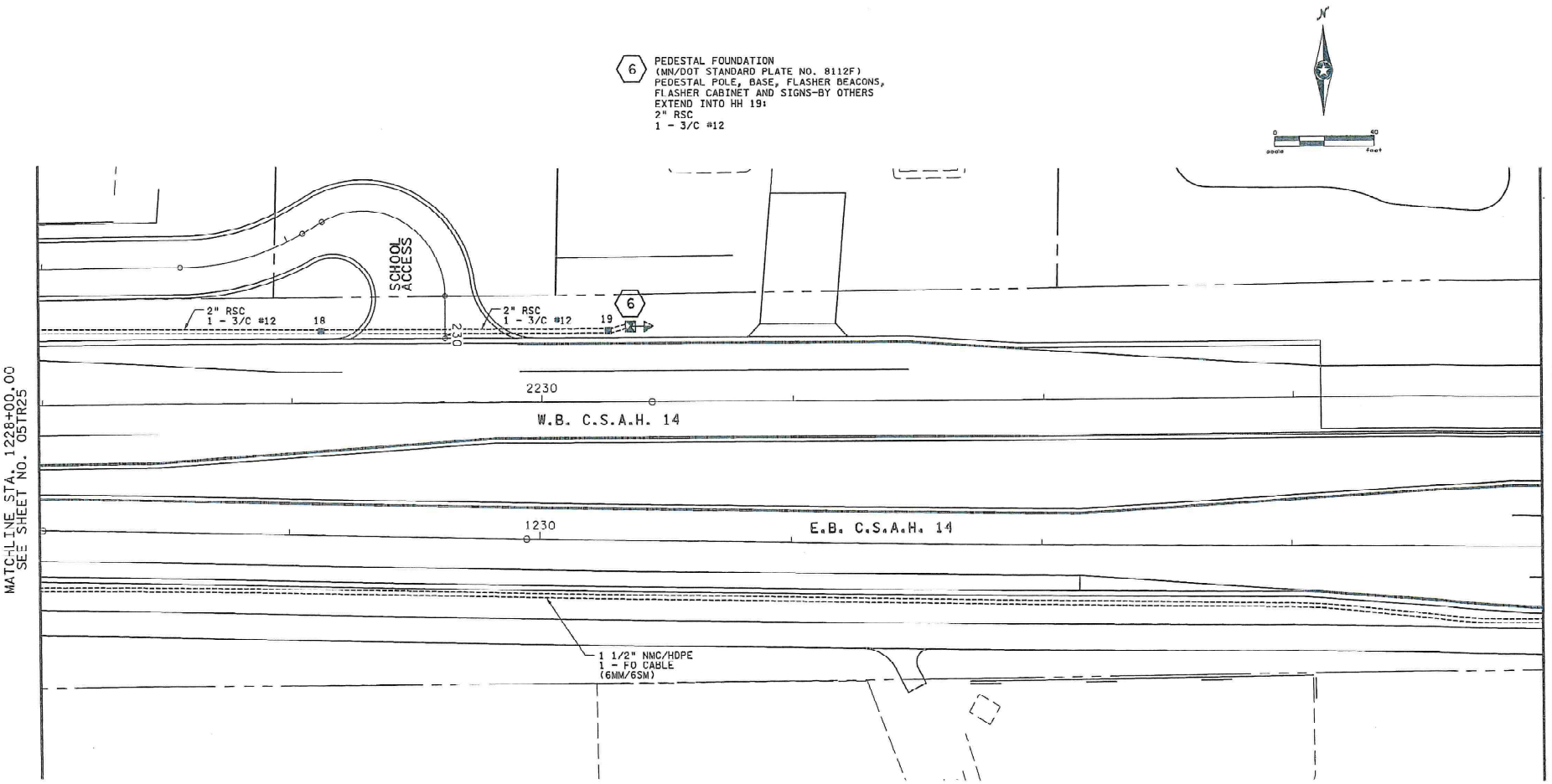
7287
EAST



NOTES:

1. ALL ITEMS ARE F. & I.
2. THE EXACT LOCATION OF HANDHOLES SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
3. THIS PLAN SPECIFIES CONDUIT SIZES, TYPES, AND GENERAL LOCATIONS. THE EXACT LOCATIONS WILL BE DETERMINED IN THE FIELD.
4. THE CONTRACTOR SHALL LOCATE AND VERIFY INPLACE UTILITIES PRIOR TO COMMENCING WORK. SEE UTILITY PLANS.

