

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 WIRES 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) INPLACE ITEMS TO BE REUSED INPLACE AS PART OF THE NEW SIGNAL SYSTEM SHALL BE PROTECTED AND MAINTAINED INPLACE. SEE SPECIAL PROVISIONS.
- 10) SEE SPECIAL PROVISIONS AND DETAILS REGARDING SIGN PANELS TO BE FURNISHED AND INSTALLED BY CONTRACTOR.
- 11) CONTRACTOR SHALL PROVIDE EXTENDED BRACKETS FOR EACH POLE MOUNTED VEHICLE SIGNAL FACE.
- 12) 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 MAST ARM 3 AND APPROX. 8.0 m FROM THE LEFT END OF MAST ARMS 1 AND 4 (FOR EVP).
- 13) (S & R) = SALVAGE AND REINSTALL.
- 14) (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	8 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
D4-1	1.7x1.7	INPLACE	3,8
D4-2	3-1.7x1.7	AS SHOWN	7
D4-3	1.7x4.6	AS SHOWN	7
D6-1	1.7x1.7	100 m	1
D6-2	1.7x1.7	100 m	1

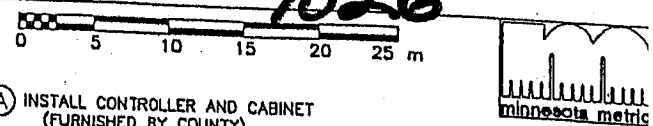
NOTE: LOCATION=DISTANCE FROM STOP BAR TO FRONT OF LOOP DETECTOR.

LOOP DETECTORS FUNCTIONS:

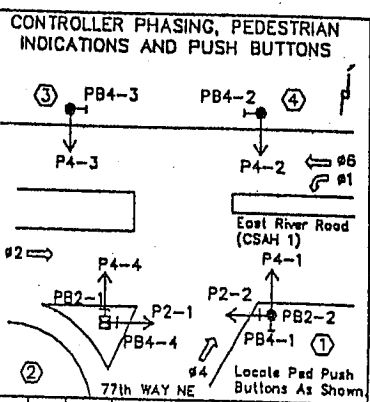
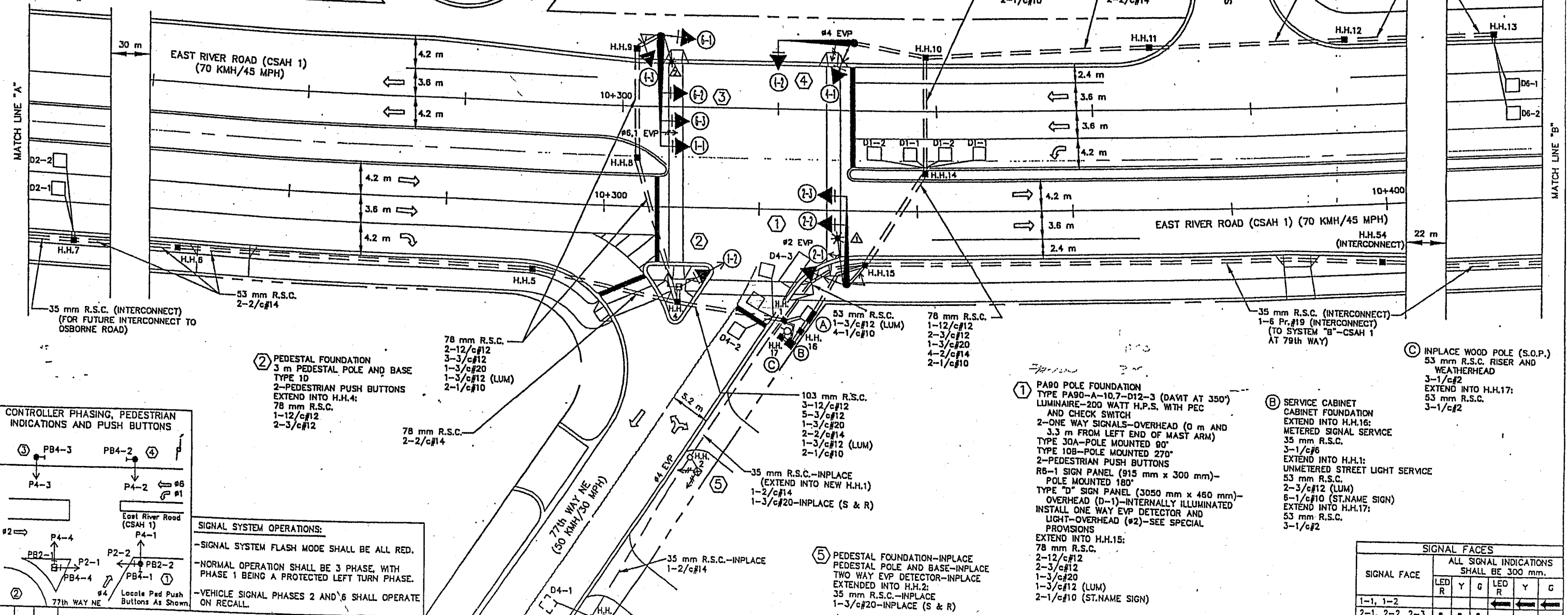
- 1) CALL AND EXTEND
- 2) CALL ONLY
- 3) EXTEND ONLY
- 4) CALL ONLY DENSITY
- 5) DELAYED CALL ONLY
- 6) DELAYED CALL ONLY DENSITY
- 7) DELAYED CALL- IMMEDIATE EXTEND
- 8) CARRY OVER (STRETCH)
- 9) ADVISORY DETECTOR
- 10) SAMPLING DETECTOR
- 11) SPECIAL DETECTOR

