

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 COUNTY FURNISHED MATERIALS.
- 3) LOOP DETECTOR WRES SHALL BE CROSS-LINKED POLYETHYLENE (XLP) IN 21 mm N.M.C. SEE SPECIAL PROVISIONS AND DETAILS.
- 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 A ONE SECTION HAND/WALKING PERSON INDICATION. SEE SPECIAL PROVISIONS.
- 7) ALL "RED" VEHICLE SIGNAL INDICATIONS AND ALL "HAND" PEDESTRIAN SIGNAL INDICATIONS SHALL BE LED. SEE SPECIAL PROVISIONS.
- 8) SEE SPECIAL PROVISIONS REGARDING REMOVAL AND SALVAGING OF INPLACE SIGNAL SYSTEM (INCIDENTAL TO ITEM NO.2565.511).
- 9) SEE SPECIAL PROVISIONS AND DETAILS REGARDING SIGN PANELS TO BE FURNISHED AND INSTALLED BY CONTRACTOR.
- 10) CONTRACTOR SHALL PROVIDE EXTENDED BRACKETS FOR EACH POLE MOUNTED VEHICLE SIGNAL FACE.
- 11) A 21 mm HALF COUPLING, 21 mm PIPE NIPPLE AND CONDUIT OUTLET BODY SHALL BE FURNISHED AND INSTALLED APPROX. 1.8 m FROM THE LEFT END OF EACH MAST ARM (FOR EVP).
- 12) VEHICLE SIGNAL FACES 3-2 AND 4-2 SHALL BE OPTICALLY PROGRAMMED SIGNAL FACES. SEE SPECIAL PROVISIONS.
- 13) (INTERCONNECT) DENOTES ITEMS TO BE MEASURED AND PAID FOR SEPARATELY FROM ITEM NO. 2565.511.

LOOP DETECTORS			
NUMBER	SIZE (m)	LOCATION	FUNCTION
D1-1	2-1.7x1.7	6 m & 15 m	1
D1-2	2-1.7x1.7	1.5 m & 10.5 m	1
D2-1	1.7x1.7	100 m	1
D2-2	1.7x1.7	100 m	1
D3-1	1.7x3.0	35 m	3,8
D3-2	1.7x1.7	AS SHOWN	7
D3-3	2-1.7x1.7	AS SHOWN	7
D4-1	1.7x3.6	35 m	3,8
D4-2	2-1.7x1.7	AS SHOWN	7
D4-3	2-1.7x1.7	AS SHOWN	7
D4-4	3-1.7x1.7	AS SHOWN	1
D5-1	2-1.7x1.7	6 m & 15 m	1
D5-2	2-1.7x1.7	1.5 m & 10.5 m	1
D6-1	1.7x1.7	100 m	1
D6-2	1.7x1.7	100 m	1

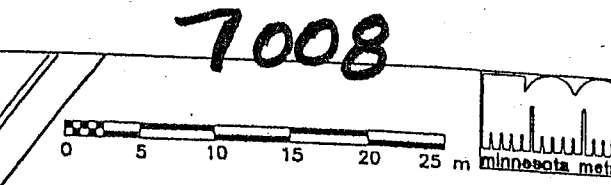
NOTE: LOCATION=DISTANCE FROM STOP BAR TO FRONT OF LOOP DETECTOR.

LOOP DETECTORS FUNCTIONS:

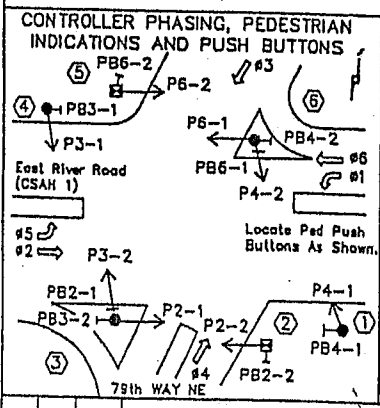
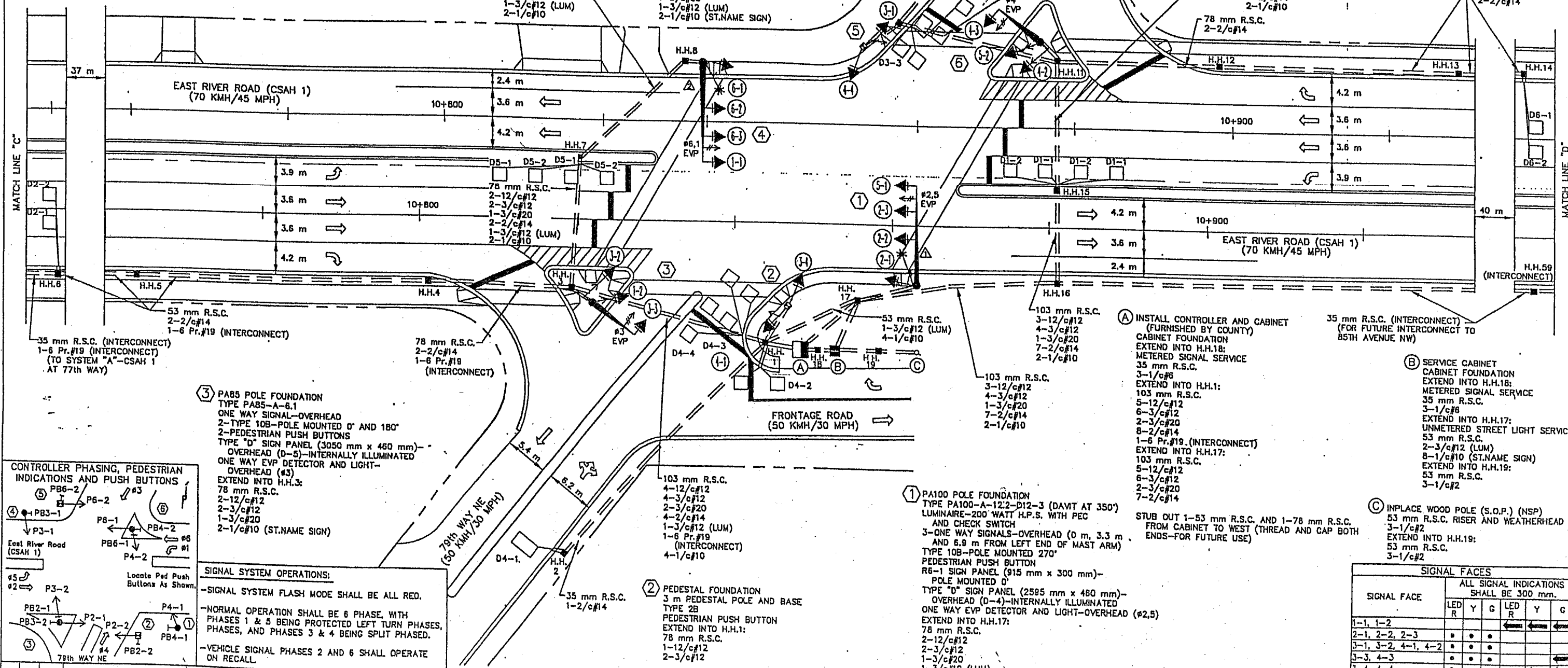
- 1) CALL AND EXTEND
- 2) CALL ONLY
- 3) EXTEND ONLY
- 4) CALL ONLY DENSITY
- 5) DELAYED CALL ONLY
- 6) DELAYED CALL ONLY DENSITY
- 7) DELAYED CALL- IMMEDIATE EXTEND
- 8) CARRY OVER (STRETCH)
- 9) ADVISORY DETECTOR
- 10) SAMPLING DETECTOR
- 11) SPECIAL DETECTOR

- 5) PEDESTAL FOUNDATION
3 m PEDESTAL POLE AND BASE
TYPE 2B
PEDESTRIAN PUSH BUTTON
EXTEND INTO H.H.9:
78 mm R.S.C.
1-12/c#12
2-3/c#12