NO	DATE	BY	CKD	APPR
...\Plan\DP_6\C00261434_05tr32.dgn				

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. STUEMPFIG

Date 9/11/11 License # 21849

ANOKA COUNTY RELEASED FOR CONSTRUCTION

Date 9/21/11 ANOKA COUNTY

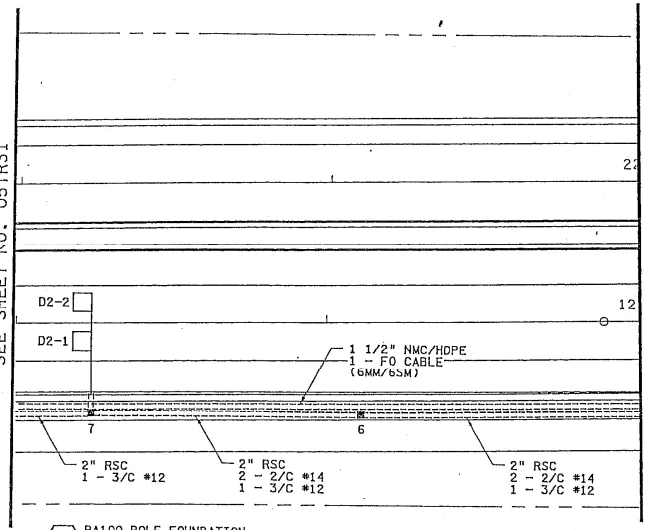
SRF Consulting Group, Inc. C.S. McCrossan

ANOKA COUNTY

CSAH 14 DESIGN BUILD (SAP 002-614-034)
INTERCONNECT AND SCHOOL FLASHER LAYOUT
(STAGES 2 AND 3)
C.S.A.H. 14
DESIGN PACKAGE #05

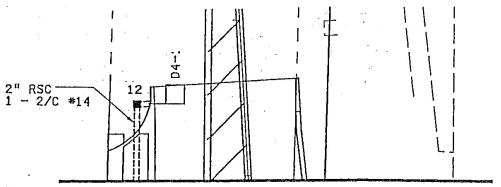
SHEET 05TR32 OF 05TR37

7287



(A) EQUIPMENT PAD - SEE DETAIL
SERVICE CABINET
CONTROLLER AND CABINET
2 - 4" RSC TO HH 1:
4 - 12/C #14
2 - 4/C #14
1 - 3/C #12
2 - 3/C #14
2 - 3/C #20
13 - 2/C #14
1 - 1/C #6 INS. GR.
2 - 4" RSC TO HH 21:
4 - 12/C #14
2 - 4/C #14
1 - 3/C #12
2 - 3/C #14
2 - 3/C #20
12 - 2/C #14
1 - 1/C #6 INS. GR.
1 1/2 " NMC/HDPE TO
FIBER CABINET WITH:
1 - FO PIGTAIL
3" RSC STUBBED OUT
CAPPED BOTH ENDS
2" RSC TO SERVICE CABINET
2 - 1/C #6
1 - 1/C #6 INS. GR.
SERVICE CABINET TO HH 1:
2" RSC
1 - 3/C #14 (LUM.)
SERVICE CABINET TO HH 21:
2" RSC
1 - 3/C #14 (LUM.)
SERVICE CABINET TO HH 22:
2" RSC
3 - 1/C #2