- 4) PA80 POLE FOUNDATION
TYPE PA80-A-9.1
ONE WAY SIGNAL-OVERHEAD
TYPE 10B-POLE MOUNTED 0"
PEDESTRIAN PUSH BUTTON
TYPE "D" SIGN PANEL (3050 mm x 460 mm)-
OVERHEAD (D-3)-INTERNALLY ILLUMINATED
INSTALL ONE WAY EVP DETECTOR
AND LIGHT-OVERHEAD (#4)-
SEE SPECIAL PROVISIONS
EXTEND INTO H.H.10:
78 mm R.S.C.
1-12/c#12
2-3/c#12
1-3/c#20
2-1/c#10 (ST.NAME SIGN)

- 3) PA100 POLE FOUNDATION
TYPE PA100-A-13.7-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 90"
TYPE 10A-POLE MOUNTED 270"
PEDESTRIAN PUSH BUTTON
R6-1 SIGN PANEL (915 mm x 300 mm)-
POLE MOUNTED 0"
TYPE "D" SIGN PANEL (3050 mm x 460 mm)-
OVERHEAD (D-2)-INTERNALLY ILLUMINATED
INSTALL ONE WAY EVP DETECTOR AND LIGHT-
OVERHEAD (#6,1)-SEE SPECIAL PROVISIONS
EXTEND INTO H.H.9:
78 mm R.S.C.
2-12/c#12
3-3/c#12
1-3/c#20
1-3/c#12 (LUM)
2-1/c#10 (ST.NAME SIGN)



- INSTALL CONTROLLER AND CABINET
(FURNISHED BY COUNTY)
CABINET FOUNDATION
EXTEND INTO H.H.16:
METERED SIGNAL SERVICE
35 mm R.S.C.
3-1/c#6
EXTEND INTO H.H.1:
103 mm R.S.C.
3-12/c#12
4-3/c#12
2-3/c#20
1-3/c#20-INPLACE (S & R)
5-2/c#14
EXTEND INTO H.H.15:
103 mm R.S.C.
3-12/c#12
4-3/c#12
2-3/c#20
4-2/c#14
1-6 Pr.#19 (INTERCONNECT)
STUB OUT 1-53 mm R.S.C. AND 1-78 mm R.S.C.
FROM CABINET TO SOUTH (THREAD AND CAP BOTH
ENDS-FOR FUTURE USE)



SIGNAL SYSTEM OPERATIONS:

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

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						
4-1, 4-2, 4-3						
6-1, 6-2, 6-3						

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
S.P. 02-601-37

TRAFFIC SIGNAL SYSTEM "A"
INTERSECTION LAYOUT

FILE NO. ANOKC9708

CONTROLLER CABINET

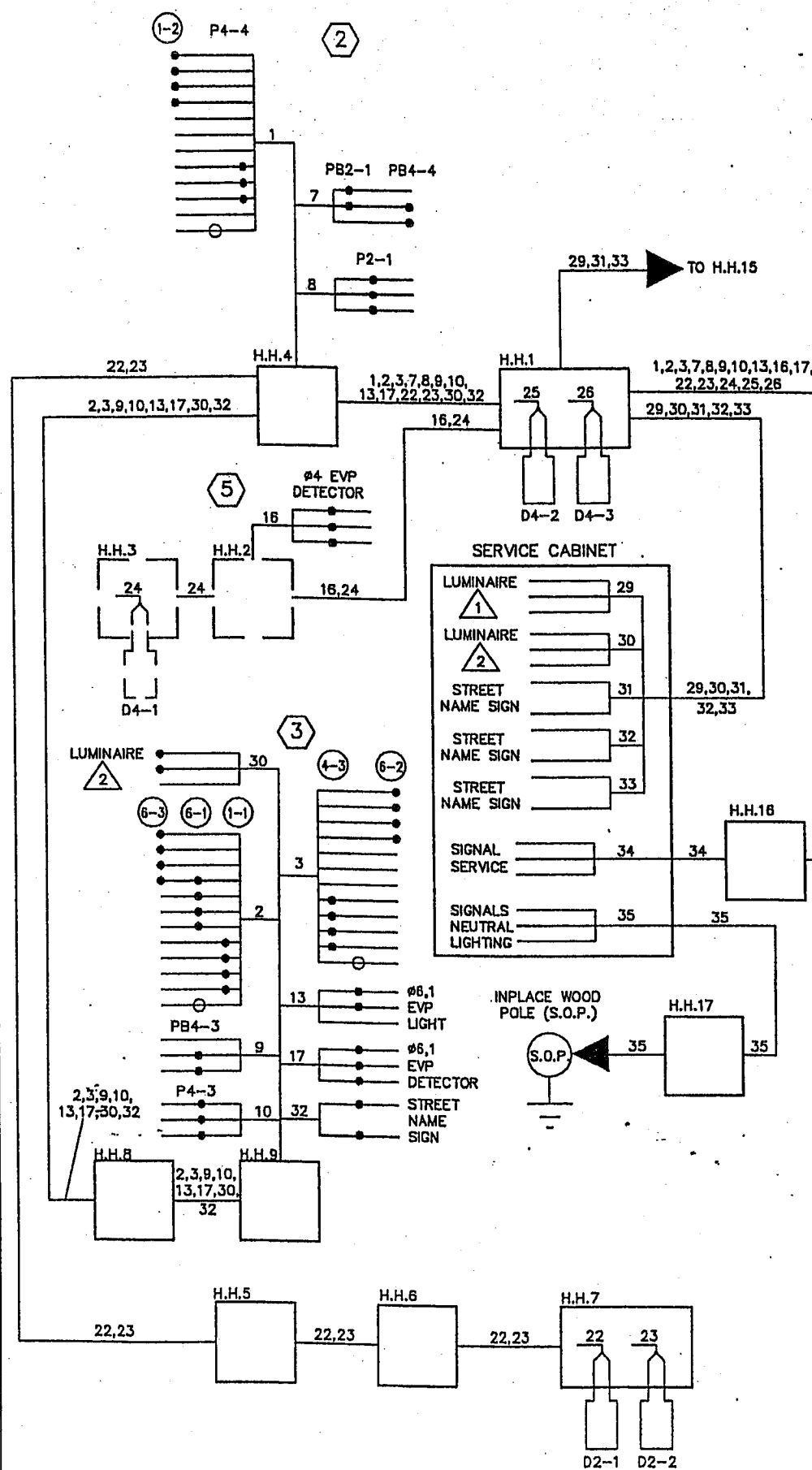
Fed. Project No.

