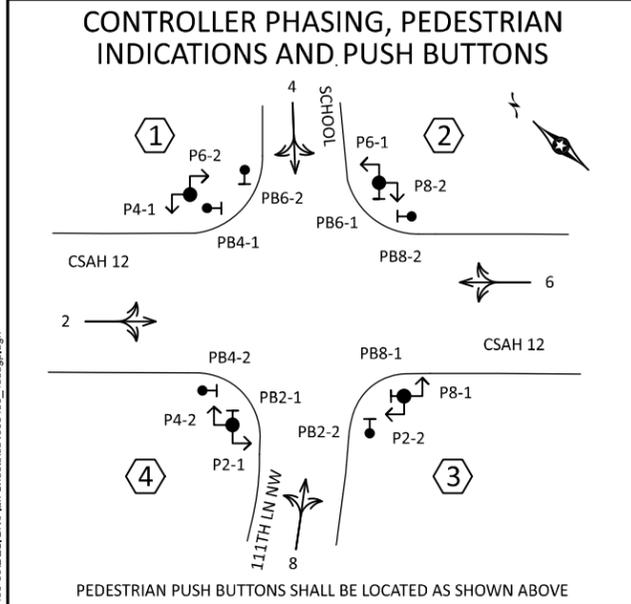
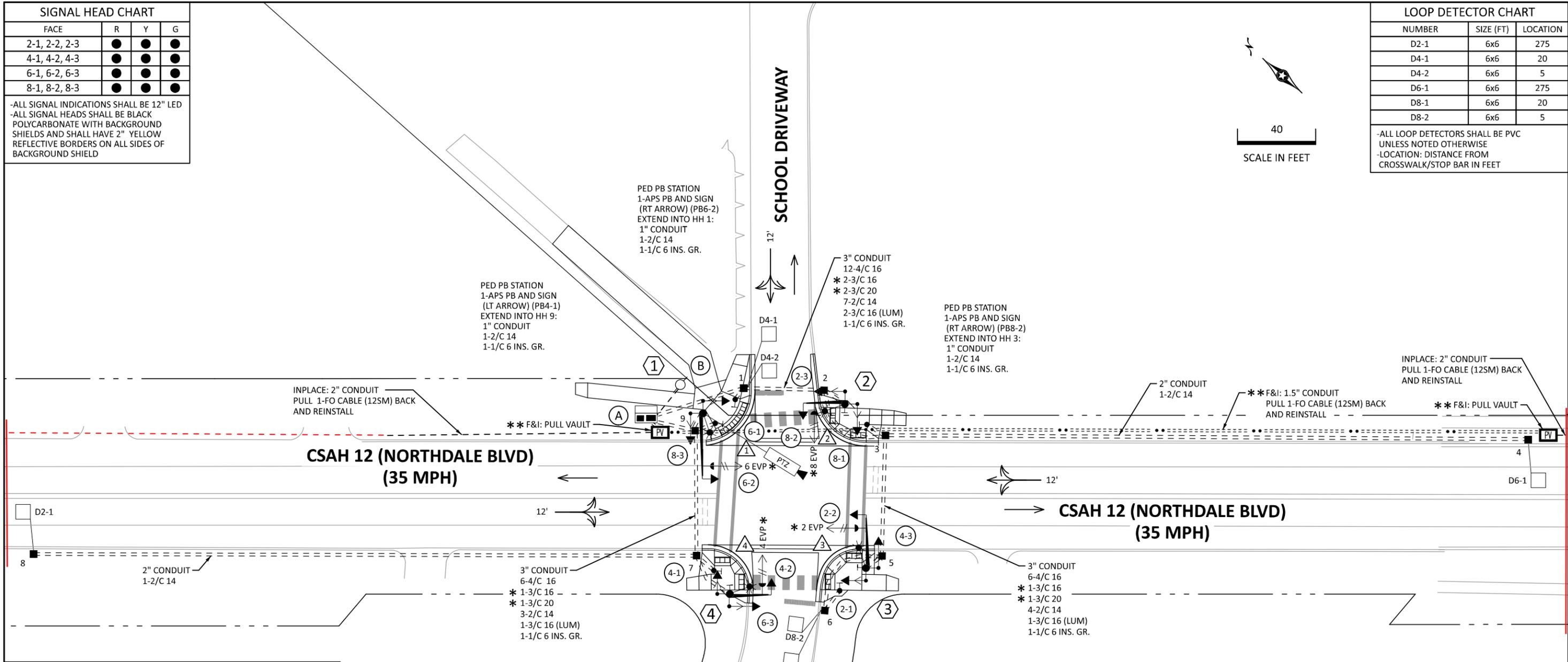
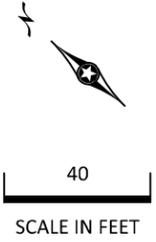


SIGNAL HEAD CHART			
FACE	R	Y	G
2-1, 2-2, 2-3	●	●	●
4-1, 4-2, 4-3	●	●	●
6-1, 6-2, 6-3	●	●	●
8-1, 8-2, 8-3	●	●	●

-ALL SIGNAL INDICATIONS SHALL BE 12" LED
-ALL SIGNAL HEADS SHALL BE BLACK POLYCARBONATE WITH BACKGROUND SHIELDS AND SHALL HAVE 2" YELLOW REFLECTIVE BORDERS ON ALL SIDES OF BACKGROUND SHIELD

LOOP DETECTOR CHART		
NUMBER	SIZE (FT)	LOCATION
D2-1	6x6	275
D4-1	6x6	20
D4-2	6x6	5
D6-1	6x6	275
D8-1	6x6	20
D8-2	6x6	5

-ALL LOOP DETECTORS SHALL BE PVC UNLESS NOTED OTHERWISE
-LOCATION: DISTANCE FROM CROSSWALK/STOP BAR IN FEET



SIGNAL SYSTEM OPERATION

- THE SIGNAL SYSTEM FLASH MODE IS ALL RED.
- NORMAL OPERATION IS 4 PHASE.
- PHASES 2 AND 6 SHALL BE ON VEHICLE RECALL.

