

NMC LOOP DETECTORS

NUMBER	SIZE (FEET)	FUNCTION	LOCATION
D1-1	2-6x6	1	20', 50'
D1-2	2-6x6	1	5', 35'
D2-1	1-6x6	1	475'
D2-2	1-6x6	1	475'
D3-1	2-6x6	7	AS SHOWN
D3-2	2-6x6	7	AS SHOWN
D4-1	6x6	3,8	475'
D4-2	2-6x6	7	5', 35'
D4-3	2-6x6	7	5', 35'
D5-1	2-6x6	1	20', 50'
D5-2	2-6x12	1	5' & 35'
D6-1	1-6x6	1	475'
D6-2	1-6x6	1	475'

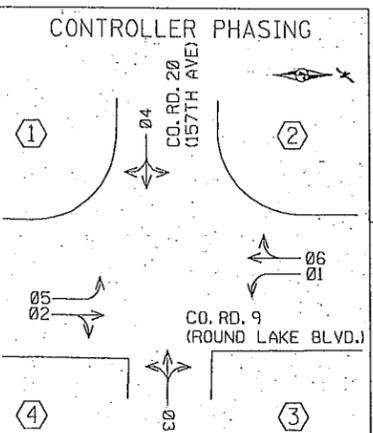
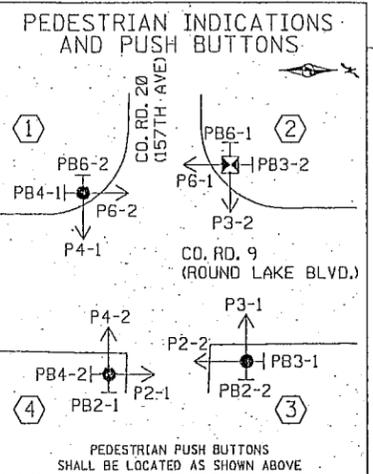
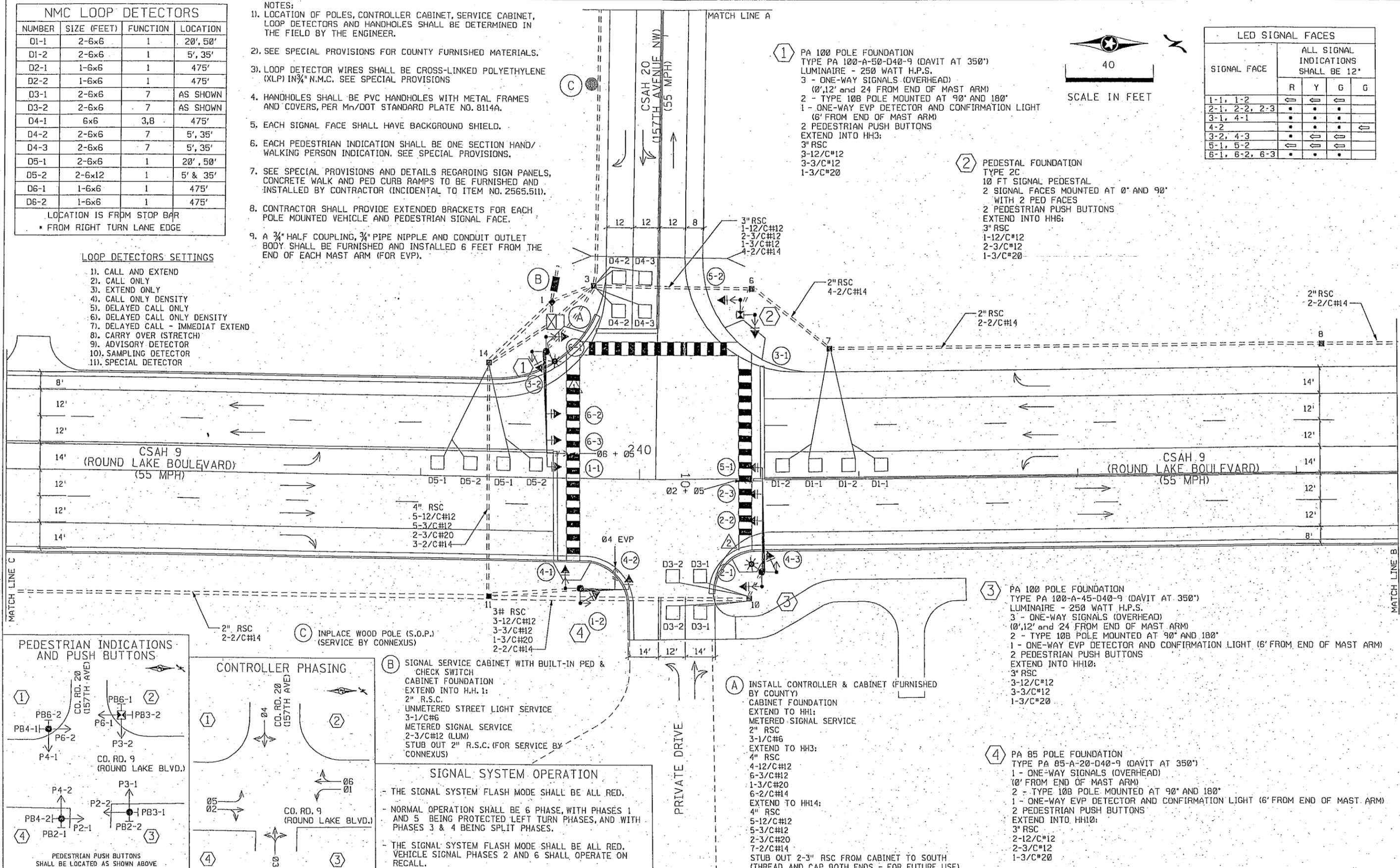
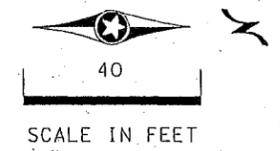
LOCATION IS FROM STOP BAR
FROM RIGHT TURN LANE EDGE

- 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 3/4" N.M.C. SEE SPECIAL PROVISIONS
 4. HANDHOLES SHALL BE PVC HANDHOLES WITH METAL FRAMES AND COVERS, PER Mn/DOT STANDARD PLATE NO. 8114A.
 5. EACH SIGNAL FACE SHALL HAVE BACKGROUND SHIELD.
 6. EACH PEDESTRIAN INDICATION SHALL BE ONE SECTION HAND/WALKING PERSON INDICATION. SEE SPECIAL PROVISIONS.
 7. SEE SPECIAL PROVISIONS AND DETAILS REGARDING SIGN PANELS, CONCRETE WALK AND PED CURB RAMPS TO BE FURNISHED AND INSTALLED BY CONTRACTOR (INCIDENTAL TO ITEM NO. 2565.511).
 8. CONTRACTOR SHALL PROVIDE EXTENDED BRACKETS FOR EACH POLE MOUNTED VEHICLE AND PEDESTRIAN SIGNAL FACE.
 9. A 3/4" HALF COUPLING, 3/4" PIPE NIPPLE AND CONDUIT OUTLET BODY SHALL BE FURNISHED AND INSTALLED 6 FEET FROM THE END OF EACH MAST ARM (FOR EVP).

