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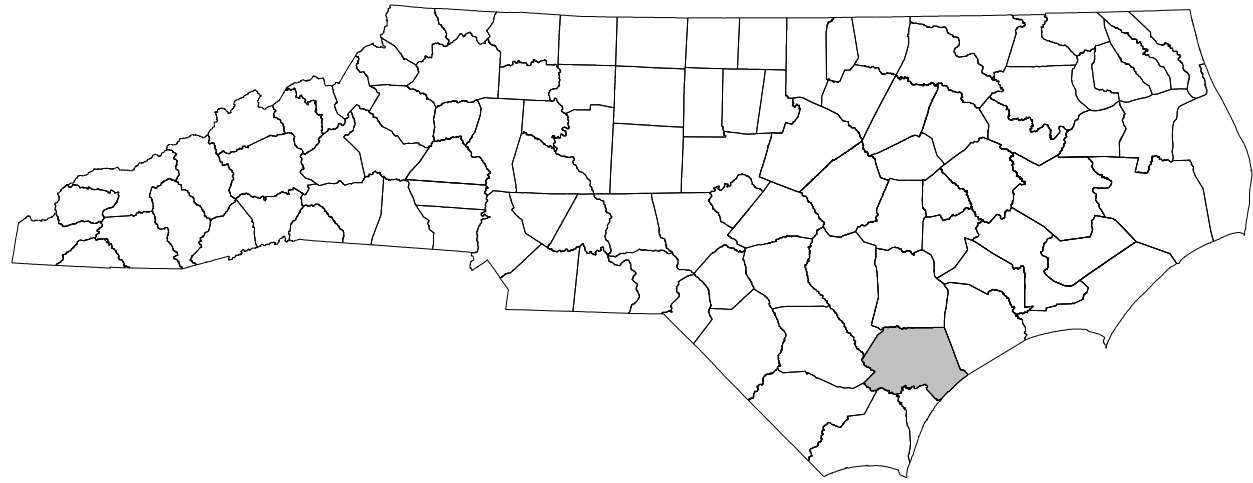
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TIP PROJECT: 15BPR.138.3