- NOTES:
- SEE THE SPECIAL PROVISIONS FOR COUNTY FURNISHED MATERIALS.
 - THE EXACT LOCATION OF THE HANDHOLES, LOOP DETECTORS, UNDERGROUND CONDUIT, AND THE EQUIPMENT PAD ARE DETERMINED IN THE FIELD. VERIFY THE LOCATIONS OF ALL SIGNAL COMPONENTS WITH ANOKA COUNTY PERSONNEL. CONDUITS UNDER ROADWAYS WILL REQUIRE BORING.
 - ALL SIGNAL MOUNTED SIGNS ARE INCLUDED IN PAYMENT WITH THE LUMP SUM SIGNAL SYSTEM B PAY ITEM. SEE SIGNING DETAIL SHEET FOR SIGNAL MOUNTED SIGNS.
 - PAVEMENT MARKINGS ARE INCLUDED AS PART OF THE STRIPING PLAN.
 - CONSTRUCTION OF PEDESTRIAN CURB RAMPS, CONCRETE WALK AND MEDIAN WORK ARE INCLUDED WITH THE ADA PLAN AND ARE PAID FOR SEPARATELY.
 - USE PVC OR HDPE FOR NEW CONDUIT. CONDUIT SIZES ARE NOMINAL DIAMETER.
 - ITEMS DENOTED WITH AN * ARE INCLUDED IN PAYMENT FOR THE EVP SYSTEM PAY ITEM.
 - SEE TRAFFIC CONTROL INTERCONNECT PLAN FOR INTERCONNECTION TO CSAH 51.
 - REMOVAL OF THE EXISTING SIGNAL IS INCLUDED IN PAYMENT FOR THE REMOVE SIGNAL SYSTEM B PAY ITEM. REFER TO THE "EXISTING SIGNAL PLAN" SHEETS FOR INPLACE SIGNAL SYSTEM COMPONENTS.
 - ITEMS DENOTED WITH ** ARE INCLUDED IN THE PAYMENT FOR THE TRAFFIC CONTROL INTERCONNECT PAY ITEM.
 - SEE SPECIAL PROVISIONS FOR TRAFFIC SIGNAL STAGING REQUIREMENTS.
 - STOP BARS ON CSAH 12 ARE SHOWN FOR REFERENCE ONLY AND WILL BE INSTALLED WITH FUTURE PROJECT. OFFSET LOOP DETECTORS FROM FUTURE STOP BAR LOCATIONS.

I HEREBY CERTIFY THAT THIS SHEET 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.

PRINT NAME: MICHAEL P. MCCURDY
SIGNATURE: *Michael P. McCurdy*
DATE: 02/14/2025 LICENSE #: 45902

TRAFFIC CONTROL SIGNAL SYSTEM PLANS
SIGNAL SYSTEM "B"

SAP 106-020-043, SAP 114-020-066, SAP 114-020-067
SAP 002-612-037, SAP 002-612-036 (CSAH 12)
SHEET NO. 85 OF 98 SHEETS



NO	DATE	DWN	CKD	REVISIONS

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2/14/2025 10:45:00 AM
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- ① X=498772.8694 Y=149975.2617
 PA85 POLE FOUNDATION MODIFIED (12' DEPTH)
 TYPE PA85-A-25-X6-300/CAM 350 (MOUNTED AT 350 DEG)
 (INCLUDES LIGHTNING ROD, 7/16" GROUND BRAID AND GROUND ROD)
 1-LUMINAIRE-LED (FOR 30' MOUNTING HEIGHT)
 1-PTZ VIDEO CAMERA (COUNTY PROVIDED)
 1-ANGLE MOUNT SIGNAL OVERHEAD AT 0' (6-2)
 2-ANGLE MOUNT SIGNALS AT 90 AND 180 DEG (8-3) (6-1)
 2-ANGLE MOUNT C. D. PED HEADS AT 90 AND 180 DEG (P4-1, P6-2)
 * 1-ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT (PHASE 6)
 1-GUIDE SIGN (D-2) (SEE SIGN DETAILS)
 3" CONDUIT INTO HH 9:
 6-4/C 16
 * 1-3/C 16
 * 1-3/C 20
 1-3/C 16(LUM)
 1-COM CABLE (CAT5E) (PTZ)
 1-7/16" GROUNDING BRAID (LIGHTNING ROD TO GROUND ROD)
 1-1/C 6 INS. GR.

- ② X=498814.0095 Y=149934.1569
 PA85 POLE FOUNDATION
 TYPE PA85-A-15-D30-9
 1-LUMINAIRE-LED (FOR 30' MOUNTING HEIGHT)
 1-ANGLE MOUNT SIGNAL OVERHEAD AT 0' (8-2)
 2-ANGLE MOUNT SIGNALS AT 90 AND 180 DEG (2-3) (8-1)
 2-ANGLE MOUNT C. D. PED HEADS AT 90 AND 180 DEG (P6-1, P8-2)
 * 1-ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT (PHASE 8)
 1-APS PB AND SIGN (LT ARROW) (PB6-1) AND POLE MOUNTING ADAPTOR
 1-GUIDE SIGN (D-1) (SEE SIGN DETAILS)
 3" CONDUIT INTO HH 2:
 6-4/C 16
 * 1-3/C 16
 * 1-3/C 20
 1-2/C 14
 1-3/C 16 (LUM)
 1-1/C 6 INS. GR.

- ③ X=498769.3061 Y=149883.5239
 PA85 POLE FOUNDATION
 TYPE PA85-A-20-D30-9
 1-LUMINAIRE-LED (FOR 30' MOUNTING HEIGHT)
 1-ANGLE MOUNT SIGNAL OVERHEAD AT 0' (2-2)
 2-ANGLE MOUNT SIGNALS AT 90 AND 180 DEG (4-3) (2-1)
 2-ANGLE MOUNT C. D. PED HEADS AT 90 AND 180 DEG (P8-1, P2-2)
 * 1-ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT (PHASE 2)
 1-APS PB AND SIGN (LT ARROW) (PB8-1) AND POLE MOUNTING ADAPTOR
 1-GUIDE SIGN (D-2) (SEE SIGN DETAILS)
 3" CONDUIT INTO HH 5:
 6-4/C 16
 * 1-3/C 16
 * 1-3/C 20
 1-2/C 14
 1-3/C 16 (LUM)
 1-1/C 6 INS. GR.

- ④ X=498724.6611 Y=149918.4351
 PA85 POLE FOUNDATION
 TYPE PA85-A-15-D30-9
 1-LUMINAIRE-LED (FOR 30' MOUNTING HEIGHT)
 1-ANGLE MOUNT SIGNAL OVERHEAD AT 0' (4-2)
 2-ANGLE MOUNT SIGNALS AT 90 AND 180 DEG (6-3) (4-1)
 2-ANGLE MOUNT C. D. PED HEADS AT 90 AND 180 DEG (P2-1, P4-2)
 * 1-ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT (PHASE 4)
 1-APS PB AND SIGN (LT ARROW) (PB2-1) AND POLE MOUNTING ADAPTOR
 1-GUIDE SIGN (D-1) (SEE SIGN DETAILS)
 3" CONDUIT INTO HH 7:
 6-4/C 16
 * 1-3/C 16
 * 1-3/C 20
 1-2/C 14
 1-3/C 16 (LUM)
 1-1/C 6 INS. GR.