(B) SOP - GROUND MOUNT TRANSFORMER
2" RSC TO HH 23:
3 - 1/C #2



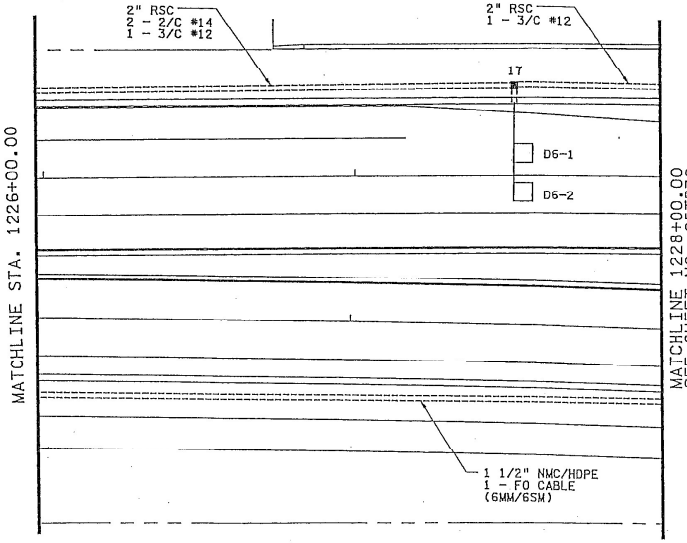
MATCHLINE STA. 91+50.00

(1) PA100 POLE FOUNDATION
TYPE PA100-A-55-D40-9 (DAVIT AT 350 DEG)
2-SWING AWAY HINGES
1-ANGLE MOUNT SIGNAL OVERHEAD AT 0'
2-STRAIGHT MOUNT SIGNALS OVERHEAD
AT 11' AND 23'
2-ANGLE MOUNT SIGNALS AT 90 DEG AND 180 DEG
2-ANGLE MOUNT C. D. PED INDS AT 90 DEG AND 180 DEG
1-ONE WAY EVP DETECTOR AND
CONFIRMATORY LIGHT (PHASES 2+5)
(1) LUMINAIRE-250W HPS
1-PB AND SIGN (LT ARROW)(PB8-1)
1-PB AND SIGN (RT ARROW)(PB2-2)
1-TYPE D SIGN "OAK PARK BLVD/POLK ST"
1-R6-1L SIGN "ONE WAY"
1-R6-1R SIGN "ONE WAY"
EXTEND INTO HH 21:
3" RSC
2 - 12/C #14
2 - 4/C #14
1 - 3/C #14
1 - 3/C #14 (LUM.)
1 - 3/C #20
2 - 2/C #14
1 - 1/C #6 INS. GR.

(2) PA100 POLE FOUNDATION
TYPE PA100-A-50
1-ANGLE MOUNT SIGNAL OVERHEAD AT 0'
2-ANGLE MOUNT SIGNALS AT 90 DEG AND 180 DEG
2-ANGLE MOUNT C.D. PED INDS AT 90 DEG AND 180 DEG
1-ONE WAY EVP DETECTOR AND
CONFIRMATORY LIGHT (PHASES 4+7)
1-PB AND SIGN (RT ARROW)(PB4-2)
1-PB AND SIGN (LT ARROW)(PB2-1)
1-TYPE D SIGN "125TH AVE NE"
1-R10-12 SIGN
1-R6-1L SIGN "ONE WAY"
1-R6-1R SIGN "ONE WAY"
EXTEND INTO HH 4:
3" RSC
2 - 12/C #14
1 - 3/C #14
1 - 3/C #20
2 - 2/C #14
1 - 1/C #6 INS. GR.

(3) PA100 POLE FOUNDATION
TYPE PA100-A-55-D40-9 (DAVIT AT 350 DEG)
2-SWING AWAY HINGES
1-ANGLE MOUNT SIGNAL OVERHEAD AT 0'
2-STRAIGHT MOUNT SIGNALS OVERHEAD
AT 11' AND 23'
2-ANGLE MOUNT SIGNALS AT 90 DEG AND 180 DEG
2-ANGLE MOUNT C. D. PED INDS AT 90 DEG AND 180 DEG
1-ONE WAY EVP DETECTOR AND
CONFIRMATORY LIGHT (PHASES 1+6)
(2) LUMINAIRE-250W HPS
1-PB AND SIGN (RT ARROW)(PB4-1)
1-PB AND SIGN (LT ARROW)(PB6-2)
1-TYPE D SIGN "POLK ST/OAK PARK BLVD"
1-R6-1L SIGN "ONE WAY"
1-R6-1R SIGN "ONE WAY"
EXTEND INTO HH 10:
3" RSC
2 - 12/C #14
2 - 4/C #14
1 - 3/C #14
1 - 3/C #14 (LUM.)
1 - 3/C #20
2 - 2/C #14
1 - 1/C #6 INS. GR.

