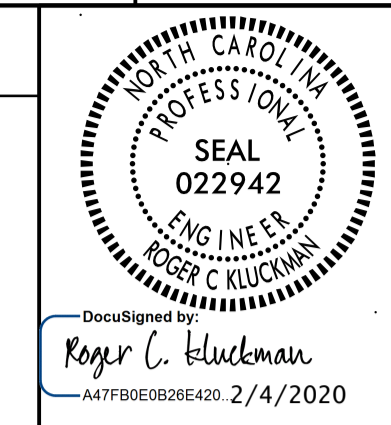


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PLANS AND DETAILS FOR PROPOSED LIGHTING /ELECTRICAL CONSTRUCTION

NOTES

- 1 AT THESE LOCATIONS, PROVIDE ELECTRICAL DUCT IN ACCORDANCE WITH NEC REQUIREMENTS FOR AN APPROVED RACEWAY FOR ELECTRICAL CIRCUITS. SEE TABLE "C"
- 2 INSTALL ALL BORE PITS OUTSIDE THE CLEAR ZONE, AS DEFINED BY THE 2011 AASHTO ROADSIDE DESIGN GUIDE OR AS DIRECTED BY THE ENGINEER.
- 3 LOCATE ALL JUNCTION BOXES OUTSIDE CLEAR ZONE AND IN AN AREA UNLIKELY TO BE USED BY TRAFFIC.
- 4 LOCATE PROPOSED CONTROL SYSTEM IN AN AREA ACCESSIBLE FOR MAINTENANCE VEHICLES AND OUTSIDE OF CLEAR ZONE AS DEFINED BY THE 2011 AASHTO ROADSIDE DESIGN GUIDE.
- 5 INSTALL RIGID GALVANIZED CONDUIT (RGC) ABOVE GROUND, AND POLYVINYL CHLORIDE (PVC) SCHEDULE 40 CONDUIT UNDERGROUND, EXCEPT AS MODIFIED ON THESE PLANSHEETS OR IN APPLICABLE SECTIONS OF THE ROADWAY STANDARD DRAWINGS FOR THIS PROJECT.
- 6 ALL JUNCTION BOXES SHALL BE 18" HIGH, UNLESS OTHERWISE NOTED.
- 7 CONTRACTOR SHALL RECORD THE GPS COORDINATES OF EACH JUNCTION BOX IN THE JUNCTION BOX SUMMARY, TABLE C. PROVIDE A COPY OF THE JUNCTION BOX SUMMARY WITH THESE COORDINATES TO THE LIGHTING ENGINEER DURING PROJECT INSPECTION.
- 8 POLE NUMBERING CONVENTION: CONTROL SYSTEM-POLE #-CKT # (A-3-2).
- 9 JUNCTION BOXES SHOWN NEAR LIGHT STANDARDS (LSJB & HMJB) ARE SHOWN FOR CLARITY. THESE JUNCTION BOXES ARE TO BE USED AS A TEE POINT FOR CIRCUITRY TO THE STANDARD, AND SHALL BE INSTALLED FOR BEST ALIGNMENT OF CIRCUITRY WHILE MAINTAINING THE OFFSETS SHOWN IN TABLE "C". SEE STANDARD DRAWINGS 1401.01 AND 1406.01 FOR INSTALLATION DETAILS.

SCOPE OF WORK

PLACE ROADWAY LIGHTING SYSTEM INTO SERVICE BY PROVIDING AND INSTALLING LIGHT STANDARDS WITH LIGHT EMITTING DIODE LUMINAIRES, UNDERGROUND CIRCUITRY, CONTROL SYSTEM AND JUNCTION BOXES.

DESIGN CRITERIA

- 0.8 AVERAGE FOOTCANDLE ON TRAVEL LANES
- 4:1 AVERAGE TO MINIMUM UNIFORMITY RATIO ON TRAVEL LANES
- 2018 AASHTO ROADWAY LIGHTING DESIGN GUIDE
- 2013 AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS, 6TH EDITION AND LATEST INTERIM SPECIFICATIONS VALID AT THE TIME OF LETTING (HANDHOLE SHAFT DIAMETER REQUIREMENT AND HANDHOLE PLACEMENT REQUIREMENT WAIVED)
- FATIGUE CATEGORY II SHALL BE USED IN DESIGN
- DESIGN HIGH MOUNT SUPPORT FOR BASIC WIND SPEED OF 90 MPH
- DESIGN HIGH MOUNT STANDARD FOUNDATION FOR BASIC WIND SPEED OF 110 MPH. ANY CONTRACTOR-DESIGNED SITE SPECIFIC FOUNDATION DESIGN SHALL BE DESIGNED FOR THE SAME WIND SPEED
- 2017 NATIONAL ELECTRICAL CODE
- 2011 AASHTO ROADSIDE DESIGN GUIDE

ROADWAY STANDARDS

THE FOLLOWING ROADWAY ENGLISH STANDARDS AS APPEAR IN "NCDOT ROADWAY STANDARD DRAWINGS", ROADWAY DESIGN UNIT-N.C. DEPARTMENT OF TRANSPORTATION RALEIGH, N.C., DATED JANUARY 2018 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD NO.	TITLE
1401.01	HIGH MOUNT STANDARD
1404.01	LIGHT STANDARDS
1405.01	STANDARD FOUNDATION
1407.01	ELECTRIC SERVICE POLE AND LATERAL LIGHT CONTROL SYSTEM (USE ATTACHED DETAIL SHEETS 1408D01 IN LIEU OF STANDARD DRAWING 1408.01, SHEETS 1 & 2)
1408.01	ELECTRICAL DUCT
1409.01	FEEDER CIRCUITS
1410.01	ELECTRICAL JUNCTION BOXES
1411.01	UNDERPASS LIGHTING

ALL WORK SHALL BE IN CONFORMANCE WITH DIVISION 14 OF THE STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES, DATED JANUARY 2018.

LEGEND

- PROPOSED 120' HIGH MAST STANDARD W/ HM FOUNDATION, JUNCTION BOX & 8 HM LED LUMINAIRES. 560W MAX, 54,000 MIN. MAINTAINED DELIVERED LUMENS, TYPE V. MAXIMUM BUG RATING 5-0-5.
- PROPOSED LIGHT STANDARD TYPE MTLT 45' WITH 15' SINGLE ARM. INCLUDES STANDARD FOUNDATION TYPE R1 OR R2, JUNCTION BOX & 185W MAX LED ROADWAY LUMINAIRE. IES DISTRIBUTION: TYPE II OR III AS REQUIRED. MAXIMUM BUG RATING 3-0-3.
- PROPOSED LIGHT STANDARD TYPE MTLT 45' WITH 15' TWIN ARMS. INCLUDES STANDARD FOUNDATION TYPE R1 OR R2, JUNCTION BOX & 185W MAX LED ROADWAY LUMINAIRE. IES DISTRIBUTION: TYPE II OR III AS REQUIRED. MAXIMUM BUG RATING 3-0-3.
- PROPOSED UNDERPASS LUMINAIRE, TYPE WM, 50W LED
- PROPOSED UNDERPASS BREAKER PANEL
- PROPOSED CONTROL SYSTEM WITH JUNCTION BOX. SIZE BREAKERS AS SHOWN IN LOAD SCHEDULE.
- PROPOSED ELECTRICAL JUNCTION BOX. SEE TABLE C, SHEET E1A, FOR DETAILS AND TYPE.
- REFERENCE TO CORRESPONDING NOTE AS NUMBERED.
- PROPOSED FEEDER CIRCUIT. CONTROL SYSTEM (A), CIRCUIT NUMBER (1) PLAN SYMBOL (6). SEE TABLE A, THIS SHEET.
- PROPOSED ELECTRICAL DUCT SIZE 2", 3" OR 4" TYPE (JA) OR (BD) LOCATION: SEE TABLE B, SHEET E1A.
2", 3" OR 4" ELEC. DUCT JA & BD