- Ⓐ EQUIPMENT PAD (SEE DETAIL SHEET)
 SERVICE CABINET WITH BATTERY BACKUP (SEE DETAIL SHEET)
 CONTROLLER AND CABINET (COUNTY PROVIDED)
 3" CONDUIT TO HH 1: 3" CONDUIT TO HH 1:
 6-4/C 16 6-4/C 16
 * 1-3/C 16 * 1-3/C 16
 * 1-3/C 20 * 1-3/C 20
 5-2/C 14 5-2/C 14
 1-1/C 6 INS. GR. 1-1/C 6 INS. GR.
- 3" CONDUIT TO HH 9: 3" CONDUIT TO HH 9:
 6-4/C 16 6-4/C 16
 * 1-3/C 16 * 1-3/C 16
 * 1-3/C 20 * 1-3/C 20
 2-2/C 14 2-2/C 14
 1-COM CABLE (CAT5E) (PTZ) 1-1/C 6 INS. GR.
 1-1/C 6 INS. GR.

- Ⓑ SOP TRANSFORMER (CONNEXUS)
 INPLACE CONDUIT AND CABLE TO SERVICE CABINET
 (COORDINATE NEW HOOK-UP)

GROUND WIRE AND GROUND ROD - MIN 8' STUBBED OUT FROM PAD
 2-2" AND 1-3" CONDUIT STUBBED OUT (CAPPED BOTH ENDS)
 1.5" CONDUIT TO TMS VAULT:
 1-FO CABLE (12SM)
 CONTROLLER CABINET TO SERVICE CABINET:
 2" CONDUIT
 3-1/C 6
 CONTROLLER CABINET TO SERVICE CABINET (COMMS):
 2" CONDUIT
 1-6PR 19
 SERVICE CABINET TO POLE MOUNTED TRANSFORMER:
 2" CONDUIT
 3-1/C 2

SERVICE CABINET TO HH 1:
 2" CONDUIT
 2-3/C 16 (LUM)
 SERVICE CABINET TO HH 9:
 2" CONDUIT
 2-3/C 16 (LUM)
 SERVICE CABINET TO EXTERNAL GR. RD.:
 1" CONDUIT
 1-1/C 6 INS. GR.
 (SEE EQUIPMENT PAD LAYOUT)

NOTES:

- ITEMS DENOTED WITH AN * ARE INCLUDED IN PAYMENT FOR THE EVP SYSTEM PAY ITEM.
- ITEMS DENOTED WITH ** ARE INCLUDED IN THE PAYMENT FOR THE TRAFFIC CONTROL INTERCONNECT PAY ITEM.

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NO	DATE	DWN	CKD	REVISIONS



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PRINT NAME: MICHAEL P. MCCURDY
 SIGNATURE: *Michael P. McCurdy*
 DATE: 02/14/2025 LICENSE #: 45902

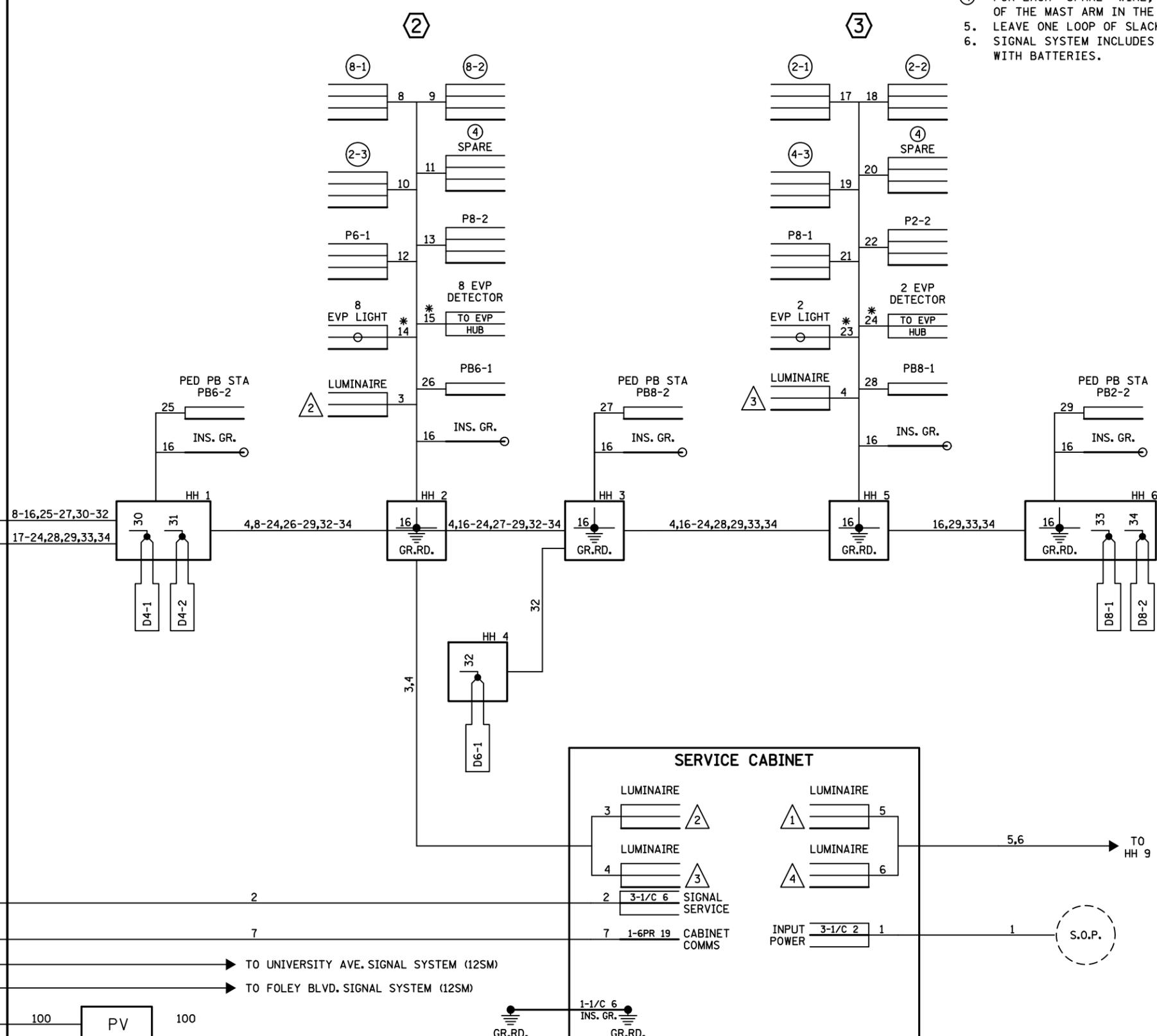
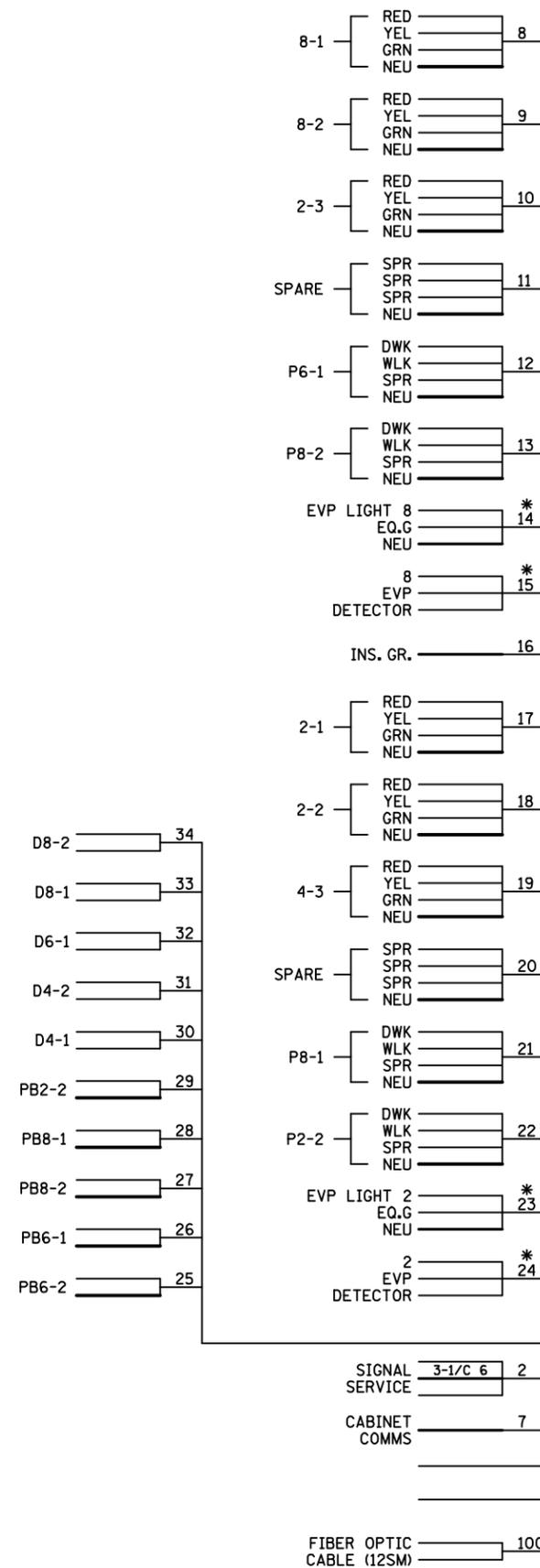
TRAFFIC CONTROL SIGNAL SYSTEM PLANS
 SIGNAL SYSTEM "B"