- LOOP DETECTORS SETTINGS**
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

LED SIGNAL FACES

SIGNAL FACE	ALL SIGNAL INDICATIONS SHALL BE 12"			
	R	Y	G	G
1-1, 1-2	◀	◀	◀	◀
2-1, 2-2, 2-3	•	•	•	•
3-1, 4-1	•	•	•	•
4-2	•	•	•	◀
3-2, 4-3	◀	◀	◀	◀
5-1, 5-2	◀	◀	◀	◀
6-1, 6-2, 6-3	•	•	•	•



SIGNAL SYSTEM OPERATION

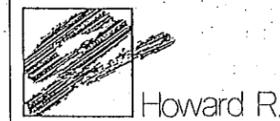
- THE SIGNAL SYSTEM FLASH MODE SHALL BE ALL RED.
- NORMAL OPERATION SHALL BE 6 PHASE, WITH PHASES 1 AND 5 BEING PROTECTED LEFT TURN PHASES, AND WITH PHASES 3 & 4 BEING SPLIT PHASES.
- THE SIGNAL SYSTEM FLASH MODE SHALL BE ALL RED. VEHICLE SIGNAL PHASES 2 AND 6 SHALL OPERATE ON RECALL.

DESIGNED BY: WCK DRAWN BY: WCK
 APPROVED BY: SJM JOB NUMBER: 018750J
 CAD DATE: 11/9/2005 11:43:23 AM
 CAD FILE: #FILE#

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.

DATE 02-11-2005 REG. NO. 22428

NO.	DATE	BY	REVISION DESCRIPTION



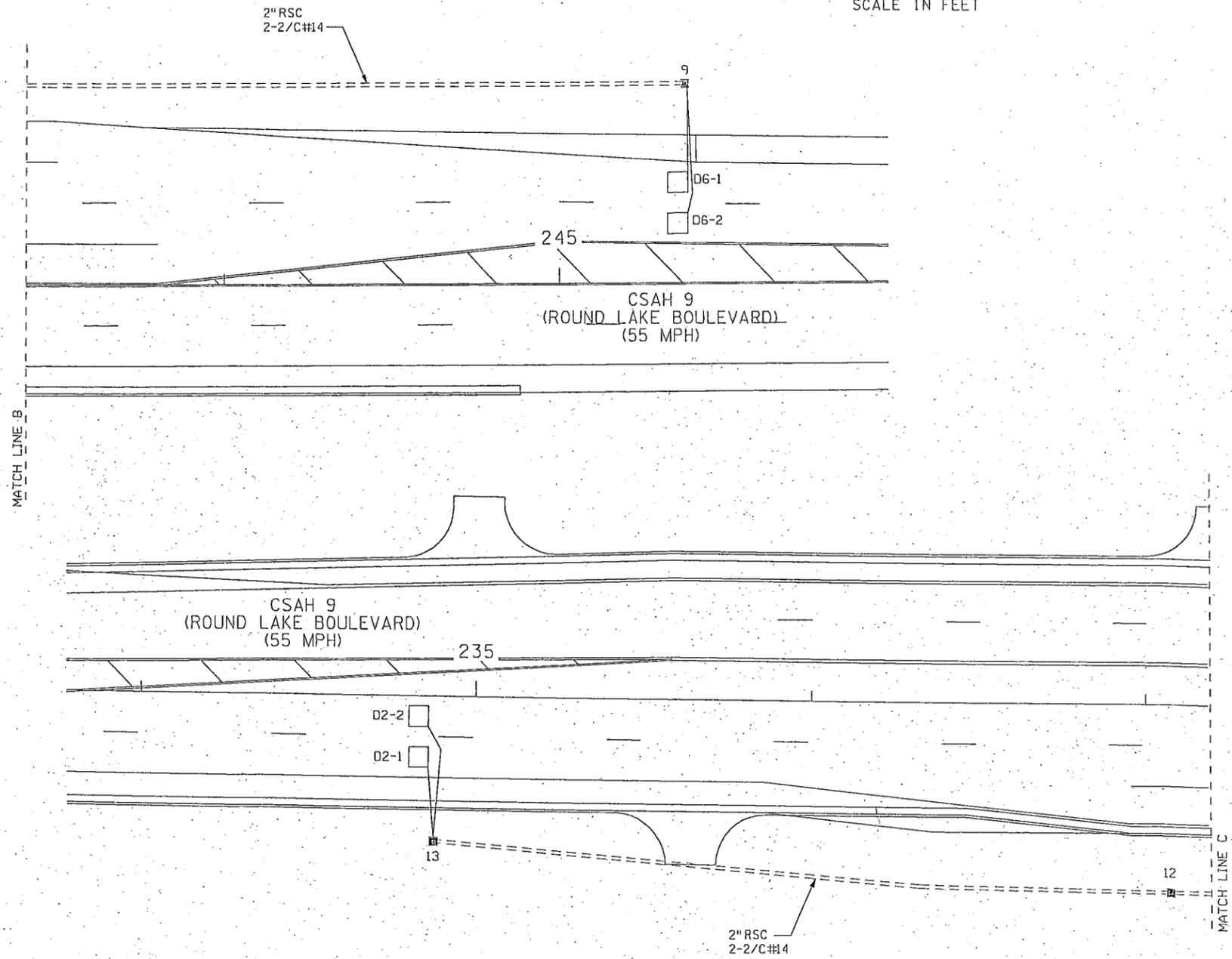
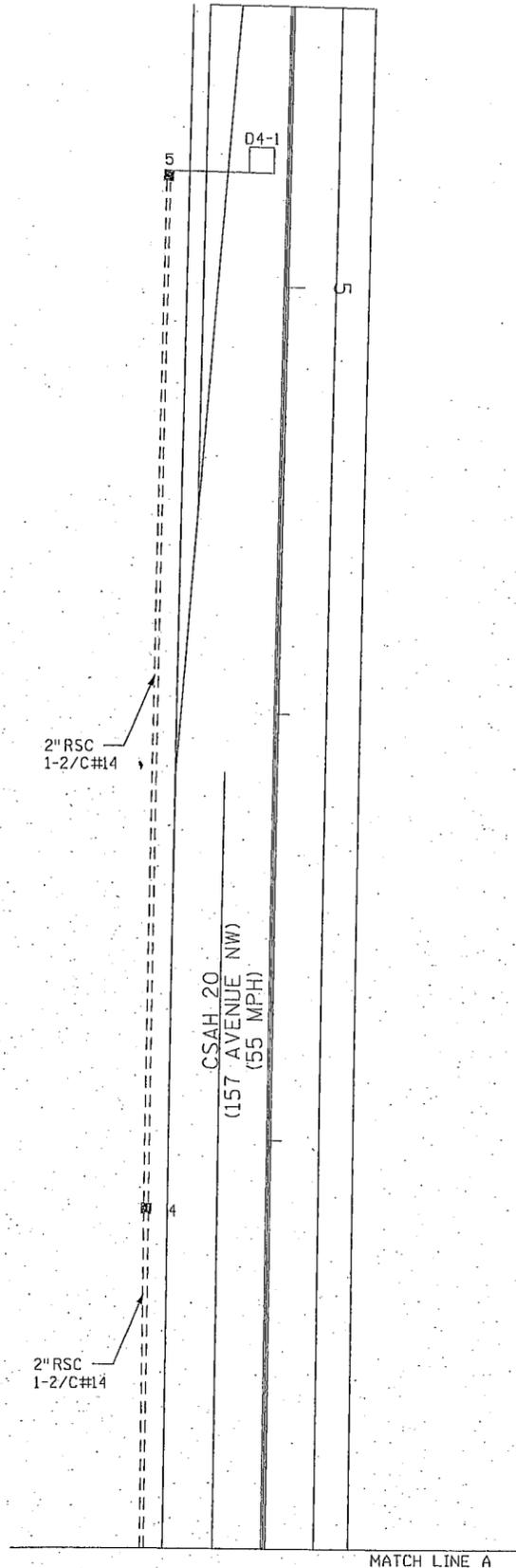
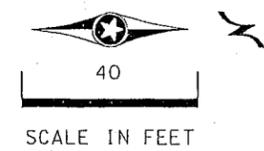
2550 UNIVERSITY AVENUE W SUITE 400N
 ST. PAUL, MINNESOTA 55114
 (651) 644-4389