CONTRACT: DC00483

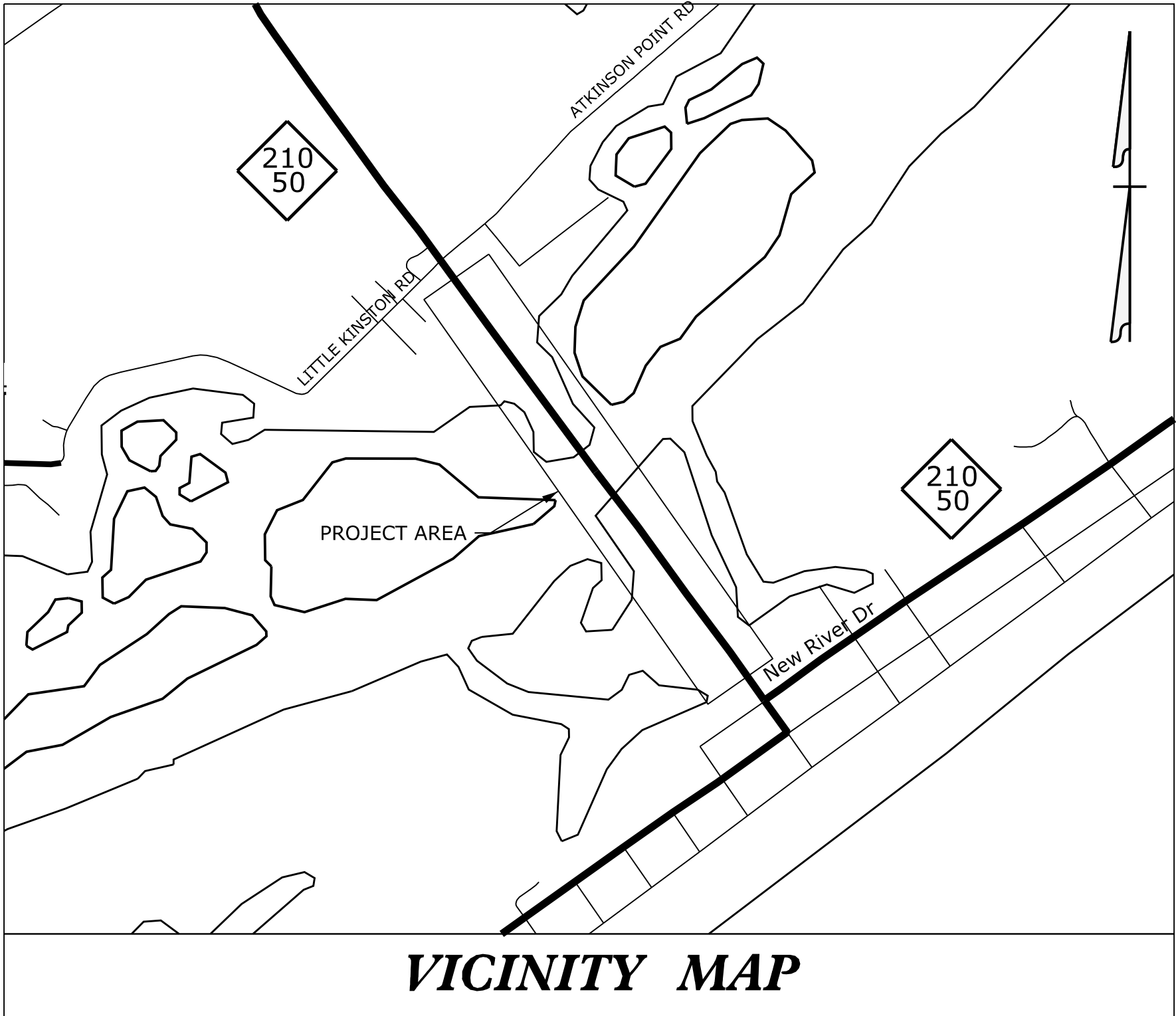
# PEDESTRIAN LIGHTING AND TRANSPORTATION MANAGEMENT PLAN

## PENDER COUNTY



LOCATION: NC 210 (SURF CITY BRIDGE) FROM S NEW RIVER DR/S TOPSAIL DR  
TO ATKINSON POINT RD/LITTLE KINSTON RD

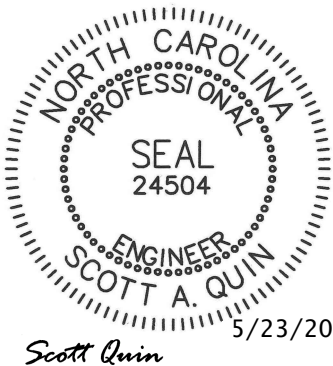
TYPE OF WORK: REMOVAL AND REPLACEMENT OF EXISTING  
PEDESTRIAN LIGHTING SYSTEM ON BRIDGE 700016  
AND ASSOCIATED PEDESTRIAN AND TRAFFIC  
MANAGEMENT



### INDEX OF SHEETS

SHEET NO.	TITLE
T-1	TITLE SHEET, VICINTY MAP, AND INDEX OF SHEETS
E-1	EXISTING CONDITIONS
E-2	CONTROL SYSTEM CHANGES
E-3	NEW CIRCUITING
E-4	LUMINAIRE CIRCUIT WIRING
E-5	LUMINAIRE REPLACEMENT
E-6	PHASED INSTALLATION
TMP-1	MANAGEMENT STRATEGIES AND GENERAL NOTES
TMP-2	DETAIL 1
TMP-3	DETAIL 2

PROJECT NO. 15BPR.138.3  
PENDER COUNTY  
BRIDGE 700016



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
RALEIGH

REPAIR OF PEDESTRIAN  
LIGHTING SYSTEM

REVISIONS						SHEET NO. T-1
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			TOTAL SHEETS 10
2			4			



HDR Engineering, Inc. of the Carolinas  
555 Fayetteville St., Suite 900 Raleigh, N.C. 27601  
N.C.B.E.L.S. License Number: F-0116

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FLUSH MOUNTED  
FACEPLATE (TYPICAL)

EXISTING CONDITIONS - FACEPLATE  
NOT TO SCALE



EXISTING CONDITIONS - BRIDGE BARRIER RAIL  
NOT TO SCALE



EXISTING CONDITIONS - BACKBOX  
NOT TO SCALE



EXISTING CONDITIONS - CONDUIT  
NOT TO SCALE

DEMOLITION AND BACKBOX REPAIR NOTES:

1. AT EACH LUMINAIRE LOCATION, REMOVE ALL LUMINAIRE COMPONENTS AND WIRING.
2. AFTER ALL LUMINAIRE COMPONENTS AND WIRING ARE REMOVED, REPAIR EACH BACK BOX IN ACCORDANCE TO SPECIFICATION SECTION 1076-7. DO NOT USE BLAST CLEANING METHOD, HOWEVER POWER HAND TOOLS MAY BE USED IF THEIR USE DOES NOT RESULT IN FURTHER DAMAGE TO THE BACK BOXES.
3. AFTER THE BACK BOX HAS BEEN REPAIRED, COAT EACH BACK BOX SURFACE WITH RUST PROTECTIVE COATING IN ACCORDANCE TO SPECIFICATION SECTION 1080-7.
4. AFTER THE PAINT HAS CURED, APPLY SILICONE CAULK AROUND THE PERIMETER OF THE BACK BOX TO SEAL THE SEAM BETWEEN THE BACK BOX AND THE CONCRETE OPENING.

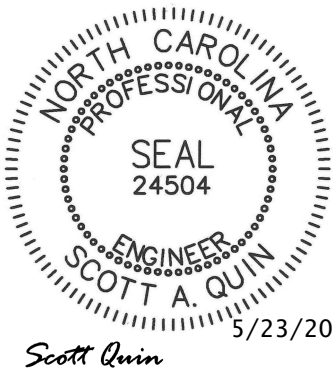
PROJECT NO. 15BPR.138.3  
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DEPARTMENT OF TRANSPORTATION  
RALEIGH

REPAIR OF PEDESTRIAN  
LIGHTING SYSTEM

EXISTING CONDITIONS

REVISIONS						SHEET NO. E-1
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			TOTAL SHEETS 10
2			4			