SAP 106-020-043, SAP 114-020-066, SAP 114-020-067			
SAP 002-612-037, SAP 002-612-036 (CSAH 12)			
SHEET NO.	86	OF	98 SHEETS

CONTROLLER CABINET

NOTES:

- SPLICES ONLY ALLOWED IN LOOP DETECTOR CIRCUITS.
- FOR CONDUCTOR COLOR CODE SEE TRAFFIC SIGNAL COLOR CODE DETAIL.
- ITEMS DENOTED WITH AN * ARE INCLUDED IN PAYMENT FOR THE EVP SYSTEM PAY ITEM.
- FOR EACH "SPARE" WIRE, COIL ENOUGH WIRE TO REACH THE END OF THE MAST ARM IN THE HANDHOLE NEAREST EACH POLE.
- LEAVE ONE LOOP OF SLACK FOR EACH CABLE IN THE POLE BASE.
- SIGNAL SYSTEM INCLUDES BATTERY BACKUP SERVICE CABINET WITH BATTERIES.



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NO	DATE	DWN	CKD	REVISIONS



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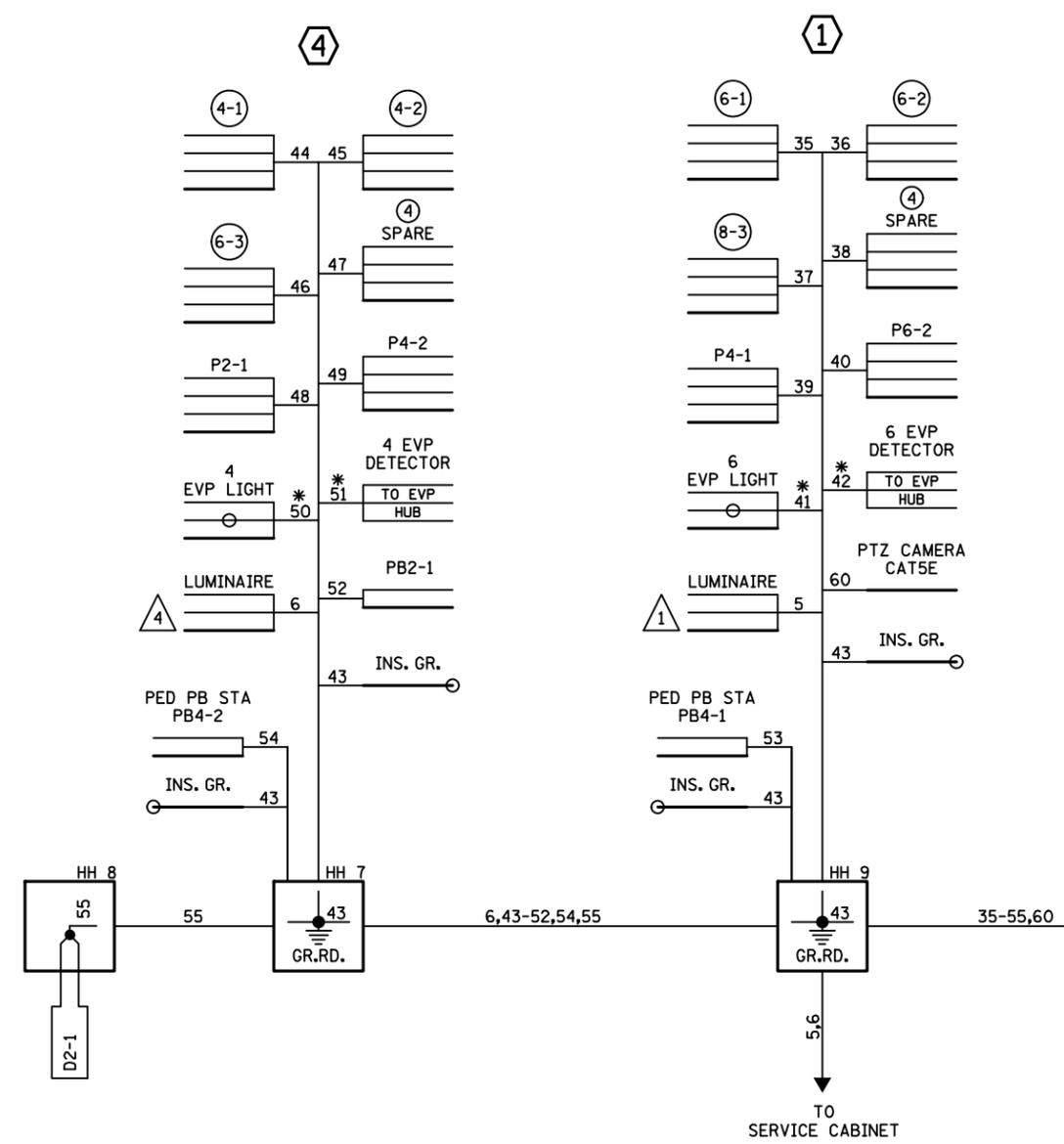
TRAFFIC CONTROL SIGNAL SYSTEM PLANS

