

H.H.64 TO H.H.65:  
H.H.65 TO H.H.66:  
2"R.S.C.-INPLACE  
(\*\*) 1-6 Pr.#19-INPLACE (REMOVE)

H.H.66 TO H.H.67:  
2"R.S.C.-INPLACE  
(\*\*) 1-6 Pr.#19-INPLACE (REMOVE)

H.H.65 TO H.H.69:  
(\*\*) 1.5" CONDUIT-F & I (BORE UNDER ALL DRIVEWAYS/ROADS)  
(\*\*) 1-12 SM FIBER-OPTIC CABLE-F & I

H.H.67 TO H.H.68:  
H.H.68 TO H.H.69:  
H.H.69 TO H.H.70:  
2"R.S.C.-INPLACE  
(\*\*) 1-6 Pr.#19-INPLACE (REMOVE)

H.H.69 TO H.H.71:  
2"R.S.C.-INPLACE  
(\*\*) 1.5" CONDUIT-F & I (BORE UNDER ALL DRIVEWAYS/ROADS)  
(\*\*) 1-12 SM FIBER-OPTIC CABLE-F & I

H.H.70 TO H.H.71:  
2"R.S.C.-INPLACE  
(\*\*) 1-6 Pr.#19-INPLACE (REMOVE)

H.H.65 TO H.H.3:  
(\*\*) 1.5" CONDUIT-F & I (BORE UNDER ALL DRIVEWAYS/ROADS)  
(\*\*) 1-12 SM FIBER-OPTIC CABLE-F & I (TO 101ST AVENUE SIGNAL SYSTEM)

H.H.69 TO H.H.71:  
(\*\*) 1.5" CONDUIT-F & I (BORE UNDER ALL DRIVEWAYS/ROADS)  
(\*\*) 1-12 SM FIBER-OPTIC CABLE-F & I

H.H.71 TO H.H.6:  
(\*\*) 1.5" CONDUIT-F & I (BORE UNDER ALL DRIVEWAYS/ROADS)  
(\*\*) 1-12 SM FIBER-OPTIC CABLE-F & I (TO 105TH AVENUE SIGNAL SYSTEM)

H.H.70 TO H.H.71:  
H.H.71 TO H.H.72:  
H.H.72 TO H.H.73:  
2"R.S.C.-INPLACE  
(\*\*) 1-6 Pr.#19-INPLACE (REMOVE)

H.H.73 TO H.H.6:  
2"R.S.C.-INPLACE  
(\*\*) 1-6 Pr.#19-INPLACE (REMOVE)

- 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 "E"). SEE STATEMENT OF ESTIMATED QUANTITIES AND SPECIAL PROVISIONS.
  - 3) ALL ITEMS OF THE EXISTING INTERCONNECT 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) NEW HANDHOLES REQUIRED TO BE FURNISHED & INSTALLED BY THE CONTRACTOR AS PART OF PROJECT SHALL BE PRE-CAST POLYMER CONCRETE STRUCTURES (QUAZITE). SEE DETAILS/SPECIAL PROVISIONS.
  - 5) EXISTING CONCRETE HANDHOLES WITH CONCRETE OR TYPE LD COVERS IN BOULEVARD AREAS (USED WITH INTERCONNECT SYSTEM CABLES) SHALL BE ADJUSTED TO FINISHED SURROUNDING GRADE (TO BE MEASURED AND PAID FOR SEPARATELY-SEE SPECIAL PROVISIONS AND STATEMENT OF ESTIMATED QUANTITIES).
  - 6) FOR EXISTING CONDUITS BEING REUSED AS PART OF THE COMPLETE INTERCONNECT SYSTEM, THE CONTRACTOR SHALL PULL A FISH TAPE THROUGH THESE CONDUITS TO CONFIRM THAT CONDUITS ARE ABLE TO BE REUSED WITH NEW CABLE INSTALLATIONS, PRIOR TO NEW INTERCONNECT CABLES BEING INSTALLED IN THESE CONDUITS.
  - 7) SEPARATE PAY ITEMS ARE INCLUDED FOR NEW 1.5 INCH CONDUITS (BOTH FOR INSTALLATION IN BOULEVARD AREAS AND FOR BORING UNDER EXISTING DRIVEWAYS OR ROADWAYS), SHOULD EXISTING CONDUITS BE FOUND INCAPABLE OF HAVING NEW INTERCONNECT CABLES BE INSTALLED IN THESE CONDUITS. SEE SPECIAL PROVISIONS.

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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.