PLAN SYMBOL	DESCRIPTION	CONTRACT ITEM	
8	2 #8 Ø 1 #10G 1.5" P	2 AWG SIZE 8 CONDUCTOR (BK & RD) 1 AWG SIZE 10 GROUNDING CONDUCTOR 1.5" PVC CONDUIT	2 - 8 W/G FEEDER CIRCUIT IN 1.5" CONDUIT
*8	2 #8 Ø 1 #10G	2 AWG SIZE 8 CONDUCTOR (BK & RD) 1 AWG SIZE 10 GROUNDING CONDUCTOR	2 - 8 W/G FEEDER CIRCUIT
6	2 #6 Ø 1 #8G 1.5" P	2 AWG SIZE 6 CONDUCTOR (BK & RD) 1 AWG SIZE 8 GROUNDING CONDUCTOR 1.5" PVC CONDUIT	2 - 6 W/G FEEDER CIRCUIT IN 1.5" CONDUIT
*6	2 #6 Ø 1 #10G	2 AWG SIZE 6 CONDUCTOR (BK & RD) 1 AWG SIZE 8 GROUNDING CONDUCTOR	2 - 6 W/G FEEDER CIRCUIT
4	2 #4 Ø 1 #6G 1.5" P	2 AWG SIZE 4 CONDUCTOR (BK & RD) 1 AWG SIZE 6 GROUNDING CONDUCTOR 1.5" PVC CONDUIT	2 - 4 W/G FEEDER CIRCUIT IN 1.5" CONDUIT
*4	2 #4 Ø 1 #6G	2 AWG SIZE 4 CONDUCTOR (BK & RD) 1 AWG SIZE 6 GROUNDING CONDUCTOR	2 - 4 W/G FEEDER CIRCUIT
2	2 #2 Ø 1 #4G 1.5" P	2 AWG SIZE 2 CONDUCTOR (BK & RD) 1 AWG SIZE 4 GROUNDING CONDUCTOR 1.5" PVC CONDUIT	2 - 2 W/G FEEDER CIRCUIT IN 1.5" CONDUIT
*2	2 #2 Ø 1 #4G	2 AWG SIZE 2 CONDUCTOR (BK & RD) 1 AWG SIZE 4 GROUNDING CONDUCTOR	2 - 2 W/G FEEDER CIRCUIT

ABBREVIATIONS

BD	BURIED	PVC	PVC SCHEDULE 40 CONDUIT
LT	LIGHT	RGC	RIGID GALVANIZED STEEL CONDUIT
JA	JACKED	C	CONDUIT
MH	MOUNTING HEIGHT	CKT	CIRCUIT
Ø	PHASE	N	NEUTRAL
SER LAT	SERVICE LATERAL	G	GROUND
IGJB	IN GROUND JUNCTION BOX	HM	HIGH MAST
LED	LIGHT EMITTING DIODE	LSJB	LIGHT STANDARD JUNCTION BOX
HMJB	HIGH MAST JUNCTION BOX	CSJB	CONTROL SYSTEM JUNCTION BOX

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TABLE "C"
 JUNCTION BOX SUMMARY


SHEET	LABEL	LOCATION AND OFFSET	CONTROL SYSTEM "A"											GPS LOCATION 		
			TYPE, PAY ITEM & SIZE											LAT/LONG		
			IN GROUND			LIGHT STANDARD			HIGH MAST			CONTROL SYSTEM	BARRIER RAIL		SIDE WALK	
IG18 18"x12"	IG30 30"x17"	IB36 36"x24"	LS18 18"x12"	LS30 30"x17"	LS36 36"x24"	HM18 18"x12"	HM30 30"x17"	HM36 36"x24"	CS36 36"x24"	BR18 18"x12"	SW18 18"x12"					
E2	JBA1	-RPC- STA. 14+00, 35' RT	X													
E2	JBA2	-RPC- STA. 17+00, 41' RT	X													
E2	JBA3	-RPC- STA. 17+03, 30' LT	X													
E2	JBA4	-RPC- STA. 20+46, 40' LT	X													
E3	JBA5	-Y- STA. 42+58, 94' RT		X												
E2	JBA6	-RPB- STA. 31+06, 50' LT	X													
E2	JBA7	-RPB- STA. 34+08, 50' LT	X													
E2	JBA8	-RPB- STA. 37+07, 61' LT	X													
E3	JBA9	-RPB- STA. 40+05, 71' LT	X													
E3	JBA10	-RPA- STA. 25+90, 45' RT	X													
E3	JBA11	-RPA- STA. 22+96, 37' LT			X											
E3	JBA12	-L- STA. 65+76, 76' LT			X											
E3	JBA13	-L- STA. 65+76, 5' RT			X											
E3	JBA14	-L- STA. 69+23, 5' RT	X													
E3	JBA15	-L- STA. 72+28, 5' RT	X													
E3	JBA16	-L- STA. 65+76, 88' RT			X											
E3	JBA17	-Y- STA. 42+58, 85' LT	X													
E3	JBA18	-RPD- STA. 20+31, 32' RT	X													
E3	JBA19	-RPD- STA. 20+31, 38' LT	X													
E3	JBA20	-RPD- STA. 23+44, 43' LT	X													
E3	JBA21	-Y- STS. 49+50, 71' RT	X													
E2	A-1-1JB	5' FROM SINGLE ARM A-1-1				X										
E2	A-2-1JB	5' FROM SINGLE ARM A-2-1				X										
E2	A-3-1JB	5' FROM SINGLE ARM A-3-1				X										
E2	A-4-1JB	5' FROM SINGLE ARM A-4-1				X										
E2	A-5-2JB	5' FROM SINGLE ARM A-5-2				X										
E2	A-6-2JB	5' FROM SINGLE ARM A-6-2				X										
E2	A-7-2JB	5' FROM SINGLE ARM A-7-2				X										
E2	A-8-2JB	5' FROM SINGLE ARM A-8-2				X										
E3	A-9-1JB	5' FROM SINGLE ARM A-9-1				X										
E3	A-10-1JB	5' FROM SINGLE ARM A-10-1				X										
E3	A-11-1JB	5' FROM SINGLE ARM A-11-1				X										
E3	A-12-1JB	5' FROM SINGLE ARM A-12-1				X										
E3	A-13-5JB	5' FROM TWIN ARM A-13-5				X										
E3	A-14-5JB	5' FROM TWIN ARM A-14-5				X										
E3	A-15-5JB	5' FROM TWIN ARM A-15-5				X										
E3	A-16-4JB	5' FROM SINGLE ARM A-16-4				X										
E3	A-17-4JB	5' FROM SINGLE ARM A-17-4				X										
E3	A-18-4JB	5' FROM SINGLE ARM A-18-4				X										
E3	JBA22	-L- STA. 62+11, 85' LT	X													
CSA TOTALS																

TABLE "C" CONTINUED ON NEXT PAGE

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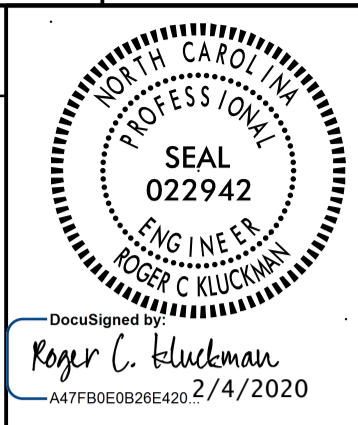


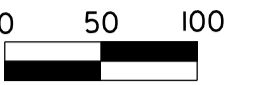


TABLE "B"
 ELECTRICAL DUCT SUMMARY
 (ESTIMATED LENGTH IN FEET)

LOCATION	RACEWAY 	SHEET	TYPE													
			JACKED (JA) FEET				BURIED (BD) FEET									
			SIZE 2"	SIZE 3"	SIZE 4"	SIZE 6"	SIZE 2"	SIZE 3"	SIZE 4"	SIZE 6"						
-RPC- STA. 17+01				50												
-L- STA. 51+90				150												
-Y- STA. 42.57	JBA5-JBA17				145			180								
-Y- STA. 33+26				125												
-RPA- STA. 22+94	JBA11-CSA				55			100								
-L- STA. 65+77	JBA12-JBA13				55			85								
-L- STA. 65+77	JBA13-JBA16				55			85								
-RPD- STA. 20+31				45												
-Y- STA. 49+50				125												
CSA TOTALS				495	310			450								