SIGNAL SYSTEM "B"

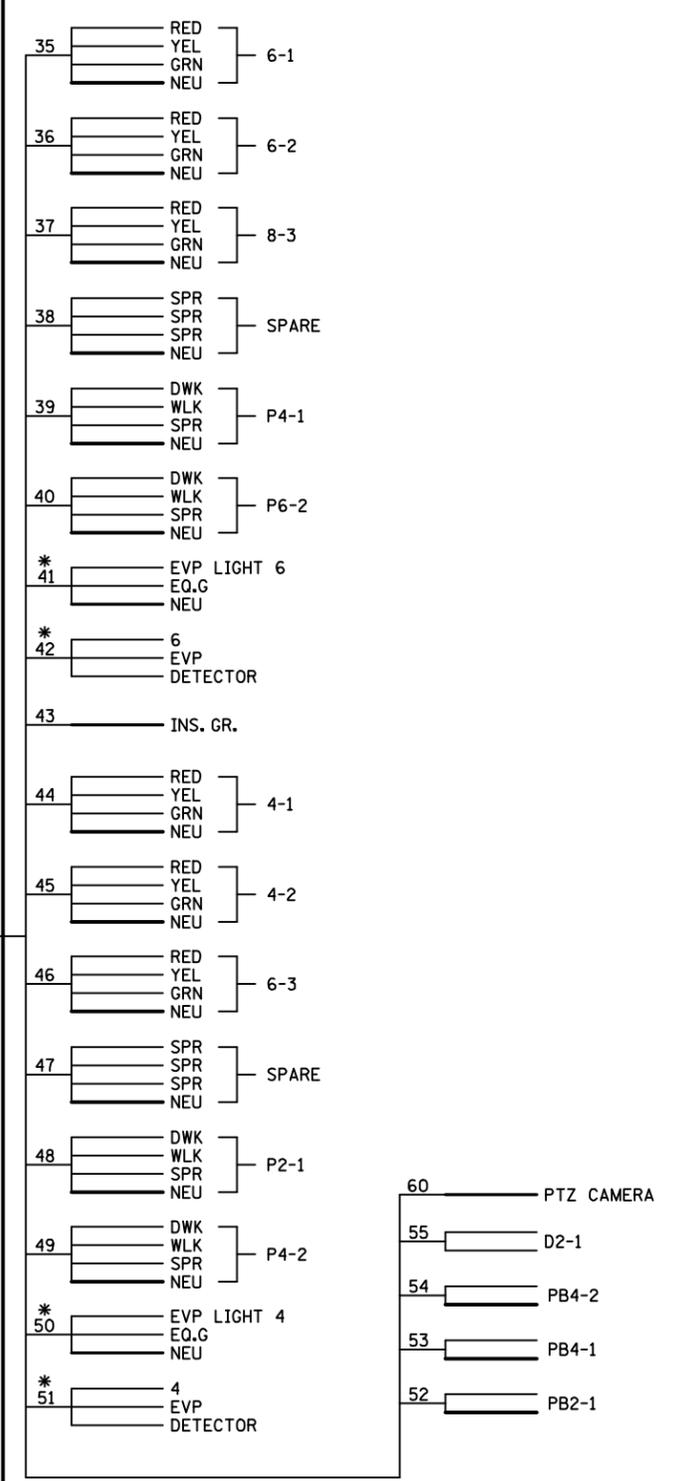
SAP 106-020-043, SAP 114-020-066, SAP 114-020-067
 SAP 002-612-037, SAP 002-612-036 (CSAH 12)
 SHEET NO. 87 OF 98 SHEETS

NOTES:

1. SPLICES ONLY ALLOWED IN LOOP DETECTOR CIRCUITS.
2. FOR CONDUCTOR COLOR CODE SEE TRAFFIC SIGNAL COLOR CODE DETAIL.
3. ITEMS DENOTED WITH AN * ARE INCLUDED IN PAYMENT FOR THE EVP SYSTEM PAY ITEM.
- ④ FOR EACH "SPARE" WIRE, *COIL ENOUGH WIRE TO REACH THE END OF THE MAST ARM IN THE HANDHOLE NEAREST EACH POLE.
5. LEAVE ONE LOOP OF SLACK FOR EACH CABLE IN THE POLE BASE.
6. SIGNAL SYSTEM INCLUDES BATTERY BACKUP SERVICE CABINET WITH BATTERIES.