Howard R. Green Company

ANOKA COUNTY
 CSAH 9 AND CSAH 20
 SP 02-609-13 (COUNTY)
 SP 198-020-19 (CITY)

TRAFFIC SIGNAL SYSTEM
 INTERSECTION LAYOUT

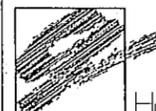
SHEET NO.
 59



DESIGNED BY: WCK DRAWN BY: WCK
 APPROVED BY: SJM JOB NUMBER: B18750J
 CAD DATE: 11/9/2005 11:41:58 AM
 CAD FILE: *FILE*

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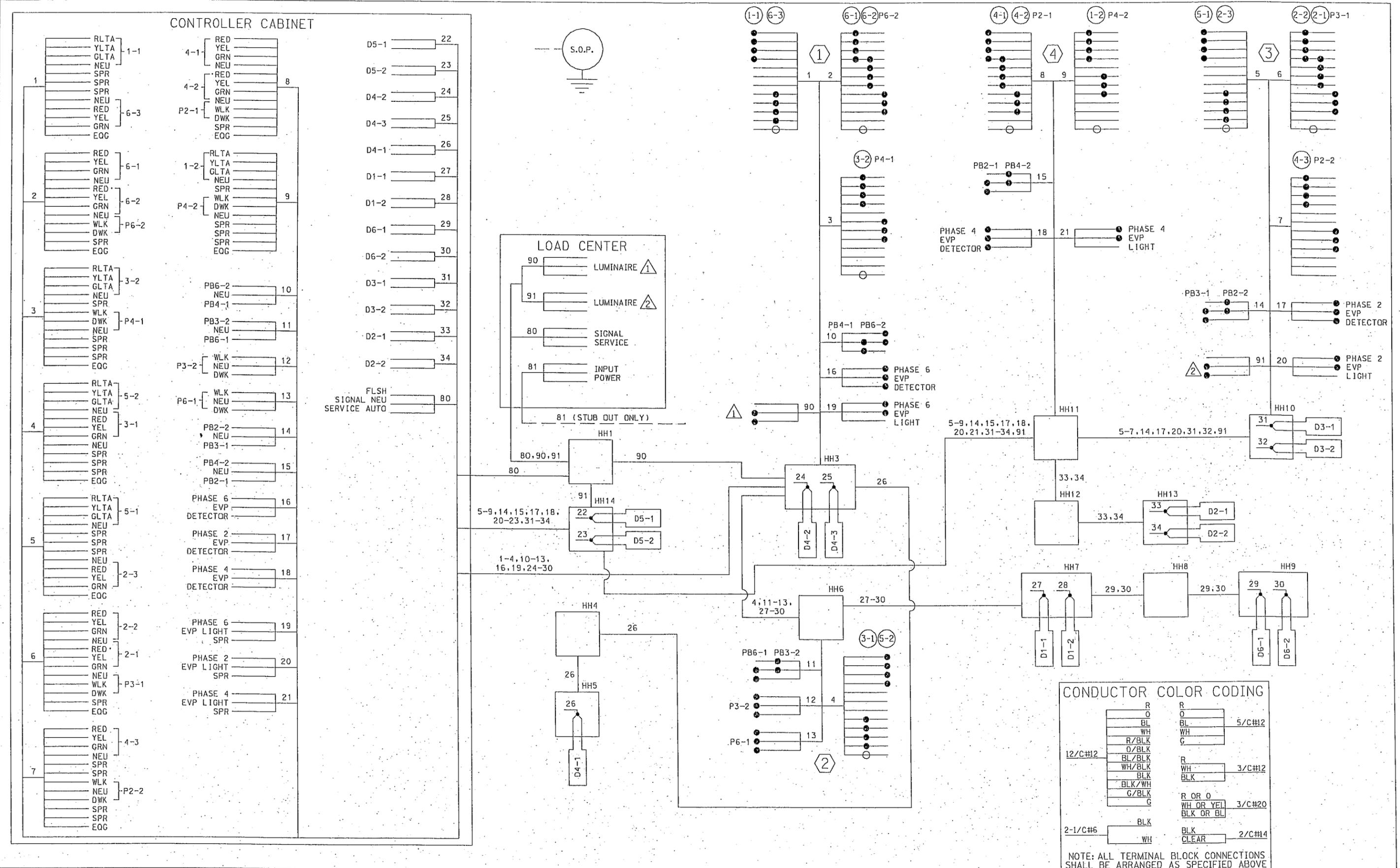
NO.	DATE	BY	REVISION DESCRIPTION

2550 UNIVERSITY AVENUE W / SUITE 400N
 ST. PAUL, MINNESOTA 55114
 (651) 644-4389
 Howard R. Green Company

ANOKA COUNTY
 CSAH 9 AND CSAH 20
 SP 02-609-13 (COUNTY)
 SP 198-020-19 (CITY)

TRAFFIC SIGNAL SYSTEM
 CONDUIT LAYOUT

SHEET NO.
 60



CONDUCTOR COLOR CODING

R	R
O	O
BL	BL
WH	WH
R/BLK	5/C#12
O/BLK	
BL/BLK	
WH/BLK	3/C#12
BLK	
BLK/WH	
G/BLK	
G	R OR O
	WH OR YEL
	3/C#20
	BLK OR BL
BLK	
2-1/C#6	BLK CLEAR
WH	2/C#14

