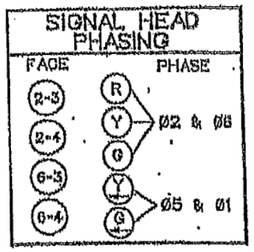
SIGNAL INDICATION CHART

ALL SIGNAL INDICATIONS SHALL BE 300 mm
ALL CIRCULAR & ARROW INDICATIONS SHALL BE LED

SIGNAL FACE	R	Y	G	RLTA	YLTA	GLTA
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	●	●	●			

SIGNAL HEAD PHASING



LOOP DETECTOR CHART

DESIGNATION	SIZE	FUNCTION	DISTANCE FROM STOP LINE
D1-1	2-1.7m x 1.7m	(7)	15',50'
D2-1,D2-2	1-1.7m x 1.7m	(1)	179'
~~D2-3~~ D5-2	2-1.7m x 1.7m	(1)	0',30'
D4-1	1-1.7m x 1.7m	(3)	119'
D4-2	2-1.7m x 1.7m	(1)	0, 4.7 m
D4-3	2-1.7m x 1.7m	(7)	-9',6'
D5-1	2-1.7m x 1.7m	(7)	15',50'
D6-1,D6-2	1-1.7m x 1.7m	(1)	180'
~~D6-3~~ D1-2	2-1.7m x 1.7m	(1)	0',30'
D8-1	1-1.7m x 1.7m	(3)	112'
D8-2	2-1.7m x 1.7m	(1)	-2',13'
D8-3	2-1.7m x 1.7m	(7)	-9',6'

FUNCTIONS:
(1) CALL AND EXTEND
(3) EXTEND ONLY
(7) DELAY CALL, IMMEDIATE EXTEND

(A) CONTROLLER FOUNDATION - SEE DETAIL
CONTROLLER & CABINET
EXTEND 103 mm RSC INTO HH-1 WITH:
6 - 12/C #12, 4 - 3/C #12, 10 - 2/C #14,
2 - 3/C #20

(*) 1-12 SM FO CABLE-INPLACE (REMOVE)
(*) 1-12 SM FIBER-OPTIC CABLE-F & I

EXTEND 103 mm RSC INTO HH-12 WITH:
6 - 12/C #12, 4 - 3/C #12, 4 - 2/C #14,
2 - 3/C #20
1-6 Pr.#19 (TO TH 10 RAMPS)

(*) 1-12 SM FIBER-OPTIC CABLE-F & I

(1) PA90 POLE FOUNDATION
TYPE PA90-A-9.1 m-D12.2 m-2.7 m (DAVIT AT 350°)
2 - ONE WAY SIGNALS (OVERHEAD)
(0 AND 3.4 m FROM END OF MAST ARM)
TYPE 10B POLE MOUNTED AT 90°
TYPE 10B POLE MOUNTED AT 180°
LUMINAIRE - 200 WATT H.P.S.
ONE WAY EVP DETECTOR AND LIGHT
(1.8 m FROM END OF MAST ARM), 21 mm HUB
2 - PEDESTRIAN PUSHBUTTONS
1 - R10-12 (36"x48") SIGN ADJACENT TO 6-3
EXTEND 78 mm RSC INTO HH-12 WITH:
3 - 12/C #12, 2 - 3/C #12
1 - 3/C #12 (LUM.) AND 1 - 3/C #20

(C) SOURCE OF POWER
INPLACE WOOD POLE
35 mm RSC RISER AND
WEATHERHEAD WITH:
3 - 1/C #6

H.H.12 TO H.H.24:
(*) 1.5" CONDUIT-F & I (BORE UNDER ALL DRIVEWAYS/ROADS/SIDEWALKS)
(*) 1-12 SM FIBER-OPTIC CABLE-F & I

(2) PA85 POLE FOUNDATION
TYPE PA85-A-7.6 m
1 - ONE WAY SIGNAL (OVERHEAD)
TYPE 10B POLE MOUNTED AT 90°
TYPE 10B POLE MOUNTED AT 180°
ONE WAY EVP DETECTOR AND LIGHT
(1.8 m FROM END OF MAST ARM), 21 mm HUB
2 - PEDESTRIAN PUSHBUTTONS
EXTEND 78 mm RSC INTO HH-2 WITH:
3 - 12/C #12, 2 - 3/C #12
AND 1 - 3/C #20