CONTROLLER CABINET



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NO	DATE	DWN	CKD	REVISIONS



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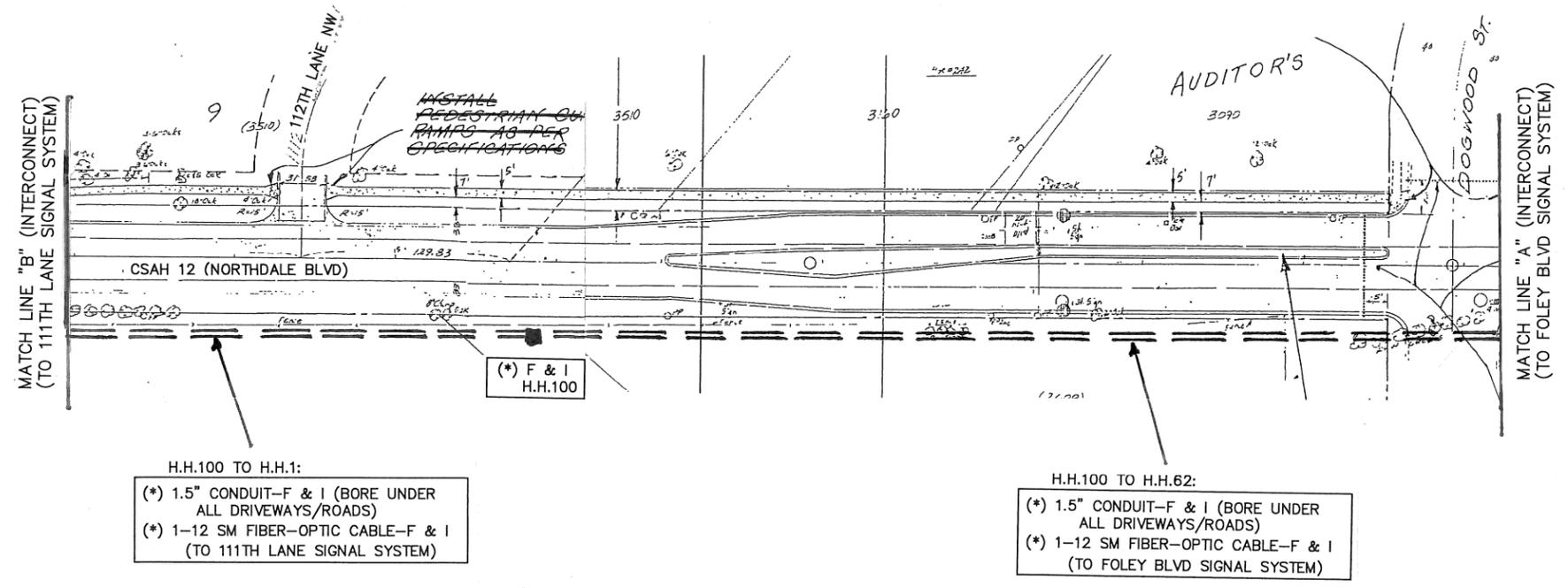
TRAFFIC CONTROL SIGNAL SYSTEM PLANS
 SIGNAL SYSTEM "B"

SAP 106-020-043, SAP 114-020-066, SAP 114-020-067
 SAP 002-612-037, SAP 002-612-036 (CSAH 12)
 SHEET NO. 88 OF 98 SHEETS



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 "D"). SEE STATEMENT OF ESTIMATED QUANTITIES AND SPECIAL PROVISIONS.
- 3) NEW HANDHOLE 100 REQUIRED TO BE FURNISHED & INSTALLED BY CONTRACTOR AS PART OF PROJECT SHALL A BE PRE-CAST POLYMER CONCRETE STRUCTURE (QUAZITE). SEE DETAILS/SPECIAL PROVISIONS.



S:\A\A\ANOKA\COMMON SIGNALS\2017\INTERCONNECT\2017INTRAISE.DWG

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

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

TRAFFIC SIGNAL INTERCONNECT 'D'
INTERSECTION LAYOUT
CSAH 12 (NORTHDALE BLVD)
(FOLEY BLVD TO 111TH LANE NW)

FILE NO.
ANOKC 142312

69
115



- (A) CONTROLLER AND CABINET EQUIPMENT PAD FOUNDATION BATTERY BACK-UP SIGNAL SERVICE CABINET BETWEEN CONTROLLER CABINET AND SERVICE CABINET: METERED SIGNAL SERVICE 2"R.S.C. 3-1/c#6 CONTROLLER CABINET TO H.H.1: 4"R.S.C. 2-12/c#14 1-6/c#14 1-3/c#14 6-2/c#14 1-3/c#20 1-1/c#6 (GRD) CONTROLLER CABINET TO H.H.15: 4"R.S.C. 4-12/c#14 1-3/c#14 7-2/c#14 1-3/c#20 1-1/c#6 (GRD) CONTROLLER CABINET TO H.H.1: 2"R.S.C. 1-12 SM FIBER OPTIC CABLE 1-1/c#10 CONTROLLER CABINET TO H.H.15: 2"R.S.C. 1-1/c#10
- SERVICE CABINET TO H.H.1: 1 1/4"R.S.C. UNMETERED STREET LIGHT SERVICE 2-3/c#14 (LUM) SERVICE CABINET TO H.H.15: 1 1/4"R.S.C. UNMETERED STREET LIGHT SERVICE 2-3/c#14 (LUM) STUB OUT 2"R.S.C. FROM SERVICE CABINET TO EAST (FOR SERVICE BY CONNEXUS) STUB OUT 3"R.S.C. FROM CONTROLLER CABINET TO EAST (THREAD AND CAP-FOR FUTURE USE)

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

H.H.15 TO H.H.16:
2" CONDUIT
1-2/c#14
2" CONDUIT
1-1/c#10
(*) 1-12 SM FIBER-OPTIC CABLE-F & I

H.H.16 TO H.H.17:
3" CONDUIT
1-2/c#14

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

H.H.16 TO H.H.18:
2" CONDUIT
1-1/c#10

H.H.16 TO H.H.18:
2" CONDUIT
1-1/c#10
(*) 1-12 SM FIBER-OPTIC CABLE-F & I

H.H.18 TO H.H.61:
2" CONDUIT
1-1/c#10
(*) 1-12 SM FIBER-OPTIC CABLE-F & I

H.H.61 TO H.H.62:
2" CONDUIT
1-1/c#10
(*) 1-12 SM FIBER-OPTIC CABLE-F & I

H.H.62 TO H.H.100:
(*) 1.5" CONDUIT-F & I (BORE UNDER ALL DRIVEWAYS/ROADS)
(*) 1-12 SM FIBER-OPTIC CABLE-F & I (TO 111TH LANE SIGNAL SYSTEM)

- 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 "D"). 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 (*) AND BY F & I (ITEMS TO BE FURNISHED & INSTALLED 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) 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 "D" PAY ITEM.
 - 6) FIBER OPTIC INTERCONNECT BETWEEN THIS SIGNAL SYSTEM AND SYSTEM TO THE SOUTH (EGRET BOULEVARD) IS INPLACE AND SHALL BE MAINTAINED INPLACE AND IN OPERATION.