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

DESIGNED BY: WCK DRAWN BY: WCK
 APPROVED BY: SJM JOB NUMBER: 818750J
 CAD DATE: 11/9/2005 11:44:31 AM
 CAD FILE: *FILES*

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NO.	DATE	BY	REVISION DESCRIPTION

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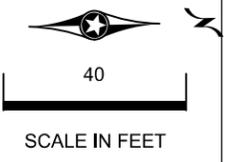
ANOKA COUNTY
CSAH 9 AND CSAH 20
 SP 02-609-13 (COUNTY)
 SP 198-020-19 (CITY)

**TRAFFIC SIGNAL SYSTEM
 WIRING DIAGRAM**

SHEET NO.
61

1:39:43 PM

9/25/2025



FO VAULT 117 TO FO VAULT 118:
1.5" CONDUIT W/ TRACER - INPLACE
F & I (***) 1-12 SM FO CABLE

MATCHLINE FF

MATCHLINE GG

ROUND LAKE BLVD (CSAH 9)
(55 MPH)



- 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.
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 - 4) (F & I) DENOTES ITEMS TO BE FURNISHED AND INSTALLED BY CONTRACTOR AS PART OF THIS PROJECT.

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MODEL: sgl46

MATCHLINE GG

FO VAULT 117 TO FO VAULT 118, AND
FO VAULT 118 TO CONTROLLER CABINET:
1.5" CONDUIT W/ TRACER - INPLACE
F & I (***) 1-12 SM FO CABLE

INPLACE CONTROLLER CABINET

FO VAULT 118 - INPLACE

157TH AVE NW
(50 MPH)

ROUND LAKE BLVD (CSAH 9)
(55 MPH)



DESIGN TEAM	NO.	BY	DATE	REVISIONS
DRAWN BY: MRB				
DESIGNER: MRB				
CHECKED BY: JMG				

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.

John M. Gray
Printed Name: JOHN M. GRAY
Lic. No. 22457 Date: 09/23/2025



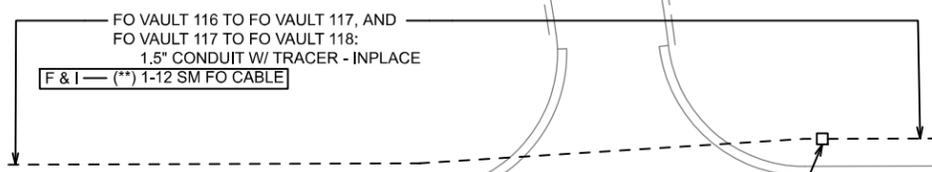
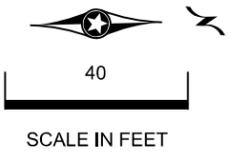
ANOKA COUNTY, MN
CSAH 9
SAP 002-609-023
CITY OF ANDOVER SAP 198-020-042, CITY PROJECT 25-13
CITY OF ANOKA SAP 103-020-020

TRAFFIC SIGNAL INTERCONNECT
INTERCONNECT
CSAH 9 (ROUND LAKE BOULEVARD) BETWEEN 143RD AVENUE AND 157TH AVE

1:39:42 PM

9/25/2025

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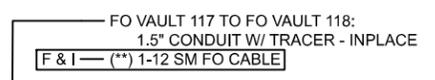


FO VAULT 117 - INPLACE

MATCHLINE DD

MATCHLINE EE

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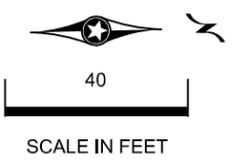
156TH AVE NW

154TH LN NW

MATCHLINE EE

MATCHLINE FF

ROUND LAKE BLVD (CSAH 9)
(55 MPH)



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DESIGNER: MRB				
CHECKED BY: JMG				

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John M. Gray
Printed Name: JOHN M. GRAY
Certified By: Licensed Professional Engineer Lic. No. 22457 Date: 09/23/2025



ANOKA COUNTY, MN
CSAH 9
SAP 002-609-023
CITY OF ANDOVER SAP 198-020-042, CITY PROJECT 25-13
CITY OF ANOKA SAP 103-020-020

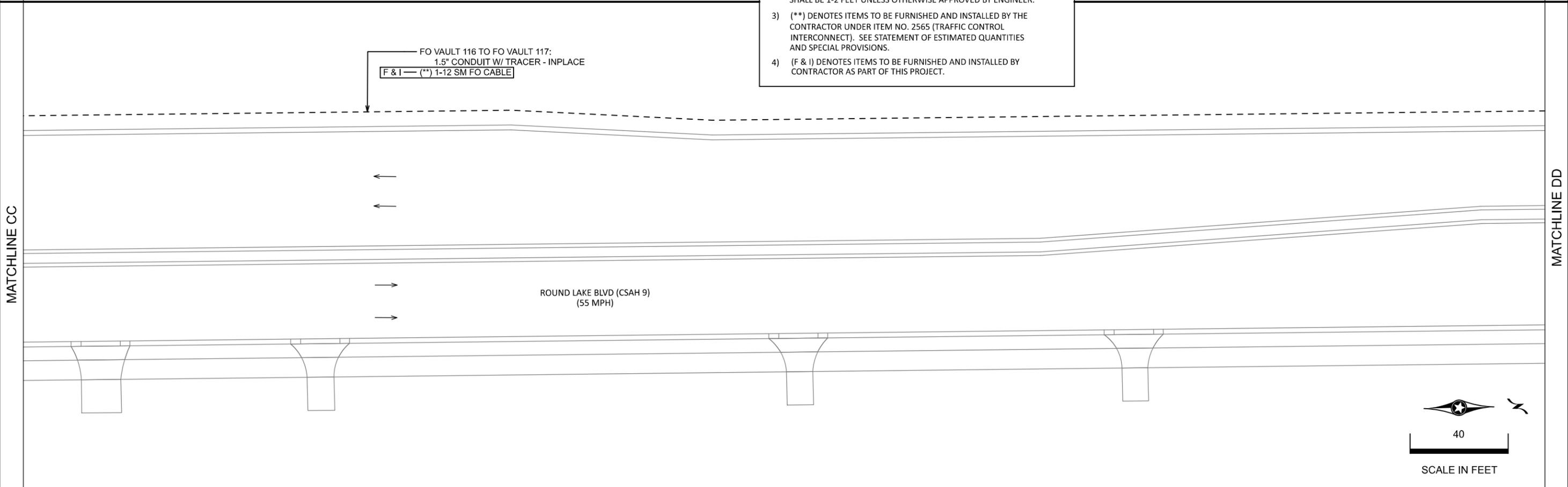
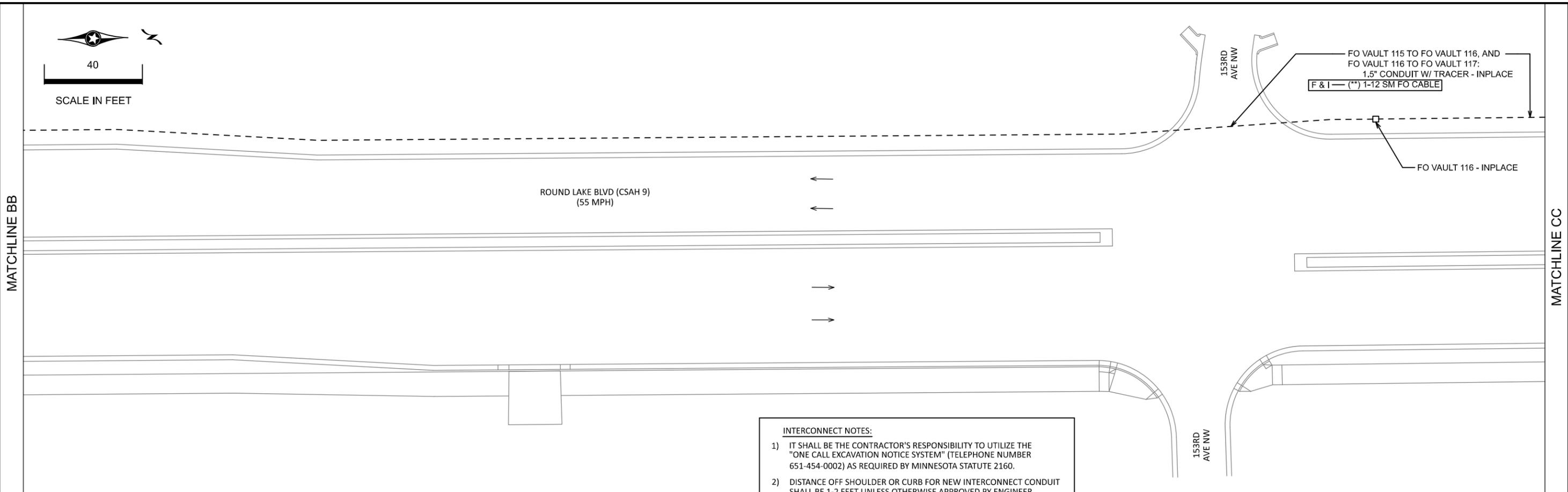
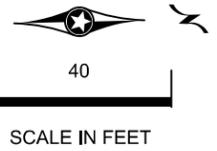
TRAFFIC SIGNAL INTERCONNECT
INTERCONNECT
CSAH 9 (ROUND LAKE BOULEVARD) BETWEEN 143RD AVENUE AND 157TH AVE

