

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

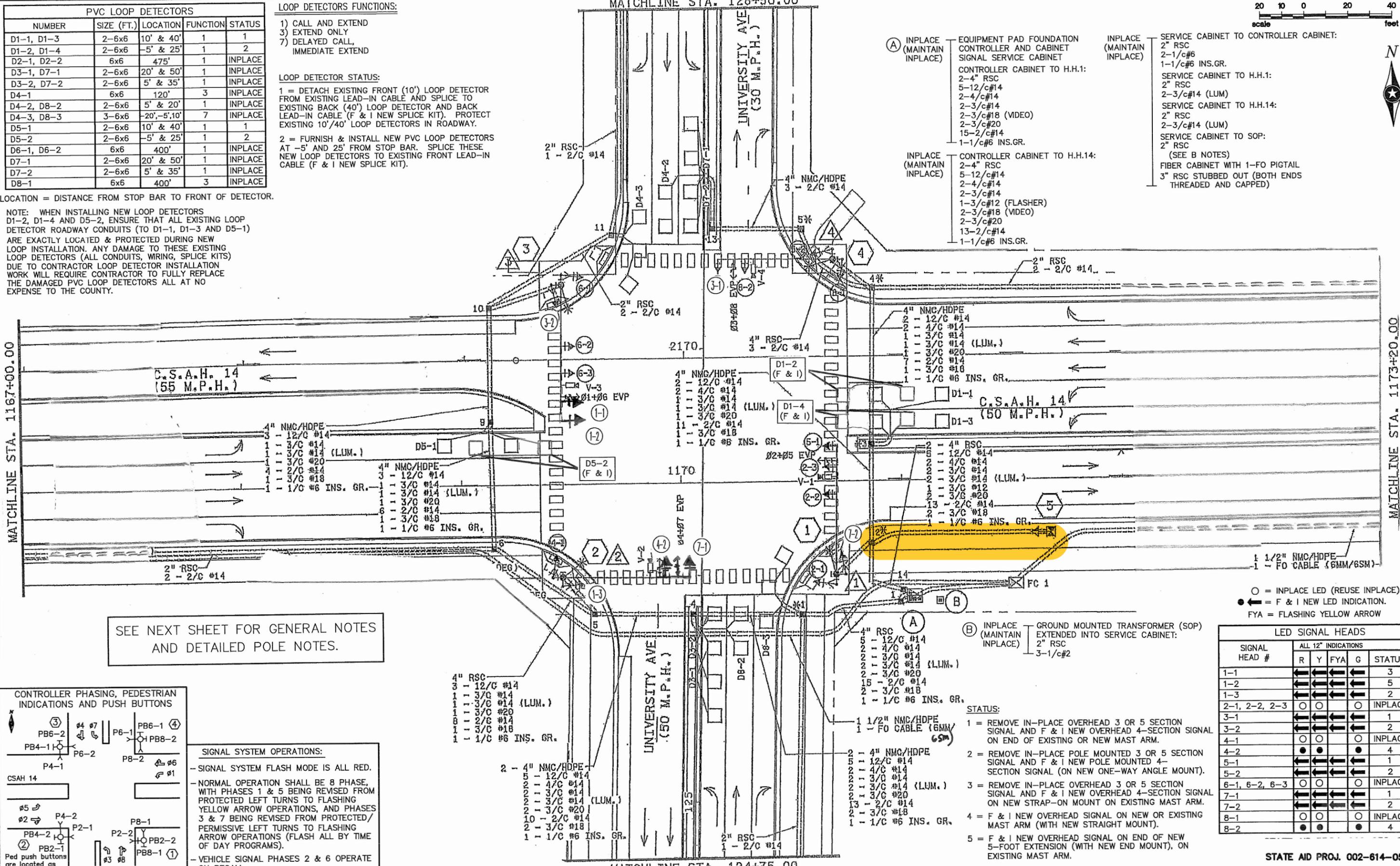
**LOOP DETECTOR STATUS:**

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.

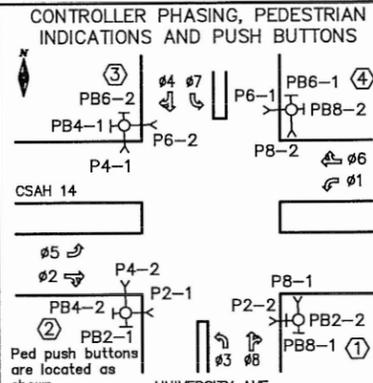
2 = FURNISH & INSTALL NEW PVC LOOP DETECTORS AT -5' AND 25' FROM STOP BAR. SPLICE THESE NEW LOOP DETECTORS TO EXISTING FRONT LEAD-IN CABLE (F & I NEW SPLICE KIT).

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.

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

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

- STATUS:**
- 1 = REMOVE IN-PLACE OVERHEAD 3 OR 5 SECTION SIGNAL AND F & I NEW OVERHEAD 4-SECTION SIGNAL ON END OF EXISTING OR NEW 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 = REMOVE IN-PLACE OVERHEAD 3 OR 5 SECTION SIGNAL AND F & I NEW OVERHEAD 4-SECTION SIGNAL ON NEW STRAP-ON MOUNT ON EXISTING MAST ARM.
  - 4 = F & I NEW OVERHEAD SIGNAL ON NEW OR EXISTING MAST ARM (WITH NEW STRAIGHT MOUNT).
  - 5 = F & I NEW OVERHEAD SIGNAL ON END OF NEW 5-FOOT EXTENSION (WITH NEW END MOUNT), ON EXISTING MAST ARM.

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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Lic. No. 22457

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**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

STATE AID PROJ. 002-614-050  
FILE NO. ANOKC 153781  
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