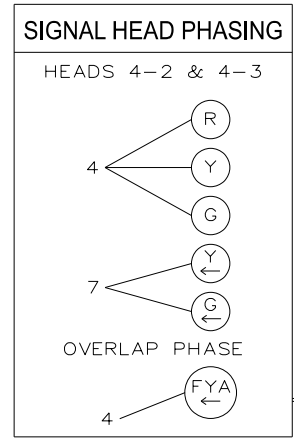


I/PLOT NAME: layout  
 PATH & FILENAME: Projects\DM\_R0S\095\0000\Traffic\Signal\03.30\_MN95-S MAIN ST AT (23)E CHESTNUT ST-4350744T-4350744\_sgl.dgn  
 PLOTTED/REVISED: 8-NOV-2023

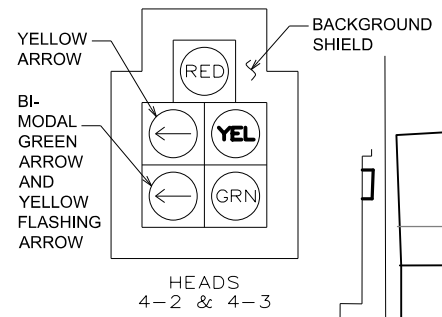
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SIGNAL HEAD CHART						
FACE	R	Y	FYA	G	Y	G
2-1, 2-2, 2-3	●	↑		↑		
4-1	●	●		●		
4-2, 4-3	●	●	←	●	←	←
6-1, 6-2, 6-3	●	●		●		

-ALL SIGNAL INDICATIONS SHALL BE 12" LED  
 -ALL SIGNAL HEADS SHALL BE BLACK POLYCARBONITE WITH BACKGROUND SHIELDS  
 -INDICATION 4-2 AND 4-3 SHALL USE MNDOT BIMODAL DOGHOUSE DESIGN. SEE DETAIL AT RIGHT.



**5 SECTION FYA CLUSTER HEAD DETAIL**

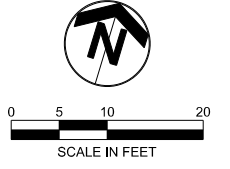


PED PB STATION  
 1-APS PB AND SIGN (LT ARROW)(PB6-1)  
 EXTEND INTO HH 5:  
 1" NOM. DIA. CONDUIT  
 1-2/C 14  
 1-1/C 6 INS. GR.

3" NMC  
 3-4/C 14  
 2-2/C 14  
 1-1/C 6 INS. GR.

2" NMC  
 1-2/C 14  
 1-1/C 6 INS. GR.

VIDEO DETECTION CHART		
NUMBER	LOCATION	PHASE
V-1	POLE 4	2, 4, 6



**NOTES:**

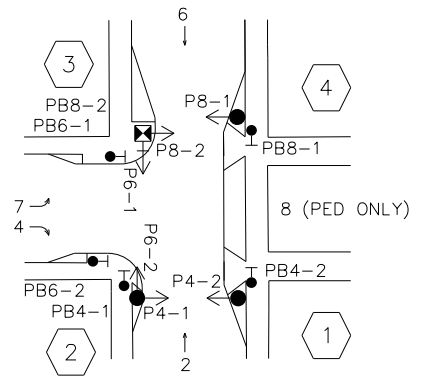
- SEE SPECIAL PROVISIONS FOR STATE FURNISHED MATERIALS.
- ENSURE THE EXACT LOCATION OF THE HANDHOLES, POLES, LOOP DETECTORS, AND EQUIPMENT PAD ARE VERIFIED IN THE FIELD BY MNDOT OFFICE PERSONNEL.
- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE CONNECTION OF THE POWER FOR THE TRAFFIC CONTROL SYSTEM.
- FOR TYPE D SIGNS, SEE DETAIL SHEET. ALL SIGNS REQUIRED ARE INCIDENTAL.
- FOR PAVEMENT MARKINGS, SEE PAVEMENT MARKING PLAN.
- FOR CONSTRUCTION OF PEDESTRIAN CURB RAMPS, CONCRETE WALK, AND MEDIAN WORK SEE CONSTRUCTION PLANS.
- THIS PLAN SPECIFIES CONDUIT SIZES, TYPES, AND GENERAL LOCATIONS. THE EXACT LOCATIONS WILL BE DETERMINED IN THE FIELD. CONDUITS UNDER THE ROADWAYS REQUIRE BORING.
- USE PVC OR HDPE FOR ALL NEW CONDUIT.
- CONDUIT SIZES ARE NOMINAL DIAMETER.
- ALL WIRES LISTED ARE AWG (AMERICAN WIRE GAUGE).
- ITEMS DENOTED WITH AN \* ARE INCLUDED IN PAYMENT FOR THE EVP SYSTEM PAY ITEM.
- ITEMS DENOTED WITH AN \*\* ARE INCLUDED IN PAYMENT FOR THE TRAFFIC CONTROL INTERCONNECTION PAY ITEM.