(4) PA100 POLE FOUNDATION
TYPE PA100-A-45
1-ANGLE MOUNT SIGNAL OVERHEAD AT 0'
2-ANGLE MOUNT SIGNALS AT 90 DEG AND 180 DEG
2-ANGLE MOUNT C.D. PED INDS AT 90 DEG AND 180 DEG
1-ONE WAY EVP DETECTOR AND
CONFIRMATORY LIGHT (PHASES 3+8)
1-PB AND SIGN (LT ARROW)(PB6-1)
1-PB AND SIGN (RT ARROW)(PB8-2)
1-TYPE D SIGN "125TH AVE NE"
1-R10-12 SIGN
1-R6-1L SIGN "ONE WAY"
1-R6-1R SIGN "ONE WAY"
EXTEND INTO INP. HH 15:
3" RSC
2 - 12/C #14
1 - 3/C #14
1 - 3/C #20
2 - 2/C #14
1 - 1/C #6 INS. GR.



RELEASED FOR CONSTRUCTION

NO	DATE	BY	CKD	APPR

...\Plan\DP_5\C00261434_05tr25.dgn

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. STUEMPFIG
Date: 9/13/11 License # 21849

ANOKA COUNTY RELEASED FOR CONSTRUCTION
Date: 9/21/11 ANOKA COUNTY

SRF Consulting Group, Inc.

C.S. McCrossan

ANOKA COUNTY

CSAH 14 DESIGN BUILD (SAP 002-614-034)
MATCHLINE LAYOUT
CSAH 14 & OAK PARK BLVD/POLK ST NE (SYSTEM "E")
C.S.A.H. 14
DESIGN PACKAGE #05

SHEET 05TR25 OF 05TR37

10:45:01 AM
9/13/2011
H:\Projects\7461\MP\Plan\DP_5\C00261434_05tr25.dgn

PVC LOOP DETECTORS				
NUMBER	SIZE (FT.)	LOCATION	FUNCTION	STATUS
D1–1	2–6x6	10' & 40'	1	1
D1–2	2–6x6	–5' & 25'	1	2
D2–1, D2–2	6x6	400'	1	INPLACE
D3–1	2–6x6	15' & 45'	1	INPLACE
D3–2	2–6x6	0' & 30'	1	INPLACE
D4–1, D8–1	6x6	120'	3	INPLACE
D4–2, D8–2	3–6x6	–10',5',20'	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	0' & 30'	1	INPLACE
D7–2	6x6	15'	1	INPLACE
D8–3	2–6x6	0' & 15'	1	INPLACE

LOCATION = DISTANCE FROM STOP BAR TO FRONT OF DETECTOR.

NOTE: WHEN INSTALLING NEW LOOP DETECTORS D1–2 AND D5–2, ENSURE THAT ALL EXISTING LOOP DETECTOR ROADWAY CONDUITS (TO D1–1 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.

