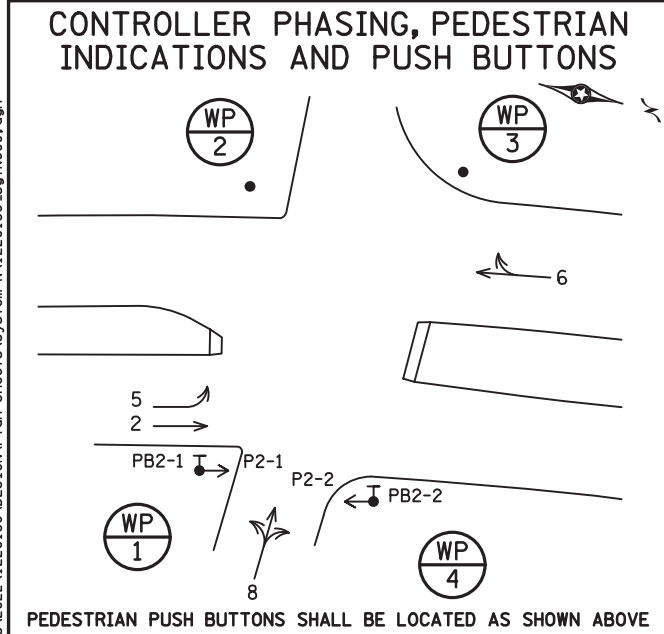
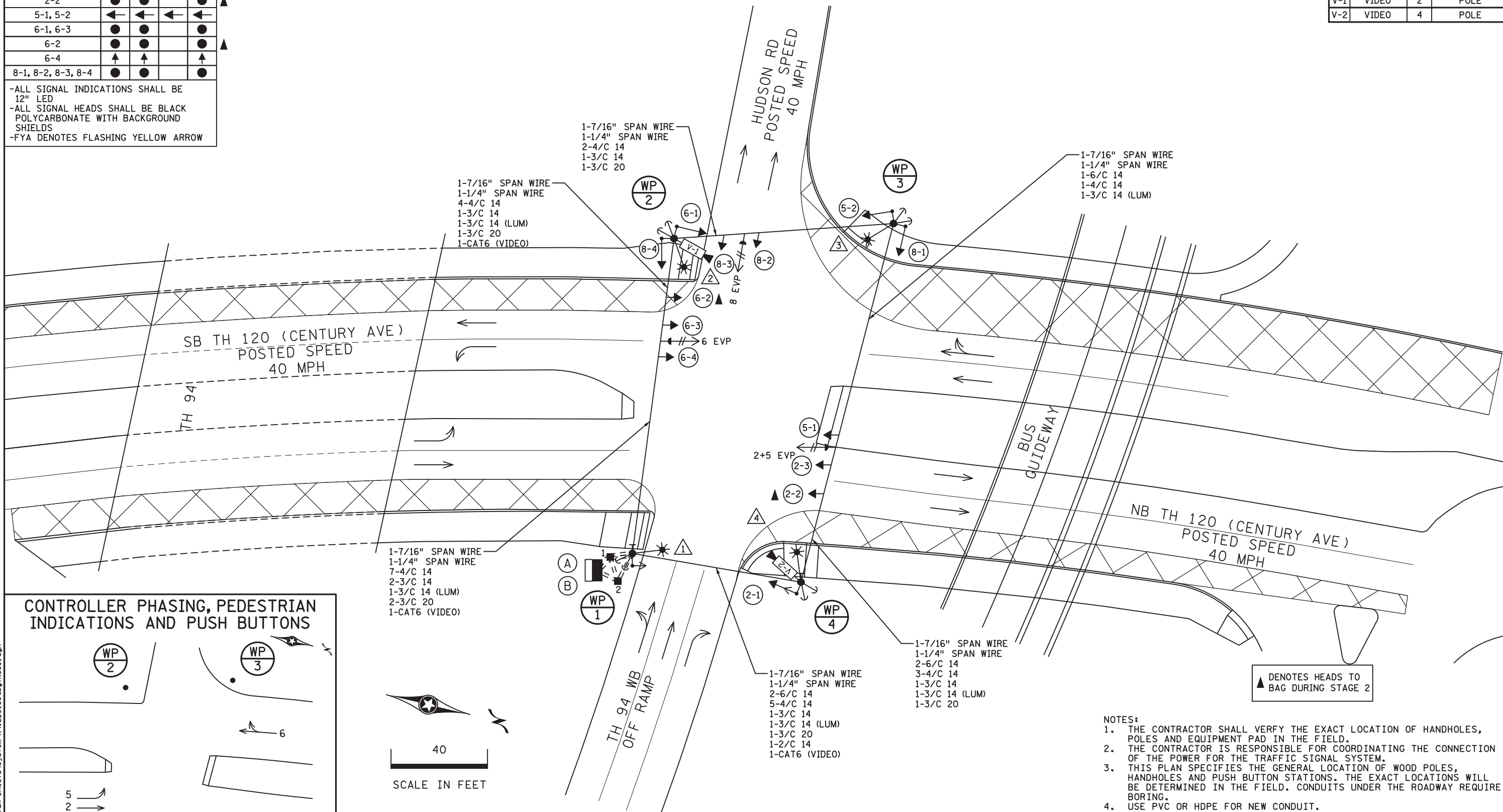