132
133

1:39:41 PM

9/25/2025

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MODEL: sgl44



INTERCONNECT NOTES:

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DESIGNER: MRB				
CHECKED BY: JMG				

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 Lic. No. 22457 Date: 09/23/2025



ANOKA COUNTY, MN
 CSAH 9
 SAP 002-609-023
 CITY OF ANDOVER SAP 198-020-042, CITY PROJECT 25-13
 CITY OF ANOKA SAP 103-020-020

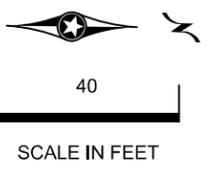
TRAFFIC SIGNAL INTERCONNECT
 INTERCONNECT
 CSAH 9 (ROUND LAKE BOULEVARD) BETWEEN 143RD AVENUE AND 157TH AVE

131
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9/25/2025

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MODEL: sgl43



MATCHLINE Z

MATCHLINE AA

MATCHLINE AA

MATCHLINE BB

FO VAULT 114 TO FO VAULT 115:
1.5" CONDUIT W/ TRACER - INPLACE
F & I (**) 1-12 SM FO CABLE

ROUND LAKE BLVD (CSAH 9)
(55 MPH)

150TH LN NW

152ND LN NW

FO VAULT 114 TO FO VAULT 115, AND
FO VAULT 115 TO FO VAULT 116:
1.5" CONDUIT W/ TRACER - INPLACE
F & I (**) 1-12 SM FO CABLE

FO VAULT 115 - INPLACE

ROUND LAKE BLVD (CSAH 9)
(55 MPH)

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ANOKA COUNTY, MN
CSAH 9
SAP 002-609-023
CITY OF ANDOVER SAP 198-020-042, CITY PROJECT 25-13
CITY OF ANOKA SAP 103-020-020

TRAFFIC SIGNAL INTERCONNECT
INTERCONNECT
CSAH 9 (ROUND LAKE BOULEVARD) BETWEEN 143RD AVENUE AND 157TH AVE

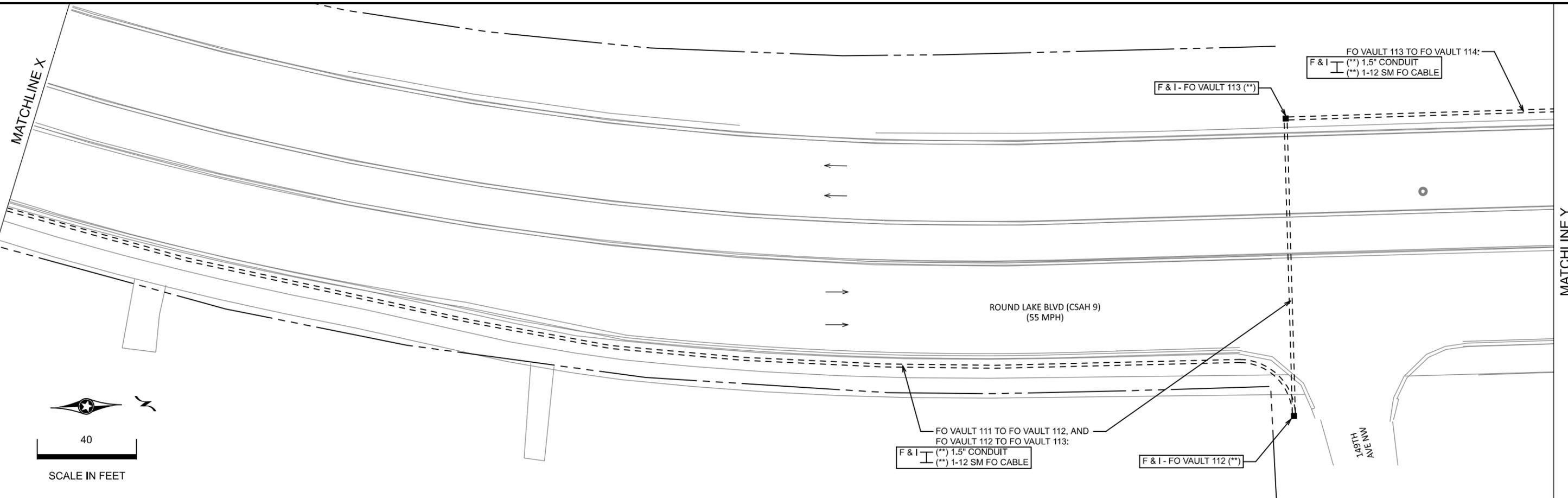
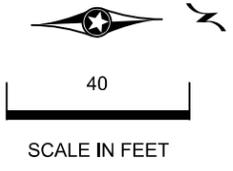
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133