- 4) PA100 POLE FOUNDATION
TYPE PA100-A-12.2-D12-3 (DAVIT AT 350°)
LUMINAIRE-200 WATT H.P.S. WITH PEC
AND CHECK SWITCH
3-ONE WAY SIGNALS-OVERHEAD (0 m, 3.3 m
AND 6.9 m FROM LEFT END OF MAST ARM)
TYPE 10B-POLE MOUNTED 270°
PEDESTRIAN PUSH BUTTON
R6-1 SIGN PANEL (915 mm x 300 mm)-
POLE MOUNTED 0°
TYPE "D" SIGN PANEL (2595 mm x 460 mm)-
OVERHEAD (D-6)-INTERNALLY ILLUMINATED
ONE WAY EVP DETECTOR AND LIGHT-
OVERHEAD (#6.1)
EXTEND INTO H.H.8:
78 mm R.S.C.
2-12/c#12
2-3/c#12
1-3/c#20
1-3/c#12 (LUM)
2-1/c#10 (ST.NAME SIGN)



- 6) PA85 POLE FOUNDATION
TYPE PA85-A-6.1
ONE WAY SIGNAL-OVERHEAD
2-TYPE 10B-POLE MOUNTED 0° AND 180°
2-PEDESTRIAN PUSH BUTTONS
TYPE "D" SIGN PANEL (3050 mm x 460 mm)-
OVERHEAD (D-7)-INTERNALLY ILLUMINATED
ONE WAY EVP DETECTOR AND LIGHT-OVERHEAD (#4)
EXTEND INTO H.H.11:
78 mm R.S.C.
2-12/c#12
2-3/c#12
1-3/c#20
2-1/c#10 (ST.NAME SIGN)



SIGNAL SYSTEM OPERATIONS:

- SIGNAL SYSTEM FLASH MODE SHALL BE ALL RED.
- NORMAL OPERATION SHALL BE 6 PHASE, WITH PHASES 1 & 5 BEING PROTECTED LEFT TURN PHASES, PHASES, AND PHASES 3 & 4 BEING SPLIT PHASED.
- VEHICLE SIGNAL PHASES 2 AND 6 SHALL OPERATE ON RECALL

I hereby certify that this plan was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the state of Minnesota.

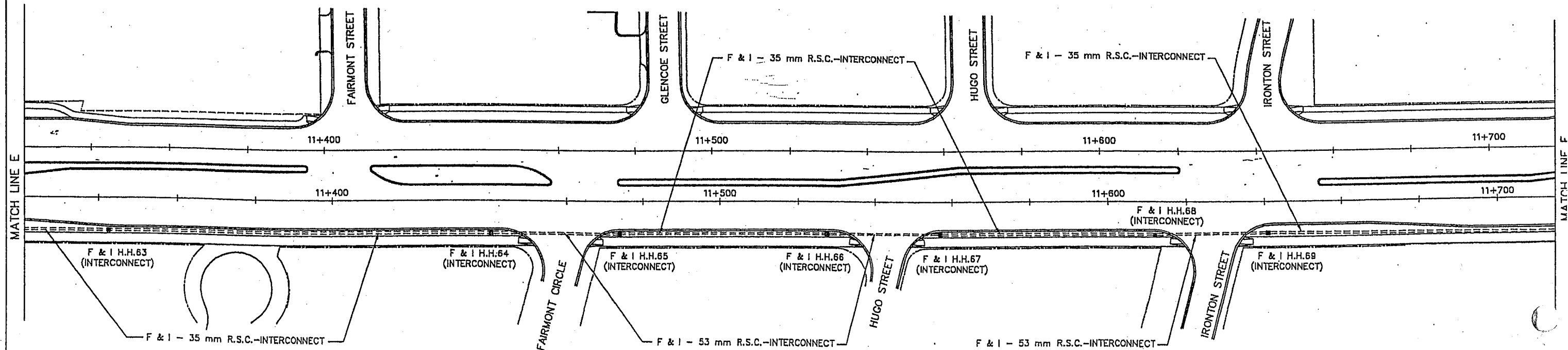
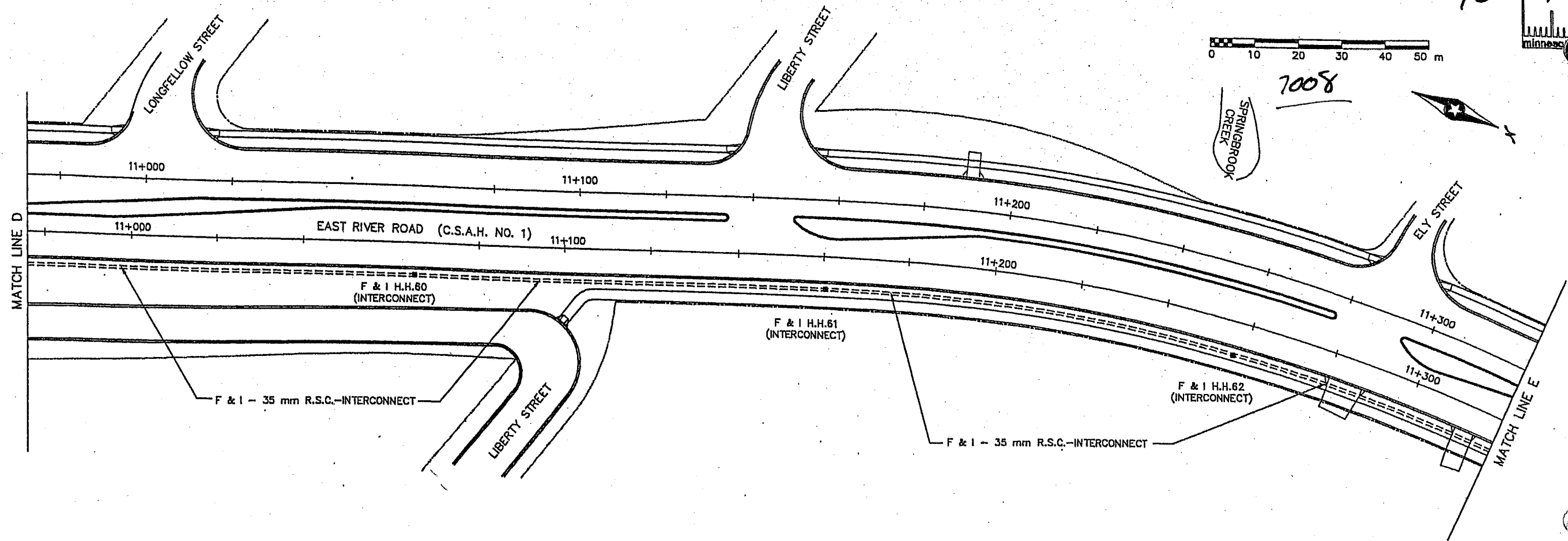