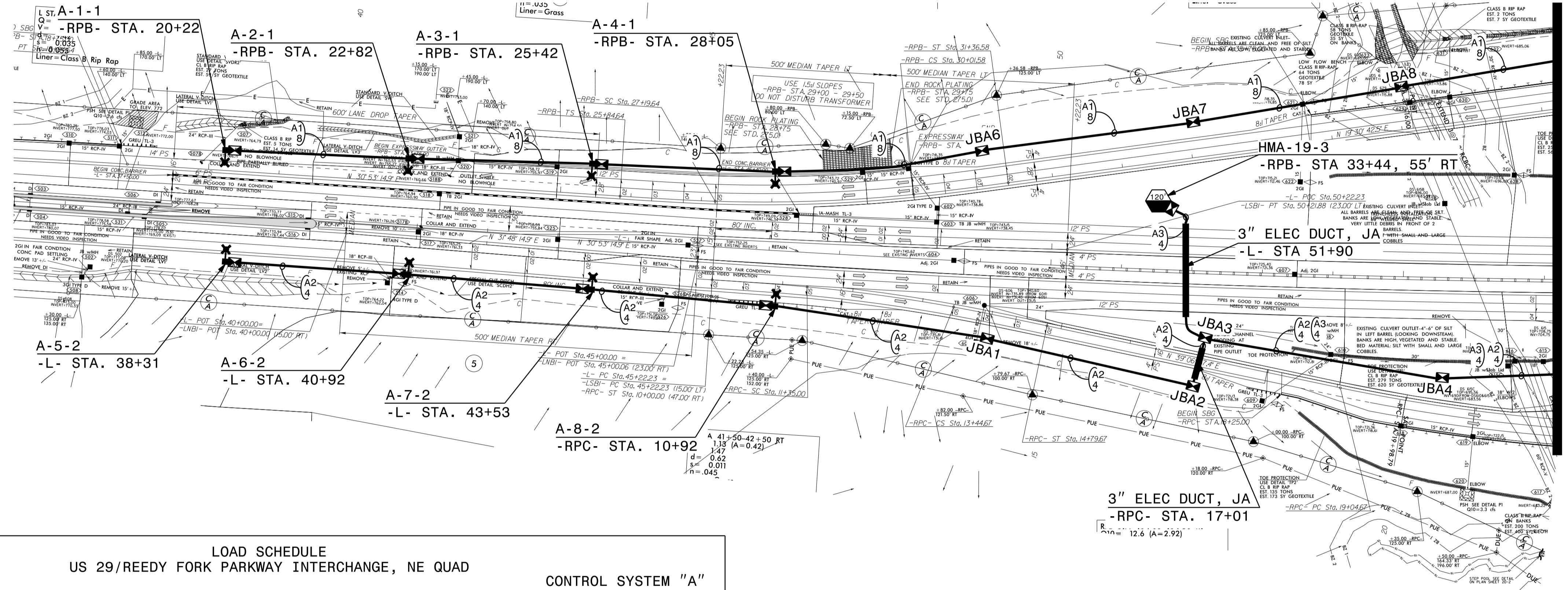
SEE SHEET "E1" FOR
 LEGEND &  NOTES

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DocuSigned by:
Roger C. Kluckman
A17FB00028E420, 2/4/2020

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MATCHLINE -L- STA. 57+18
SEE SHEET E3

LOAD SCHEDULE US 29/REEDY FORK PARKWAY INTERCHANGE, NE QUAD CONTROL SYSTEM "A"							
CIRCUIT ID	SINGLE ARM 1 @ 185W MAX. LED LUMINAIRES	TWIN ARM 2 @ 185W MAX. LED LUMINAIRES	120' HIGH MAST W/ 8 550W MAX. LED LUMINAIRES	UNDERPASS TYPE WM 1 @ 50W LED	AMPS @ 480V	KW LOAD	BREAKER SIZE (AMPS)
A1	A-1 TO A-4 A-9 TO A-12				3.2	1.5	15
A2	A-5 TO A-8		HMA-20	4 @ UPL-1	11.4	5.5	15
A3			HMA-19		9.3	4.5	15
A4	A-16 TO A-18		HMA-22		10.5	5.0	15
A5		A-13 TO A-15	HM-21	4 @ UPL-2	12.2	5.9	20
SPARE							20
TOTAL	15	3	4	8	46.6	22.4	

SEE SHEET "E1" FOR
LEGEND & △ NOTES

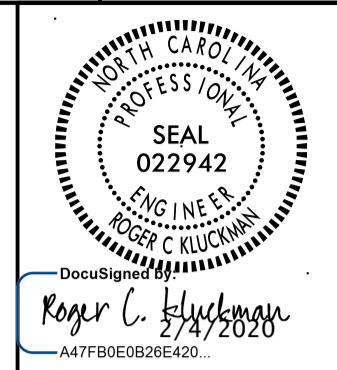
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PROJECT REFERENCE NO. R-4707 SHEET NO. E3

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Notes: 2) Stream is Not Subject To Buffer Requirements

3" ELEC DUCT, JA
-Y- STA. 33+43

A-10-1
-Y- STA. 33+43

A-9-1
-SPB- STA. 43+77

MATCHLINE - L- STA. 57+18
SEE SHEET E2

HMA-20-2
RPC- STA 23+89, 99' LT

2" ELEC DUCT, BD
-Y- STA. 42+57

A-18-4
-YEB- STA. 48+09

3" ELEC DUCT, JA
-Y- STA. 49+50

A-11-1
-Y- STA. 32+95

A-12-1
-YWB- STA. 35+48

HMA-21-5
-L- STA. 63+26, 109' RT

2" ELEC DUCT, BD
-L- STA. 65+77

4" ELEC DUCT, JA
-Y- STA. 42+57

A-16-4
-YWB- STA. 47+23

A-17-4
-Y- STA. 49+36

CONTROL SYSTEM "A"
-RPA- STA. 22+94

4" ELEC DUCT, JA
-RPA- STA. 22+94

2" ELEC DUCT, BD
-RPA- STA. 22+94

4" ELEC DUCT, JA
-L- STA. 65+77

2" ELEC DUCT, BD
-L- STA. 65+77

4" ELEC DUCT, JA
-L- STA. 65+77

3" ELEC DUCT, JA
-RPD- STA. 20+31

HMA-22-4
-RPD- STA. 17+48

A-13-5
-L- STA. 74+87

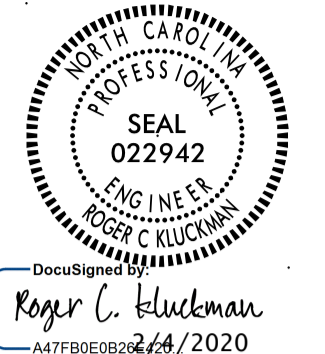
A-14-5
-L- STA. 77+48

A-15-5
-L- STA. 80+08

SEE SHEET "E1" FOR
LEGEND & △ NOTES

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Rev.	Date	Description	Approved
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN LIGHTING/ELECTRICAL SECTION			
LIGHTING LAYOUT US 29/REEDY FORK PARKWAY INTERCHANGE			
GUILFORD COUNTY			
Drawn By:	SAM	Approved By:	RGH
Dwg No.:			

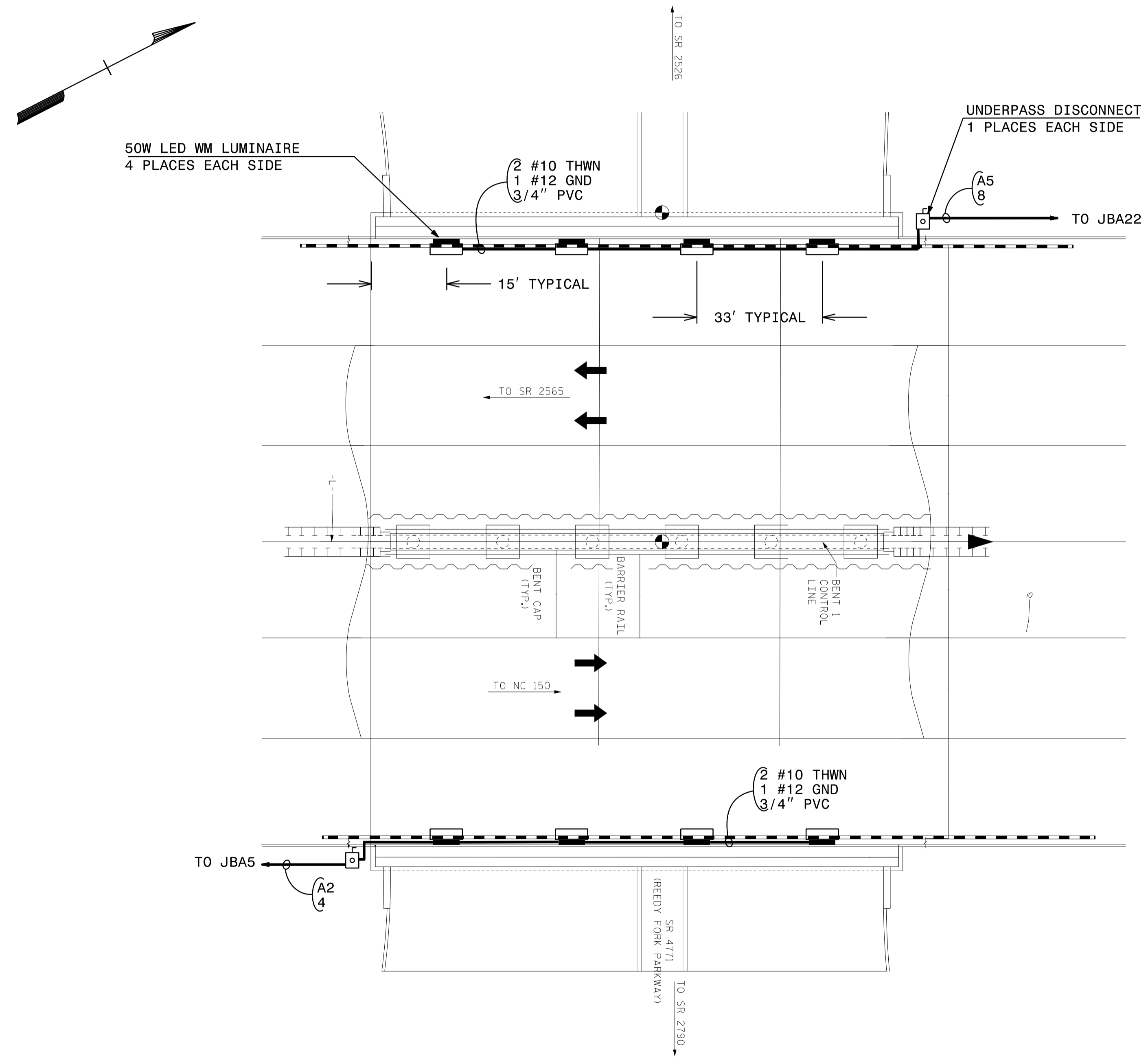
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UNDERPASS LIGHTING LAYOUT
REEDY FORK PARKWAY BRIDGE OVER US 29
 (UPL-1 & UPL-2)

