

PVC LOOP DETECTORS				
NUMBER	SIZE (FT.)	LOCATION	FUNCTION	STATUS
D1-1, D1-3	2-6x6	10' & 40'	1	1
D1-2, D1-4	2-6x6	-5' & 25'	1	2
D2-1, D2-2	6x6	475'	1	INPLACE
D3-1, D7-1	2-6x6	20' & 50'	1	INPLACE
D3-2, D7-2	2-6x6	5' & 35'	1	INPLACE
D4-1	6x6	120'	3	INPLACE
D4-2, D8-2	2-6x6	5' & 20'	1	INPLACE
D4-3, D8-3	3-6x6	-20', -5', 10'	7	INPLACE
D5-1	2-6x6	10' & 40'	1	1
D5-2	2-6x6	-5' & 25'	1	2
D6-1, D6-2	6x6	400'	1	INPLACE
D7-1	2-6x6	20' & 50'	1	INPLACE
D7-2	2-6x6	5' & 35'	1	INPLACE
D8-1	6x6	400'	3	INPLACE

LOOP DETECTORS FUNCTIONS:

- 1) CALL AND EXTEND
- 3) EXTEND ONLY
- 7) DELAYED CALL, IMMEDIATE EXTEND

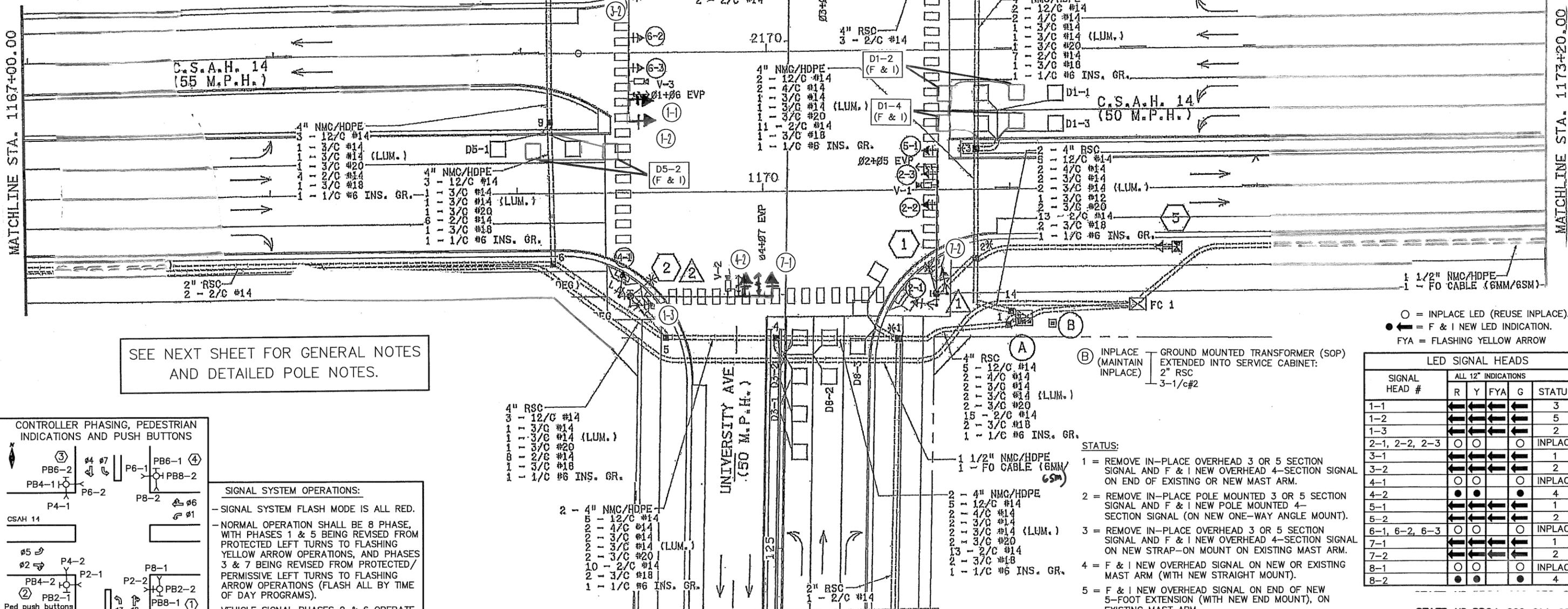
LOOP DETECTOR STATUS:

1 = 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.

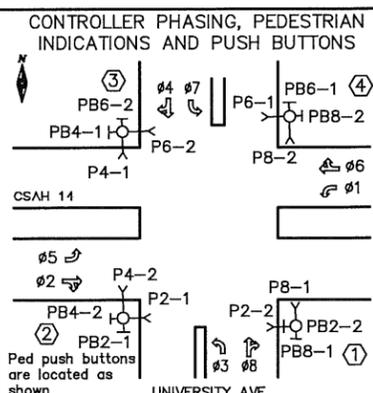
2 = FURNISH & INSTALL NEW PVC LOOP DETECTORS AT -5' AND 25' FROM STOP BAR. SPLICE THESE NEW LOOP DETECTORS TO EXISTING FRONT LEAD-IN CABLE (F & I NEW SPLICE KIT).

LOCATION = DISTANCE FROM STOP BAR TO FRONT OF DETECTOR.

NOTE: WHEN INSTALLING NEW LOOP DETECTORS D1-2, D1-4 AND D5-2, ENSURE THAT ALL EXISTING LOOP DETECTOR ROADWAY CONDUITS (TO D1-1, D1-3 AND D5-1) 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 CONTRACTOR TO FULLY REPLACE THE DAMAGED PVC LOOP DETECTORS ALL AT NO EXPENSE TO THE COUNTY.

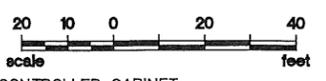


SEE NEXT SHEET FOR GENERAL NOTES AND DETAILED POLE NOTES.