ANOKA COUNTY, MINNESOTA
CITY OF FRIDLEY

TRAFFIC SIGNAL SYSTEM "B"
INTERSECTION LAYOUT

SIGNAL FACES						
SIGNAL FACE	ALL SIGNAL INDICATIONS SHALL BE 300 mm.					
	LED R	Y	G	LED R	Y	G
1-1, 1-2	•	•	•	•	•	•
2-1, 2-2, 2-3	•	•	•	•	•	•
3-1, 3-2, 4-1, 4-2	•	•	•	•	•	•
3-3, 4-3	•	•	•	•	•	•
3-4, 4-4	•	•	•	•	•	•
5-1, 5-2	•	•	•	•	•	•
6-1, 6-2, 6-3	•	•	•	•	•	•

FILE NO.
ANOKC9708 74



NO.	BY	DATE	REVISIONS	ITEM	DESIGN	CHECKED

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John M. Gray



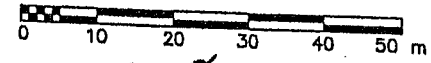
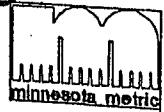
ANOKA COUNTY, MINNESOTA
CITY OF FRIDLEY
S.P. 02-601-37

TRAFFIC SIGNAL INTERCONNECT
MATCH LINES
EAST RIVER ROAD (CSAH 1) (BETWEEN

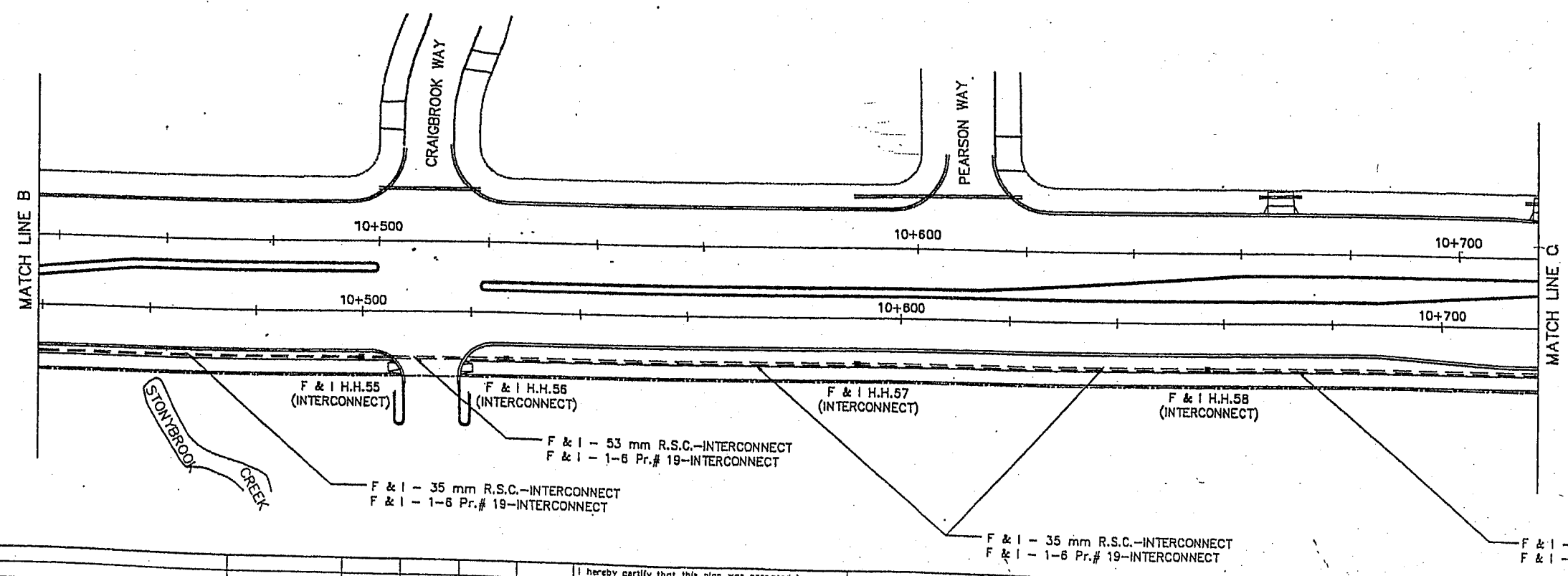
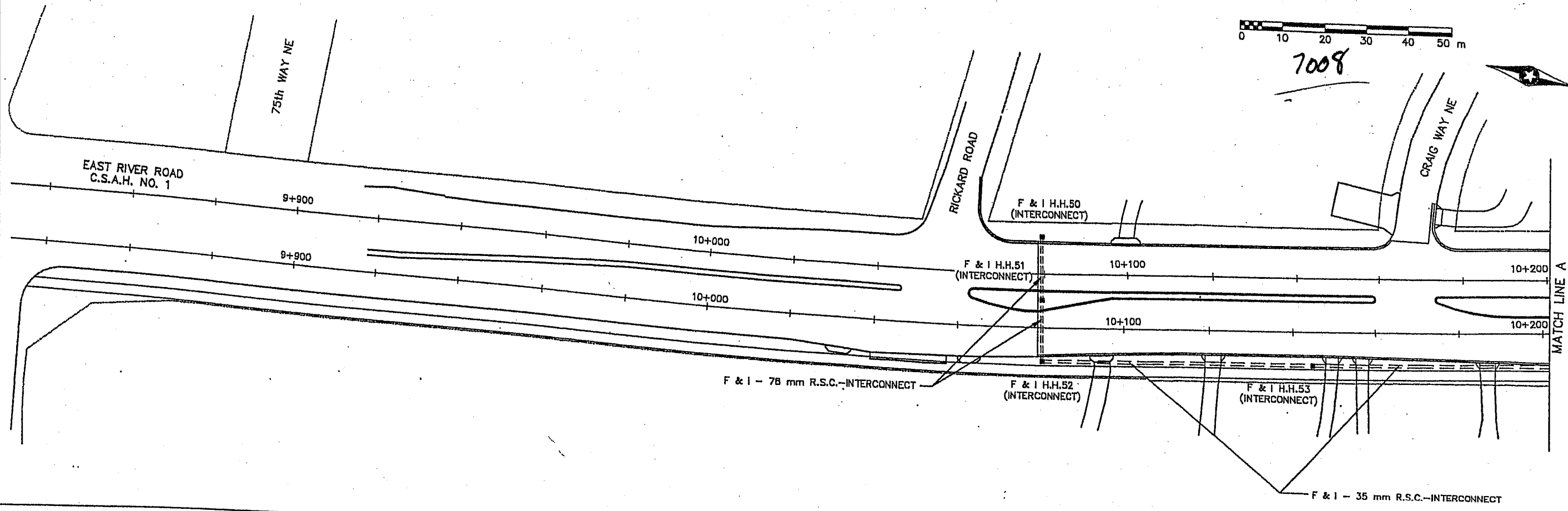
FILE NO.
ANOKC9708
DATE