SEE SHEET "E1" FOR
 LEGEND & △ NOTES

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Rev.	Date	Description	Approved

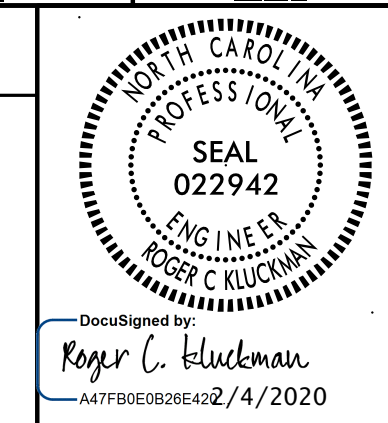
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 DEPARTMENT OF TRANSPORTATION**
 ROADWAY DESIGN LIGHTING/ELECTRICAL SECTION

LIGHTING LAYOUT
 US 29/REEDY FORK PARKWAY
 INTERCHANGE

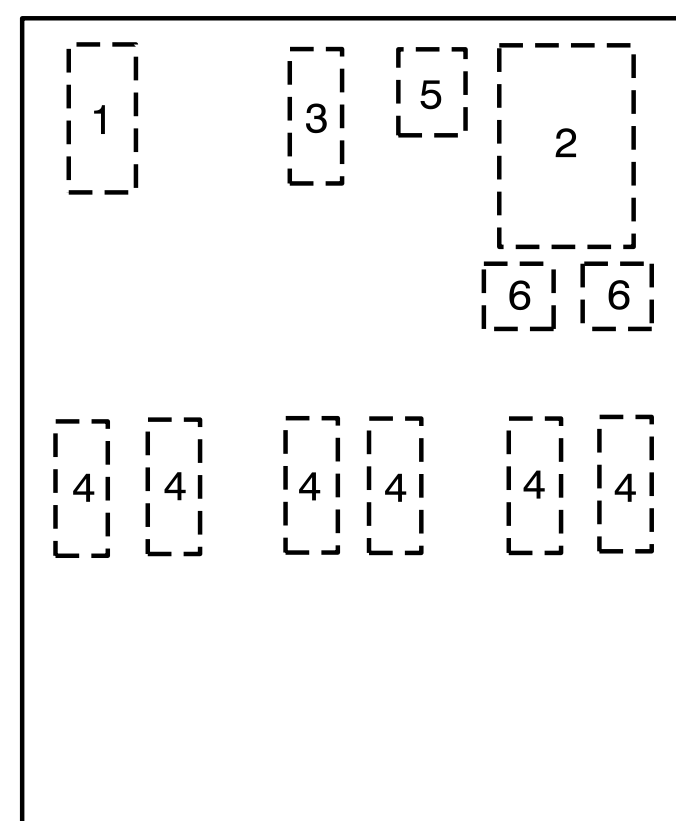
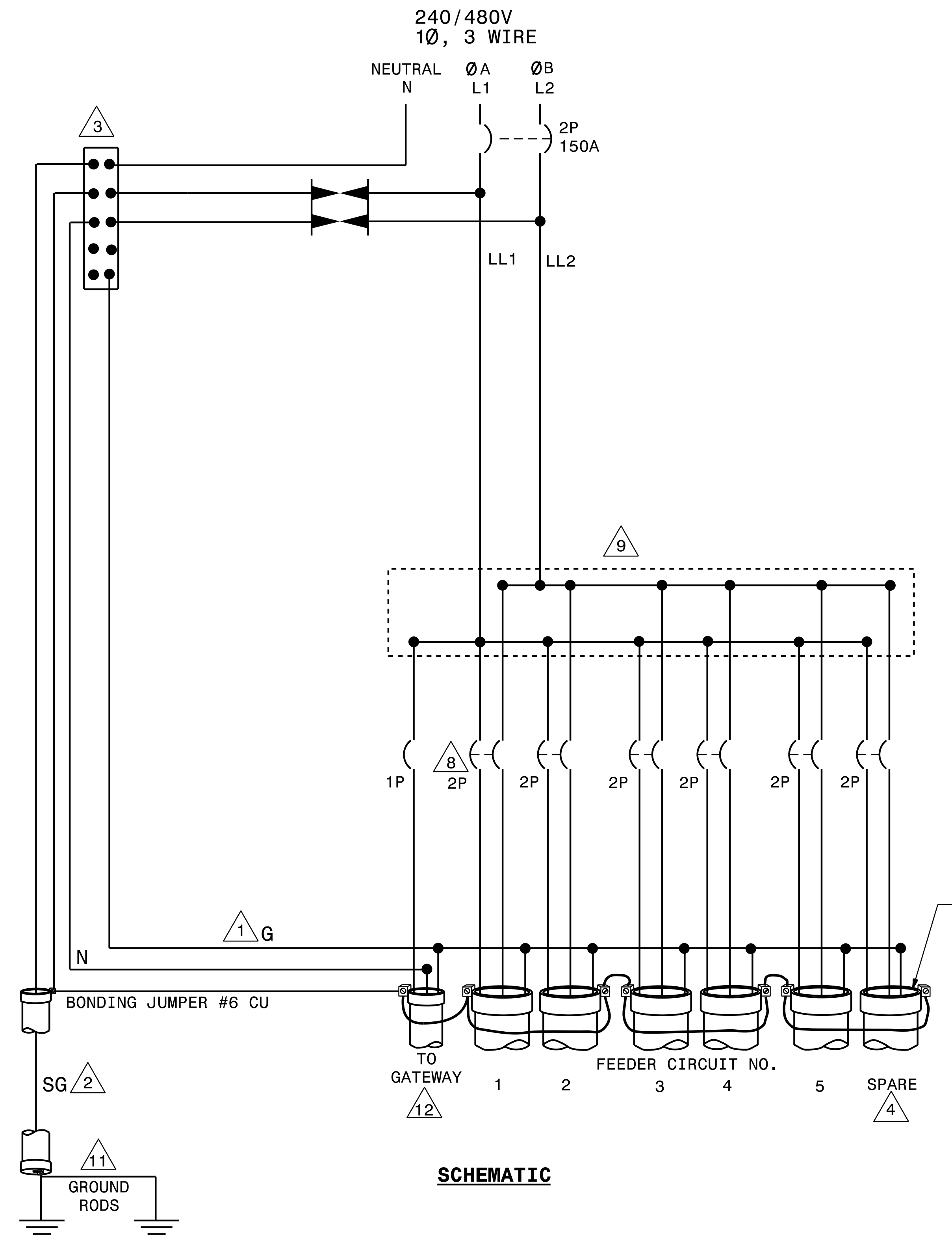
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INTERIOR PANEL COMPONENT LAYOUT
 6 7 10

- NOTES**
- 1 EQUIPMENT GROUNDS (G) SHALL BE SIZED ACCORDING TO CIRCUIT DESCRIPTION. SEE PLANS.
 - 2 SYSTEM GROUND (SG) SHALL BE CONTINUOUS FROM THE NEUTRAL BAR TO THE GROUNDING ELECTRODE (GROUND ROD).
 - 3 THE NEUTRAL BAR SHALL BE BONDED TO THE PANEL.
 - 4 INSTALL 6 FEEDER CIRCUIT CONDUITS AS SHOWN. UNUSED CONDUIT SHALL BE CAPPED IN THE CONTROL SYSTEM JUNCTION BOX.
 - 5 INSTALL A GROUNDING BUSHING ON EACH METAL CONDUIT. CONNECT BONDING JUMPER AS REQUIRED BY NEC.
 - 6 SEE STANDARD DRAWING 1408.01 SHEET 3 OF 3 FOR ENCLOSURE.
 - 7 THE CONTROL SYSTEM MUST BE LABELED "SUITABLE FOR USE AS SERVICE EQUIPMENT." REFER TO STANDARD SPECIFICATION 1408-2 FOR OTHER REQUIREMENTS.
 - 8 SEE PLANS FOR LIGHTING CIRCUIT BREAKER SIZES.
 - 9 PROVIDE MULTI-TAP LOAD LUGS OR POWER DISTRIBUTION BLOCKS.
 - 10 PROVIDE MANUFACTURER SUPPLIED MOUNTING BRACKETS OR SCREW STUDS PERMANENTLY ATTACHED TO THE BACK PANEL, FOR MOUNTING COMPONENTS.
 - 11 PROVIDE AND INSTALL A CONDUIT CHOKE ON THE UNDERGROUND END OF THE 3/4" RGS SYSTEM GROUND CONDUIT.
 - 12 INSTALL #12 THWN CONDUCTOR FROM ENCLOSURE TO GATEWAY.