7026

CONDUCTOR COLOR CODING

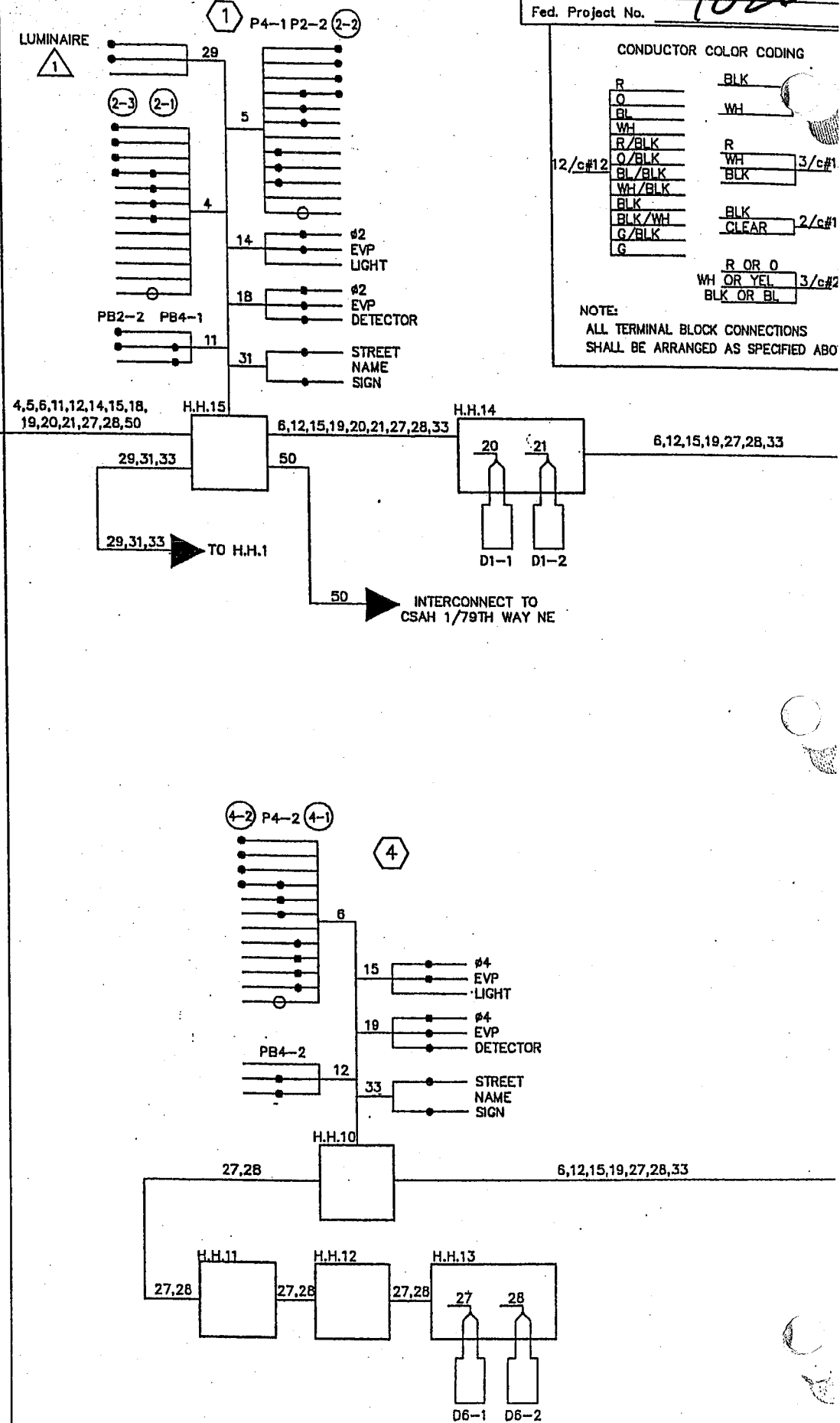
R	BLK
O	WH
BL	
WH	
R/BLK	R
O/BLK	WH
BL/BLK	BLK
WH/BLK	
BLK	BLK
BLK/WH	CLEAR
G/BLK	
G	
R OR O	
WH OR YEL	3/c#2
BLK OR BL	