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9/25/2025

MATCHLINE X

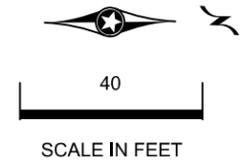
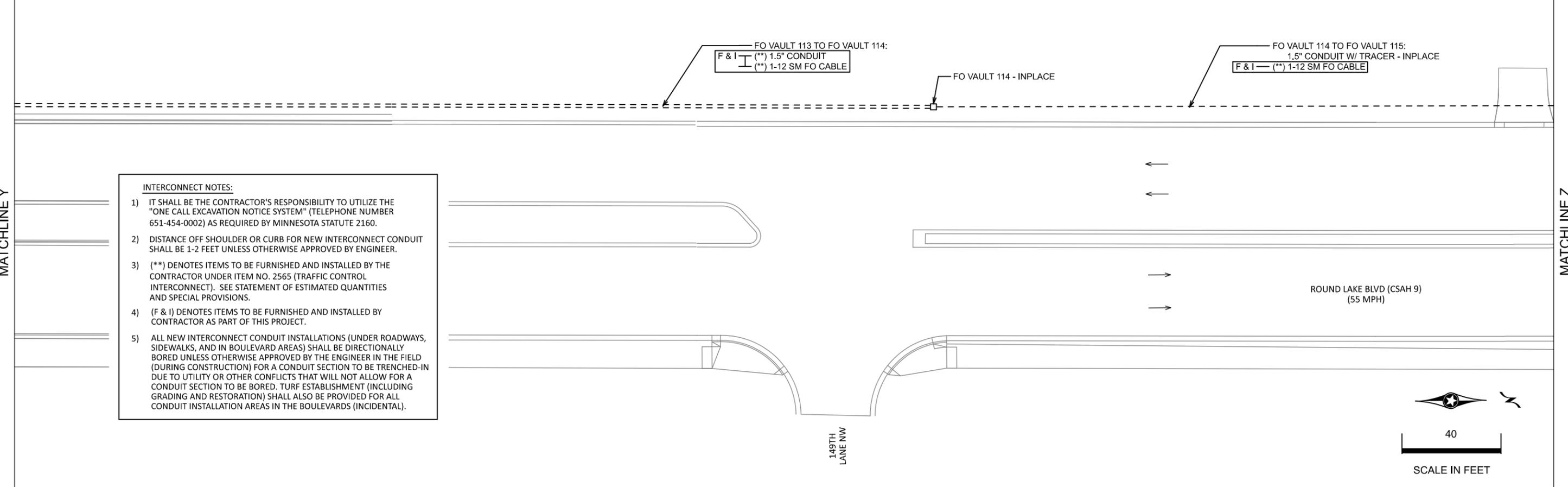
MATCHLINE Y



MATCHLINE Y

MATCHLINE Z

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 - 5) ALL NEW INTERCONNECT CONDUIT INSTALLATIONS (UNDER ROADWAYS, SIDEWALKS, AND IN BOULEVARD AREAS) SHALL BE DIRECTIONALLY BORED UNLESS OTHERWISE APPROVED BY THE ENGINEER IN THE FIELD (DURING CONSTRUCTION) FOR A CONDUIT SECTION TO BE TRENCHED-DUE TO UTILITY OR OTHER CONFLICTS THAT WILL NOT ALLOW FOR A CONDUIT SECTION TO BE BORED. TURF ESTABLISHMENT (INCLUDING GRADING AND RESTORATION) SHALL ALSO BE PROVIDED FOR ALL CONDUIT INSTALLATION AREAS IN THE BOULEVARDS (INCIDENTAL).



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 MODEL: sgl42

DESIGN TEAM	NO.	BY	DATE	REVISIONS
DRAWN BY: MRB				
DESIGNER: MRB				
CHECKED BY: JMG				

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 License No. 22457 Date: 09/23/2025

ANOKA COUNTY, MN
 CSAH 9
 SAP 002-609-023
 CITY OF ANDOVER SAP 198-020-042, CITY PROJECT 25-13
 CITY OF ANOKA SAP 103-020-020

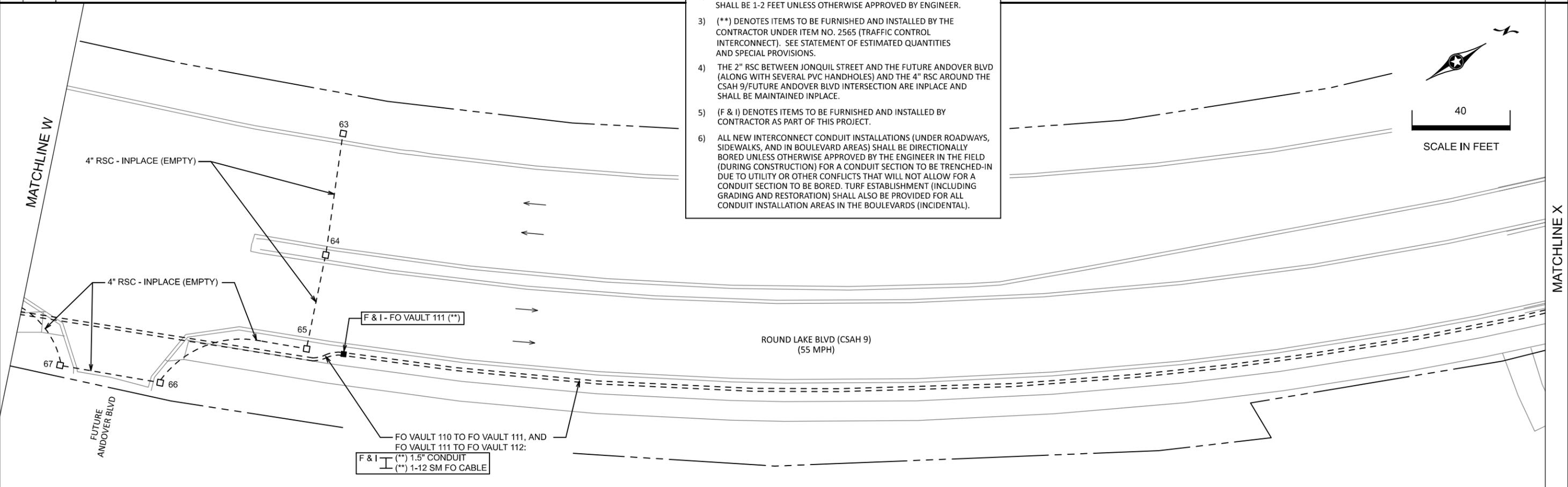
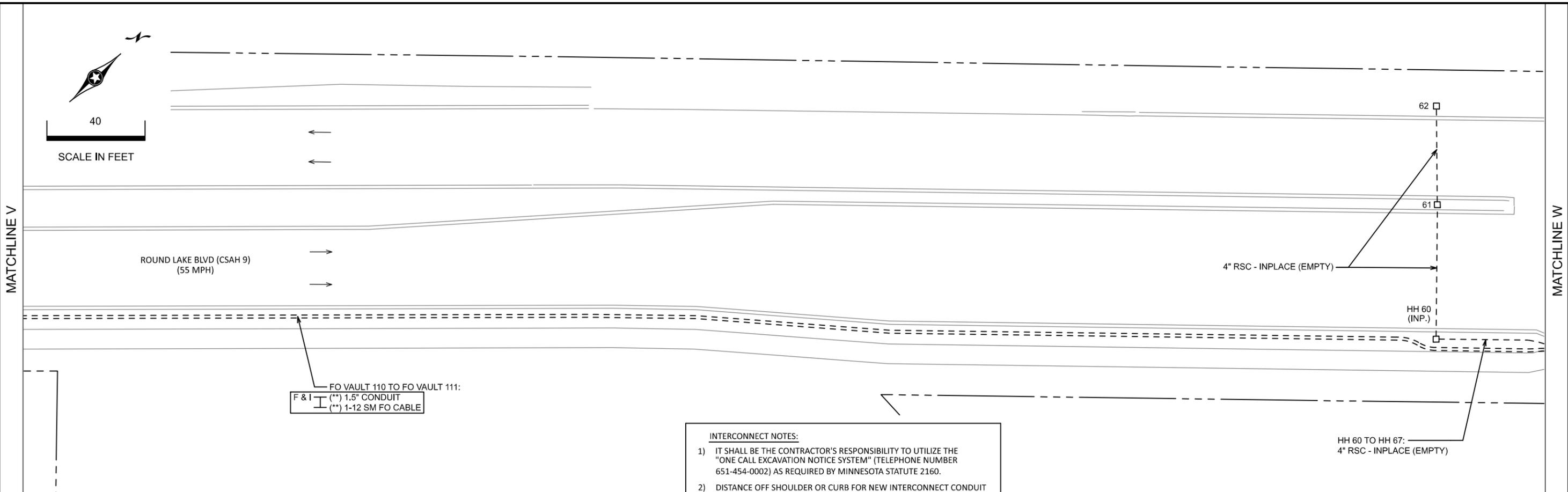
TRAFFIC SIGNAL INTERCONNECT
 INTERCONNECT
 CSAH 9 (ROUND LAKE BOULEVARD) BETWEEN 143RD AVENUE AND 157TH AVE