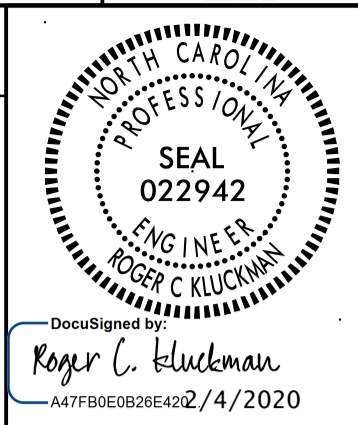
COMPONENT LIST			
#	QTY	DESCRIPTION	SPECIFICATIONS
1	1	NEUTRAL BAR	
2	1	SERVICE CIRCUIT BREAKER	2P, 480V, 150A
3	1	GATEWAY CIRCUIT BREAKER	1P, 240V, 15A
4	**	FEEDER CIRCUIT BREAKERS	2P, 480V, 50A MAX
5	1	TYPE 1 SURGE PROTECTION DEVICE	20,000A RATED
6	2	POWER DISTRIBUTION LUGS OR BLOCKS	
		MOUNTING BRACKETS OR SCREW STUDS	

**PROVIDE THE NUMBER OF BREAKERS SHOWN IN THE LOAD SCHEDULE ON THE PLANS. INCLUDE SPARE BREAKER AS WELL.

2			
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Rev.	Date	Description	Approved
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN LIGHTING/ELECTRICAL SECTION CONTROL SYSTEM DETAILS 1408D01, SHEET 1 CONTROL SYSTEM SCHEMATIC GUILFORD COUNTY			
Drawn By:	SAM	Approved By:	RGH
		Dwg No.:	