SIGNAL SYSTEM OPERATIONS:

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



○ = 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
1-2	←	←	←	←	5
1-3	←	←	←	←	2
2-1, 2-2, 2-3	○	○	○	○	INPLACE
3-1	←	←	←	←	1
3-2	←	←	←	←	2
4-1	○	○	○	○	INPLACE
4-2	●	●	●	●	4
5-1	←	←	←	←	1
5-2	←	←	←	←	2
6-1, 6-2, 6-3	○	○	○	○	INPLACE
7-1	←	←	←	←	1
7-2	←	←	←	←	2
8-1	○	○	○	○	INPLACE
8-2	●	●	●	●	4

2020FVA-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: August 21, 2020

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

ANOKA COUNTY
CITIES OF BLAINE AND COON RAPIDS

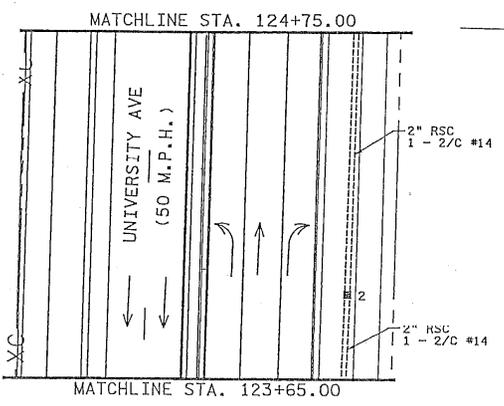
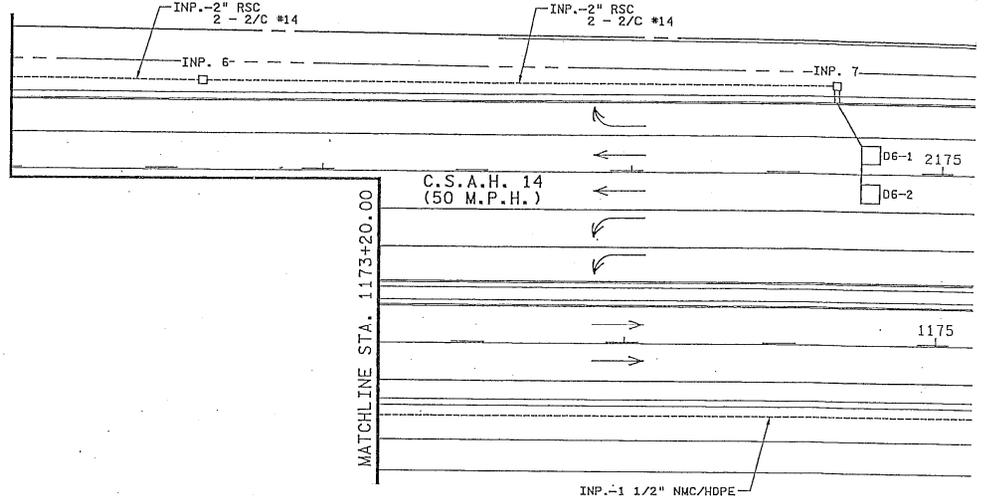
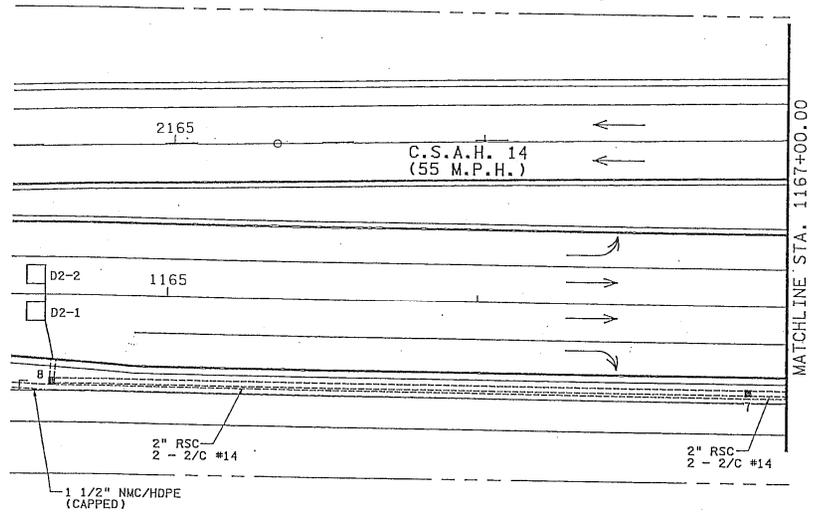
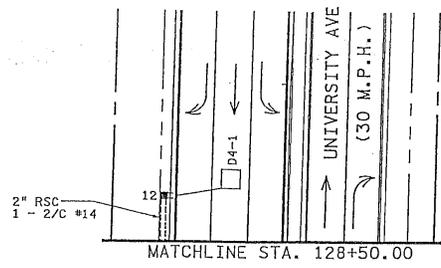
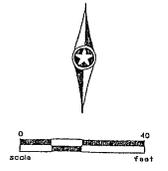
REVISE SIGNAL SYSTEM 'C'
INTERSECTION LAYOUT
 CSAH 14 (125TH AVENUE/MAIN STREET) AT CSAH 5/UNIVERSITY AVENUE

FILE NO. ANOKC 153781
 19
 55

STATE AID PROJ. 002-614-050

7285

RELEASED FOR CONSTRUCTION



POLE	STATION	OFFSET (FT)
1	1170+69.3302	41.1747 RT
2	1169+45.2360	41.0302 RT
3	1169+45.8329	88.0276 LT
4	1170+68.8855	97.9310 LT

STATIONS & OFFSETS ARE OFF OF E.B. C.S.A.H. 14

- NOTES:
1. ALL ITEMS ARE FURNISH AND INSTALL, UNLESS NOTED OTHERWISE.
 2. SEE SPECIAL PROVISIONS FOR COUNTY FURNISHED MATERIALS.
 3. THE EXACT LOCATION OF HANDHOLES AND LOOP DETECTORS, SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
 4. FOR PAVEMENT MARKINGS SEE PAVEMENT MARKING SHEETS (DP07 & DP04).
 5. THIS PLAN SPECIFIES CONDUIT SIZES, TYPES, AND GENERAL LOCATIONS. THE EXACT LOCATIONS WILL BE DETERMINED IN THE FIELD.
 6. THIS WORK TO BE COMPLETED IN CONJUNCTION WITH ROADWAY WORK.
 7. THE CONTRACTOR SHALL LOCATE AND VERIFY INPLACE UTILITIES PRIOR TO COMMENCING WORK. SEE UTILITY PLANS.

8/15/25 AM
 10/6/2011
 ...NDP_TANCD0261434_01atrr03.dgn

NO.	DATE	BY	CHKD	APPR

I hereby certify that this plan, specification, or report 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.

