP DETECTOR AND LIGHT (NEAR HEAD 1-1)
R10-X12 SIGN PANEL-NEAR END OF MAST ARM

Ⓐ INPLACE (MAINTAIN INPLACE) EQUIPMENT PAD FOUNDATION
CONTROLLER AND CABINET
SIGNAL SERVICE CABINET
CONTROLLER CABINET TO H.H.1:
2-4" RSC
5-12/c#14
1-3/c#14
17-2/c#14
3-12/c#12
2-3/c#12
2-3/c#18 (VIDEO)
2-3/c#20
1-6 MM/6 SM FO CABLE
1-12 SM FO CABLE

INPLACE (MAINTAIN INPLACE) CONTROLLER CABINET TO H.H.19:
2-4" RSC
6-12/c#14
1-3/c#14
17-2/c#14
2-12/c#12
3-3/c#12
2-3/c#18 (VIDEO)
2-3/c#20
1-6 MM/6 SM FO CABLE
1-6/c FO CABLE

INPLACE (MAINTAIN INPLACE) SERVICE CABINET TO CONTROLLER CABINET:
METERED SIGNAL SERVICE
2" RSC
3-1/c#6
SERVICE CABINET TO H.H.1:
UNMETERED STREET LIGHT SERVICE
2" RSC
1-3/c#14 (LUM)
1-3/c#12 (LUM)
4-1/c#6 (GRD)
SERVICE CABINET TO H.H.19:
UNMETERED STREET LIGHT SERVICE
2" RSC
1-3/c#14 (LUM)
1-3/c#12 (LUM)
4-1/c#6 (GRD)

③ INPLACE (MAINTAIN INPLACE) PA100 POLE FOUNDATION
TYPE PA100-A-50-D40-9 (DAVIT AT 350 DEG)
PA100 SWING-AWAY HINGES
LUMINAIRE-250 W HPS
2-STRAIGHT MOUNT SIGNALS-OVERHEAD AT 12' & 24' (8-4, 8-3)
1-ANGLE MOUNT SIGNAL-POLE MOUNTED 225 DEG (8-2)
2-SETS CD PED SIGNALS (ANGLE MOUNTED) AT 45/225 DEG
1-PEDESTRIAN PUSH BUTTON & SIGN (R10-4b)
2-R6-1 SIGN PANELS-POLE MOUNTED 0/180 DEG
TYPE D SIGN PANEL-OVERHEAD AT 30'
ONE WAY EVP DETECTOR AND LIGHT AT 6' (Ø8,3)
VIDEO CAMERA-MAST ARM MOUNTED AT 10' (V8/3-1)
EXTENDED INTO H.H.9A:
3" RSC
3-12/c#14
1-3/c#14
1-2/c#14
1-3/c#18
1-3/c#20
1-3/c#14 (LUM)
1-1/c#6 (GRD)

INPLACE (REMOVE) 2-ONE WAY SIGNALS AND TWO-WAY MOUNT-OVERHEAD (OLD 3-2, 7-1)
ONE WAY SIGNAL AND MOUNT-POLE MOUNTED 45 DEG (OLD 5-3)
F & I 2-ONE WAY SIGNALS AND TWO-WAY MOUNT-OVERHEAD (NEW 3-2, NEW 7-1)
1-ONE WAY SIGNAL AND ANGLE MOUNT-POLE MOUNTED 45 DEG (NEW 5-3)
R10-X12 SIGN PANEL-ADJACENT TO 3-2

⑤⑥ INPLACE (MAINTAIN INPLACE) PEDESTAL FOUNDATION
12' PEDESTAL POLE, BASE, WIND COLLAR
ONE WAY SIGNAL-POLE MOUNTED
1-PEDESTRIAN PUSH BUTTON & SIGN (R10-4b)
EXTENDED INTO H.H. 1, 5A, 10, 15A:
3" RSC
1-12/c#14
1-2/c#14
1-1/c#6 (GRD)