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



- RLTA 1-2
- YLTA 1-2
- GLTA 1-2
- NEU 1-2
- SPR
- SPR
- NEU P4-4
- WLK P4-4
- DWK P4-4
- SPR
- EQG
- RED 6-3
- YEL 6-3
- GRN 6-3
- NEU 6-3, 6-1
- RED 6-1
- YEL 6-1
- GRN 6-1
- NEU 1-1
- RLTA 1-1
- YLTA 1-1
- GLTA 1-1
- EQG
- RED 6-2
- YEL 6-2
- GRN 6-2
- NEU 6-2
- SPR
- SPR
- NEU 4-3
- RED 4-3
- YEL 4-3
- GRN 4-3
- EQG
- RED 2-3
- YEL 2-3
- GRN 2-3
- NEU 2-3, 2-1
- RED 2-1
- YEL 2-1
- GRN 2-1
- NEU
- SPR
- SPR
- SPR
- EQG
- RED 2-2
- YEL 2-2
- GRN 2-2
- NEU 2-2, P2-2
- WLK P2-2
- DWK P2-2
- SPR
- NEU P4-1
- WLK P4-1
- DWK P4-1
- SPR
- EQG
- RED 4-2
- YEL 4-2
- GRN 4-2
- NEU 4-2, P4-2
- WLK P4-2
- DWK P4-2
- SPR
- NEU 4-1
- RED 4-1
- YEL 4-1
- GRN 4-1
- EQG

- PB2-1
- NEU
- PB4-4
- P2-1 WLK
- P2-1 NEU
- P2-1 DWK
- SPR
- NEU
- PB4-3
- P4-3 WLK
- P4-3 NEU
- P4-3 DWK
- PB2-2
- NEU
- PB4-1
- SPR
- NEU
- PB4-2
- #6,1 EVP LIGHT
- #2 EVP LIGHT
- #4 EVP LIGHT
- #4 (INPLACE) EVP DETECTOR
- #6,1 EVP DETECTOR
- #2 EVP DETECTOR
- #4 EVP DETECTOR
- D1-1
- D1-2
- D2-1
- D2-2
- D4-1
- D4-2
- D4-3
- D6-1
- D6-2
- SIGNAL SERVICE
- INTERCONNECT TO 79TH WAY NE