Print Name: **GEORGE M. STUEMPF IG**

George M. Stuempf

Date: 10/11/11 License # 21849

ANOKA COUNTY RELEASED FOR CONSTRUCTION

Charles A. Cadden

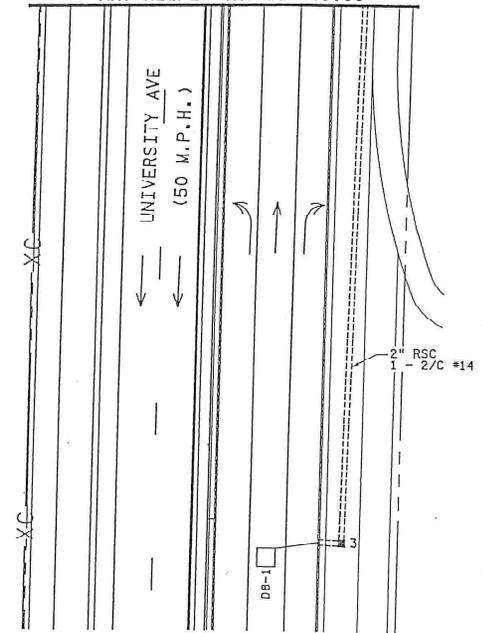


CSAH 14 DESIGN BUILD (SAP 002-614-034) SHEET
 MATCHLINE LAYOUT
 CSAH 14 & UNIVERSITY AVE (SYSTEM "C")
 C.S.A.H. 14
 DESIGN PACKAGE #074
 OF
 074T006

7285



MATCHLINE STA. 123+65.00



RELEASED FOR CONSTRUCTION

- NOTES:
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11/15/15 AM 7/7/2011 \\S:\DATA\PROJECTS\14-001\14-001-001\14-001-001.dwg

I hereby certify that this plan, specification, or report 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.

Print Name: GEORGE M. STIEPFERIG

George M. Stiepfertig

DATE: 10/19/11

ANOKA COUNTY RELEASED FOR CONSTRUCTION

Charles Cochran

10/19/11



C.S. McCrossan
Consulting Group, Inc.

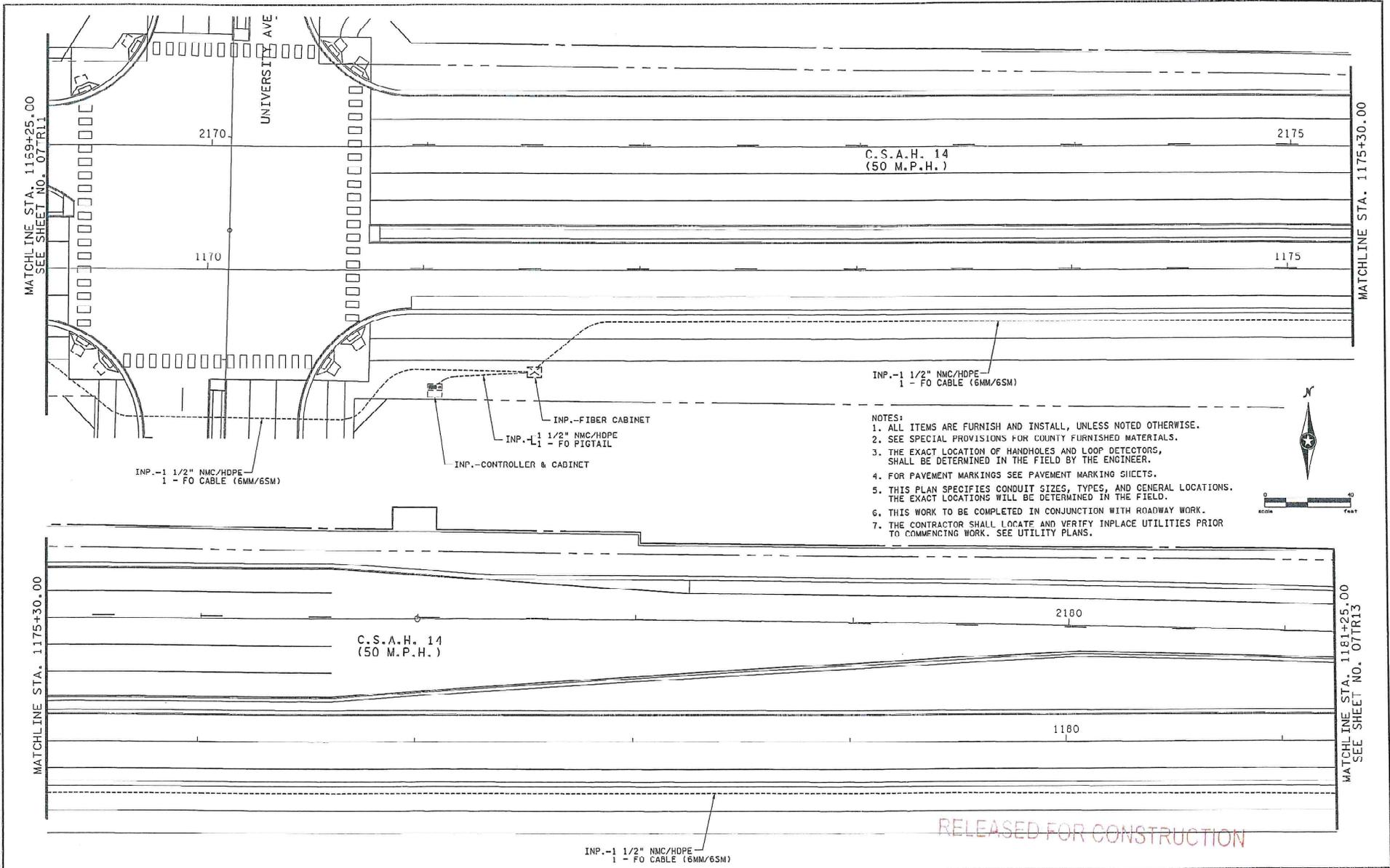


CSAH 14 DESIGN BUILD (SAP 002-614-034)

MATCHLINE LAYOUT
CSAH 14 & UNIVERSITY AVE (SYSTEM "C")
C.S.A.H. 14
DESIGN PACKAGE 001

SHEET
07ATRO4
OF
07ATRO4

7285



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RELEASED FOR CONSTRUCTION

12/25/08 P:\12/25/08 3:45:14 PM - 40' Plan.dwg - 11/25/08 10:44:12 AM - 11/25/08 10:44:12 AM - 11/25/08 10:44:12 AM

NO.	DATE	BY	CRD	APPD

I hereby certify that this plan, specification or report 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.

Print Name: **GEORGE M. STUEMPF IG**

Date: *12/25/08* License #: **21849**

ANOKA COUNTY RELEASED FOR CONSTRUCTION

Charles Bellamy

Date: *12/31/08* ANOKA COUNTY

SRI **C.S. McCrossan**
Consulting Group, Inc.