④ INPLACE (MAINTAIN INPLACE) PA100 POLE FOUNDATION
TYPE PA100-A-55-D40-9 (DAVIT AT 350 DEG)
PA100 SWING-AWAY HINGES
LUMINAIRE-250 W HPS
2-STRAIGHT MOUNT SIGNALS-OVERHEAD AT 15' & 30' (2-4, 2-3)
1-ANGLE MOUNT SIGNAL-POLE MOUNTED 225 DEG (2-2)
2-SETS CD PED SIGNALS (ANGLE MOUNTED) AT 45/225 DEG
1-PEDESTRIAN PUSH BUTTON & SIGN (R10-4b)
2-R6-1 SIGN PANELS-POLE MOUNTED 0/180 DEG
2-TYPE D SIGN PANELS-OVERHEAD AT 22' AND 40'
VIDEO CAMERA-MAST ARM MOUNTED AT 8' (V2/5-1)
EXTENDED INTO H.H.15A:
3" RSC
3-12/c#14
1-3/c#14
1-2/c#14
1-3/c#18
1-3/c#20
1-3/c#14 (LUM)
1-1/c#6 (GRD)

INPLACE (REMOVE) 2-ONE WAY SIGNALS AND TWO-WAY MOUNT-OVERHEAD (OLD 1-1, 5-2)
ONE WAY SIGNAL AND MOUNT-POLE MOUNTED 45 DEG (OLD 7-3)
INPLACE ONE WAY EVP DETECTOR AND LIGHT-OVERHEAD AT 6' (Ø2,5)
(S & I)
F & I 5-FOOT MAST ARM EXTENSION
1-ONE WAY SIGNAL AND ONE-WAY ANGLE MOUNT-OVERHEAD AT END OF EXTENSION (NEW 5-2)
1-ONE WAY SIGNAL AND STRAP-ON MID-MAST ARM MOUNT-OVERHEAD AT 5' FROM END OF MAST ARM (NEW 5-1)
1-ONE WAY SIGNAL AND ANGLE MOUNT-POLE MOUNTED 45 DEG (NEW 7-3)
3/4" RSC EXTENSION FOR EVP DETECTOR AND LIGHT (NEAR HEAD 5-1)
R10-X12 SIGN PANEL-NEAR END OF MAST ARM

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

NO.	BY	DATE	REVISIONS

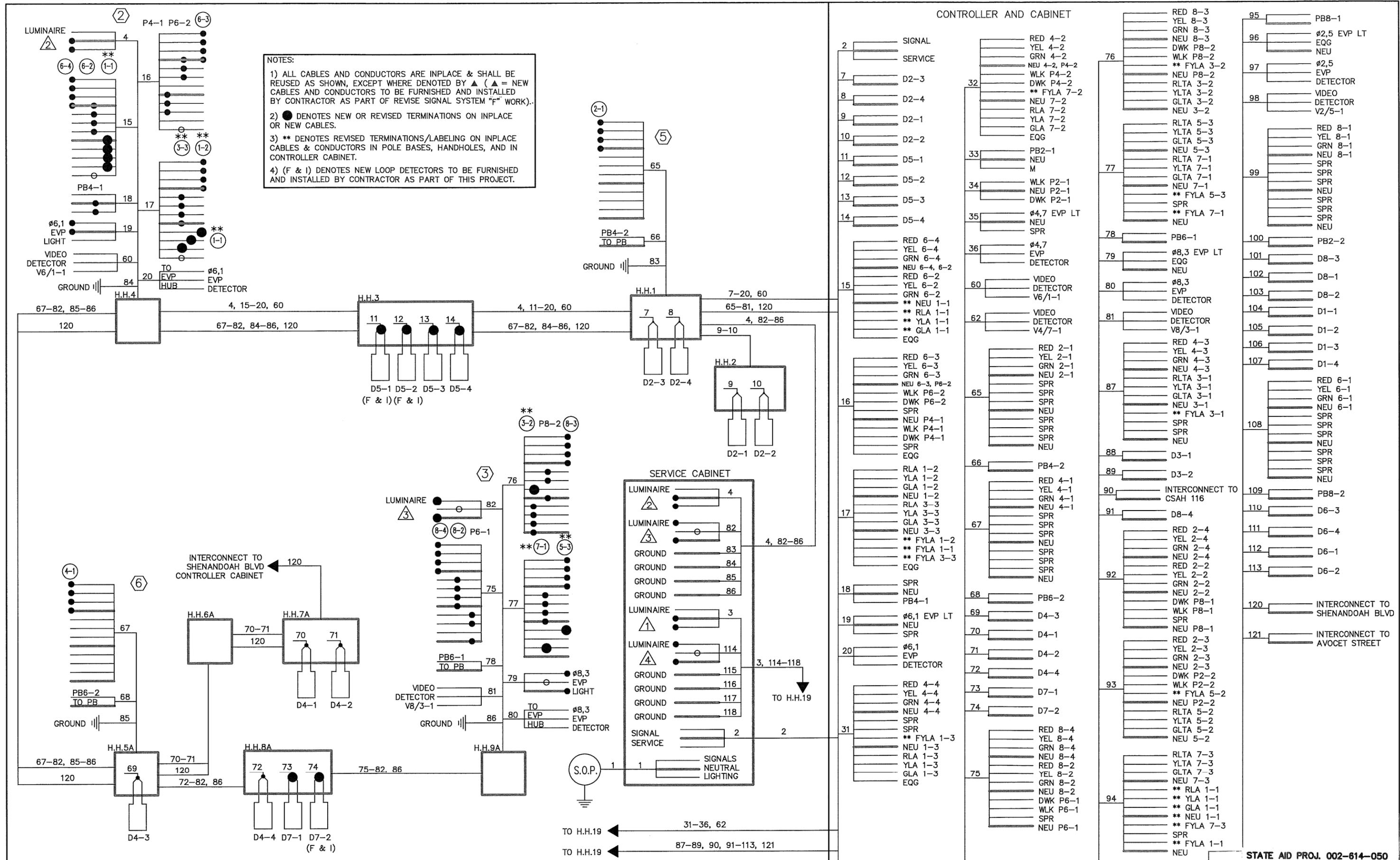
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John M. Gray
Date: August 21, 2020 Name: John M. Gray, PE Lic. No. 22457