NO.	BY	DATE	REVISION
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

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John M. Jones

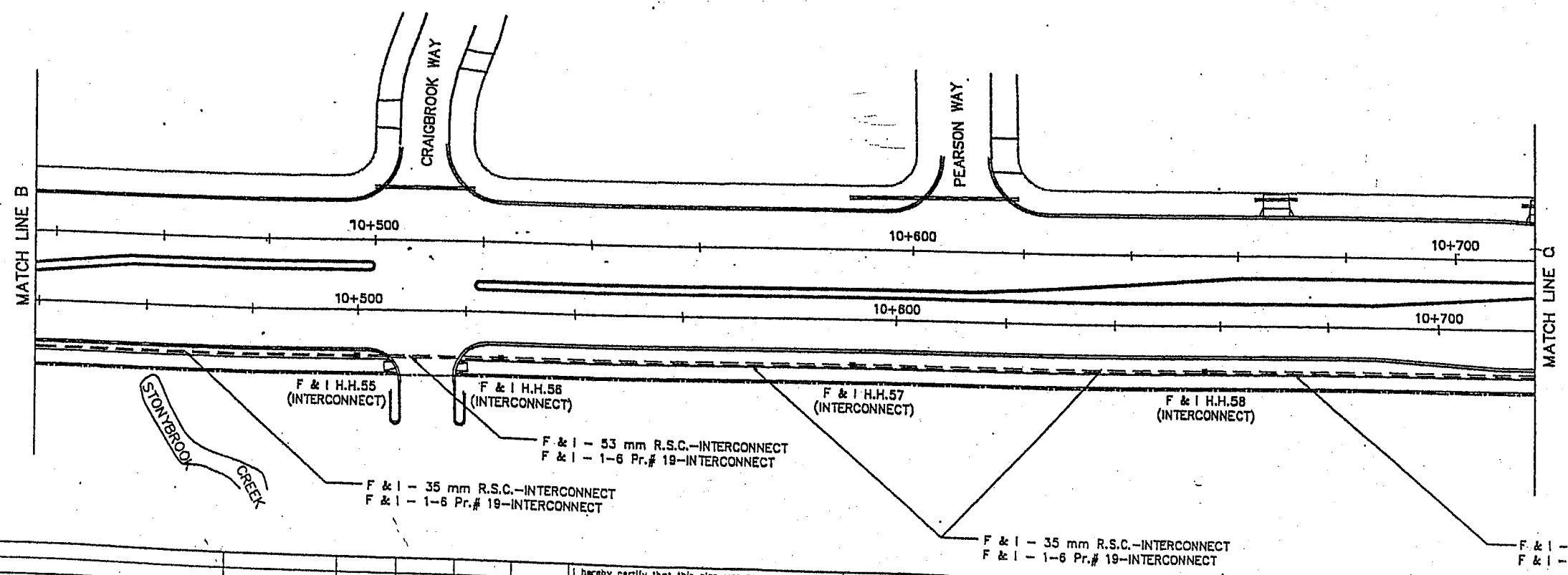
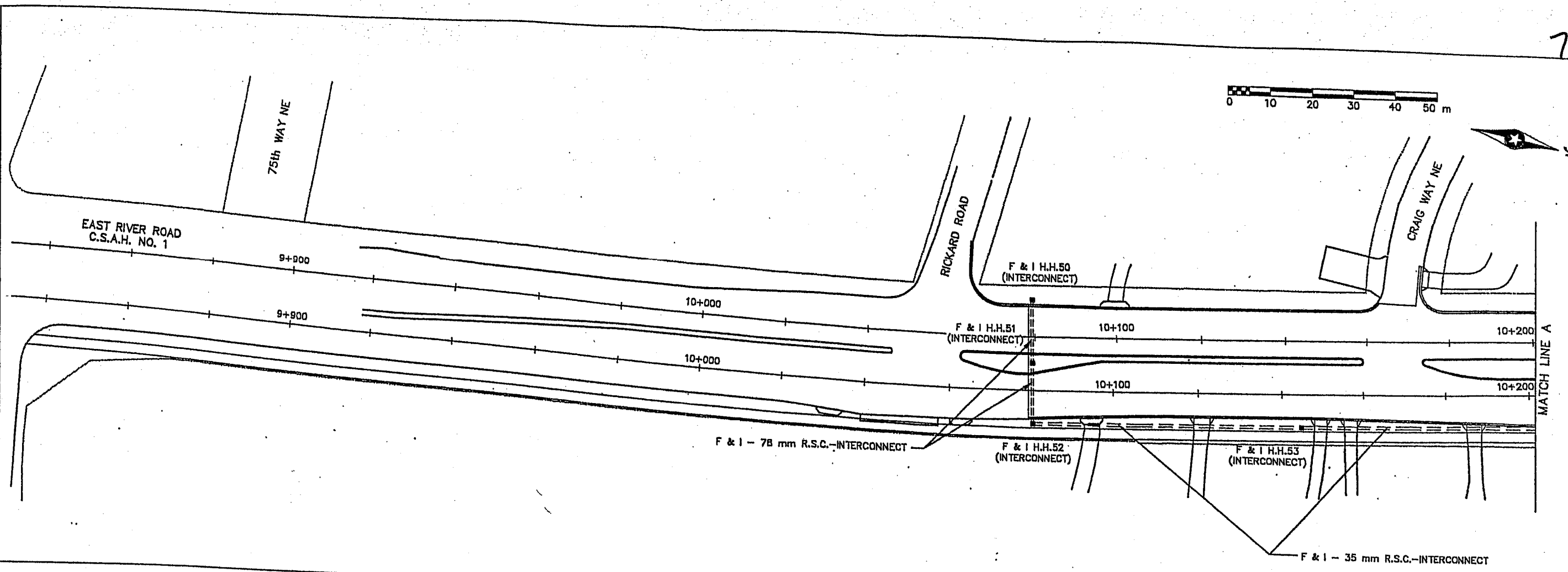
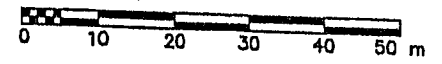


