

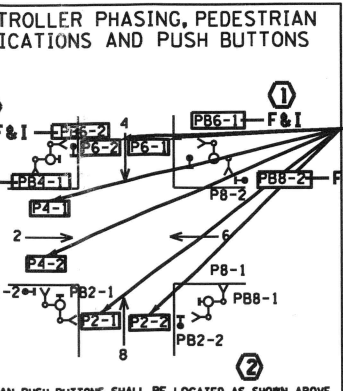
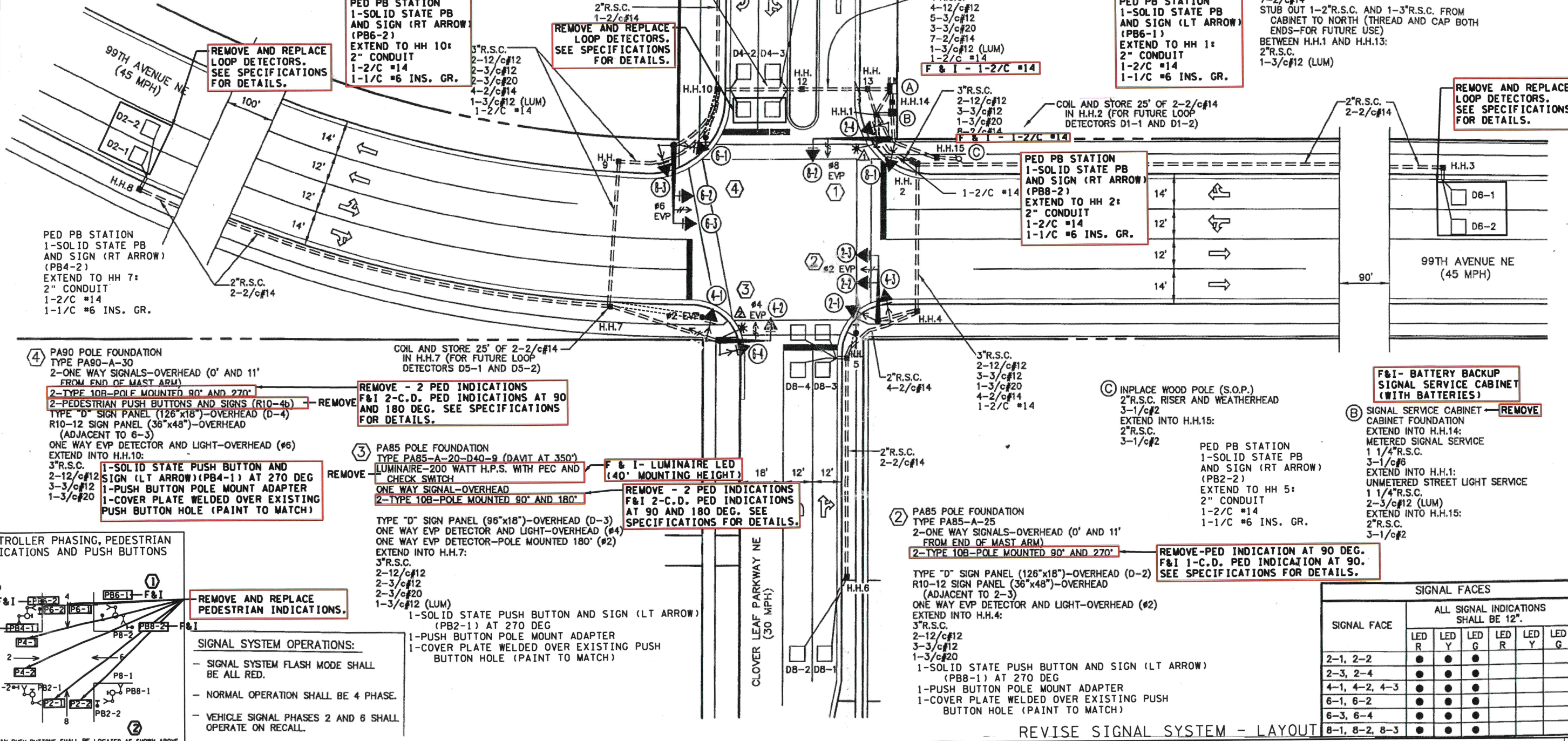
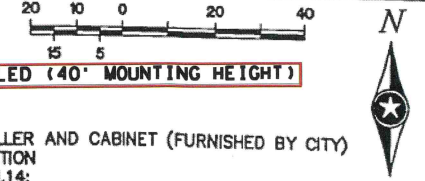
NOTES:

- 1) LOCATION OF POLES, CONTROLLER CABINET, SERVICE CABINET, LOOP DETECTORS AND HANDHOLES SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- 2) SEE SPECIAL PROVISIONS FOR CITY FURNISHED MATERIALS.
- 3) LOOP DETECTOR WIRES SHALL BE CROSS-LINKED POLYETHYLENE (XLP) IN 3/4" N.M.C. SEE SPECIAL PROVISIONS.
- 4) NEW HANDHOLES SHALL BE PVC HANDHOLES WITH METAL FRAMES AND COVERS, PER Mn/DOT STANDARD PLATE NO. M8114A.
- 5) EACH SIGNAL FACE SHALL HAVE BACKGROUND SHIELD.
- 6) EACH PEDESTRIAN INDICATION SHALL BE ONE SECTION HAND/WALKING PERSON INDICATION. SEE SPECIAL PROVISIONS.
- 7) ALL VEHICLE SIGNAL INDICATIONS, AND ALL PEDESTRIAN SIGNAL INDICATIONS SHALL BE LED. SEE SPECIAL PROVISIONS.
- 8) SEE SPECIAL PROVISIONS AND DETAILS REGARDING SIGN PANELS AND CROSSWALK TO BE FURNISHED AND INSTALLED BY CONTRACTOR.
- 9) CONTRACTOR SHALL PROVIDE EXTENDED BRACKETS FOR EACH POLE MOUNTED VEHICLE SIGNAL FACE.
- 10) A 3/4" HALF COUPLING, 3/4" PIPE NIPPLE AND CONDUIT OUTLET BODY SHALL BE FURNISHED AND INSTALLED APPROX. 6 FEET FROM THE LEFT END OF EACH MAST ARM (FOR EVP).

LOOP DETECTORS			
NUMBER	SIZE (FT.)	LOCATION	FUNCTION
D1-1	FUTURE	-	-
D1-2	FUTURE	-	-
D2-1	6x6	300'	1
D2-2	6x6	300'	1
D4-1	6x6	120'	3,8
D4-2	2-6x6	5' & 20'	7
D4-3	2-6x6	5' & 20'	7
D5-1	FUTURE	-	-
D5-2	FUTURE	-	-
D6-1	6x6	300'	1
D6-2	6x6	300'	1
D8-1	6x6	120'	3,8
D8-2	6x6	120'	3,8
D8-3	2-6x6	AS SHOWN	7
D8-4	2-6x6	AS SHOWN	7

- LOOP DETECTORS FUNCTIONS:**
- 1) CALL AND EXTEND
 - 2) CALL ONLY
 - 3) EXTEND ONLY
 - 4) CALL ONLY DENSITY
 - 5) DELAYED CALL ONLY
 - 6) DELAYED CALL ONLY DENSITY
 - 7) DELAYED CALL- IMMEDIATE EXTEND
 - 8) CARRY OVER (STRETCH)
 - 9) ADVISORY DETECTOR
 - 10) SAMPLING DETECTOR
 - 11) CALL DURING PHASE 2/6 YELLOW
 - 12) EXTEND DURING PHASES 1/5

NOTE: LOCATION=DISTANCE FROM STOP BAR TO FRONT OF LOOP DETECTOR.



SIGNAL SYSTEM OPERATIONS:

- SIGNAL SYSTEM FLASH MODE SHALL BE ALL RED.
- NORMAL OPERATION SHALL BE 4 PHASE.
- VEHICLE SIGNAL PHASES 2 AND 6 SHALL OPERATE ON RECALL.

SIGNAL FACE	ALL SIGNAL INDICATIONS SHALL BE 12".					
	LED R	LED Y	LED G	LED R	LED Y	LED G
2-1, 2-2	●	●	●	●	●	●
2-3, 2-4	●	●	●	●	●	●
4-1, 4-2, 4-3	●	●	●	●	●	●
6-1, 6-2	●	●	●	●	●	●
6-3, 6-4	●	●	●	●	●	●
8-1, 8-2, 8-3	●	●	●	●	●	●

REVISE SIGNAL SYSTEM - LAYOUT

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.

ROSS B. TILLMAN
UC. NO. 51692 DATE 03-25-2021



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DESIGNED	NO.	REVISION	DATE
CMW			
CMW			
RBT			
CLIENT PROJ. NO.			

CITY OF BLAINE, MINNESOTA
99TH AVE - 101ST AVE STREET REHABILITATION
SIGNAL REVISIONS

SHEET
C7.05

bml.tbi
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