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

**SEH**  
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3535 VADNAIS CENTER DR.  
ST. PAUL, MN 55110

**ANOKA COUNTY, MN**  
CITIES OF BLAINE, COON RAPIDS  
SAP 002-030-010

**TRAFFIC SIGNAL INTERCONNECT "E"**  
INTERSECTION LAYOUT  
CSAH 51 (UNIVERSITY AVENUE)  
(105TH AVENUE TO 101ST AVENUE)

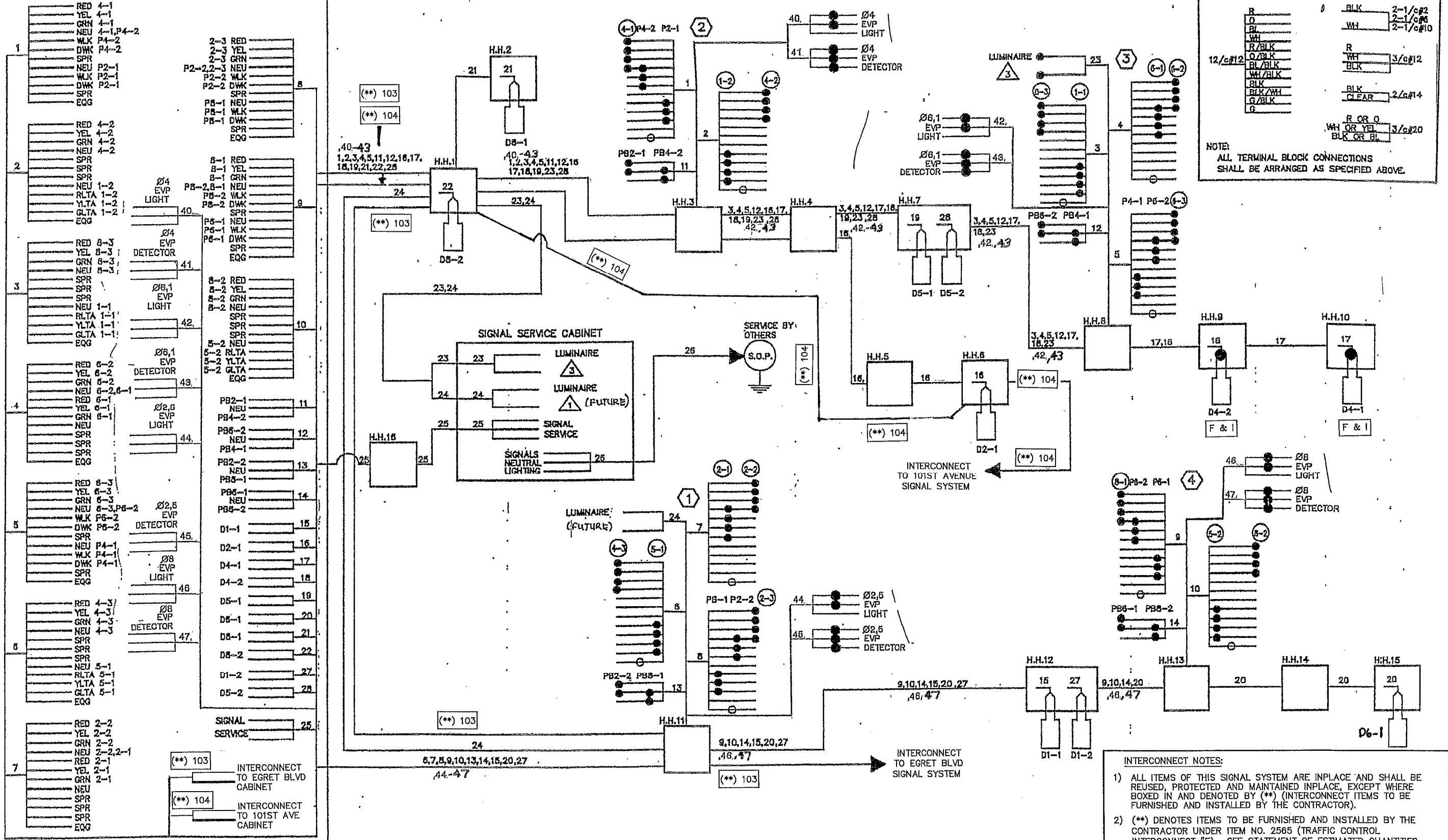
FILE NO.  
ANOKC 142312  
**81**  
**115**

CONTROLLER CABINET

CONDUCTOR COLOR CODING

R	BLK	2-1/c#2
O	WH	2-1/c#6
BLK	WH	2-1/c#10
WH	R	3/c#12
R/BLK	WH	3/c#12
BL/BLK	BLK	3/c#12
WH/BLK	BLK	3/c#12
BLK	BLK	2/c#14
BLK/WH	CLEAR	2/c#14
G/BLK	R OR O	3/c#20
O	WH OR YEL	3/c#20
	BLK OR BL	3/c#20

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



- INTERCONNECT NOTES:
- 1) ALL ITEMS OF THIS SIGNAL SYSTEM ARE INPLACE AND SHALL BE REUSED, PROTECTED AND MAINTAINED INPLACE, EXCEPT WHERE BOXED IN AND DENOTED BY (\*\*) (INTERCONNECT ITEMS TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR).
  - 2) (\*\*) DENOTES ITEMS TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNDER ITEM NO. 2565 (TRAFFIC CONTROL INTERCONNECT "E"). SEE STATEMENT OF ESTIMATED QUANTITIES AND SPECIAL PROVISIONS.
  - 3) CONTRACTOR SHALL REMOVE AND DISPOSE OF INPLACE CABLES 50 AND 51 (2-6 Pr.#19) FROM THIS SIGNAL SYSTEM TO NORTH (EGRET BLVD) AND TO SOUTH (101ST AVENUE) SIGNAL SYSTEMS AS PART OF "TRAFFIC CONTROL INTERCONNECT E" PAY ITEM.

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DRAWN BY: JMG  
 DESIGNER: JMG  
 CHECKED BY: JMG

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.

*John M. Gray*  
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**ANOKA COUNTY, MN**  
**CITIES OF BLAINE, COON RAPIDS**  
 SAP 002-030-010

**TRAFFIC SIGNAL INTERCONNECT 'E'**  
**FIELD WIRING DIAGRAM**  
**CSAH 51 (UNIVERSITY AVENUE)**  
**AT 105TH AVENUE**

FILE NO. ANOKC 142312  
**80**  
**115**