

LOOP DETECTORS

NUMBER	SIZE (FEET)	LOCATION
▲D1-1,D1-3	4-6x6	15' & 45'
▲D1-2,D1-4	4-6x6	0' & 30'
▲D2-1, D2-2	6x6 EACH	500
D3-1	2-6x6	AS SHOWN 40
D3-2	2-6x6	AS SHOWN 10
D4-1, D4-2	6x6	AS SHOWN 120
D4-3, D4-4	6x6	AS SHOWN 20
D4-5, D4-6	6x6	AS SHOWN 5
▲D5-1, D5-3	4-6x6	15' & 45'
▲D5-2, D5-4	4-6x6	0' & 30'
▲D6-1, D6-2	6x6 EACH	500
D7-1	4-6x6	AS SHOWN 40
D7-2	4-6x6	AS SHOWN 10
D8-1, D8-2	2-6x6	AS SHOWN 120
D8-3, D8-4	6x6	AS SHOWN 20
D8-5, D8-6	6x6	AS SHOWN 5

LOCATION = DISTANCE FROM CROSS WALK STOP BAR TO FRONT EDGE OF LOOP DETECTOR

ALL LOOP DETECTORS SHALL BE INSTALLED IN NMC UNLESS OTHERWISE INDICATED

- (B) INPLACE TRANSFORMER
2" RSC TO HH 20 AND
3-1/C #0 BY ELECTRIC CONTRACTOR
- (C) THE BACK OF THE LOOP
DETECTOR SHALL BE PLACED
500 FROM THE CROSS WALK
- (D) AWF SHALL BE PLACED
700 FEET FROM CROSS
WALK AT MAIN STREET

SIGNAL INDICATIONS

ALL VEHICLE SIGNAL INDICATIONS SHALL BE 12" LED

FACE	R	Y	G
1-1, ▲1-2, 1-3	←	←	←
2-2, 2-3 ▲2-1	●	●	●
3-1, ▲3-2	←	←	←
4-3, ▲4-1, 4-2	●	●	●
5-1, ▲5-2, 5-3	←	←	←
6-2, 6-3 ▲6-1	●	●	●
7-1, 7-2	←	←	←
8-3 ▲8-1, 8-2	●	●	●

CONTROLLER CABINET
EXTEND INTO H.H.1:
6" RSC
10 12/C #12
16 - 3/C #12
4 - 3/C #20
24 - 2/C #14
2-6/PR #19
2-5/C #12

PA100 POLE FOUNDATION
TYPE PA100-A-55-D40-9
2 - SWING AWAY HINGES
3 - ONE WAY SIGNAL OVERHEAD MOUNTED
(0 FT, 12' & 24' FROM END OF MAST ARM)
1 - TYPE 30A POLE MOUNTED AT 0°
1 - TYPE 20B POLE MOUNTED AT 270°
2 - PEDESTRIAN PUSH BUTTONS AT 180° AND 270°
1 - EVP DETECTOR, CONFIRMATORY AND LIGHT OVERHEAD MOUNTED AT 6 FT FROM END OF MAST ARM
LIGHT (PHASE 1 & 6) MOUNTED 6 FT FROM END OF MAST ARM
LUMINAIRE - 200 WATT HPS AT 350°
EXTEND INTO H.H.15:
3" RSC
2 - 12/C #12
4 - 3/C #12
1 - 3/C #20

REMOVE 1-TYPE 30A AND 1-TYPE 20B
REMOVE 2-PED PUSH BUTTONS AND SIGNS
F&I 2-TYPE 10B AT 90° & 180° WITH C.D.PED IND.
F&I 1-APS PB AND SIGN (LT ARROW-PB4-1) @ 270°

PEDESTAL FOUNDATION
10 FT. PEDESTAL POLE AND BASE
1-TYPE 2A
1-PEDESTRIAN PUSH BUTTON
EXTEND INTO HH 14:
3" RSC
1-12/C #12
1-3/C #12

14 FT. PEDESTAL POLE AND BREAKAWAY BASE
EXTEND INTO HH 101:
2" RSC
1-5/C #12

EQUIPMENT FOOT - SEE DETAILS

SERVICE CABINET
EXTEND INTO H.H.19:
4" RSC
4-3/C #12
EXTEND INTO H.H.20:
2" RSC
3-1/C #0 BY ELECTRIC CONTRACTOR

BETWEEN SERVICE AND CONTROLLER CABINET:
2" RSC
2 - 1/C #4
2 - 1/C #4 (BARE)

REMOVE 1-TYPE 30A AND 1-TYPE 20B
REMOVE 2-PED PUSH BUTTONS AND SIGNS
F&I 2-TYPE 10B AT 90° & 180° WITH C.D.PED IND.
F&I 1-APS PB AND SIGN (LT ARROW-PB4-1) @ 270°