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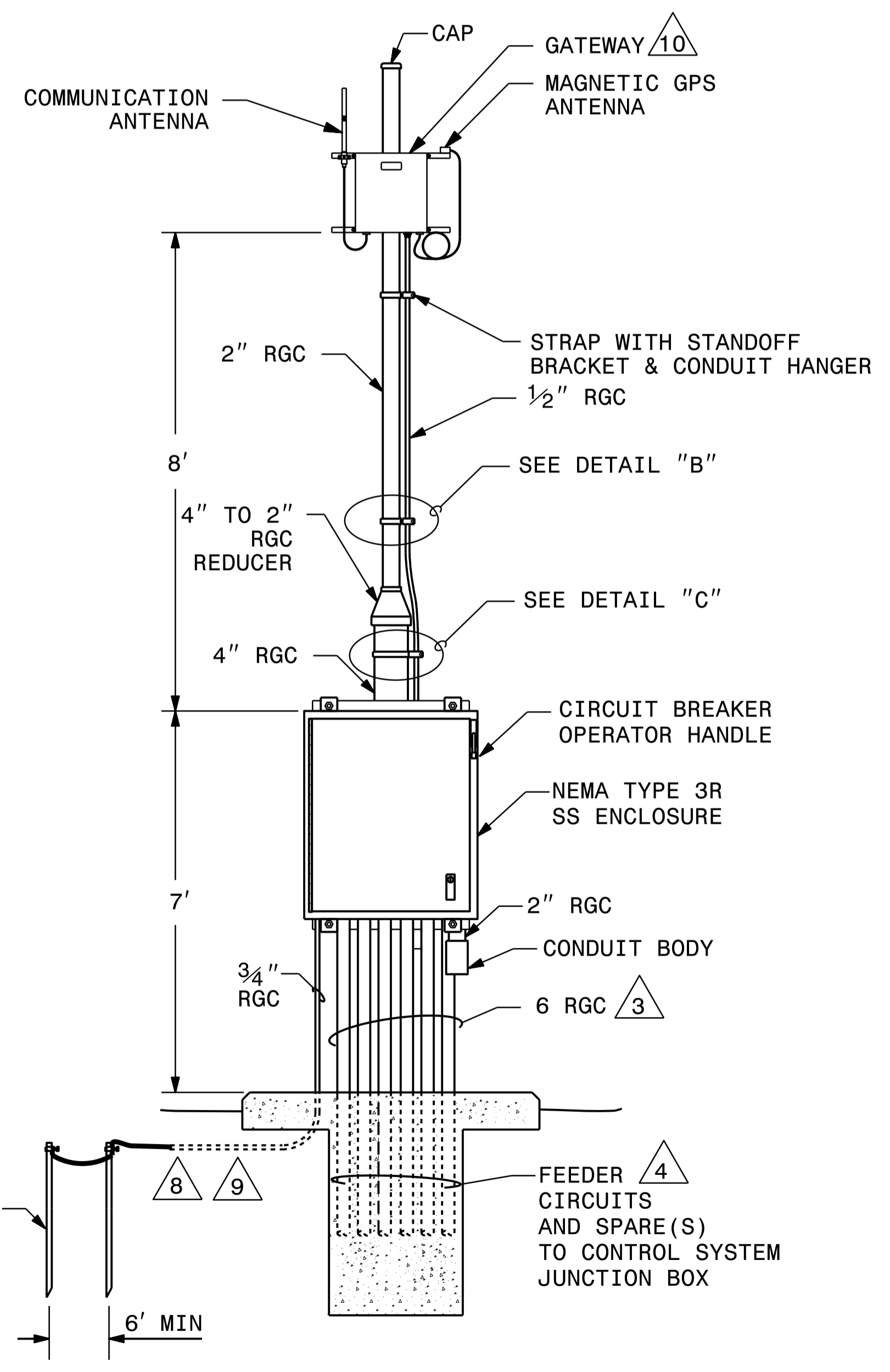
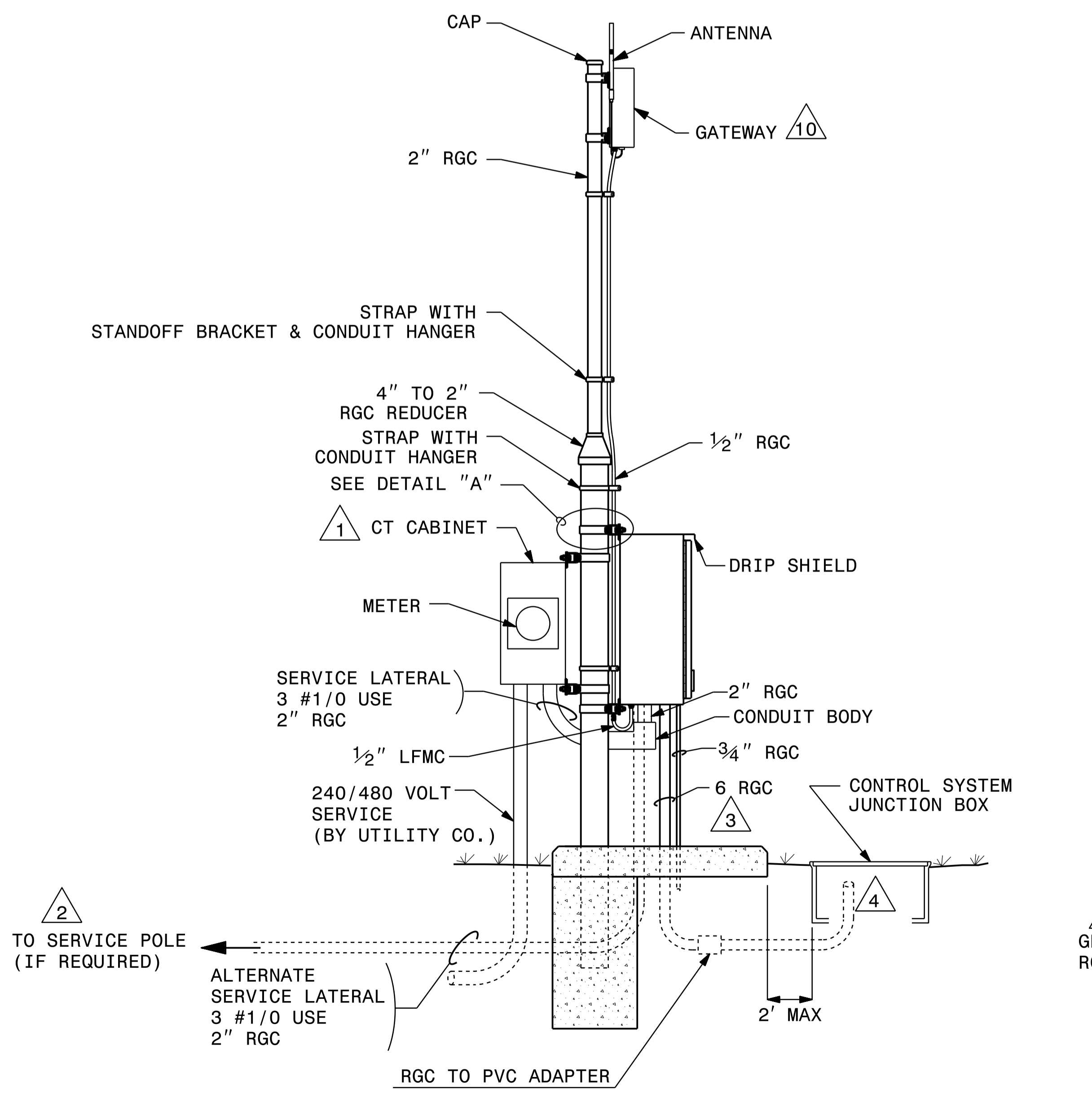
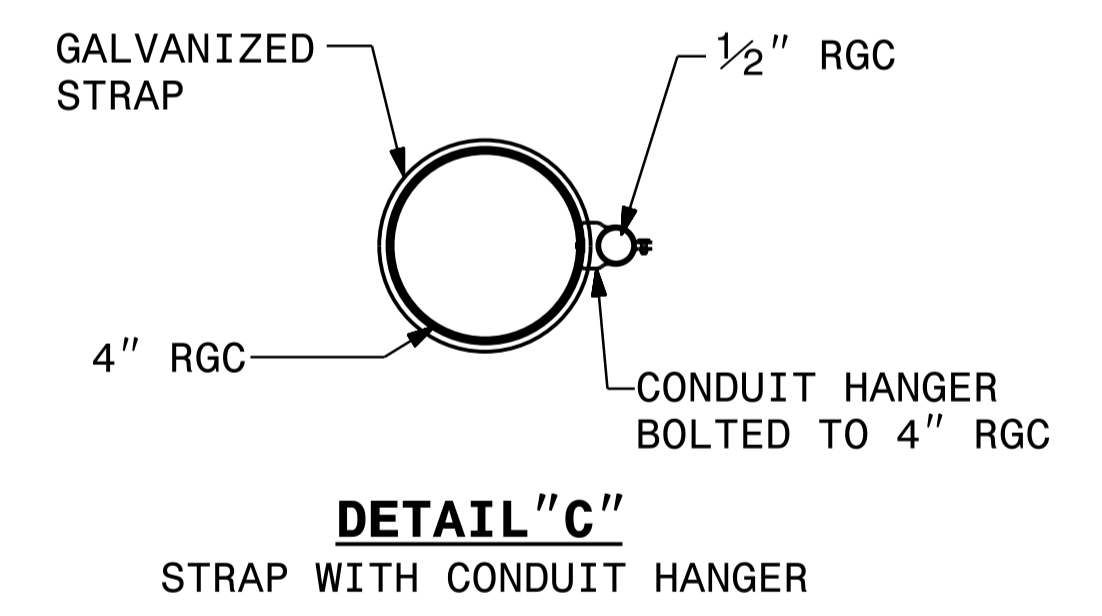
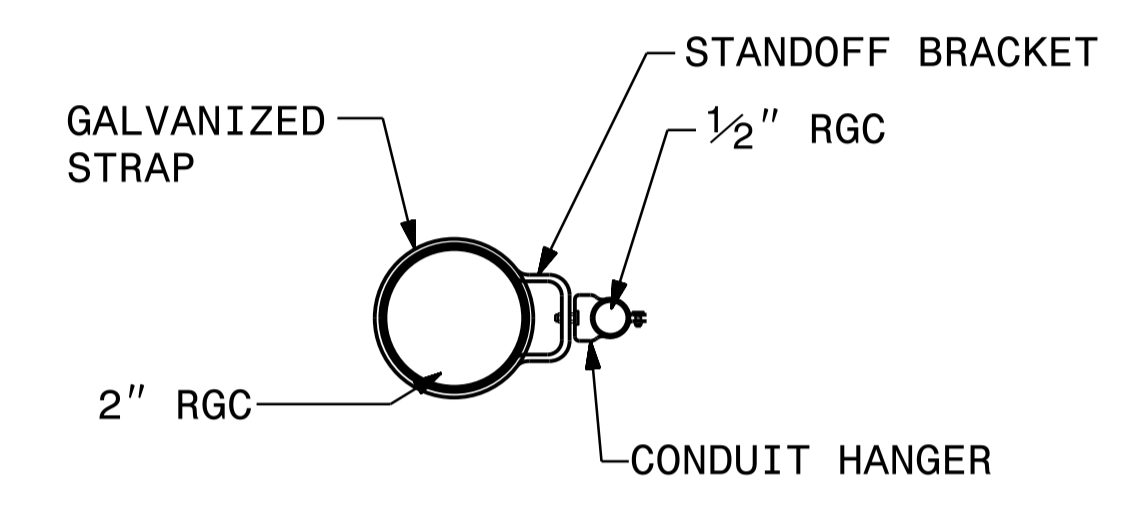
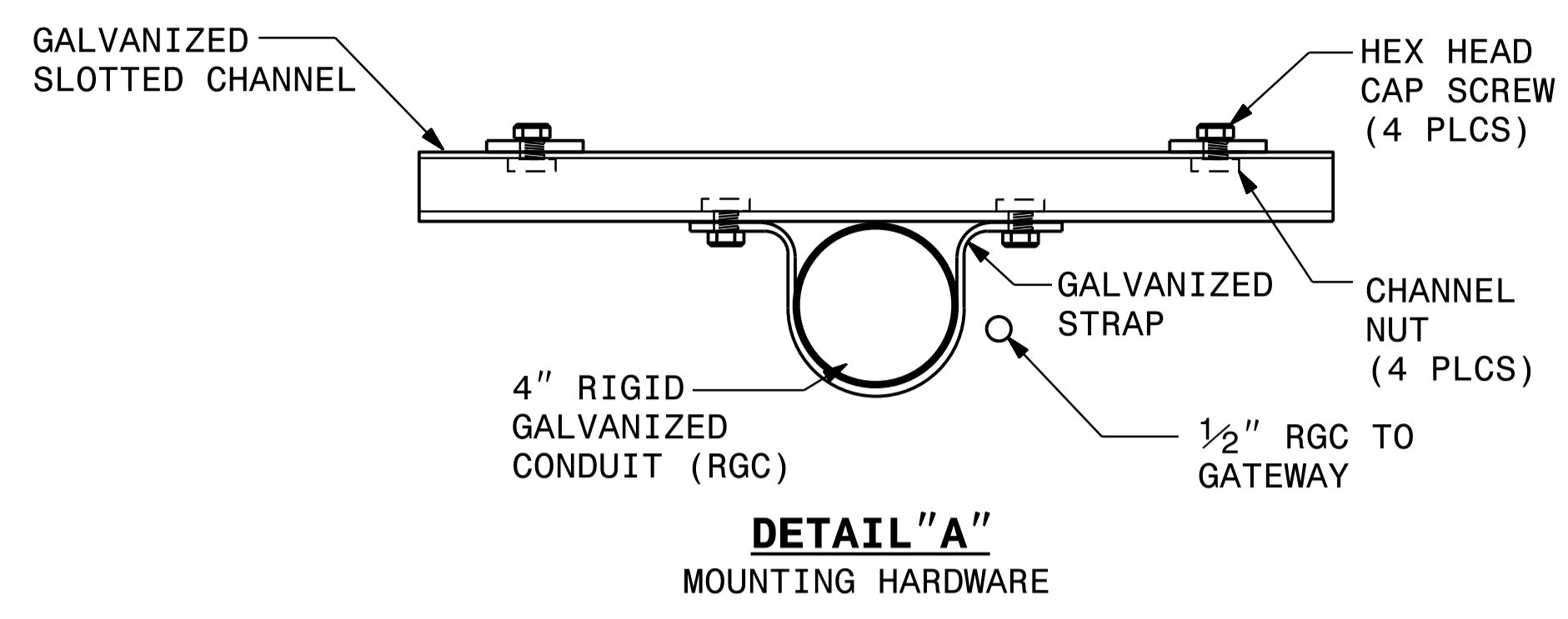
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NOTES