**CHESTNUT ST**  
 POSTED SPEED: 30 MPH

POST SPEED:  
 30 MPH

**TH 95 (MAIN ST)**

**CONTROLLER PHASING AND PEDESTRIAN INDICATIONS**



PED PB STATION  
 1-APS PB AND SIGN (RT ARROW)(PB6-2)  
 EXTEND INTO HH 4:  
 1" NOM. DIA. CONDUIT  
 1-2/C 14  
 1-1/C 6 INS. GR.

**SIGNAL SYSTEM OPERATION**

- THE SIGNAL SYSTEM FLASH MODE IS ALL RED.
- NORMAL OPERATION IS 4 PHASE, WITH PHASE 4 INCLUDING FLASHING YELLOW ARROWS BY TIME OF DAY.
- PHASES 2 AND 6 SHALL BE ON VEHICLE RECALL.

PED PB STATION  
 1-APS PB AND SIGN (LT ARROW)(PB8-1)  
 EXTEND INTO HH 7  
 1" NOM. DIA. CONDUIT  
 1-2/C 14  
 1-1/C 6 INS. GR.

TO MYRTLE ST  
 INPLACE CONDUIT  
 \*\*F&I 1-FO CABLE (12-SM)

1.5" CONDUIT  
 \*\*1-FO CABLE (12-SM)

3" NMC  
 1-6/C 14  
 8-4/C 14  
 \*1-3/C 14  
 \*1-3/C 20  
 1-3/C 14 (LUM)  
 1-CAT 5E TRA MGMT CA  
 3-2/C 14  
 1-1/C 6 INS. GR.

TO LIFT BRIDGE  
 3" CONDUIT  
 \*\*1-FO CABLE (12-SM)

3" NMC  
 \*\*1-FO CABLE (6-SM)

2-3" NMC  
 2-6/C 14  
 9-4/C 14  
 \*2-3/C 14  
 \*2-3/C 20  
 1-3/C 14 (LUM)  
 2-2/C 14  
 1-CAT 5E VIDEO DET  
 1-1/C 6 INS. GR.

PED PB STATION  
 1-APS PB AND SIGN (RT ARROW)(PB4-2)  
 EXTEND INTO HH 2:  
 1" NOM. DIA. CONDUIT  
 1-2/C 14  
 1-1/C 6 INS. GR.

TO NELSON ST  
 INPLACE CONDUIT  
 INPLACE 1-FO CABLE (6-SM)

3" NMC  
 1-6/C 14  
 4-4/C 14  
 \*1-3/C 14  
 \*1-3/C 20  
 1-3/C 14 (LUM)  
 2-2/C 14  
 1-1/C 6 INS. GR.