ANOKA COUNTY, MINNESOTA
CITY OF FRIDLEY
S.P. 02-601-37

TRAFFIC SIGNAL SYSTEM "A"
FIELD WIRING DIAGRAM

FILE NO. ANOKC9708
DATE 7/3

7026



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 Registered Professional Engineer under the laws of the state of Minnesota.

John H. [Signature]

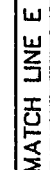
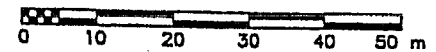


ANOKA COUNTY, MINNESOTA
CITY OF FRIDLEY

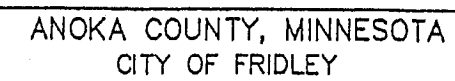
TRAFFIC SIGNAL INTERCONNECT
MATCH LINES

FILE NO.
ANOKC9708 76

minneapolis



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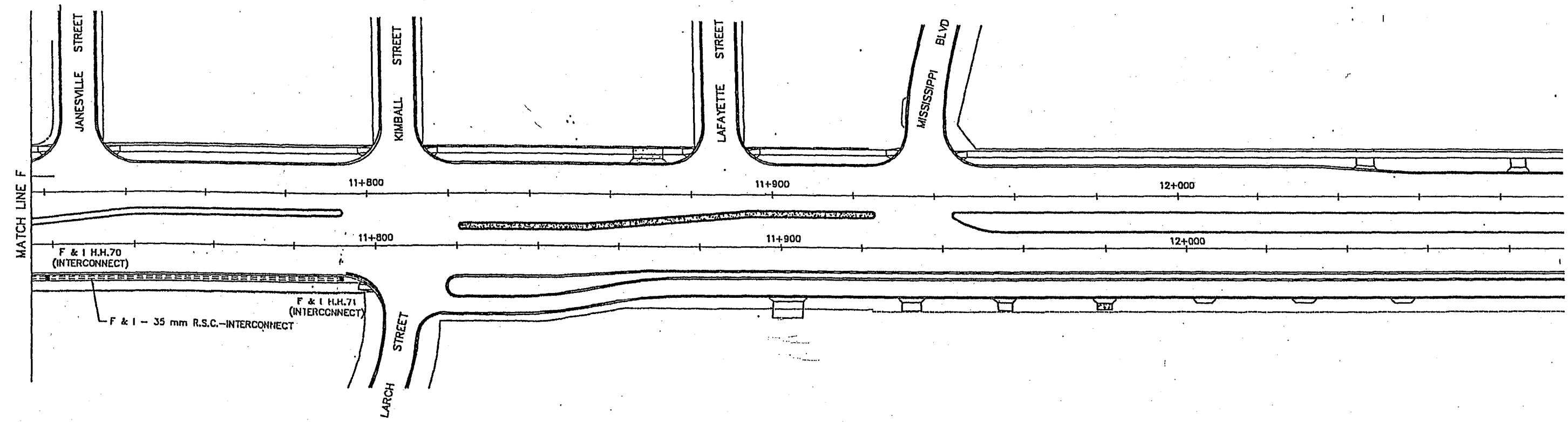
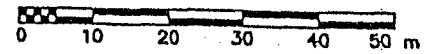
TRAFFIC SIGNAL INTERCONNECT MATCH LINES
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FILE NO.	
ANDKC9708	

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7026

minnesota metric



NO.	BY	DATE	REVISIONS	ITEM	DESIGN	CHECKED

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.

John M. Gray

Date: 3/10/98



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

TRAFFIC SIGNAL INTERCONNECT
MATCH LINES

FILE NO.
ANOKC9708
DATE