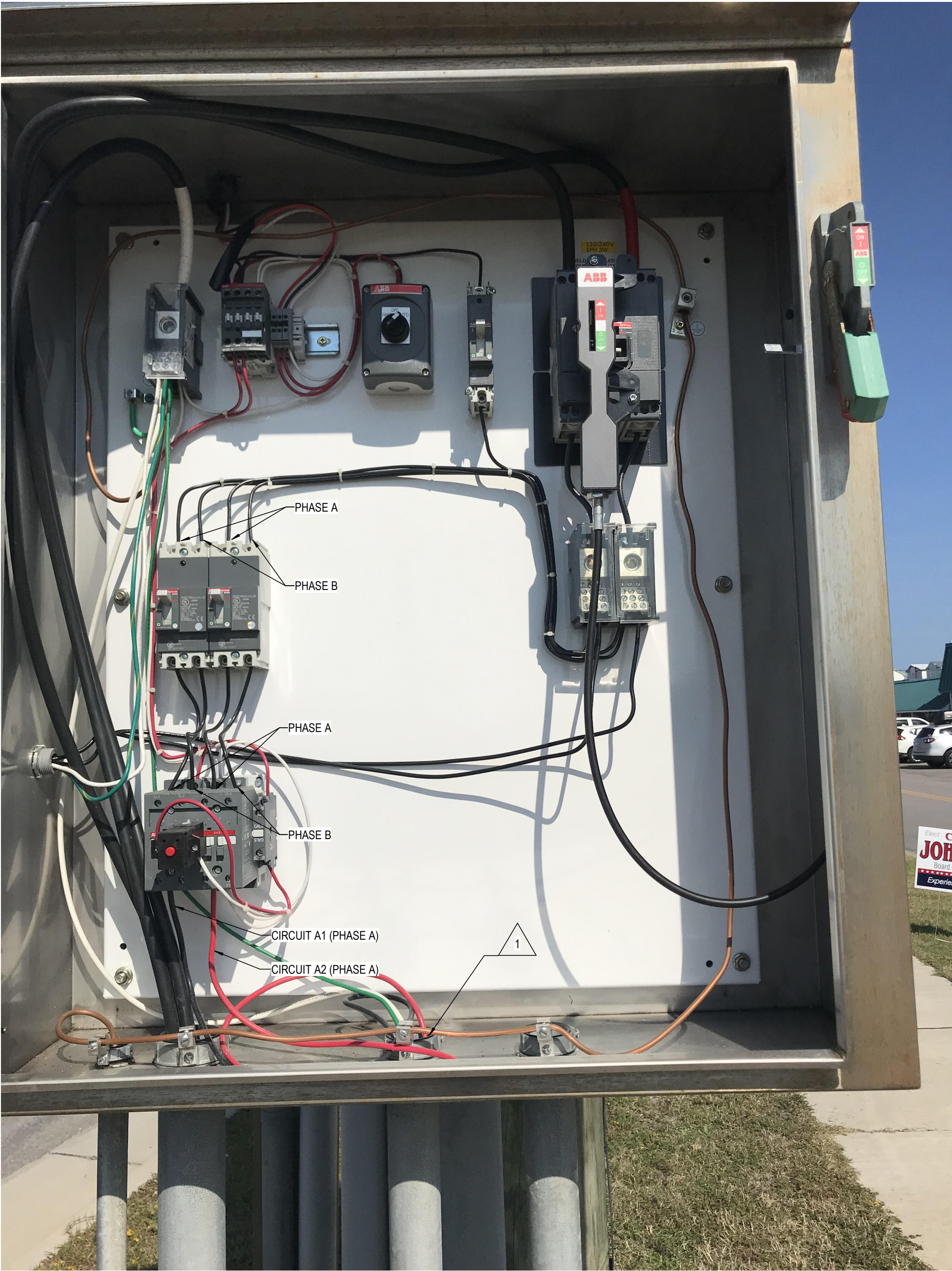


DES BY: M. THEOLOGIDY	DATE : 03/24	DWG BY: M. THEOLOGIDY	DATE : 03/24
DES CHK: S. QUIN	DATE : 03/24	CHK BY: S. QUIN	DATE : 03/24