SYSTEM ID: 4350744  
 METER ADDRESS: 131 MAIN ST. S.  
 T.E.:50997

NO.	DATE	BY	DESCRIPTION OF REVISIONS
1	11/08/23	SJK	AS-BUILT PLAN

DESIGNED	DRAWN	CHECKED
LKG	LKG	JAH

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF MINNESOTA.  
 SIGNATURE: \_\_\_\_\_ DATE: 03/25/2022  
 NAME: LINDSAY GAINES LIC. NO.: 58894



444 Cedar Street, Suite 1500  
 Saint Paul, MN 55101  
 651.292.4400  
 tkda.com

**CHESTNUT STREET PLAZA  
 PEDESTRIAN IMPROVEMENTS**  
 CITY OF STILLWATER, MINNESOTA

**PROPOSED SIGNAL LAYOUT**  
 STATE PROJ. NO. 8210-111 (T.H. 95)  
 CITY PROJECT NO. 2022-06  
 SHEET NO. 94 OF 105

I/PLOT NAME: pole notes  
 PATH & FILENAME: Projects\DM罗斯095\000007\traffic\Signals\03.30\_MN95-S MAIN ST AT (23)E CHESTNUT ST-4350744T\_4350744\_sgl.dgn

PLOT DATE: \$(time, 0, MON DD, \*YYYY-##MM##pm)  
 FILENAME: \$(getvar, "dwgprefix")\$(getvar, "dwgname")

**1**  
 NB STA 13+60.20, 21.9' RT  
 PA90 POLE FOUNDATION  
 TYPE PA90-A-25/CAM 400 EXTENSION  
 1-TRAFFIC MANAGEMENT CAMERA (STATE FURNISHED) WITH MOUNT  
 1-ANGLE MOUNT SIGNAL OVERHEAD AT 0'  
 2-ANGLE MOUNT SIGNALS AT 90 AND 180 DEG  
 1-ANGLE MOUNT C. D. PED IND AT 180 DEG  
 1-ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT (PHASES 4)  
 1-SIGN R10-X12 (LEFT TURN YIELD ON FLASHING YELLOW ARROW)  
 1-SIGN D-203 (MAIN ST) (SALVAGE AND INSTALL SIGN FROM EXISTING SIGNAL POLE)  
 1-SIGN R3-27 (NO FORWARD MOVEMENT) (SALVAGE AND INSTALL SIGN FROM EXISTING SIGNAL POLE)  
 3" CONDUIT TO HH 2:  
 1-6/C 14  
 5-4/C 14  
 1-3/C 14  
 1-3/C 20  
 1-CAT 5E TRA MGMT CAM  
 1-1/C 6 INS. GR.

**2**  
 NB STA 13+59.11, 21.6' LT  
 PA85 POLE FOUNDATION  
 TYPE PA85-A-15-D40-9 (DAVIT AT 350 DEG)  
 1-ANGLE MOUNT SIGNAL OVERHEAD AT 0'  
 1-ANGLE MOUNT SIGNAL AT 180 DEG  
 2-ANGLE MOUNT C. D. PED IND AT 90 AND 180 DEG  
 1-ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT (PHASE 5)  
 LUMINAIRE-40' LED  
 1-SIGN D-202 (CHESTNUT ST) (SALVAGE AND INSTALL SIGN FROM EXISTING SIGNAL POLE)  
 1-SIGN R3-2 (NO LEFT TURNS) (SALVAGE AND INSTALL SIGN FROM EXISTING SIGNAL POLE)  
 3" CONDUIT TO HH 3:  
 1-6/C 14  
 4-4/C 14  
 \*1-3/C 14  
 \*1-3/C 20  
 1-3/C 14 (LUM)  
 1-1/C 6 INS. GR.

**3**  
 NB STA 14+26.11+, 21.5' LT  
 13' PEDESTAL POLE FOUNDATION  
 1-ANGLE MOUNT SIGNALS AT 180 DEG  
 2-ANGLE MOUNT C. D. PED IND AT 90 and 180 DEG  
 1-APS PB AND SIGN (RT ARROW)(PB8-2)  
 AND APS PB MOUNTING SPACERS  
 3" CONDUIT TO HH 6:  
 3-4/C-14  
 1-2/C 14  
 1-1/C 6 INS. GR.