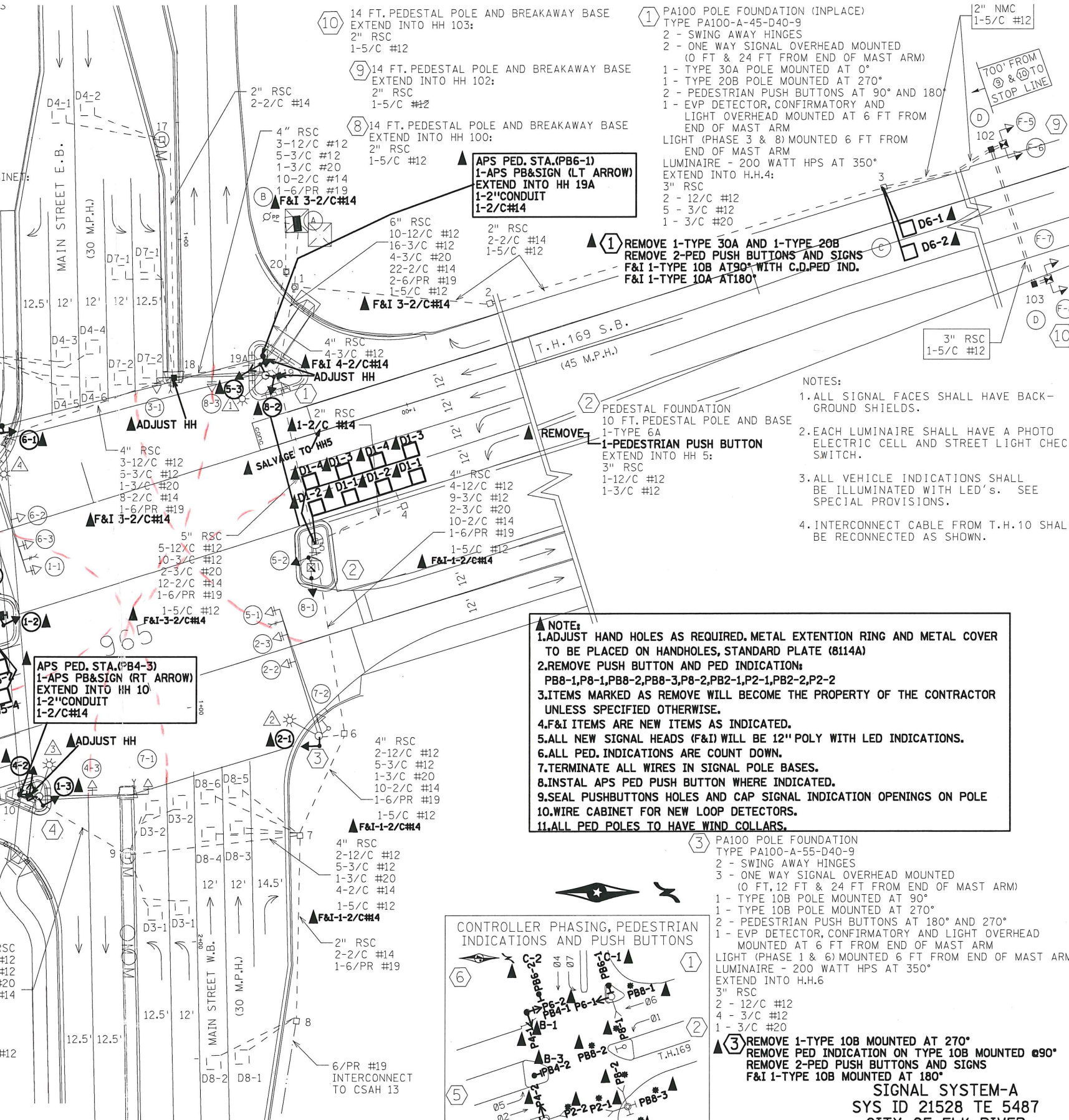
PEDESTAL FOUNDATION
10 FT. PEDESTAL POLE AND BASE
1-TYPE 2A
1-PEDESTRIAN PUSH BUTTON
EXTEND INTO HH 14:
3" RSC
1-12/C #12
1-3/C #12

REMOVE 1-TYPE 30A AND 1-TYPE 20B
REMOVE 2-PED PUSH BUTTONS AND SIGNS
F&I 2-TYPE 10B AT 90° & 180° WITH C.D.PED IND.
F&I 1-APS PB AND SIGN (LT ARROW-PB4-1) @ 270°

PEDESTAL FOUNDATION
10 FT. PEDESTAL POLE AND BASE
1-TYPE 2A
1-PEDESTRIAN PUSH BUTTON
EXTEND INTO HH 14:
3" RSC
1-12/C #12
1-3/C #12