CSAH 14 DESIGN BUILD (SAP 002-614-034)

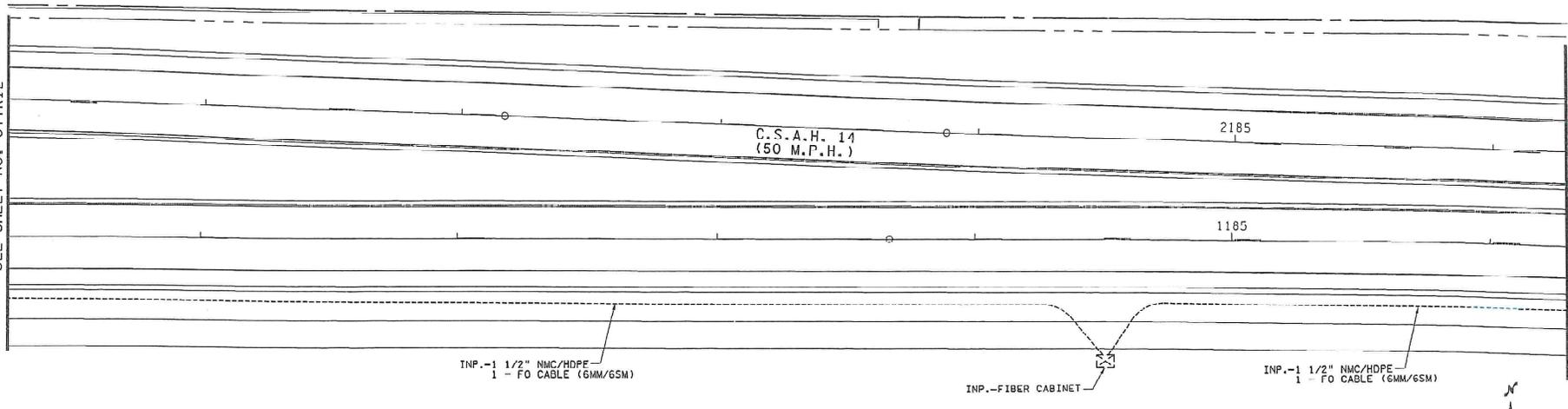
INTERCONNECT LAYOUT
C.S.A.H. 14
DESIGN PACKAGE #07

SHEET
07TR12
OF
07TR16

7285

MATCHLINE STA. 1181+25.00
SEE SHEET NO. 07TR12

MATCHLINE STA. 1186+30.00



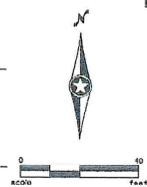
INP.-1 1/2" NMC/HDPE
1 - FO CABLE (6MM/6SM)

INP.-FIBER CABINET

INP.-1 1/2" NMC/HDPE
1 - FO CABLE (6MM/6SM)

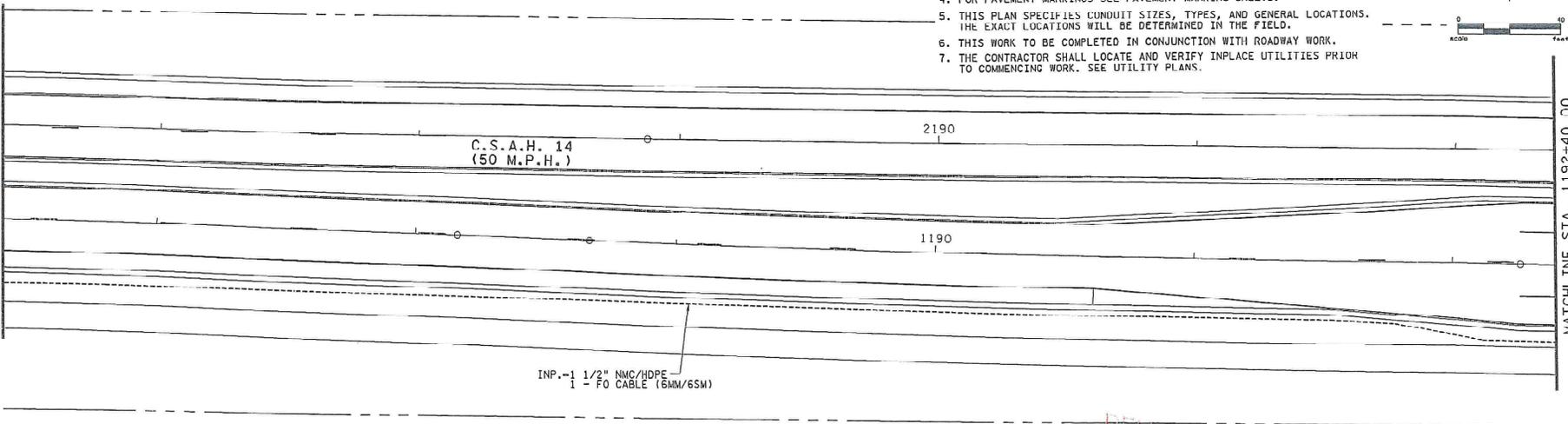
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MATCHLINE STA. 1186+30.00

MATCHLINE STA. 1192+40.00
SEE SHEET NO. 07TR14



C.S.A.H. 14
(50 M.P.H.)

INP.-1 1/2" NMC/HDPE
1 - FO CABLE (6MM/6SM)

RELEASED FOR CONSTRUCTION

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3/23/12
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NO.	DATE	BY	CKD	APPR

I hereby certify that this plan, specification, or report 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.

Print Name: **GEORGE M. STUEMPF I G**

George M. Stuempf I G

Date: *3/23/12* License: **21849**

ANKA COUNTY RELEASED FOR CONSTRUCTION

George M. Stuempf I G

Date: *3/23/12* ANOKA COUNTY

SRH **C.S. McCrossan**
Consulting Group, Inc.

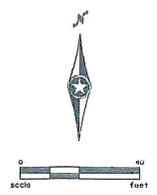


CSAH 14 DESIGN BUILD (SAP 002-614-034)