**4**  
 NB STA 14+27.82, 21.7' RT  
 PA85 POLE FOUNDATION  
 TYPE PA85-A-15-D40-9 (DAVIT AT 350 DEG)  
 1-ANGLE MOUNT SIGNAL OVERHEAD AT 0'  
 2-ANGLE MOUNT SIGNALS AT 90 AND 180 DEG  
 1-ANGLE MOUNT C. D. PED IND AT 90 DEG  
 1-ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT (PHASE 2)  
 1-VIDEO DETECTION CAMERA (STATE FURNISHED)  
 MOUNTED ON LUMINAIRE EXTENSION  
 LUMINAIRE-40' MH LED  
 1-SIGN D-201 (CHESTNUT ST) (SALVAGE AND INSTALL SIGN FROM EXISTING SIGNAL POLE)  
 2-SIGN R3-5A (FORWARD ONLY) (SALVAGE AND INSTALL SIGN FROM EXISTING SIGNAL POLE)  
 3" CONDUIT TO HH 7:  
 1-6/C 14  
 5-4/C 14  
 \*1-3/C 14  
 \*1-3/C 20  
 1-3/C 14 (LUM)  
 1-CAT 5E VIDEO DET  
 1-1/C 6 INS. GR.

**A** EQUIPMENT PAD (SEE DETAIL SHEET)  
 SERVICE CABINET (SSB) NO BATTERY BACKUP OR BATTERIES  
 CONTROLLER AND CABINET (STATE FURNISHED)  
  
 2-3" CONDUIT TO HH 1:      3" CONDUIT TO HH 8:  
 2-6/C 14                      1-6/C 14  
 9-4/C 14                      8-4/C 14  
 \*2-3/C 14                     \*1-3/C 14  
 \*2-3/C 20                     \*1-3/C 20  
 1-3/C 14 (LUM)              1-3/C 14 (LUM)  
 3-2/C 14                      1-CAT 5E TRA MGMT CA  
 1-CAT 5E VIDEO DET        3-2/C 14  
 1-1/C 6 INS. GR.            1-1/C 6 INS. GR.

**B** INPLACE SOP (XCEL ENERGY)  
 2" CONDUIT INTO SERVICE CABINET  
 3-1/C 2

NO.	DATE	BY	DESCRIPTION OF REVISIONS
1	11/08/23	SJK	AS-BUILT PLAN

DESIGNED	LKG	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.  SIGNATURE: _____ DATE: 03/25/2022 NAME: LINDSAY GAINES LIC. NO.: 58894
DRAWN	LKG	
CHECKED	JAH	

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 Saint Paul, MN 55101  
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**CHESTNUT STREET PLAZA  
 PEDESTRIAN IMPROVEMENTS**  
  