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

ANOKA COUNTY
CITY OF COON RAPIDS

REVISE SIGNAL SYSTEM "F"
POLE AND GENERAL NOTES
CSAH 14 (MAIN STREET) AT CSAH 78 (HANSON BLVD)

FILE NO.
ANOKC 153783



NOTES:

- 1) ALL CABLES AND CONDUCTORS ARE INPLACE & SHALL BE REUSED AS SHOWN, EXCEPT WHERE DENOTED BY ▲ (▲ = NEW CABLES AND CONDUCTORS TO BE FURNISHED AND INSTALLED BY CONTRACTOR AS PART OF REVISE SIGNAL SYSTEM "F" WORK).
- 2) ● DENOTES NEW OR REVISED TERMINATIONS ON INPLACE OR NEW CABLES.
- 3) ** DENOTES REVISED TERMINATIONS/LABELING ON INPLACE CABLES & CONDUCTORS IN POLE BASES, HANDHOLES, AND IN CONTROLLER CABINET.
- 4) (F & I) DENOTES NEW LOOP DETECTORS TO BE FURNISHED AND INSTALLED BY CONTRACTOR AS PART OF THIS PROJECT.

CONTROLLER AND CABINET	
2	SIGNAL
7	SERVICE
8	D2-3
9	D2-4
10	D2-1
11	D2-2
12	D5-1
13	D5-2
14	D5-3
15	D5-4
16	RED 6-4 YEL 6-4 GRN 6-4 NEU 6-4, 6-2 ** NEU 1-1 ** RLA 1-1 ** YLA 1-1 ** GLA 1-1 EQG
17	RED 6-3 YEL 6-3 GRN 6-3 NEU 6-3, P6-2 WLK P6-2 DWK P6-2 SPR NEU P4-1 WLK P4-1 DWK P4-1 SPR EQG
18	RLA 1-2 YLA 1-2 GLA 1-2 NEU 1-2 RLA 3-3 YLA 3-3 GLA 3-3 NEU 3-3 ** FYLA 1-2 ** FYLA 1-1 ** FYLA 3-3 EQG
19	SPR NEU PB4-1
20	Ø6,1 EVP LT NEU SPR Ø6,1 EVP DETECTOR
31	RED 4-4 YEL 4-4 GRN 4-4 NEU 4-4 SPR SPR ** FYLA 1-3 NEU 1-3 RLA 1-3 YLA 1-3 GLA 1-3 EQG
32	RED 4-2 YEL 4-2 GRN 4-2 NEU 4-2, P4-2 WLK P4-2 DWK P4-2 ** FYLA 7-2 NEU 7-2 RLA 7-2 YLA 7-2 GLA 7-2 EQG
33	PB2-1 NEU M
34	WLK P2-1 NEU P2-1 DWK P2-1
35	Ø4,7 EVP LT NEU SPR
36	Ø4,7 EVP DETECTOR
60	VIDEO DETECTOR V6/1-1
62	VIDEO DETECTOR V4/7-1
65	RED 2-1 YEL 2-1 GRN 2-1 NEU 2-1 SPR SPR SPR SPR NEU SPR SPR SPR NEU
66	PB4-2
67	RED 4-1 YEL 4-1 GRN 4-1 NEU 4-1 SPR SPR SPR SPR NEU
68	PB6-2
69	D4-3
70	D4-1
71	D4-2
72	D4-4
73	D7-1
74	D7-2
75	RED 8-4 YEL 8-4 GRN 8-4 NEU 8-4 RED 8-2 YEL 8-2 GRN 8-2 NEU 8-2 DWK P6-1 WLK P6-1 SPR NEU P6-1