SIGNAL HEAD CHART				
FACE	R	Y	FYA	G
2-1, 2-3	●	●		●
2-2	●	●		●
5-1, 5-2	←	←	←	←
6-1, 6-3	●	●		●
6-2	●	●		●
6-4	↑	↑		↑
8-1, 8-2, 8-3, 8-4	●	●		●

-ALL SIGNAL INDICATIONS SHALL BE 12" LED
 -ALL SIGNAL HEADS SHALL BE BLACK POLYCARBONATE WITH BACKGROUND SHIELDS
 -FYA DENOTES FLASHING YELLOW ARROW

VIDEO DETECTION					
NO.	CAMERA	TYPE	LOCATION		PHASE
			POLE	MOUNT LOC.	
V-1	VIDEO		2	POLE	ALL
V-2	VIDEO		4	POLE	ALL



SIGNAL SYSTEM OPERATION

- THE SIGNAL SYSTEM FLASH MODE IS ALL RED.
- NORMAL OPERATION IS 4 PHASE, WITH PHASE 5 BEING FLASHING YELLOW ARROWS BY TIME OF DAY.
- PHASES 2 AND 6 SHALL BE ON VEHICLE RECALL.

- ### NOTES:
1. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF HANDHOLES, POLES AND EQUIPMENT PAD IN THE FIELD.
 2. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE CONNECTION OF THE POWER FOR THE TRAFFIC SIGNAL SYSTEM.
 3. THIS PLAN SPECIFIES THE GENERAL LOCATION OF WOOD POLES, HANDHOLES AND PUSH BUTTON STATIONS. THE EXACT LOCATIONS WILL BE DETERMINED IN THE FIELD. CONDUITS UNDER THE ROADWAY REQUIRE BORING.
 4. USE PVC OR HDPE FOR NEW CONDUIT.
 5. CONDUIT SIZES ARE NOMINAL DIAMETER.
 6. THE CONTRACTOR SHALL VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION.
 7. ALL WIRED ARE AWG (AMERICAN WIRE GAUGE).
 8. STAGING SHOULD BE PERFORMED IN 2 STAGES:
 STAGE 1: THIS STAGE WILL USE THE EXISTING TRAFFIC SIGNAL SYSTEM FOR TRAFFIC CONTROL.
 STAGE 2: WILL USE TRAFFIC CONTROL AS SHOWN IN THE PLANS.
 9. THE CONTRACTOR MAY FIELD ADJUST THE LOCATION OF THE VIDEO DETECTION TO ENSURE ADEQUATE STOP BAR AND ADVANCE DETECTION. IF NECESSARY, THE CONTRACTOR SHALL PROVIDE ADDITIONAL DETECTION FOR ADVANCE DETECTION.