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7008



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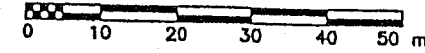
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Date: 2/10/03



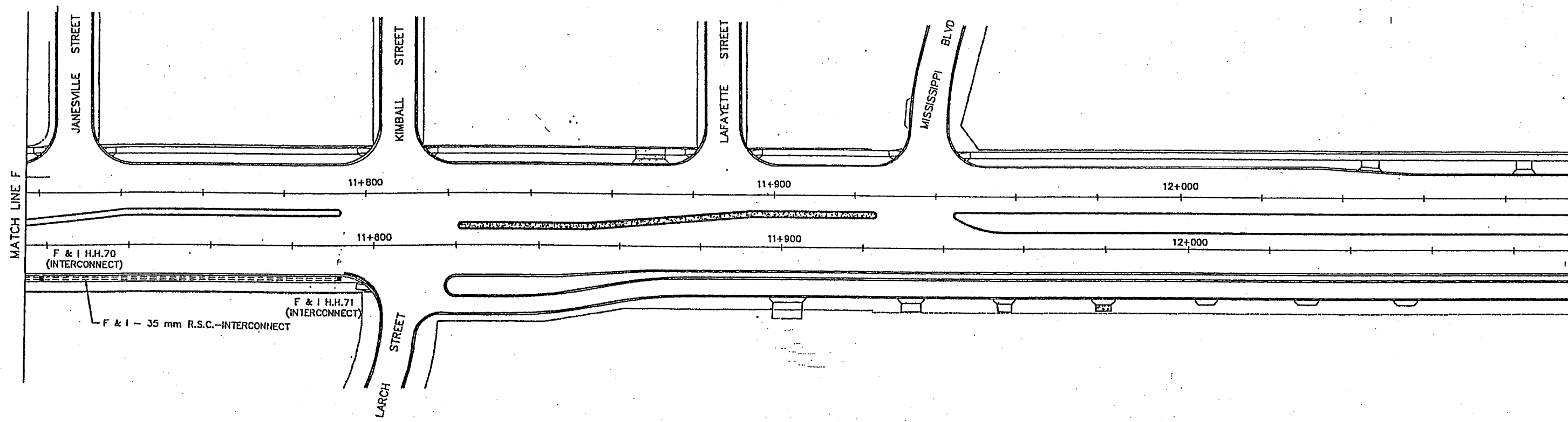
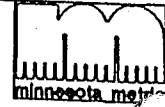
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CITY OF FRIDLEY
S.P. 02-601-37