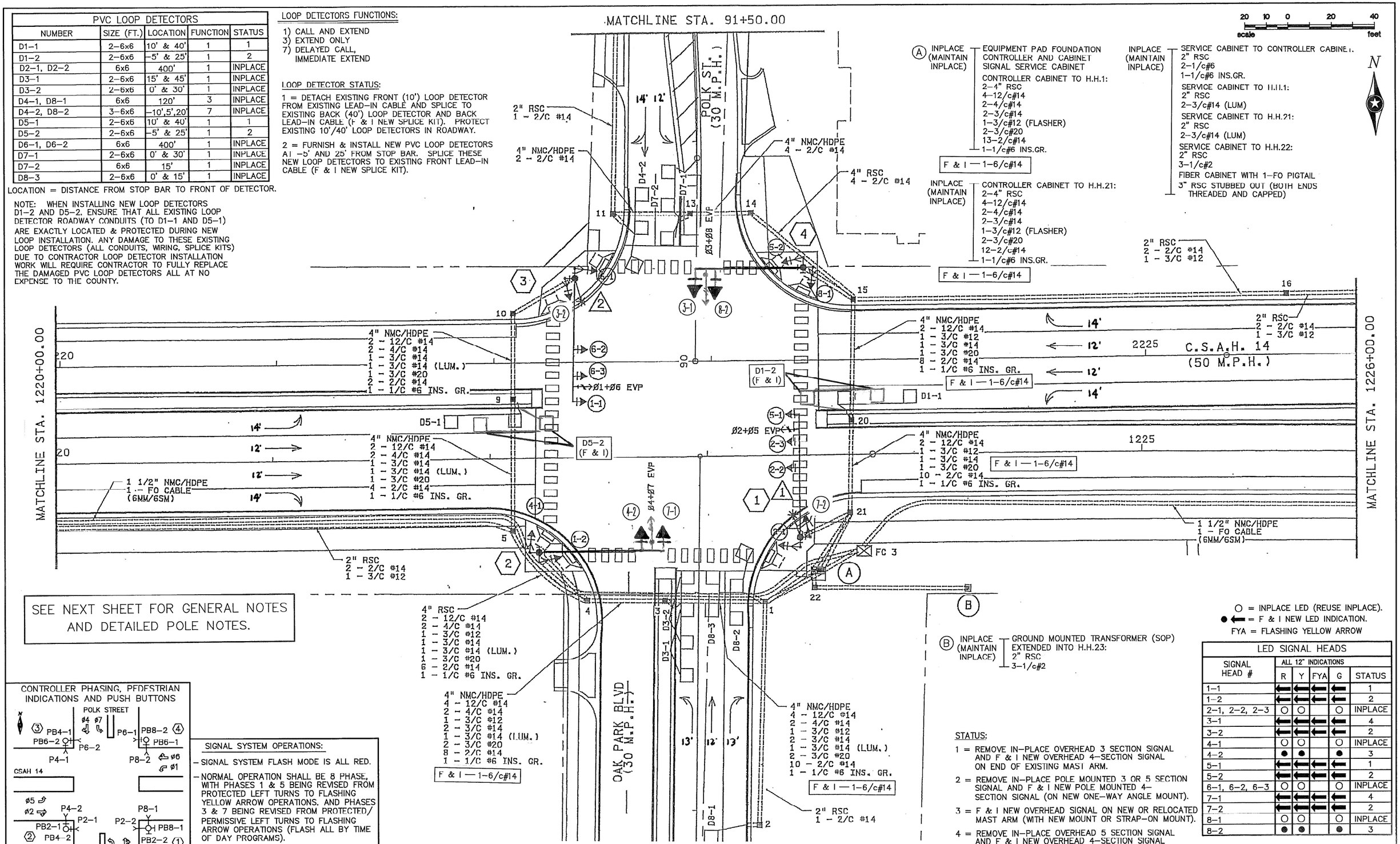
LOOP DETECTORS FUNCTIONS:

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).



SEE NEXT SHEET FOR GENERAL NOTES AND DETAILED POLE NOTES.

CONTROLLER PHASING, PEDESTRIAN INDICATIONS AND PUSH BUTTONS

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.

STATUS:

1 = REMOVE IN–PLACE OVERHEAD 3 SECTION SIGNAL AND F & I NEW OVERHEAD 4–SECTION SIGNAL ON END OF EXISTING MAST ARM.

2 = REMOVE IN–PLACE POLE MOUNTED 3 OR 5 SECTION SIGNAL AND F & I NEW POLE MOUNTED 4–SECTION SIGNAL (ON NEW ONE–WAY ANGLE MOUNT).

3 = F & I NEW OVERHEAD SIGNAL ON NEW OR RELOCATED MAST ARM (WITH NEW MOUNT OR STRAP–ON MOUNT).

4 = REMOVE IN–PLACE OVERHEAD 5 SECTION SIGNAL AND F & I NEW OVERHEAD 4–SECTION SIGNAL ON END OF NEW OR RELOCATED MAST ARM.