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NO	DATE	DWN	CKD	REVISIONS



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: DEREK NIEVEEN
 SIGNATURE: *Derek Nieveen*
 DATE: 5/19/2023 LICENSE #: 52242

TRAFFIC CONTROL SIGNAL SYSTEM "N"
 TEMPORARY SIGNAL - STAGE 2

GOLD LINE BRT TRAFFIC
 SHEET NO. 1 OF 3 SHEETS

ID 5604749

WP
1

45' WOOD POLE
2-DOWN GUY, GUARD AND ANCHORS
1-TYPE 30A-WOOD POLE MOUNTED AT 90°
15' MAST ARM AND LUMINAIRE (LED)
1-PEDESTRIAN PUSH BUTTON AND SIGN
METAL JUNCTION BOX WITH TERMINAL BLOCK

3" CONDUIT RISER AND WEATHERHEAD FROM HH 1 TO SPAN WIRES WITH:
8-4/C 14 2-6/C 14
2-3/C 14 5-4/C 14
1-2/C 14 1-3/C 14
2-3/C 20 1-2/C 14
1-CAT6 (VIDEO) 1-3/C 20
1-1/C 6 INS. GR. 1-CAT6 (VIDEO)
1-1/C 6 INS. GR.

3" CONDUIT ABOVE JUNCTION BOX TO SPAN WIRES WITH"
1-4/C 14
1-2/C 14
1-1/C 6 INS. GR.

1" CONDUIT RISER AND WEATHERHEAD ABOVE SPAN WIRE WITH:
1-3/C 14 (LUM)

WP
2

45' WOOD POLE
2-DOWN GUY, GUARD AND ANCHOR
2-TYPE 10A-WOOD POLE MOUNTED AT 90° AND 180°
1-VIDEO DETECTION CAMERA (V-1) POLE MOUNTED
15' MAST ARM AND LUMINAIRE (LED)
METAL JUNCTION BOX WITH TERMINAL BLOCK

3" CONDUIT ABOVE JUNCTION BOX TO SPAN WIRES WITH:
2-4/C 14
1-CAT6 (VIDEO)
1-1/C 6 INS. GR.

1" CONDUIT RISER AND WEATHERHEAD ABOVE SPAN WIRE WITH:
1-3/C 14 (LUM)

WP
3

45' WOOD POLE
2-DOWN GUY, GUARD AND ANCHOR
2-TYPE 10A-WOOD POLE MOUNTED AT 90° AND 180°
15' MAST ARM AND LUMINAIRE (LED)
METAL JUNCTION BOX WITH TERMINAL BLOCK

3" CONDUIT ABOVE JUNCTION BOX SPAN WIRES WITH:
1-6/C 14
1-4/C 14
1-1/C 6 INS. GR.

1" CONDUIT RISER AND WEATHERHEAD ABOVE SPAN WIRE WITH:
1-3/C 14 (LUM)

WP
4

45' WOOD POLE
2-DOWN GUY, GUARD AND ANCHOR
1-TYPE 10B-WOOD POLE MOUNTED AT 180°
1-VIDEO DETECTION CAMERA (V-2) POLE MOUNTED
15' MAST ARM AND LUMINAIRE (LED)
1-PEDESTRIAN PUSH BUTTONS AND SIGNS
METAL JUNCTION BOX WITH TERMINAL BLOCK

3" CONDUIT ABOVE JUNCTION BOX SPAN WIRES WITH:
2-4/C 14
1-2/C 14
1-CAT6 (VIDEO)
1-1/C 6 INS. GR.

1" CONDUIT RISER AND WEATHERHEAD ABOVE SPAN WIRE WITH:
1-3/C 14 (LUM)

A

F&I: TEMPORARY SIGNAL CABINET BASE
INSTALL: TEMPORARY CABINET AND CONTROLLER (SALVAGED)
F&I: CONTROLLER CABINET TO HH 1:
3" CONDUIT 3" CONDUIT
8-4/C 14 2-6/C 14
2-3/C 14 5-4/C 14
1-2/C 14 1-3/C 14
2-3/C 20 1-2/C 14
1-CAT6 (VIDEO) 1-3/C 20
1-1/C 6 INS. GR. 1-1/C 6 INS. GR.