 CITY OF STILLWATER, MINNESOTA

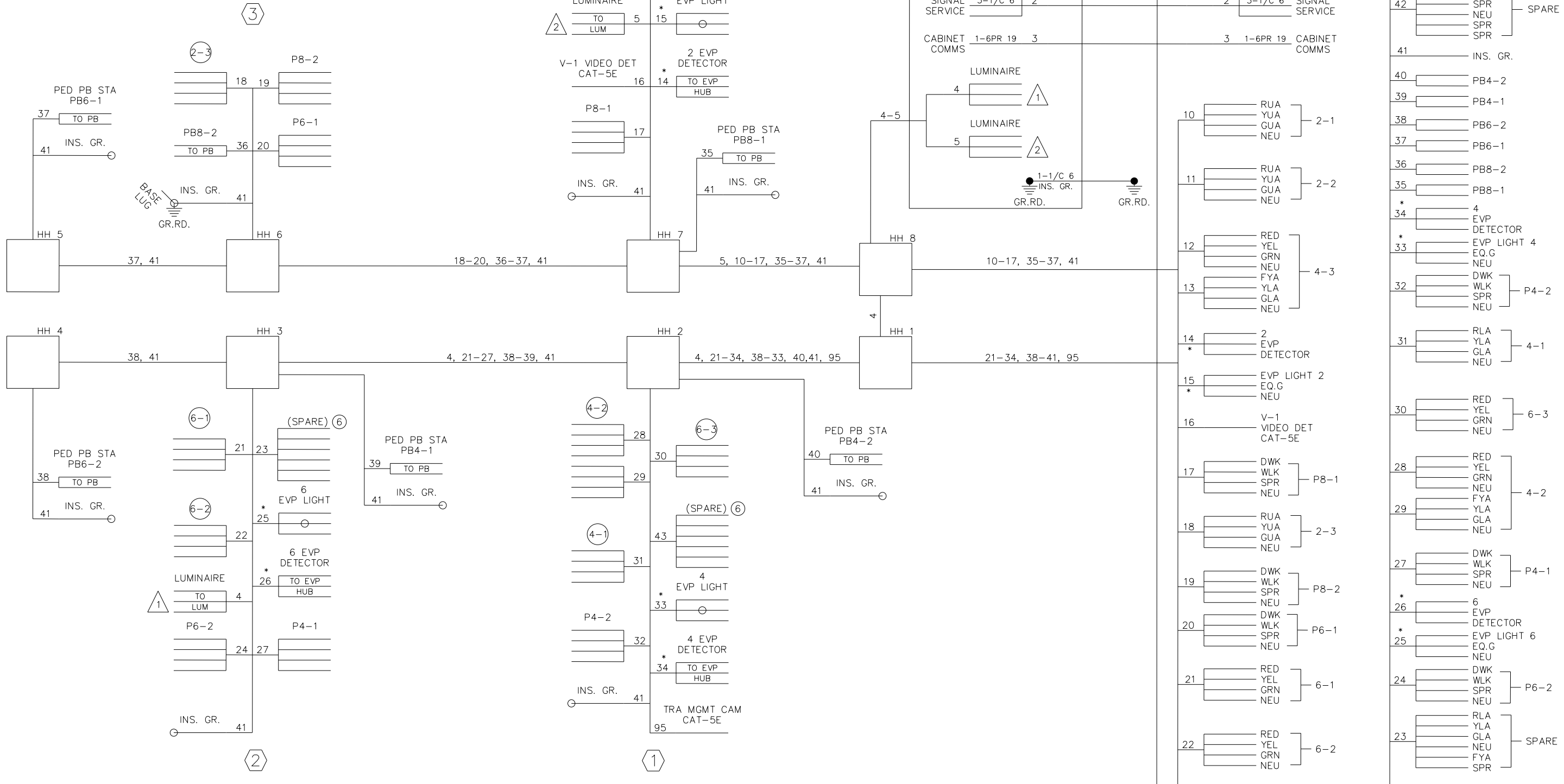
**INTERSECTION NOTES**  
  
 STATE PROJ. NO. 8210-111 (T.H. 95)  
 CITY PROJECT NO. 2022-06  
  
 SHEET NO. 95 OF 105

PLOT NAME: wiring diagram  
 PATH & FILENAME: Projects\DM罗斯095\0000\TrafficSignal\03.30\_MW95-S MAIN ST AT (23)E CHESTNUT ST-4350744T-4350744\_sgl.dgn

PLOT DATE: \$edtime, 0, MON DD: \*YYYY-HHMM(ss)mm  
 FILENAME: \$(getvar, "dwgprefix")\$(getvar, "dwgname")

**NOTES:**

1. SPLICES ARE NOT ALLOWED.
2. SIGNAL SYSTEM INCLUDES BATTERY BACKUP SERVICE CABINET (NO BATTERIES).
3. FOR CONDUCTOR COLOR CODE SEE TRAFFIC SIGNAL POLE WIRING CONNECTOR DETAIL.
4. ITEMS DENOTED WITH AN \* ARE INCLUDED IN PAYMENT FOR THE EVP SYSTEM PAY ITEM.
5. ITEMS DENOTED WITH AN \*\* ARE INCLUDED IN PAYMENT FOR THE TRAFFIC CONTROL INTERCONNECTION PAY ITEM.
6. FOR EACH "SPARE" WIRE, COIL ENOUGH WIRE TO REACH THE END OF THE MAST ARM IN THE HAND HOLE NEAREST EACH POLE.
7. LEAVE ONE LOOP OF SLACK FOR EACH CABLE IN THE POLE BASE.