S:\VIA\ANOKC\COMMON SIGNALS\2017 INTERCONNECT\2017INTBASE.DWG

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

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

TRAFFIC SIGNAL INTERCONNECT 'D'
INTERSECTION LAYOUT
CSAH 11-12 (NORTHDALE BOULEVARD)
AT CSAH 11 (FOLEY BOULEVARD)

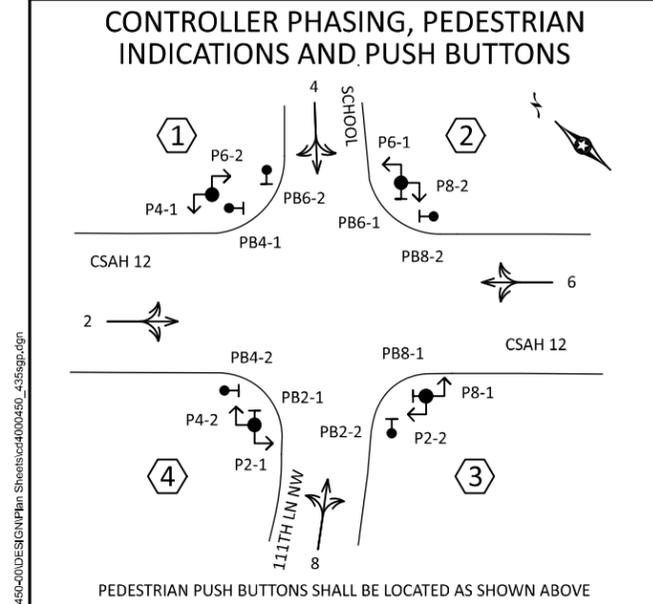
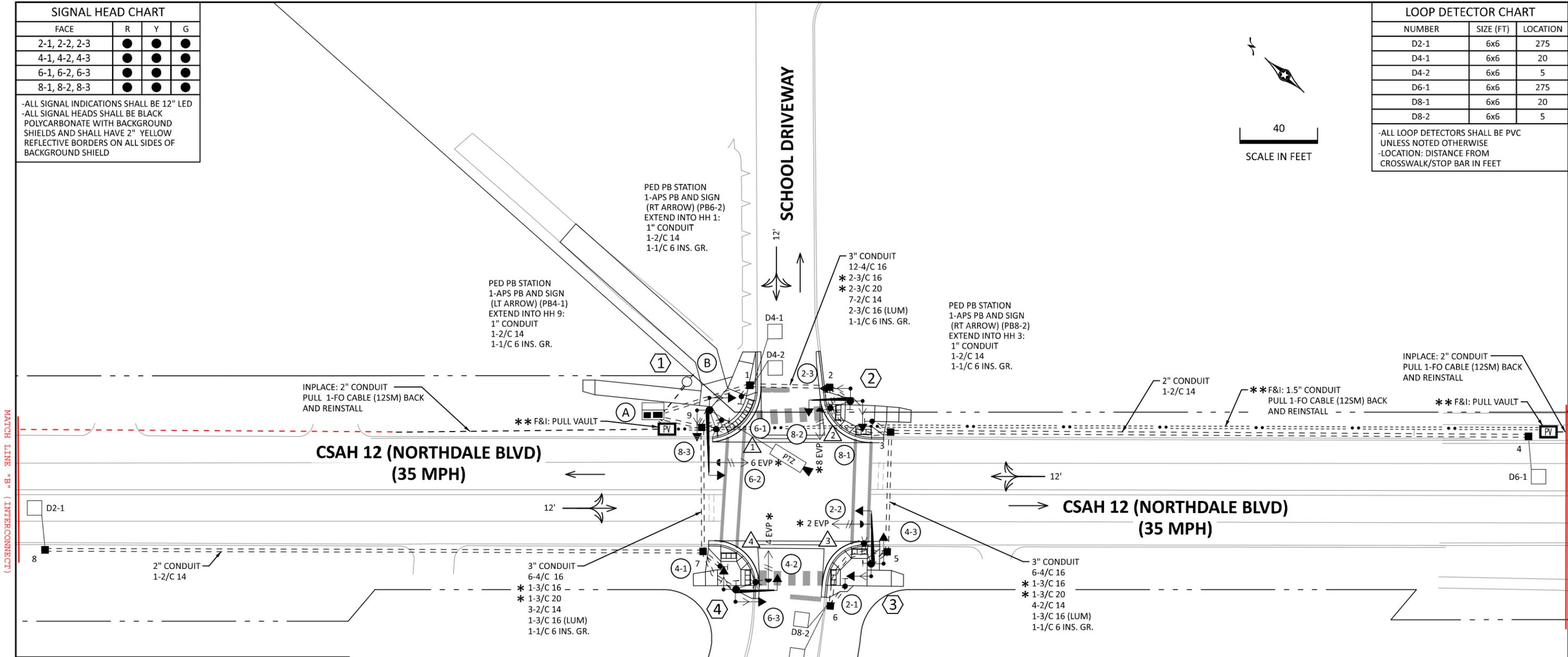
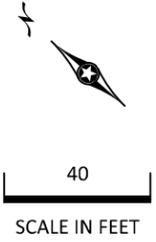
FILE NO. ANOKC 142312
67
115

SIGNAL HEAD CHART			
FACE	R	Y	G
2-1, 2-2, 2-3	●	●	●
4-1, 4-2, 4-3	●	●	●
6-1, 6-2, 6-3	●	●	●
8-1, 8-2, 8-3	●	●	●

-ALL SIGNAL INDICATIONS SHALL BE 12" LED
 -ALL SIGNAL HEADS SHALL BE BLACK POLYCARBONATE WITH BACKGROUND SHIELDS AND SHALL HAVE 2" YELLOW REFLECTIVE BORDERS ON ALL SIDES OF BACKGROUND SHIELD

LOOP DETECTOR CHART		
NUMBER	SIZE (FT)	LOCATION
D2-1	6x6	275
D4-1	6x6	20
D4-2	6x6	5
D6-1	6x6	275
D8-1	6x6	20
D8-2	6x6	5

-ALL LOOP DETECTORS SHALL BE PVC UNLESS NOTED OTHERWISE
 -LOCATION: DISTANCE FROM CROSSWALK/STOP BAR IN FEET



SIGNAL SYSTEM OPERATION

- THE SIGNAL SYSTEM FLASH MODE IS ALL RED.
- NORMAL OPERATION IS 4 PHASE.
- PHASES 2 AND 6 SHALL BE ON VEHICLE RECALL.