129
 133

1:39:37 PM

9/25/2025

FILE: X:\AE\ANOKA\181692\5-final-dsgn\51-drawings\40-TransHWY\Plansheets\CT181692_sgl_Sheets.dgn
MODEL: sgl41



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- 4) THE 2" RSC BETWEEN JONQUIL STREET AND THE FUTURE ANDOVER BLVD (ALONG WITH SEVERAL PVC HANDHOLES) AND THE 4" RSC AROUND THE CSAH 9/FUTURE ANDOVER BLVD INTERSECTION ARE INPLACE AND SHALL BE MAINTAINED INPLACE.
- 5) (F & I) DENOTES ITEMS TO BE FURNISHED AND INSTALLED BY CONTRACTOR AS PART OF THIS PROJECT.
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ANOKA COUNTY, MN
CSAH 9
 SAP 002-609-023
 CITY OF ANDOVER SAP 198-020-042, CITY PROJECT 25-13
 CITY OF ANOKA SAP 103-020-020

TRAFFIC SIGNAL INTERCONNECT
 INTERCONNECT
 CSAH 9 (ROUND LAKE BOULEVARD) BETWEEN 143RD AVENUE AND 157TH AVE

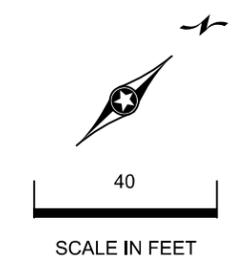
128
133

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9/25/2025

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MODEL: sg40

- 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) DISTANCE OFF SHOULDER OR CURB FOR NEW INTERCONNECT CONDUIT SHALL BE 1-2 FEET UNLESS OTHERWISE APPROVED BY ENGINEER.
 - 3) (**) DENOTES ITEMS TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNDER ITEM NO. 2565 (TRAFFIC CONTROL INTERCONNECT). SEE STATEMENT OF ESTIMATED QUANTITIES AND SPECIAL PROVISIONS.
 - 4) THE 2" RSC BETWEEN SOUTH COON CREEK DRIVE AND JONQUIL STREET (ALONG WITH SEVERAL PVC HANDHOLES) ARE INPLACE AND SHALL BE MAINTAINED INPLACE.
 - 5) (F & I) DENOTES ITEMS TO BE FURNISHED AND INSTALLED BY CONTRACTOR AS PART OF THIS PROJECT.
 - 6) ALL NEW INTERCONNECT CONDUIT INSTALLATIONS (UNDER ROADWAYS, SIDEWALKS, AND IN BOULEVARD AREAS) SHALL BE DIRECTIONALLY BORED UNLESS OTHERWISE APPROVED BY THE ENGINEER IN THE FIELD (DURING CONSTRUCTION) FOR A CONDUIT SECTION TO BE TRENCHED-IN DUE TO UTILITY OR OTHER CONFLICTS THAT WILL NOT ALLOW FOR A CONDUIT SECTION TO BE BORED. TURF ESTABLISHMENT (INCLUDING GRADING AND RESTORATION) SHALL ALSO BE PROVIDED FOR ALL CONDUIT INSTALLATION AREAS IN THE BOULEVARDS (INCIDENTAL).



MATCHLINE T

MATCHLINE U

ROUND LAKE BLVD (CSAH 9)
(55 MPH)

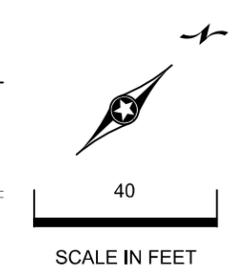
FO VAULT 109 TO FO VAULT 110:
 F & I (**)
 1.5" CONDUIT
 (**)
 1-12 SM FO CABLE

HH 55 (SOUTH COON CREEK DRIVE)
 TO HH 114 (JONQUIL STREET):
 2" RSC - INPLACE (EMPTY)

MATCHLINE U

MATCHLINE V

ROUND LAKE BLVD (CSAH 9)
(55 MPH)



HH 55 (SOUTH COON CREEK DRIVE) TO HH 114;
 HH 114 TO HH 115, AND HH 115
 TO HH 60 (FUTURE ANDOVER BLVD):
 2" RSC - INPLACE (EMPTY)

HH 114
(INP.)

HH 115
(INP.)