REMOVE 1-TYPE 30A AND 1-TYPE 20B
REMOVE 2-PED PUSH BUTTONS AND SIGNS
F&I 2-TYPE 10B AT 90° & 180° WITH C.D.PED IND.
F&I 1-APS PB AND SIGN (LT ARROW-PB4-1) @ 270°

PEDESTAL FOUNDATION
10 FT. PEDESTAL POLE AND BASE
1-TYPE 2A
1-PEDESTRIAN PUSH BUTTON
EXTEND INTO HH 14:
3" RSC
1-12/C #12
1-3/C #12



REMOVE 1-TYPE 30A AND 1-TYPE 20B
REMOVE 2-PED PUSH BUTTONS AND SIGNS
F&I 1-TYPE 10B AT 180° WITH C.D.PED IND.
F&I 1-TYPE 10A AT 90°

DENOTES REVISE SIGNAL SYSTEM PAY ITEM WORK. ALL OTHER ITEMS SHOWN ARE INPLACE.

I HEREBY CERTIFY THAT SHEETS 13A THROUGH 14G OF THIS PLAN WERE 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.

ROBBIN DELAGE LICENSE NO. 22762
DATE _____ SIGNATURE _____

REMOVED TO HH5
SALVAGE TO HH5

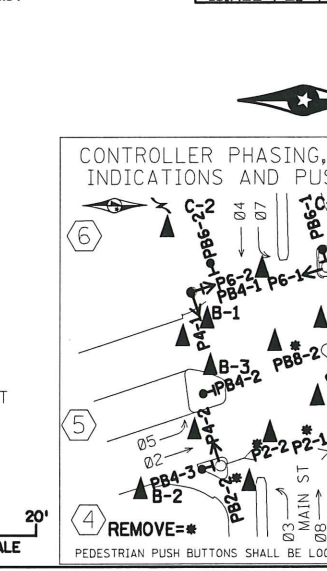
REMOVE 1-TYPE 10B MOUNTED AT 270°
REMOVE PED INDICATION ON TYPE 10B MOUNTED @ 90°
REMOVE 2-PED PUSH BUTTONS AND SIGNS
F&I 1-TYPE 10B MOUNTED AT 180°

SIGNAL SYSTEM OPERATION

- THE SIGNAL SYSTEM FLASH MODE IS ALL RED.
- NORMAL OPERATION IS 8 PHASE
PHASES 1,3,4,5,7,8 ARE NON-LOCKED DETECTION.
PHASES 2 & 6 ARE LOCK DETECTION.
PHASES 2 & 6 ARE ON VEHICLE RECALL.

NOTE:

- ADJUST HAND HOLES AS REQUIRED. METAL EXTENSION RING AND METAL COVER TO BE PLACED ON HANDHOLES, STANDARD PLATE (8114A)
- REMOVE PUSH BUTTON AND PED INDICATION:
PB8-1, PB8-2, PB8-3, PB8-2, PB2-1, PB2-2, P2-2
- ITEMS MARKED AS REMOVE WILL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS SPECIFIED OTHERWISE.
- F&I ITEMS ARE NEW ITEMS AS INDICATED.
- ALL NEW SIGNAL HEADS (F&I) WILL BE 12" POLY WITH LED INDICATIONS.
- ALL PED. INDICATIONS ARE COUNT DOWN.
- TERMINATE ALL WIRES IN SIGNAL POLE BASES.
- INSTALL APS PED PUSH BUTTON WHERE INDICATED.
- SEAL PUSHBUTTON HOLES AND CAP SIGNAL INDICATION OPENINGS ON POLE
- WIRE CABINET FOR NEW LOOP DETECTORS.
- ALL PED POLES TO HAVE WIND COLLARS.



PA100 POLE FOUNDATION
TYPE PA100-A-55-D40-9
2 - SWING AWAY HINGES
3 - ONE WAY SIGNAL OVERHEAD MOUNTED
(0 FT, 12 FT & 24 FT FROM END OF MAST ARM)
1 - TYPE 10B POLE MOUNTED AT 90°
1 - TYPE 10B POLE MOUNTED AT 270°
2 - PEDESTRIAN PUSH BUTTONS AT 180° AND 270°
1 - EVP DETECTOR, CONFIRMATORY AND LIGHT OVERHEAD MOUNTED AT 6 FT FROM END OF MAST ARM
LIGHT (PHASE 1 & 6) MOUNTED 6 FT FROM END OF MAST ARM
LUMINAIRE - 200 WATT HPS AT 350°
EXTEND INTO H.H.6
3" RSC
2 - 12/C #12
4 - 3/C #12
1 - 3/C #20

REMOVE 1-TYPE 10B MOUNTED AT 270°
REMOVE PED INDICATION ON TYPE 10B MOUNTED @ 90°
REMOVE 2-PED PUSH BUTTONS AND SIGNS
F&I 1-TYPE 10B MOUNTED AT 180°