- NOTES:
- SEE THE SPECIAL PROVISIONS FOR COUNTY FURNISHED MATERIALS.
 - THE EXACT LOCATION OF THE HANDHOLES, LOOP DETECTORS, UNDERGROUND CONDUIT, AND THE EQUIPMENT PAD ARE DETERMINED IN THE FIELD. VERIFY THE LOCATIONS OF ALL SIGNAL COMPONENTS WITH ANOKA COUNTY PERSONNEL. CONDUITS UNDER ROADWAYS WILL REQUIRE BORING.
 - ALL SIGNAL MOUNTED SIGNS ARE INCLUDED IN PAYMENT WITH THE LUMP SUM SIGNAL SYSTEM B PAY ITEM. SEE SIGNING DETAIL SHEET FOR SIGNAL MOUNTED SIGNS.
 - PAVEMENT MARKINGS ARE INCLUDED AS PART OF THE STRIPING PLAN.
 - CONSTRUCTION OF PEDESTRIAN CURB RAMPS, CONCRETE WALK AND MEDIAN WORK ARE INCLUDED WITH THE ADA PLAN AND ARE PAID FOR SEPARATELY.
 - USE PVC OR HDPE FOR NEW CONDUIT. CONDUIT SIZES ARE NOMINAL DIAMETER.
 - ITEMS DENOTED WITH AN * ARE INCLUDED IN PAYMENT FOR THE EVP SYSTEM PAY ITEM.
 - SEE TRAFFIC CONTROL INTERCONNECT PLAN FOR INTERCONNECTION TO CSAH 51.
 - REMOVAL OF THE EXISTING SIGNAL IS INCLUDED IN PAYMENT FOR THE REMOVE SIGNAL SYSTEM B PAY ITEM. REFER TO THE "EXISTING SIGNAL PLAN" SHEETS FOR INPLACE SIGNAL SYSTEM COMPONENTS.
 - ITEMS DENOTED WITH ** ARE INCLUDED IN THE PAYMENT FOR THE TRAFFIC CONTROL INTERCONNECT PAY ITEM.
 - SEE SPECIAL PROVISIONS FOR TRAFFIC SIGNAL STAGING REQUIREMENTS.
 - STOP BARS ON CSAH 12 ARE SHOWN FOR REFERENCE ONLY AND WILL BE INSTALLED WITH FUTURE PROJECT. OFFSET LOOP DETECTORS FROM FUTURE STOP BAR LOCATIONS.

NO	DATE	DWN	CKD	REVISIONS

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TRAFFIC CONTROL SIGNAL SYSTEM PLANS
 SIGNAL SYSTEM "B"

SAP 106-020-043, SAP 114-020-066, SAP 114-020-067
 SAP 002-612-037, SAP 002-612-036 (CSAH 12)
 SHEET NO. 85 OF 98 SHEETS

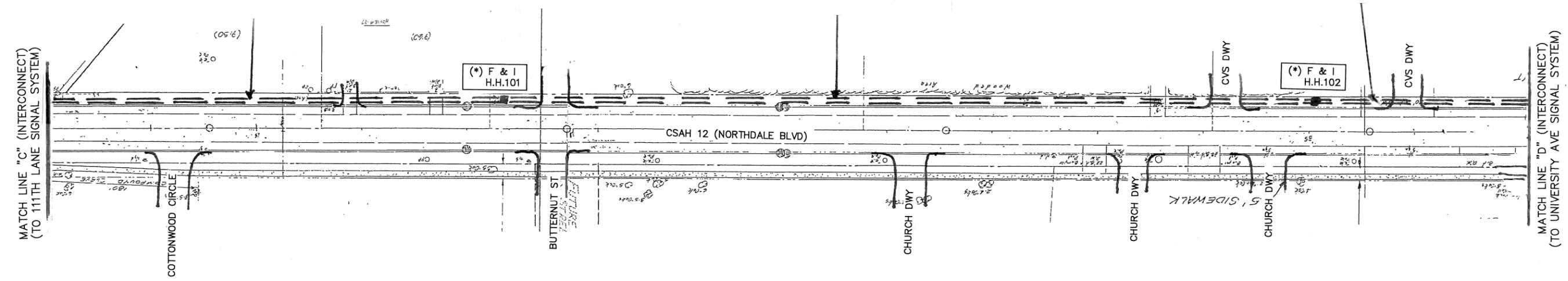
11:00:37 AM 2/14/2025 4:00:45 PM C:\Users\mccurdy\OneDrive\Documents\Projects\111th Lane NW\111th Lane NW_Signals\111th Lane NW_Signals.dwg



H.H.101 TO H.H.5:
 (*) 1.5" CONDUIT-F & I (BORE UNDER ALL DRIVEWAYS/ROADS)
 (*) 1-12 SM FIBER-OPTIC CABLE-F & I (TO 111TH LANE SIGNAL SYSTEM)

H.H.101 TO H.H.102:
 (*) 1.5" CONDUIT-F & I (BORE UNDER ALL DRIVEWAYS/ROADS)
 (*) 1-12 SM FIBER-OPTIC CABLE-F & I

H.H.102 TO H.H.5:
 (*) 1.5" CONDUIT-F & I (BORE UNDER ALL DRIVEWAYS/ROADS)
 (*) 1-12 SM FIBER-OPTIC CABLE-F & I (TO UNIVERSITY AVE SIGNAL SYSTEM)



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 "D"). SEE STATEMENT OF ESTIMATED QUANTITIES AND SPECIAL PROVISIONS.
- 3) NEW HANDHOLES 101-102 REQUIRED TO BE FURNISHED & INSTALLED BY CONTRACTOR AS PART OF PROJECT SHALL BE PRE-CAST POLYMER CONCRETE STRUCTURES (QUAZITE). SEE DETAILS/SPECIAL PROVISIONS.

S:\NEVA\ANOKC\COMMON SIGNALS\2017 INTERCONNECT\2017INBASE.DWG

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
 Lic. No. 22457
 Date: July 6, 2018

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

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

TRAFFIC SIGNAL INTERCONNECT 'D'
INTERSECTION LAYOUT
CSAH 12 (NORTHDALE BLVD)
(111TH LANE NW TO UNIVERSITY AVE)

FILE NO.
 ANOKC 142312

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