JONQUIL
ST NW

F & I - FO VAULT 110 (**)

FO VAULT 109 TO FO VAULT 110, AND
 FO VAULT 110 TO FO VAULT 111:
 F & I (**)
 1.5" CONDUIT
 (**)
 1-12 SM FO CABLE

DESIGN TEAM	NO.	BY	DATE	REVISIONS
DRAWN BY: MRB				
DESIGNER: MRB				
CHECKED BY: JMG				

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.

John M. Gray
 Printed Name: JOHN M. GRAY
 License No. 22457 Date: 09/23/2025



ANOKA COUNTY, MN
 CSAH 9
 SAP 002-609-023
 CITY OF ANDOVER SAP 198-020-042, CITY PROJECT 25-13
 CITY OF ANOKA SAP 103-020-020

TRAFFIC SIGNAL INTERCONNECT
 INTERCONNECT
 CSAH 9 (ROUND LAKE BOULEVARD) BETWEEN 143RD AVENUE AND 157TH AVE

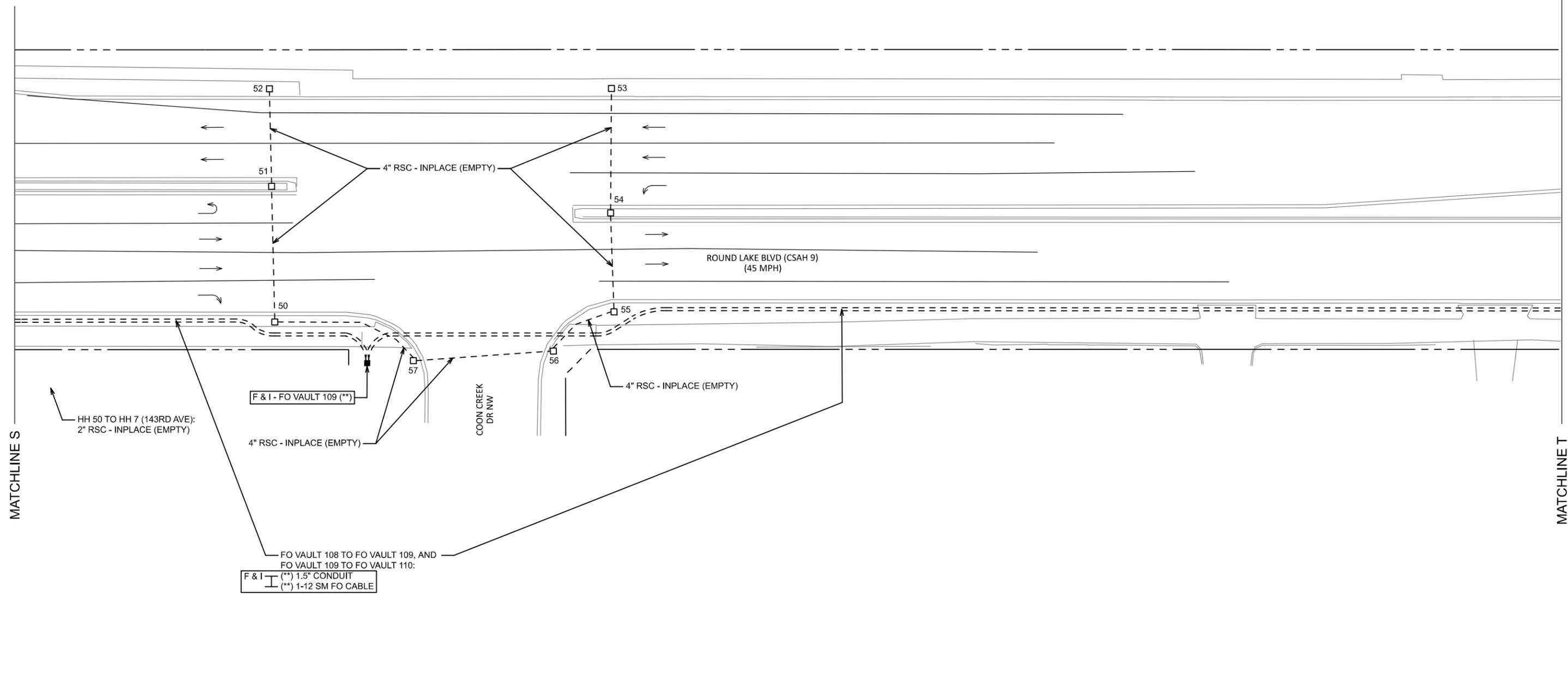
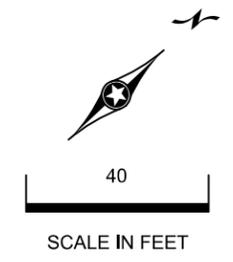
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MODEL: sgl59

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) DISTANCE OFF SHOULDER OR CURB FOR NEW INTERCONNECT CONDUIT SHALL BE 1-2 FEET UNLESS OTHERWISE APPROVED BY ENGINEER.
- 3) (**) DENOTES ITEMS TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNDER ITEM NO. 2565 (TRAFFIC CONTROL INTERCONNECT). SEE STATEMENT OF ESTIMATED QUANTITIES AND SPECIAL PROVISIONS.
- 4) HANDHOLES 50-57 AND 4" RSC BETWEEN THESE HANDHOLES SHOWN ON THE PLAN ARE INPLACE AND SHALL BE MAINTAINED INPLACE.
- 5) (F & I) DENOTES ITEMS TO BE FURNISHED AND INSTALLED BY CONTRACTOR AS PART OF THIS PROJECT.
- 6) ALL NEW INTERCONNECT CONDUIT INSTALLATIONS (UNDER ROADWAYS, SIDEWALKS, AND IN BOULEVARD AREAS) SHALL BE DIRECTIONALLY BORED UNLESS OTHERWISE APPROVED BY THE ENGINEER IN THE FIELD (DURING CONSTRUCTION) FOR A CONDUIT SECTION TO BE TRENCHED-IN DUE TO UTILITY OR OTHER CONFLICTS THAT WILL NOT ALLOW FOR A CONDUIT SECTION TO BE BORED. TURF ESTABLISHMENT (INCLUDING GRADING AND RESTORATION) SHALL ALSO BE PROVIDED FOR ALL CONDUIT INSTALLATION AREAS IN THE BOULEVARDS (INCIDENTAL).



MATCHLINE S

MATCHLINE T

DESIGN TEAM	NO.	BY	DATE	REVISIONS
DRAWN BY: MRB				
DESIGNER: MRB				
CHECKED BY: JMG				

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.

John M. Gray
 Printed Name: JOHN M. GRAY
 License No. 22457 Date: 09/23/2025



ANOKA COUNTY, MN
 CSAH 9
 SAP 002-609-023
 CITY OF ANDOVER SAP 198-020-042, CITY PROJECT 25-13
 CITY OF ANOKA SAP 103-020-020

TRAFFIC SIGNAL INTERCONNECT
 INTERCONNECT
 CSAH 9 (ROUND LAKE BOULEVARD) BETWEEN 143RD AVENUE AND 157TH AVE

126
 133