- 1 CURRENT TRANSFORMER (CT) CABINET AND METER MAY BE MOUNTED ON SERVICE POLE OR BACK OF CONTROL ENCLOSURE.
- 2 SEE SECTION 1407 OF THE STANDARD SPECIFICATIONS FOR SERVICE POLE AND SERVICE LATERAL.
- 3 SEE PLANS FOR SIZE OF CONDUITS AND/OR ELECTRICAL DUCT.
- 4 STUB FEEDER CIRCUIT CONDUITS INTO JUNCTION BOX. CAP UNUSED CONDUITS. FEEDER CIRCUITS MUST BE MINIMUM 30" BELOW GRADE
- 5 SEE SECTION 1411 OF THE STANDARD SPECIFICATIONS FOR JUNCTION BOX INSTALLATION.
- 6 ALL ABOVE GROUND CIRCUITRY TO BE INSTALLED IN RIGID GALVANIZED CONDUIT. UNDERGROUND FEEDER CIRCUITS TO BE INSTALLED IN SCH 40 PVC CONDUIT.
- 7 TOP OF GROUND ROD(S) SHALL BE NO MORE THAN FOUR INCHES BELOW GRADE TO ALLOW FOR EASE OF INSPECTION BY DEPARTMENT OF INSURANCE, OFFICE OF STATE FIRE MARSHAL PERSONNEL.
- 8 INSTALL A CONDUIT GROUND CHOKE AND BOND THE EQUIPMENT GROUNDING CONDUCTOR TO THE END OF THE 3/4" CONDUIT UNDERGROUND PER NEC ARTICLE 250.64E.
- 9 GROUNDING ELECTRODE CONDUCTOR 3/4" CONDUIT SHALL NOT TERMINATE BELOW THE CONCRETE FOUNDATION PAD.
- 10 STRAP GATEWAY TO 2" RGC USING STEEL BANDS PREINSTALLED ON GATEWAY ENCLOSURE.



Rev.	Date	Description	Approved
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**NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION**
ROADWAY DESIGN LIGHTING/ELECTRICAL SECTION
CONTROL SYSTEM DETAILS

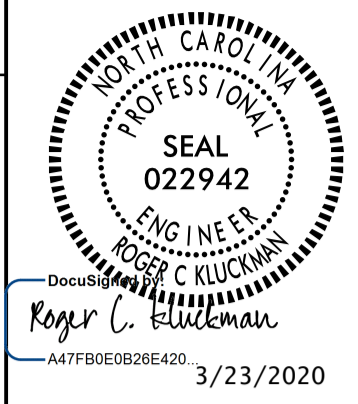
1408D01, SHEET 2
CONTROL SYSTEM ASSEMBLY