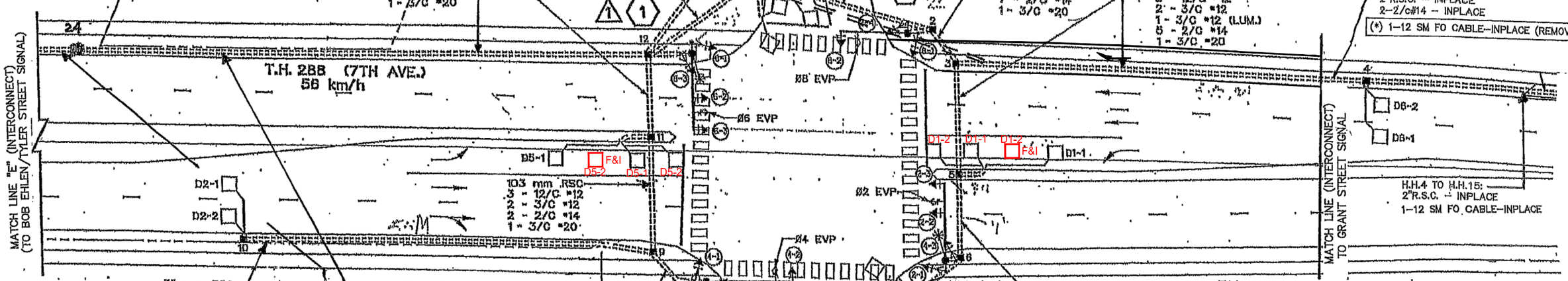
H.H.1 TO H.H.15:
(*) 1.5" CONDUIT-F & I (BORE UNDER ALL DRIVEWAYS/ROADS/SIDEWALKS)
(*) 1-12 SM FIBER-OPTIC CABLE-F & I
(TO GRANT STREET SIGNAL SYSTEM)

(*) 1-12 SM FO CABLE-INPLACE (REMOVE)

(B) SERVICE CABINET FOUNDATION
SIGNAL SERVICE CABINET
EXTEND 35 mm RSC INTO HH-13
3 - 1/C #6
EXTEND 35 mm RSC INTO HH-1
2 - 3/C #12 (LUM.)
EXTEND 35 mm RSC INTO HH-14
3 - 1/C #6

H.H.3 TO H.H.4:
2"R.S.C. - INPLACE
2-2/C#14 - INPLACE
(*) 1-12 SM FO CABLE-INPLACE (REMOVE)

H.H.4 TO H.H.15:
2"R.S.C. - INPLACE
1-12 SM FO CABLE-INPLACE

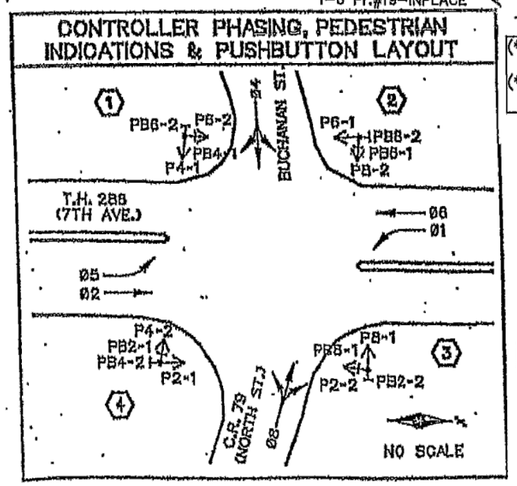


H.H.24 TO H.H.105:
(*) 1.5" CONDUIT-F & I (BORE UNDER ALL DRIVEWAYS/ROADS/SIDEWALKS)
(*) 1-12 SM FIBER-OPTIC CABLE-F & I
(TO BOB EHLEN/TYLER SIGNAL SYSTEM)