76	RED 8-3 YEL 8-3 GRN 8-3 NEU 8-3 DWK P8-2 WLK P8-2 ** FYLA 3-2 NEU P8-2 RLTA 3-2 YLTA 3-2 GLTA 3-2 NEU 3-2 RLTA 5-3 YLTA 5-3 GLTA 5-3 NEU 5-3 RLTA 7-1 YLTA 7-1 GLTA 7-1 NEU 7-1 ** FYLA 5-3 SPR ** FYLA 7-1 NEU
77	PB6-1 Ø8,3 EVP LT EQG NEU Ø8,3 EVP DETECTOR VIDEO DETECTOR V8/3-1 RED 4-3 YEL 4-3 GRN 4-3 NEU 4-3 RLTA 3-1 YLTA 3-1 GLTA 3-1 NEU 3-1 ** FYLA 3-1 SPR SPR SPR NEU D3-1 D3-2
78	PB6-1
79	Ø8,3 EVP LT EQG NEU
80	Ø8,3 EVP DETECTOR
81	VIDEO DETECTOR V8/3-1
87	RED 2-4 YEL 2-4 GRN 2-4 NEU 2-4 RED 2-2 YEL 2-2 GRN 2-2 NEU 2-2 DWK P8-1 WLK P8-1 SPR NEU P8-1 RED 2-3 YEL 2-3 GRN 2-3 NEU 2-3 DWK P2-2 WLK P2-2 ** FYLA 5-2 NEU P2-2 RLTA 5-2 YLTA 5-2 GLTA 5-2 NEU 5-2
88	D3-1
89	D3-2
90	INTERCONNECT TO CSAH 116
91	D8-4
92	RED 2-4 YEL 2-4 GRN 2-4 NEU 2-4 RED 2-2 YEL 2-2 GRN 2-2 NEU 2-2 DWK P8-1 WLK P8-1 SPR NEU P8-1 RED 2-3 YEL 2-3 GRN 2-3 NEU 2-3 DWK P2-2 WLK P2-2 ** FYLA 5-2 NEU P2-2 RLTA 5-2 YLTA 5-2 GLTA 5-2 NEU 5-2
93	RLTA 7-3 YLTA 7-3 GLTA 7-3 NEU 7-3 ** RLA 1-1 ** YLA 1-1 ** GLA 1-1 ** NEU 1-1 ** FYLA 7-3 SPR ** FYLA 1-1 NEU
94	RLTA 7-3 YLTA 7-3 GLTA 7-3 NEU 7-3 ** RLA 1-1 ** YLA 1-1 ** GLA 1-1 ** NEU 1-1 ** FYLA 7-3 SPR ** FYLA 1-1 NEU
95	PB8-1
96	Ø2,5 EVP LT EQG NEU
97	Ø2,5 EVP DETECTOR
98	VIDEO DETECTOR V2/5-1
99	RED 8-1 YEL 8-1 GRN 8-1 NEU 8-1 SPR SPR SPR SPR SPR NEU
100	PB2-2
101	D8-3
102	D8-1
103	D8-2
104	D1-1
105	D1-2
106	D1-3
107	D1-4
108	RED 6-1 YEL 6-1 GRN 6-1 NEU 6-1 SPR SPR SPR SPR NEU SPR SPR SPR NEU
109	PB8-2
110	D6-3
111	D6-4
112	D6-1
113	D6-2
120	INTERCONNECT TO SHENANDOAH BLVD
121	INTERCONNECT TO AVOCET STREET

2020FYA-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.
 Date: August 21, 2020 Name: John M. Gray, PE Lic. No. 22457

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

ANOKA COUNTY
 CITY OF COON RAPIDS

REVISE SIGNAL SYSTEM "F"
 FIELD WIRING DIAGRAM
 CSAH 14 (MAIN STREET) AT CSAH 78 (HANSON BLVD)

STATE AID PROJ. 002-614-050
 FILE NO. ANOKC 153783
 36
 55