GUILFORD COUNTY

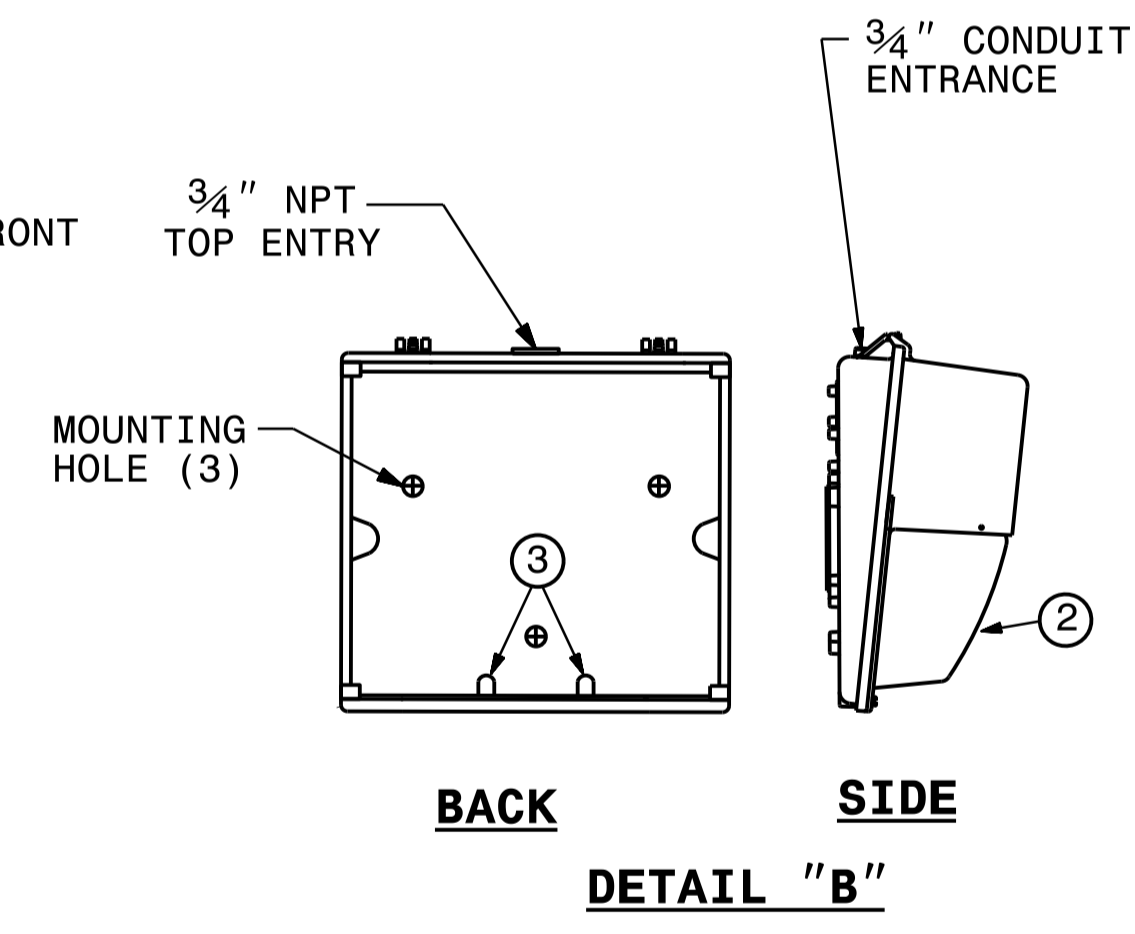
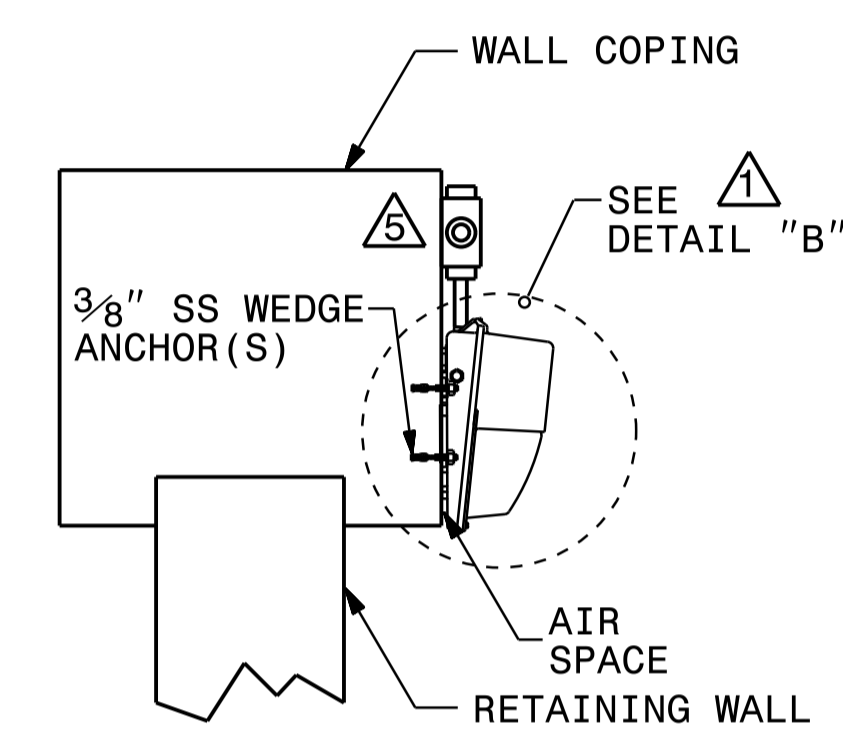
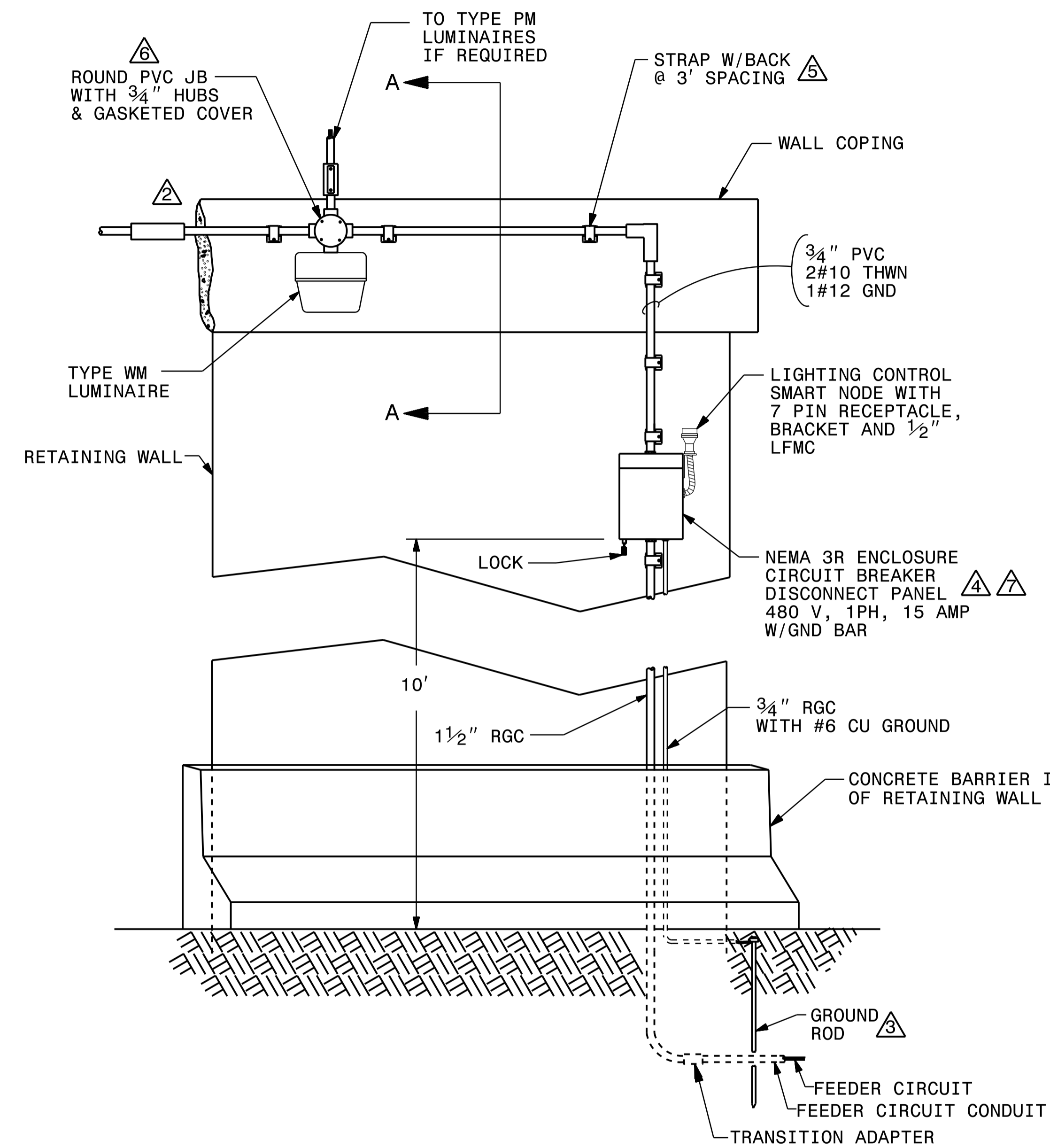
Drawn By: SAM	Approved By: RGH	Dwg No.:
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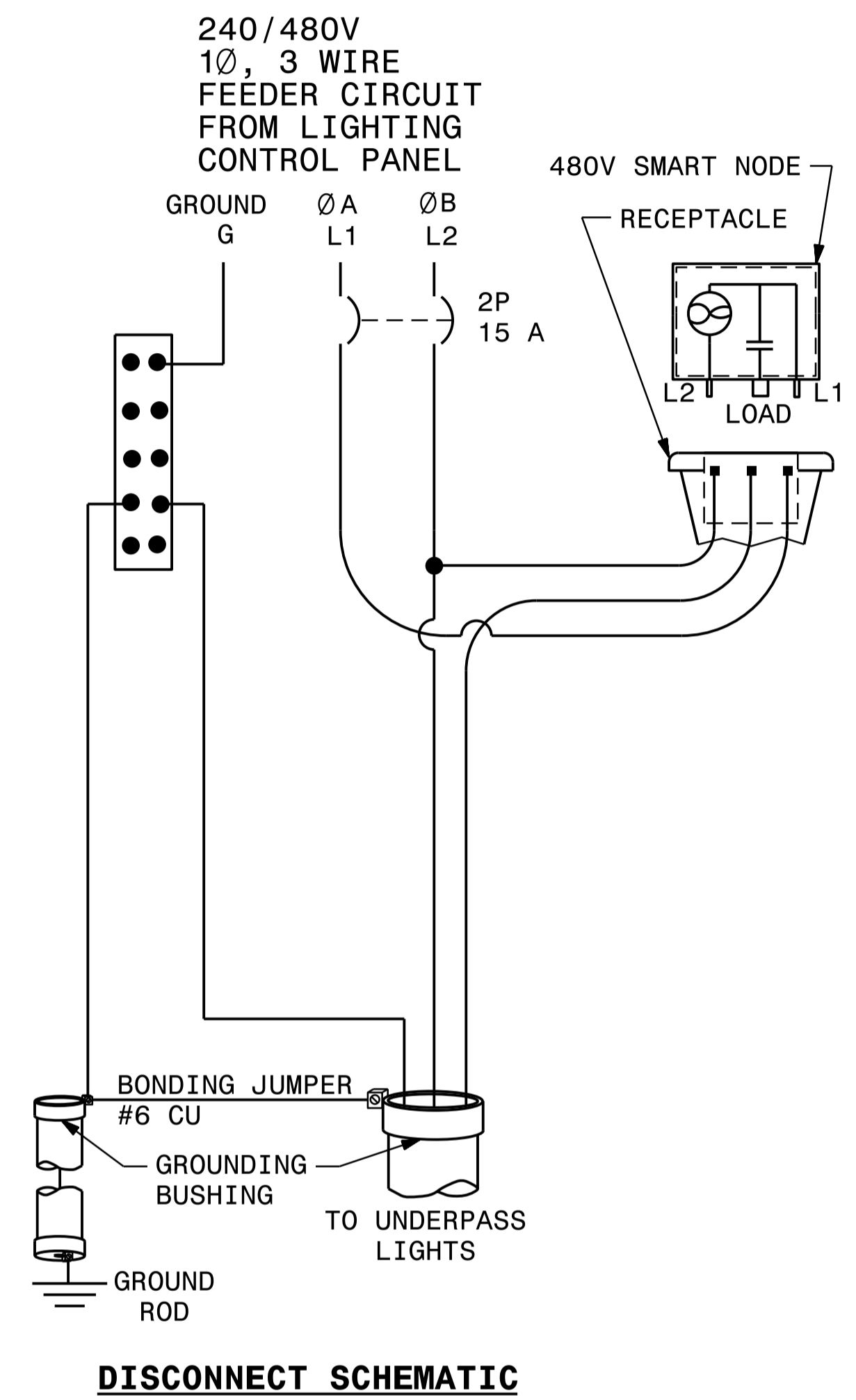
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



USE FOR LIGHTING CONSTRUCTION ONLY



- COMPONENTS**
- ① DIE CAST ALUMINUM HOUSING, DOOR & HINGE
 - ② PRISMATIC REFRACTOR
 - ③ TWO SCREW LATCH



TYPE WM LED LUMINAIRE AND CIRCUITRY

- NOTES**
- ▲ MOUNT WM LED LUMINAIRE AT VERTICAL CENTER OF BENT CAP.
 - ▲ PROVIDE EXPANSION FITTINGS IN EACH SECTION OF CONDUIT THAT IS GREATER THAN 20' LONG BETWEEN TERMINALS AT JUNCTION BOXES ON PIER CAP.
 - ▲ EXTEND AWAY FROM WALL TO AVOID CONFLICT WITH FOOTING.
 - ▲ INSTALL INSULATED GROUNDING BUSHING FOR INCOMING FEEDER CIRCUIT IN RGS CONDUIT.
 - ▲ ATTACH CONDUIT AND HUBS TO FACE OF BENT CAP USING 1/4" SS WEDGE ANCHORS.
 - ▲ CAP ANY UNUSED PORTS FROM ROUND GASKETED HUB.
 - ▲ MOUNT DISCONNECT WITHIN 18" OF WALL CORNER.

2			
1			
Rev.	Date	Description	Approved
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN LIGHTING/ELECTRICAL SECTION LIGHTING DETAILS 1412D01, SHEET 1 UNDERPASS LIGHTING INSTALLED ON RETAINING WALL COPING GUILFORD COUNTY			
Drawn By:	SAM	Approved By:	RGH
		Dwg No.:	

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