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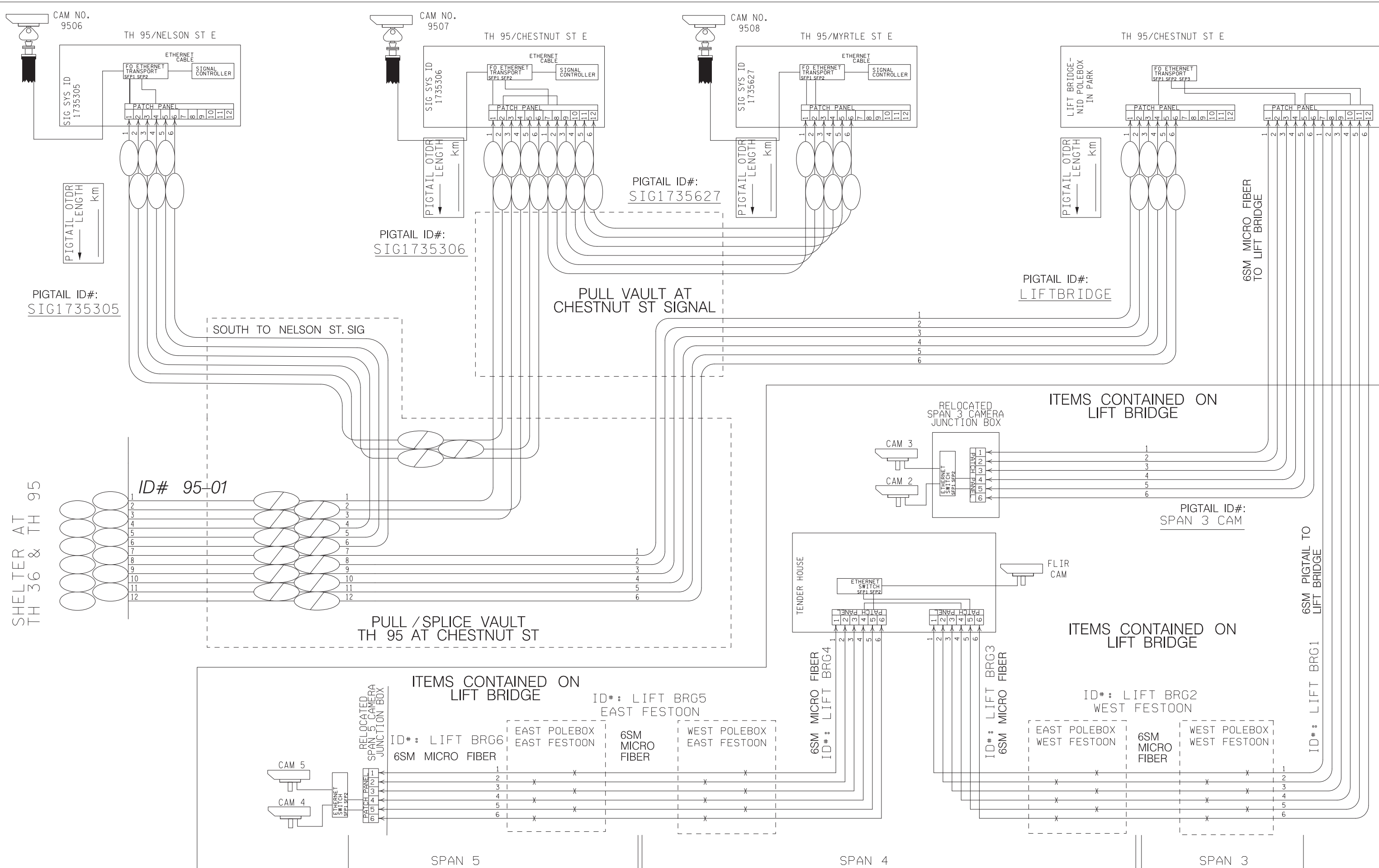
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**CHESTNUT STREET PLAZA  
 PEDESTRIAN IMPROVEMENTS**  
  
 CITY OF STILLWATER, MINNESOTA

**PROPOSED SIGNAL WIRING DIAGRAM**  
  
 STATE PROJ. NO. 8210-111 (T.H. 95)  
 CITY PROJECT NO. 2022-06

SHEET NO. 96 OF 105

\$STATION\$ \$TIME\$  
 PLOTTED:\$PLOTTED ON\$



\$FILE\$