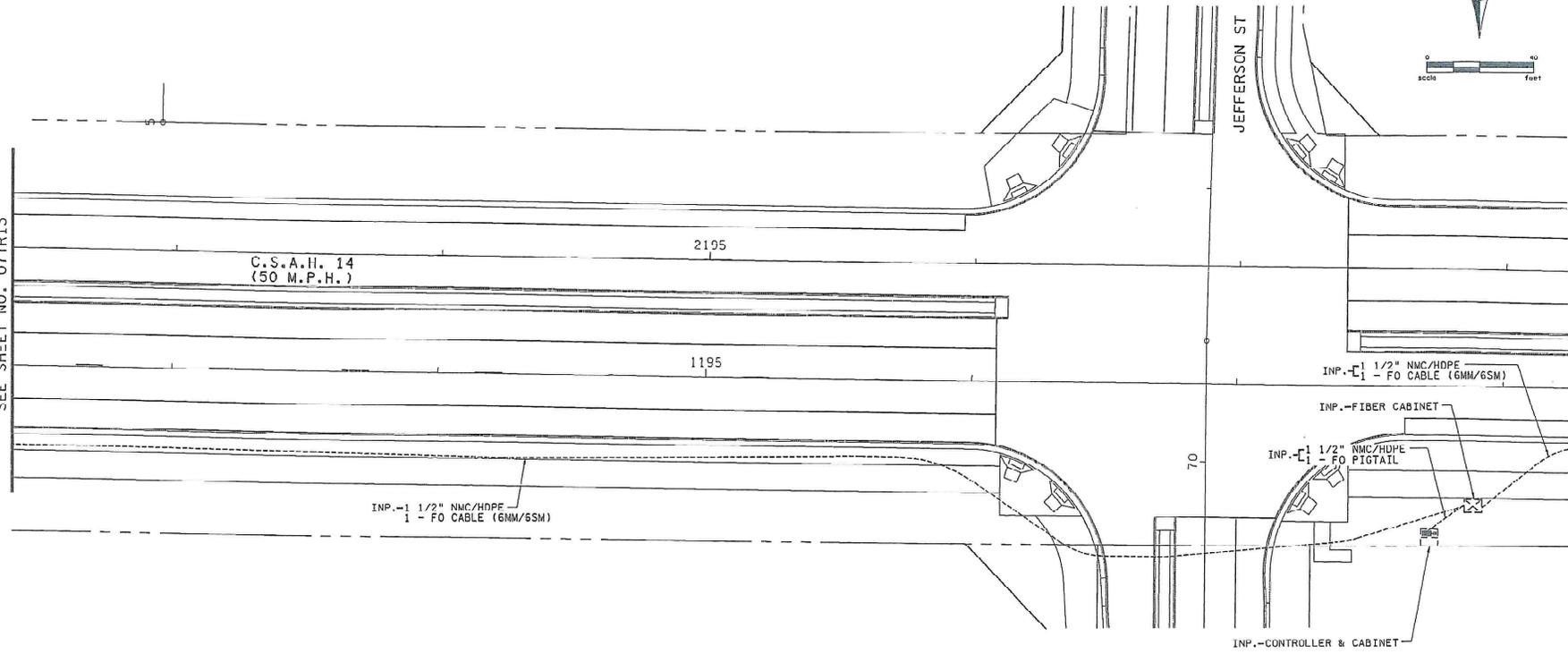
INTERCONNECT LAYOUT
C.S.A.H. 14
DESIGN PACKAGE #07

SHEET
07TR13
OF
07TR16

7285



MATCHLINE STA. 1192+40.00
SEE SHEET NO. 07TR13



1. ALL ITEMS ARE FURNISH AND INSTALL, UNLESS NOTED OTHERWISE.
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7. THE CONTRACTOR SHALL LOCATE AND VERIFY INPLACE UTILITIES PRIOR TO COMMENCING WORK. SEE UTILITY PLANS.

RELEASED FOR CONSTRUCTION

3/23/14 10:28 AM
C:\Users\jstueffig\OneDrive\Documents\Projects\14\14_07TR14.dgn

NO.	DATE	BY	CHKD	APPR

I hereby certify that this plan, specification or report 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.

Print Name: **GEORGE M. STUEFFIG**

George M. Stueffig

Date: 3/23/14 License # 21849

ANKA COUNTY RELEASED FOR CONSTRUCTION

Christy Hallock

Date: 3/23/14 ANOKA COUNTY

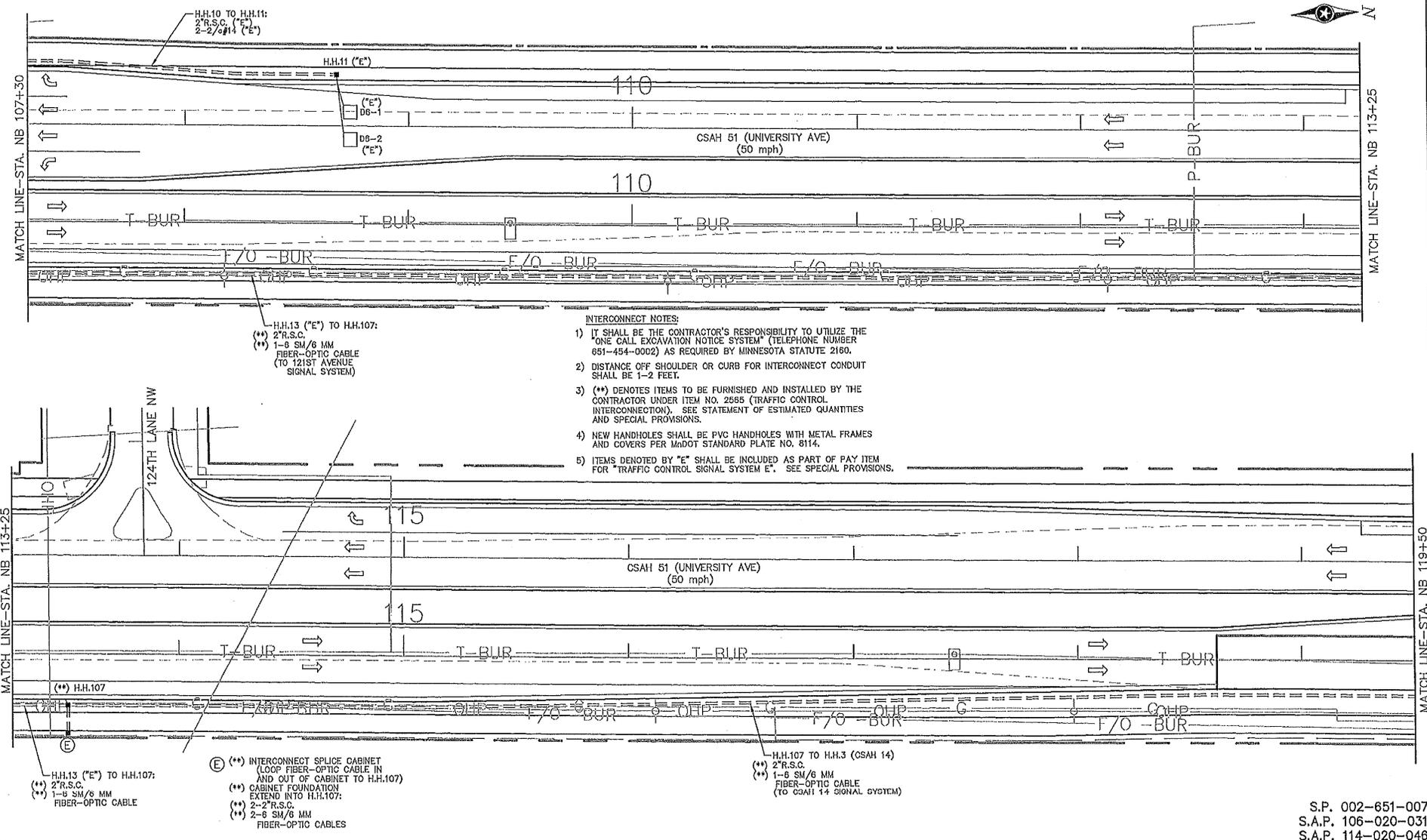
SRH **C.S. McCrossan**
Consulting Group, Inc.