(4) PA90 POLE FOUNDATION
TYPE PA90-A-10.7 m
1 - ONE WAY SIGNAL (OVERHEAD)
TYPE 10B POLE MOUNTED AT 90°
TYPE 10B POLE MOUNTED AT 180°
ONE WAY EVP DETECTOR AND LIGHT
(1.8 m FROM END OF MAST ARM), 21 mm HUB
2 - PEDESTRIAN PUSHBUTTONS
EXTEND 78 mm RSC INTO HH-8 WITH:
3 - 12/C #12, 2 - 3/C #12
AND 1 - 3/C #20

(3) PA90 POLE FOUNDATION
TYPE PA90-A-9.1 m-D12.2 m-2.7 m (DAVIT AT 350°)
2 - ONE WAY SIGNALS (OVERHEAD)
(0 AND 3.4 m FROM END OF MAST ARM)
TYPE 10B POLE MOUNTED AT 90°
TYPE 10B POLE MOUNTED AT 180°
LUMINAIRE - 200 WATT H.P.S.
ONE WAY EVP DETECTOR AND LIGHT
(1.8 m FROM END OF MAST ARM), 21 mm HUB
2 - PEDESTRIAN PUSHBUTTONS
1 - R10-12 (36"x48") SIGN ADJACENT TO 2-3
EXTEND 78 mm RSC INTO HH-6 WITH:
3 - 12/C #12, 2 - 3/C #12
1 - 3/C #12 (LUM.) AND 1 - 3/C #20

CONTROLLER PHASING, PEDESTRIAN INDICATIONS & PUSHBUTTON LAYOUT



SIGNAL OPERATION NOTES

- NORMAL OPERATION IS 6 PHASE
- FLASH MODE SHALL BE ALL RED
- Ø1 & Ø5 SHALL BE PROTECTED/PERMISSIVE LEFT TURNS
- Ø2 & Ø6 SHALL BE ON VEHICLE RECALL

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) (*) DENOTES ITEMS TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNDER ITEM NO. 2565 (TRAFFIC CONTROL INTERCONNECT "C"). SEE STATEMENT OF ESTIMATED QUANTITIES AND SPECIAL PROVISIONS.
3) ALL ITEMS OF THIS SIGNAL SYSTEM ARE INPLACE AND SHALL BE REUSED, PROTECTED AND MAINTAINED INPLACE, EXCEPT WHERE BOXED IN AND DENOTED BY BOTH (*) AND BY EITHER F & I (ITEMS TO BE FURNISHED & INSTALLED BY CONTRACTOR) OR BY "REMOVE" (ITEMS TO BE REMOVED & DISPOSED OF BY CONTRACTOR).
4) SEE SPECIAL PROVISIONS FOR INFORMATION REGARDING LABOR AND MATERIALS TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR IN EACH INPLACE TRAFFIC SIGNAL CONTROLLER CABINET AS PART OF THE "TRAFFIC CONTROL INTERCONNECT "C" PAY ITEM.
5) INTERCONNECT BETWEEN BUCHANAN STREET AND THE TH 10 NORTH RAMPS IS INPLACE AND SHALL BE MAINTAINED INPLACE AND IN OPERATION.

20 10 0 20 40
scale feet

NOTE: PLAN IS SCALED IN FEET.

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: July 6, 2018 Name: John M. Gray, PE Lic. No. 22457

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

ANOKA COUNTY, MN
CITY OF ANOKA
SAP 002-030-010

TRAFFIC SIGNAL INTERCONNECT "C"
INTERSECTION LAYOUT
CSAH 7 (7TH AVENUE NW)
AT CO. RD. 79/BUCHANAN STREET

FILE NO. ANOKG 142312

53/115

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