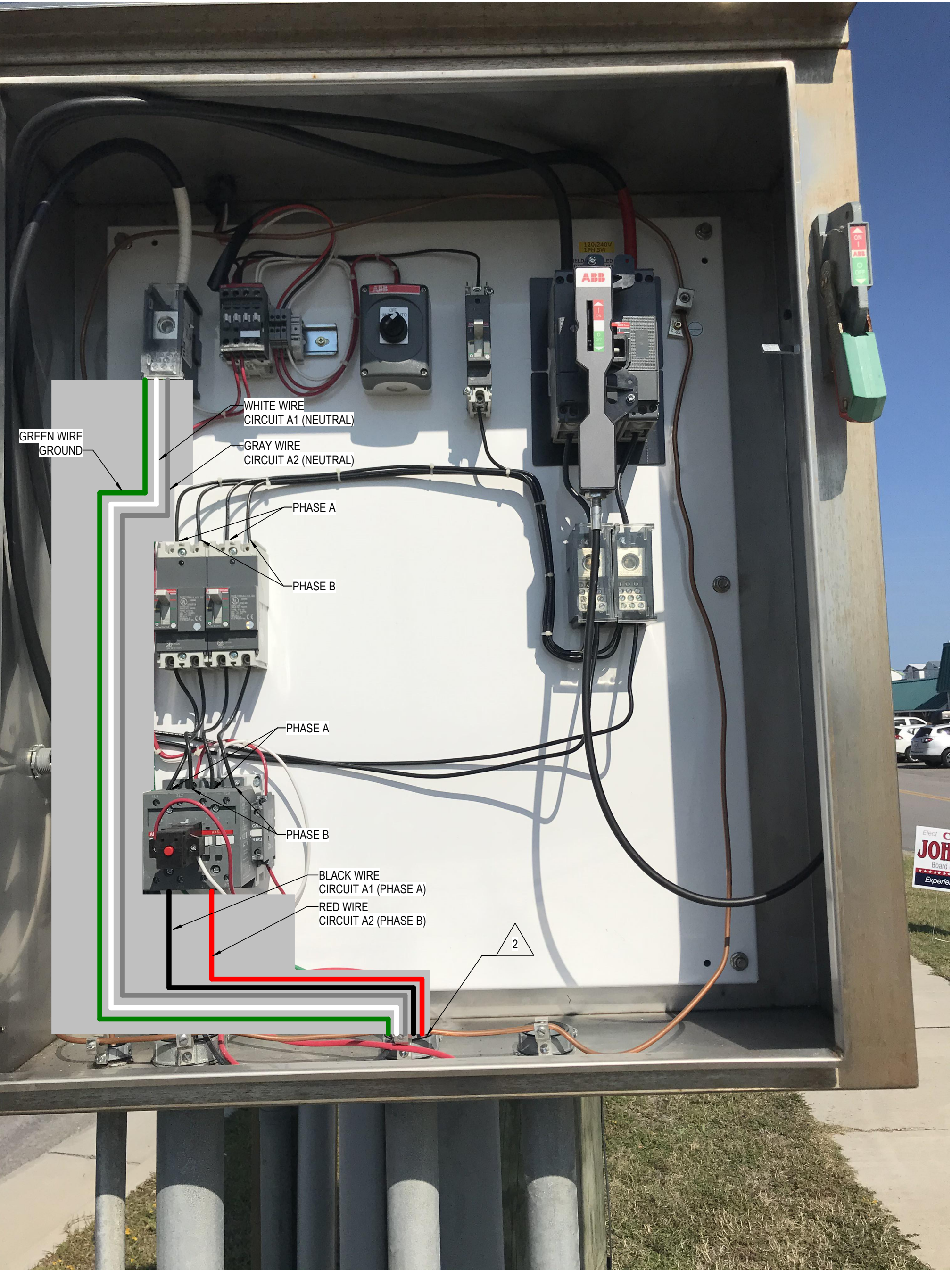


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EXISTING CONDITIONS - CONTROL SYSTEM "A" (TYPICAL)  
NOT TO SCALE



CONTROL SYSTEM "A" (TYPICAL)  
NOT TO SCALE

- NOTES:
- 1 REMOVE EXISTING LIGHTING CIRCUIT WIRING TO THE LUMINAIRES IN THE CONCRETE BARRIER RAIL (2 PHASE WIRES, 1 NEUTRAL WIRE, 1 GROUND WIRE).
  - 2 INSTALL NEW LIGHTING CIRCUIT WIRING TO THE REPLACEMENT LUMINAIRES IN EXISTING CONDUIT. PROVIDE #8 THWN WIRE WITH CONTINUOUSLY COLORED SHEATHING AS NOTED HEREIN:
    - CONTROL SYSTEM "A":
      - CIRCUIT A1: BLACK (PHASE), WHITE (NEUTRAL)
      - CIRCUIT A2: RED (PHASE), GRAY (NEUTRAL)
      - COMMON GROUND FOR A1 AND A2: GREEN
    - CONTROL SYSTEM "B":
      - CIRCUIT B1: BLACK (PHASE), WHITE (NEUTRAL)
      - CIRCUIT B2: RED (PHASE), GRAY (NEUTRAL)
      - COMMON GROUND FOR B1 AND B2: GREEN

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NORTH CAROLINA  
PROFESSIONAL  
SEAL  
24504  
ENGINEER  
SCOTT A. QUIN  
5/23/2025  
Scott A. Quin

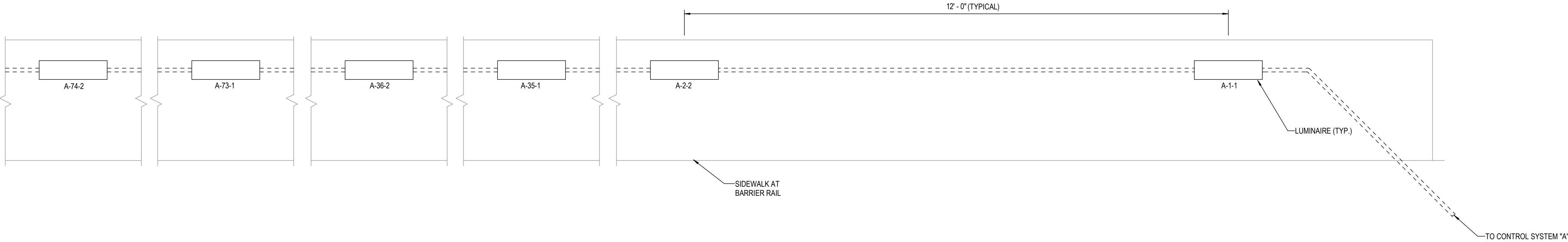
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STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
REPAIR OF PEDESTRIAN LIGHTING SYSTEM					
CONTROL SYSTEM CHANGES					
REVISIONS					
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		
SHEET NO. E-2					TOTAL SHEETS 10