CSAH 14 DESIGN BUILD (SAP 002-614-034)

INTERCONNECT LAYOUT
C.S.A.H. 14
DESIGN PACKAGE #07

SHEET
07TR14
OF
07TR16



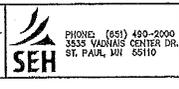
- INTERCONNECT NOTES:**
- 1) IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO UTILIZE THE "ONE CALL EXCAVATION NOTICE SYSTEM" (TELEPHONE NUMBER 651-454-0002) AS REQUIRED BY MINNESOTA STATUTE 2160.
 - 2) DISTANCE OFF SHOULDER OR CURB FOR INTERCONNECT CONDUIT SHALL BE 1-2 FEET.
 - 3) (** DENOTES ITEMS TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNDER ITEM NO. 2685 (TRAFFIC CONTROL INTERCONNECTION). SEE STATEMENT OF ESTIMATED QUANTITIES AND SPECIAL PROVISIONS.
 - 4) NEW HANDHOLES SHALL BE PVC HANDHOLES WITH METAL FRAMES AND COVERS PER MDOT STANDARD PLATE NO. 8114.
 - 5) ITEMS DENOTED BY "E" SHALL BE INCLUDED AS PART OF PAY ITEM FOR "TRAFFIC CONTROL SIGNAL SYSTEM E". SEE SPECIAL PROVISIONS.

S.P. 002-651-007
 S.A.P. 106-020-031
 S.A.P. 114-020-046

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

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY CLOSEST SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Name: John M. Gray, P.E.
 Date: December 17, 2013
 License No.: 224327



ANOKA COUNTY
CITIES OF BLAINE
AND COON RAPIDS

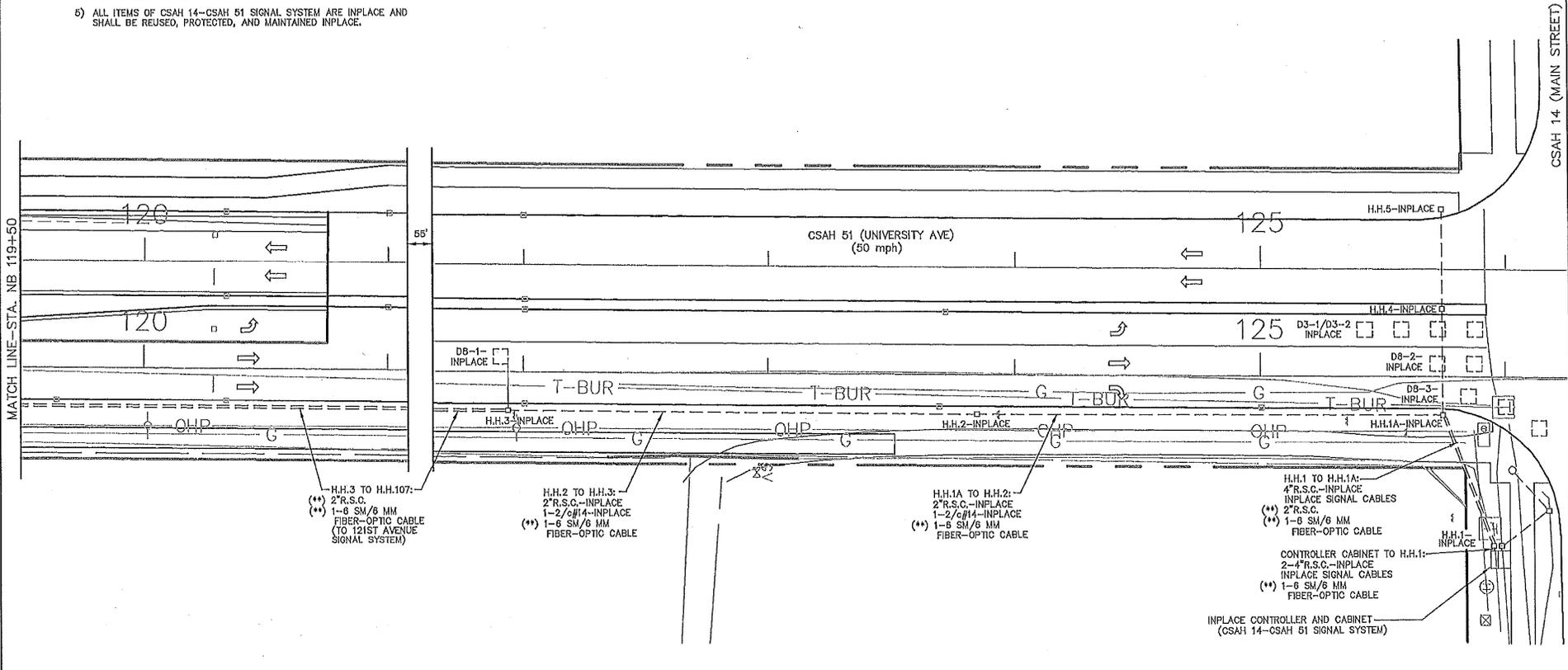
SIGNAL SYSTEM 'E'/INTERCONNECT
INTERSECTION LAYOUT
CSAH 51 (UNIVERSITY AVE)
(121ST AVENUE TO CSAH 14)

FILE NO. ANOKO 128457
SIGNAL SHEET 27 OF 39

7285



- 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. 2585 (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. 8114.
 - 5) ALL ITEMS OF CSAH 14--CSAH 51 SIGNAL SYSTEM ARE INPLACE AND SHALL BE REUSED, PROTECTED, AND MAINTAINED INPLACE.



H.H.3 TO H.H.107:
(**) 2'R.S.C.
(**) 1-6 SM/8 MM
FIBER-OPTIC CABLE
(TO 121ST AVENUE
SIGNAL SYSTEM)

H.H.2 TO H.H.3:
2'R.S.C.-INPLACE
1-2/c#14-INPLACE
(**) 1-6 SM/8 MM
FIBER-OPTIC CABLE

H.H.1A TO H.H.2:
2'R.S.C.-INPLACE
1-2/c#14-INPLACE
(**) 1-6 SM/8 MM
FIBER-OPTIC CABLE

H.H.1 TO H.H.1A:
4'R.S.C.-INPLACE
INPLACE SIGNAL CABLES
(**) 2'R.S.C.
(**) 1-6 SM/8 MM
FIBER-OPTIC CABLE

CONTROLLER CABINET TO H.H.1:
2-4'R.S.C.-INPLACE
INPLACE SIGNAL CABLES
(**) 1-6 SM/8 MM
FIBER-OPTIC CABLE
INPLACE CONTROLLER AND CABINET
(CSAH 14--CSAH 51 SIGNAL SYSTEM)

S.P. 002-651-007
S.A.P. 106-020-031
S.A.P. 114-020-046

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: December 17, 2013 Name: John M. Gray, PE. Lic. No.: 22457



ANOKA COUNTY
CITIES OF BLAINE
AND COON RAPIDS

TRAFFIC SIGNAL INTERCONNECTION
INTERSECTION LAYOUT
CSAH 61 (UNIVERSITY AVE)
(121ST AVENUE TO CSAH 14)

FILE NO.
ANOKG 126457
SIGNAL SHEET
28 OF 39

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 D1-2, D1-4 AND D5-2 IN PVC PER DETAILS INCLUDED ELSEWHERE IN THE 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 "C" 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, AND INPLACE TYPE D SIGN PANELS TO BE SALVAGED AND REINSTALLED BY CONTRACTOR (ALL INCLUDED AS PART OF PAY ITEM FOR ITEM NO. 2565-REVISE SIGNAL SYSTEM C).