CONTROLLER CABINET TO SOP:
3-1/C 6

B

TEMPORARY SERVICE CABINET BASE
TEMPORARY SERVICE CABINET
2" CONDUIT FROM CONTROLLER CABINET:
3-1/C 6
2" CONDUIT, RISER AND WEATHERHEAD FROM SERVICE
EQUIPMENT TO HH 2:
4-3/C 14 (LUM)
FROM HH 2 TO ABOVE SPAN WIRE ON POLE 1:
2" CONDUIT:
4-3/C 14 (LUM)

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ID 5604749

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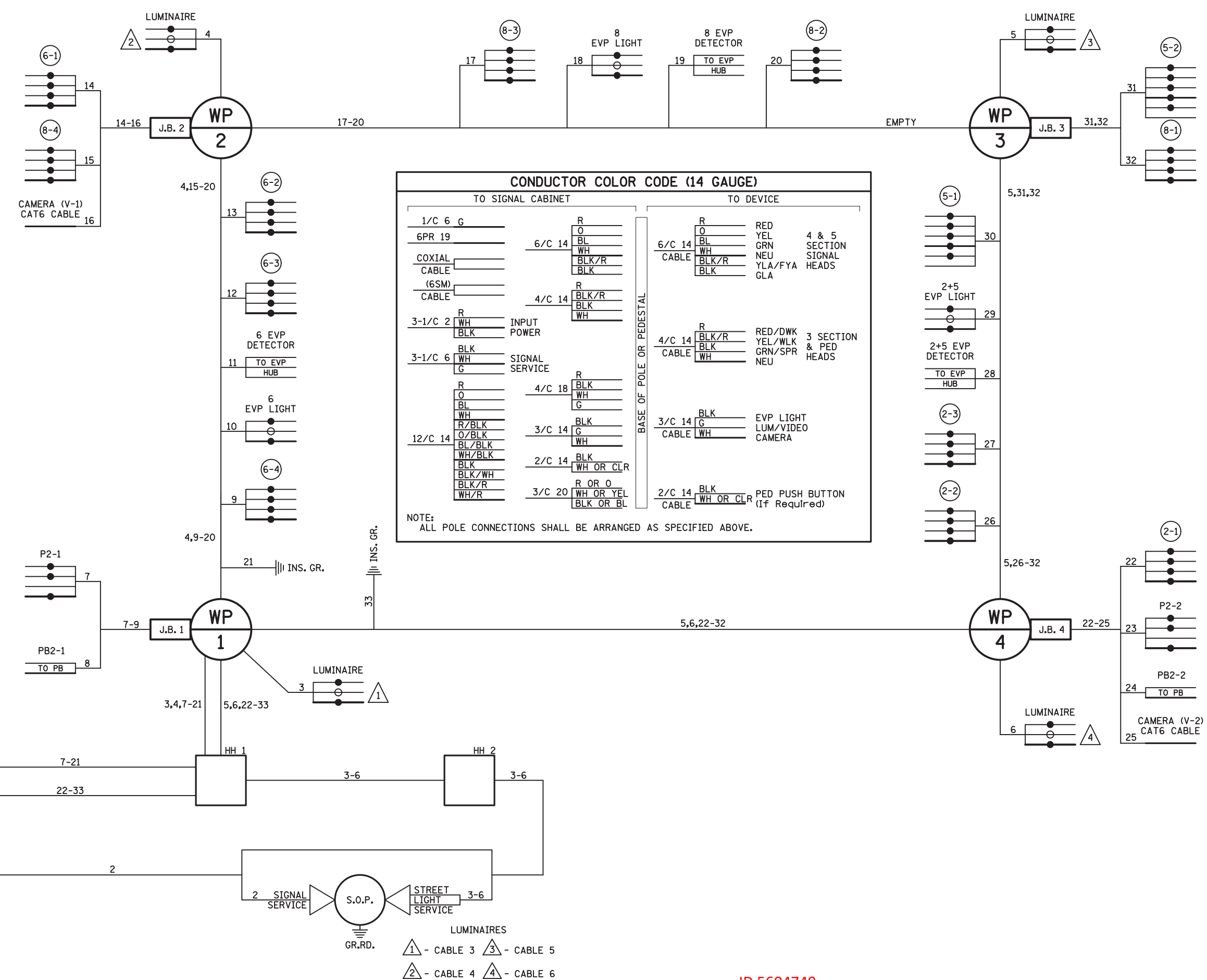
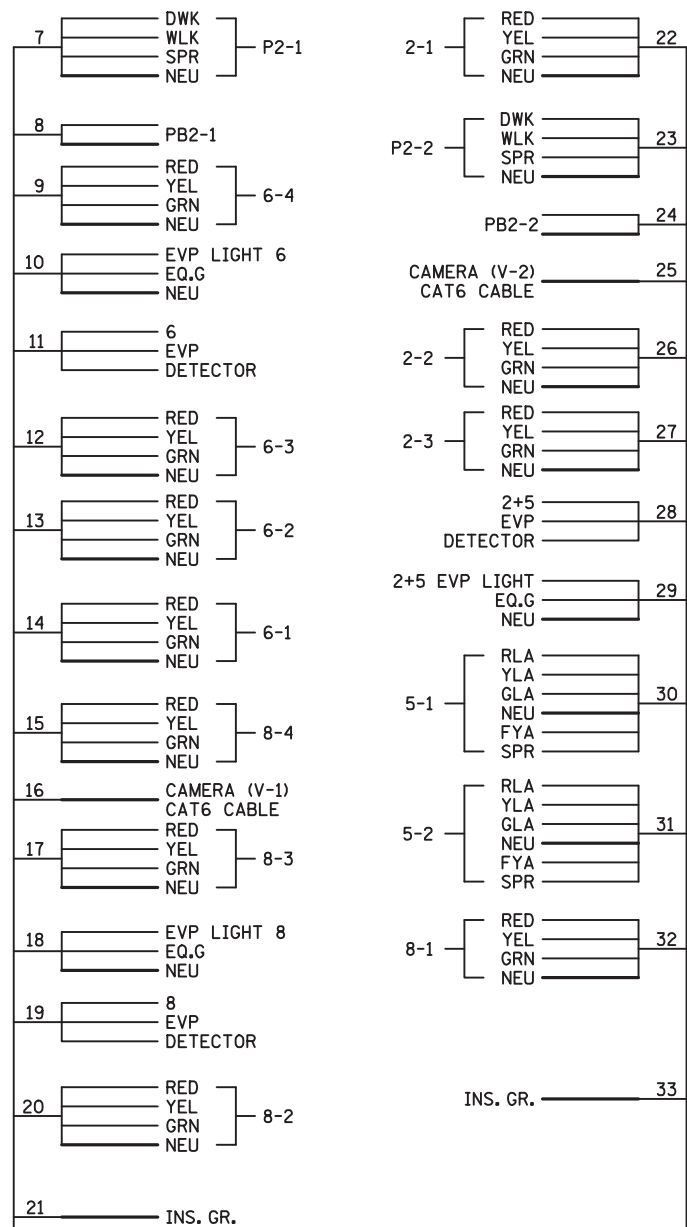
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PRINT NAME: DEREK NIEVEEN
SIGNATURE: *Derek Nieveen*
DATE: 5/19/2023 LICENSE #: 52242

TRAFFIC CONTROL SIGNAL SYSTEM "N"
TEMPORARY SIGNAL - INTERSECTION NOTES

GOLD LINE BRT TRAFFIC
SHEET NO. 2 OF 3 SHEETS

CONTROLLER CABINET



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PRINT NAME: DEREK NIEVEEN
 SIGNATURE: *Derek Nieveen*
 DATE: 5/19/2023 LICENSE #: 52242

TRAFFIC CONTROL SIGNAL SYSTEM "N"
 TEMPORARY SIGNAL - WIRING DIAGRAM

GOLD LINE BRT TRAFFIC
 SHEET NO. 3 OF 3 SHEETS

ID 5604749