TRAFFIC SIGNAL INTERCONNECT
MATCH LINES



7008

7008



NO.	BY	DATE	REVISIONS	ITEM	DESIGN	CHECKED

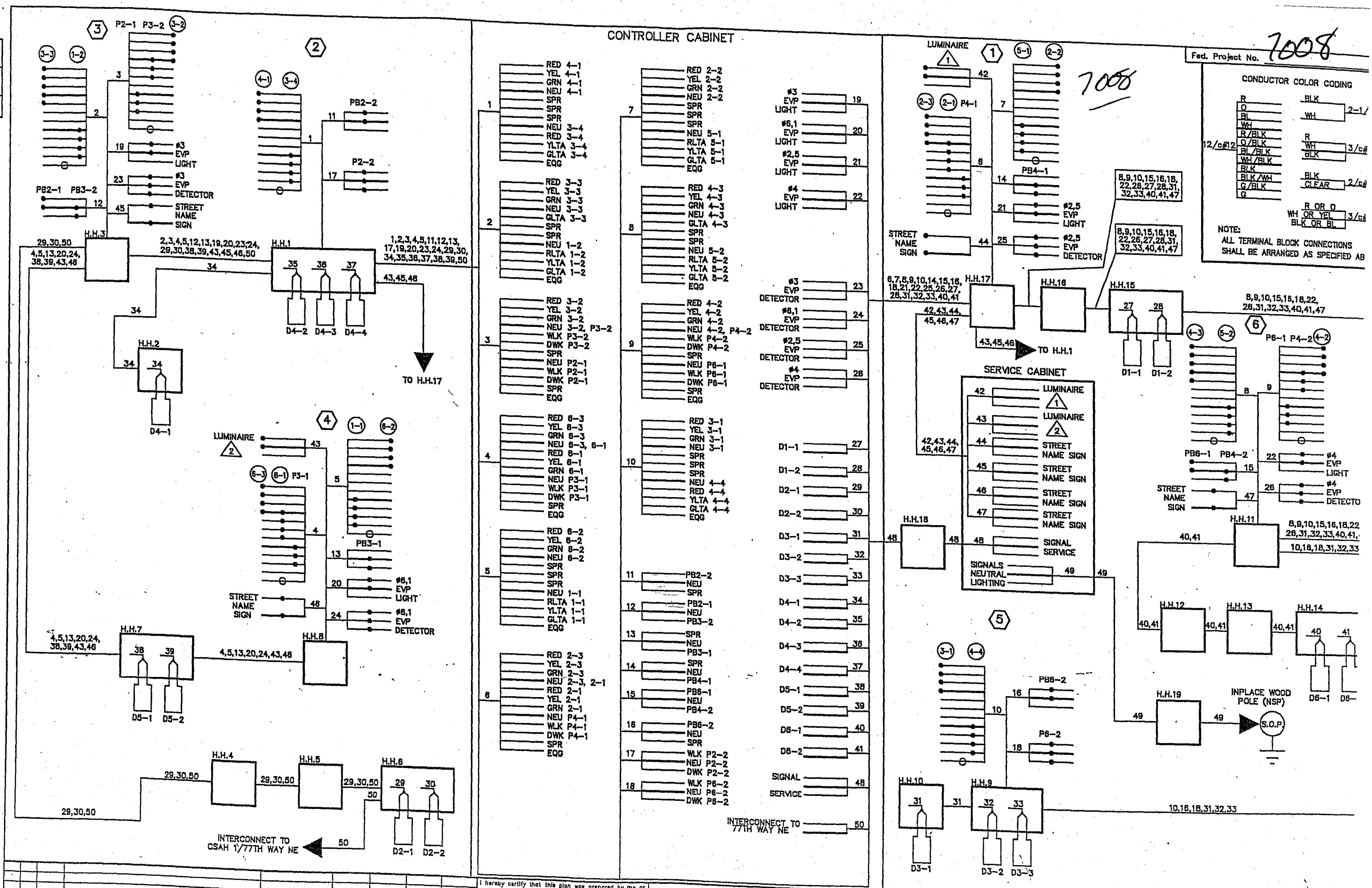
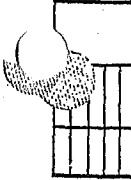
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Date 3/10/98 Reg. No. 22457



ANOKA COUNTY, MINNESOTA
CITY OF FRIDLEY
S.P. 02-601-37
S.P. 127-020-20

TRAFFIC SIGNAL INTERCONNECT
MATCH LINES
EAST RIVER ROAD (CSAH 1) (BETWEEN
79TH WAY NE AND 85TH AVENUE)

FILE NO.
ANOKC9708
DATE



Fed. Project No. **7008**

CONDUCTOR COLOR CODING	
R	BLK
O	WH
BL	WH
WH	WH
R/BLK	R
O/BLK	WH
BL/BLK	BLK
WH/BLK	BLK
BLK	BLK
BLK/WH	BLK
G/BLK	CLEAR
G	CLEAR

NOTE:
ALL TERMINAL BLOCK CONNECTIONS
SHALL BE ARRANGED AS SPECIFIED AB