① 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 10' & 22'
 1-ANGLE MOUNT SIGNAL-POLE MOUNTED 180 DEG (2-1)
 2-SETS CD PED SIGNALS (ANGLE MOUNTED) AT 90/180 DEG
 2-PEDESTRIAN PUSH BUTTONS & SIGNS (R10-3e)
 TYPE D SIGN PANEL-OVERHEAD AT 28'
 ONE WAY EVP DETECTOR AND LIGHT AT 6' (Ø2,5)
 2-R6-1 SIGN PANELS-POLE MOUNTED 0/180 DEG
 1-VIDEO CAMERA AND 6' EXTENSION-MAST ARM MOUNTED AT 12' (FACING EB TRAFFIC) (V-1)
 EXTENDED INTO H.H.2:
 3" RSC
 3-12/c#14
 1-3/c#14
 1-3/c#18 (VIDEO)
 1-3/c#20
 2-2/c#14
 1-3/c#14 (LUM)
 1-1/c#6 (GRD)

INPLACE (REMOVE) ONE WAY SIGNAL AND MOUNT-OVERHEAD AT 0' (OLD 5-1)
 ONE WAY SIGNAL AND MOUNT-POLE MOUNTED 90 DEG (OLD 4-3)
 F & I 1-ONE WAY SIGNAL AND ANGLE MOUNT-OVERHEAD AT 0' (NEW 5-1)
 1-ONE WAY SIGNAL AND ANGLE MOUNT-POLE MOUNTED 90 DEG (NEW 7-2)
 R10-X12 SIGN PANEL-ADJACENT TO 5-1

③ 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 17' & 29'
 1-ANGLE MOUNT SIGNAL-POLE MOUNTED 180 DEG (6-1)
 2-SETS CD PED SIGNALS (ANGLE MOUNTED) AT 90/180 DEG
 2-PEDESTRIAN PUSH BUTTONS & SIGNS (R10-3e)
 TYPE D SIGN PANEL-OVERHEAD AT 33'
 2-R6-1 SIGN PANELS-POLE MOUNTED 0/180 DEG
 1-VIDEO CAMERA AND 6' EXTENSION-MAST ARM MOUNTED AT 15' (FACING WB TRAFFIC) (V-3)
 EXTENDED INTO H.H.10:
 3" RSC
 3-12/c#14
 1-3/c#14
 1-3/c#18 (VIDEO)
 1-3/c#20
 2-2/c#14
 1-3/c#14 (LUM)
 1-1/c#6 (GRD)

INPLACE (REMOVE) ONE WAY SIGNAL AND MOUNT-OVERHEAD (OLD 1-1)
 ONE WAY SIGNAL AND MOUNT-POLE MOUNTED 90 DEG (OLD 8-4)
 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 ANGLE MOUNT-OVERHEAD AT END OF EXTENSION (NEW 1-2)
 1-ONE WAY SIGNAL AND STRAP-ON MID-MAST ARM MOUNT-OVERHEAD AT 6' FROM END OF MAST ARM (NEW 1-1)
 3/4" RSC EXTENSION FOR EVP DETECTOR AND LIGHT (NEAR HEAD 1-1)
 R10-X12 SIGN PANEL-NEAR END OF MAST ARM

② INPLACE (MAINTAIN INPLACE) PA100 POLE FOUNDATION
 TYPE PA100-A-D40-9 MAST ARM POLE (DAVIT AT 350 DEG)
 LUMINAIRE-250 W HPS
 1-ANGLE MOUNT SIGNAL-POLE MOUNTED 180 DEG (4-1)
 2-SETS CD PED SIGNALS (ANGLE MOUNTED) AT 90/180 DEG
 2-PEDESTRIAN PUSH BUTTONS & SIGNS (R10-3e)
 2-R6-1 SIGN PANELS-POLE MOUNTED 0/180 DEG
 EXTENDED INTO H.H.5:
 3" RSC
 2-12/c#14
 2-4/c#14
 1-3/c#14
 1-3/c#18 (VIDEO)
 1-3/c#20
 2-2/c#14
 1-3/c#14 (LUM)
 1-1/c#6 (GRD)

INPLACE (REMOVE) 50-FOOT MAST ARM
 ONE WAY SIGNAL AND MOUNT-OVERHEAD (OLD 4-2, 5-SECTION)
 ONE WAY SIGNAL AND MOUNT-POLE MOUNTED 90 DEG (OLD 1-2)
 R10-12 SIGN PANEL-OVERHEAD
 INPLACE (S & I) ONE WAY EVP DETECTOR AND LIGHT-OVERHEAD AT 6' (Ø4,7)
 TYPE D SIGN PANEL-OVERHEAD AT 28' (D-3)
 1-VIDEO CAMERA AND 6' EXTENSION-MAST ARM MOUNTED AT 15' (FACING SB TRAFFIC) (V-2)
 INSTALL 55-FOOT MAST ARM (WITH MID-MOUNTS AT 11' AND 23' FROM END OF MAST ARM) - FURNISHED BY COUNTY
 F & I 1-ONE WAY SIGNAL AND ANGLE MOUNT-OVERHEAD AT 0' (NEW 7-1)
 1-ONE WAY SIGNAL AND STRAIGHT MOUNT-OVERHEAD AT 11' (NEW 4-2)
 1-ONE WAY SIGNAL AND ANGLE MOUNT-POLE MOUNTED 90 DEG (NEW 1-3)
 CAP UNUSED MID-MAST ARM MOUNT AT 23'
 R10-X12 SIGN PANEL-ADJACENT TO 7-1