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

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

STATE AID PROJ. 002–614–050

2020FYA–BASE.DWG

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

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
Date: August 21, 2020
Name: John M. Gray, PE
Lic. No. 22457

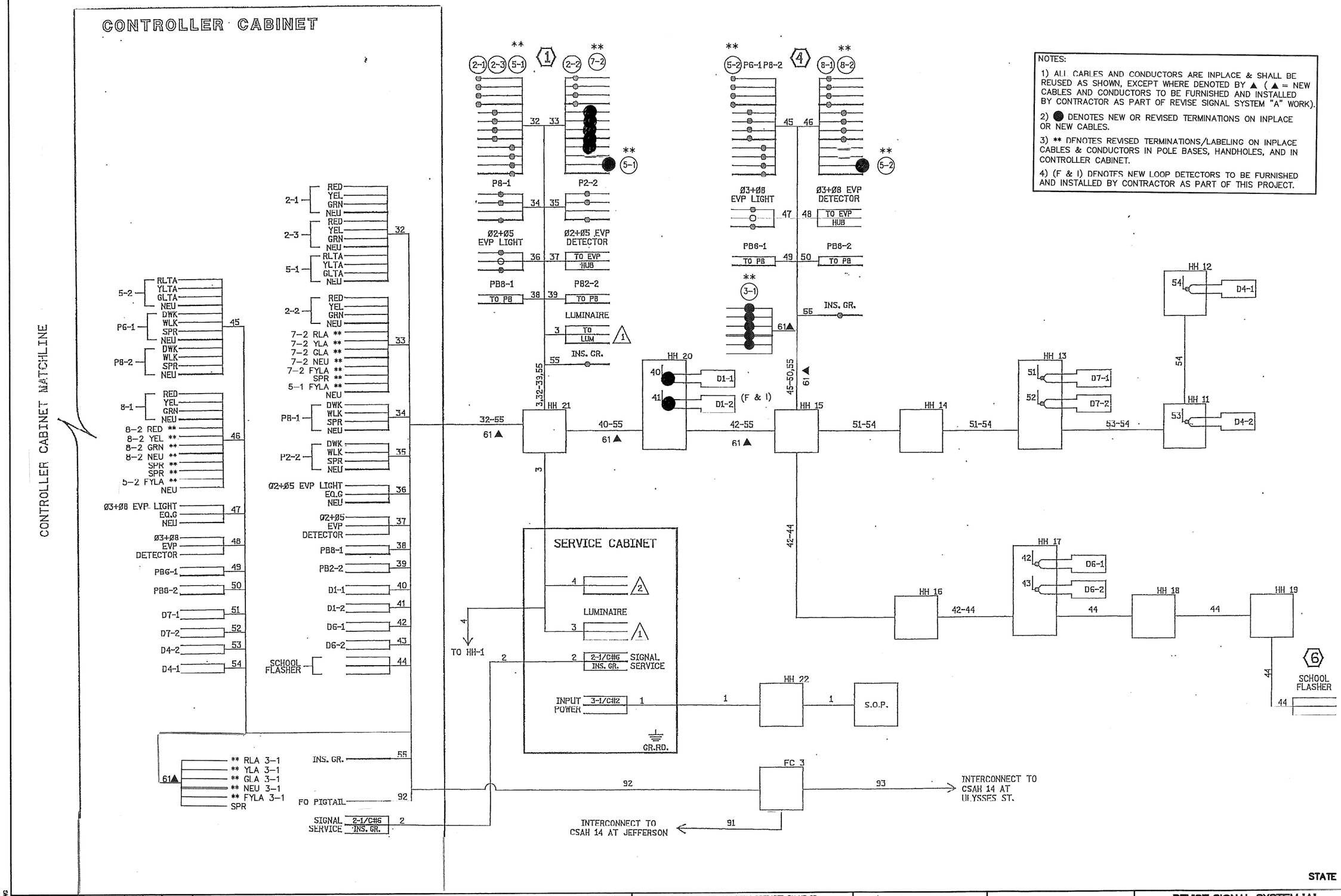
SEH
PHONE: (651) 490–2000
3535 VADNAIS CENTER DR.
ST. PAUL, MN 55110

ANOKA COUNTY
CITY OF BLAINE

REVISE SIGNAL SYSTEM "A" INTERSECTION LAYOUT
CSAH 14 (125TH AVE) AT OAK PARK BLVD/POLK ST

FILE NO. ANOKC 153781

5 / 55



STATE AID PROJ. 002-614-050

2020\FIA-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.

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

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

ANOKA COUNTY
CITY OF BLAINE

REVISE SIGNAL SYSTEM "A"
FIELD WIRING DIAGRAM
CSAH 14 (125TH AVE) AT OAK PARK BLVD/POLK ST

FILE NO. ANOKC 153781

8 / 55