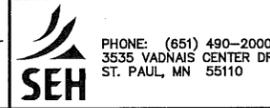
④ INPLACE (MAINTAIN INPLACE) PA100 POLE FOUNDATION
 TYPE PA100-A-50-D40-9 (DAVIT AT 350 DEG)
 LUMINAIRE-250 W HPS
 1-STRAIGHT MOUNT SIGNAL-OVERHEAD AT 11' (8-2)
 1-ANGLE MOUNT SIGNAL-POLE MOUNTED 180 DEG (8-1)
 2-SETS CD PED SIGNALS (ANGLE MOUNTED) AT 90/180 DEG
 2-PEDESTRIAN PUSH BUTTONS & SIGNS (R10-3e)
 TYPE D SIGN PANEL-OVERHEAD AT 22'
 ONE WAY EVP DETECTOR AND LIGHT AT 6' (Ø8,3)
 2-R6-1 SIGN PANELS-POLE MOUNTED 0/180 DEG
 1-VIDEO CAMERA AND 6' EXTENSION-MAST ARM MOUNTED AT 8' (FACING NB TRAFFIC) (V-4)
 EXTENDED INTO H.H.4:
 3" RSC
 2-12/c#14
 2-4/c#14
 1-3/c#14
 1-3/c#18 (VIDEO)
 1-3/c#20
 2-2/c#14
 1-3/c#14 (LUM)
 1-1/c#6 (GRD)

INPLACE (REMOVE) ONE WAY SIGNAL AND MOUNT-OVERHEAD AT 0' (OLD 8-3)
 ONE WAY SIGNAL AND MOUNT-POLE MOUNTED 90 DEG (OLD 5-2)
 R10-12 SIGN PANEL-OVERHEAD
 F & I 1-ONE WAY SIGNAL AND ANGLE MOUNT-OVERHEAD AT 0' (NEW 3-1)
 1-ONE WAY SIGNAL AND ANGLE MOUNT-POLE MOUNTED 90 DEG (NEW 5-2)
 R10-X12 SIGN PANEL-ADJACENT TO 3-1

⑤ INPLACE (MAINTAIN INPLACE) PEDESTAL FOUNDATION
 PEDESTAL POLE AND BASE
 3-12" YELLOW LED FLASHING BEACONS
 DYNAMIC SPEED SIGN (YOUR SPEED)
 SCHOOL SPEED LIMIT 30 SIGN
 EXTENDED INTO H.H.2:
 2" RSC
 1-3/c#12

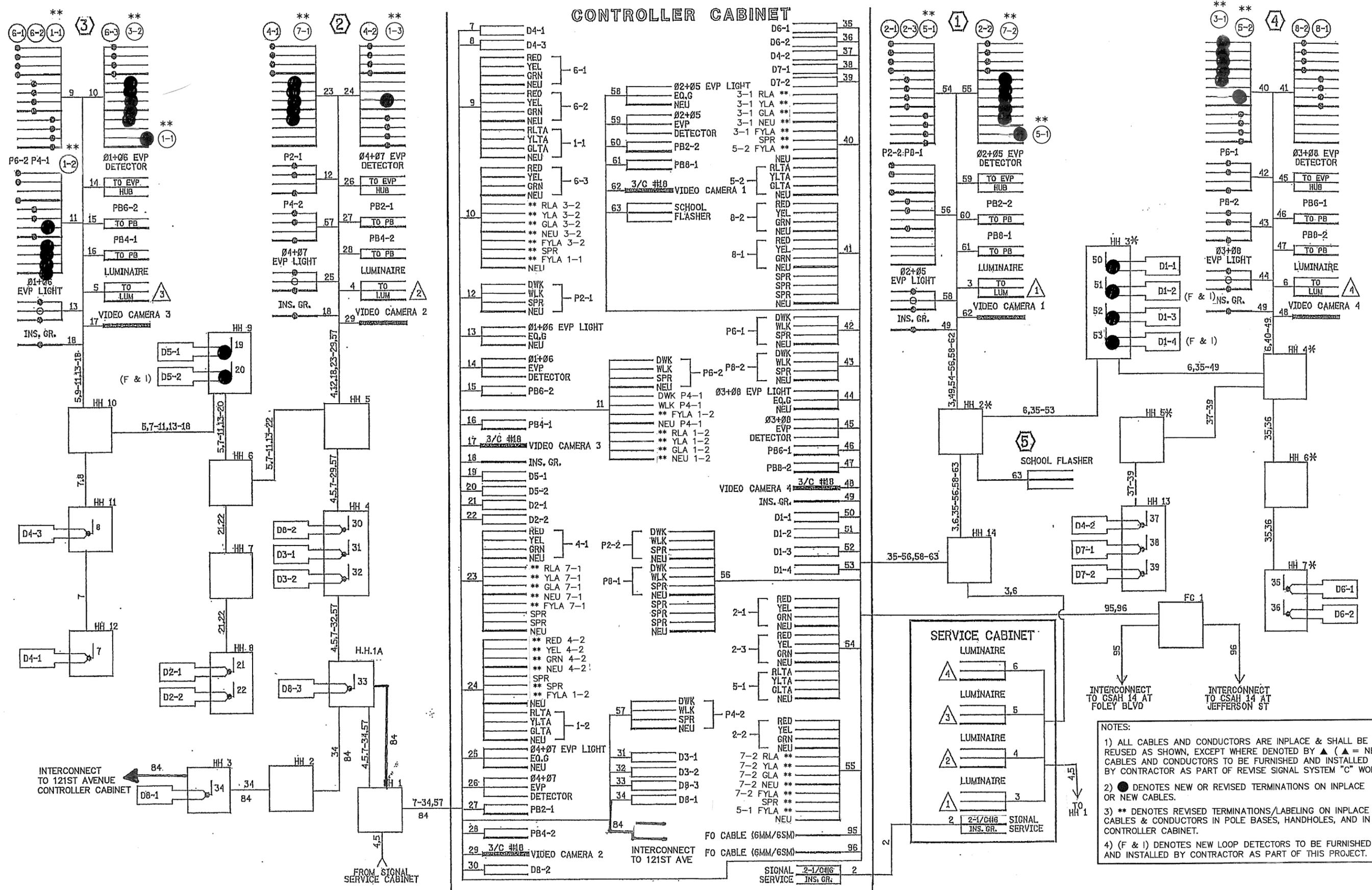
DRAWN BY: JMG				
DESIGNER: JMG				
CHECKED BY: JMG				
DESIGN TEAM	NO.	BY	DATE	REVISIONS

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



ANOKA COUNTY
 CITIES OF BLAINE AND COON RAPIDS

REVISE SIGNAL SYSTEM "C"
 POLE AND GENERAL NOTES
 CSAH 14 (125TH AVENUE/MAIN STREET) AT CSAH 51/UNIVERSITY AVENUE



2020FYA-BASE.DWG

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.

John M. Gray
 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
 CITIES OF BLAINE
 AND COON RAPIDS

REVISE SIGNAL SYSTEM "C"
FIELD WIRING DIAGRAM
 CSAH 14 (125TH AVENUE/MAIN STREET)
 AT CSAH 51/UNIVERSITY AVENUE

FILE NO.
 ANOKC 153781

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