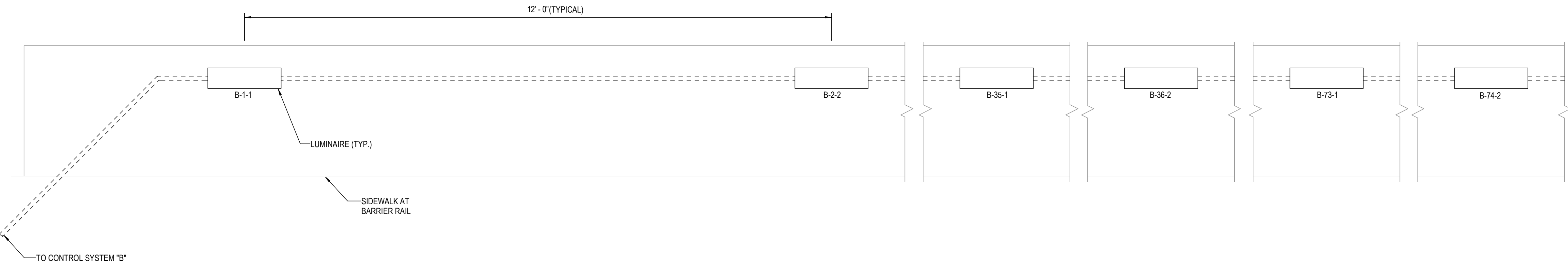
- NOTES:
- 1

SEE SHEET E-5 FOR CIRCUIT WIRING REQUIREMENTS.



LUMINAIRE CIRCUITING (CONTROL SYSTEM "A")

3/4" = 1'-0"



LUMINAIRE CIRCUITING (CONTROL SYSTEM "B")

3/4" = 1'-0"

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PENDER COUNTY  
BRIDGE 700016

STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
RALEIGH

REPAIR OF PEDESTRIAN  
LIGHTING SYSTEM

NEW CIRCUITING

REVISIONS						SHEET NO. E-3
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			TOTAL SHEETS 10
2			4			

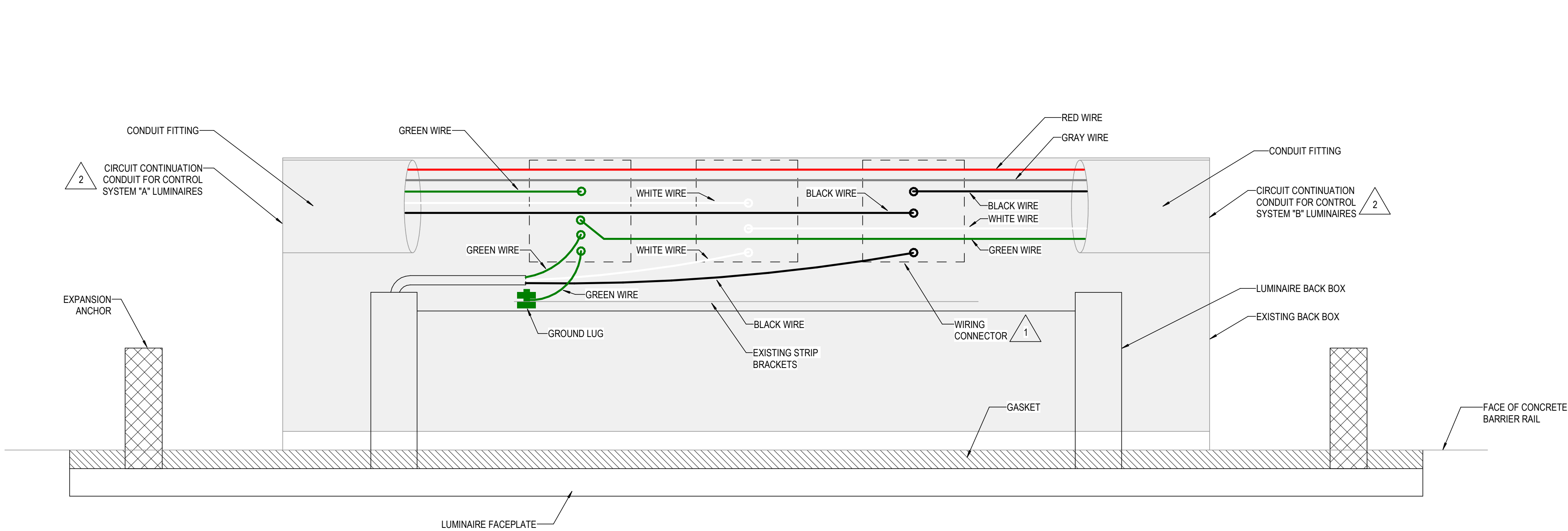


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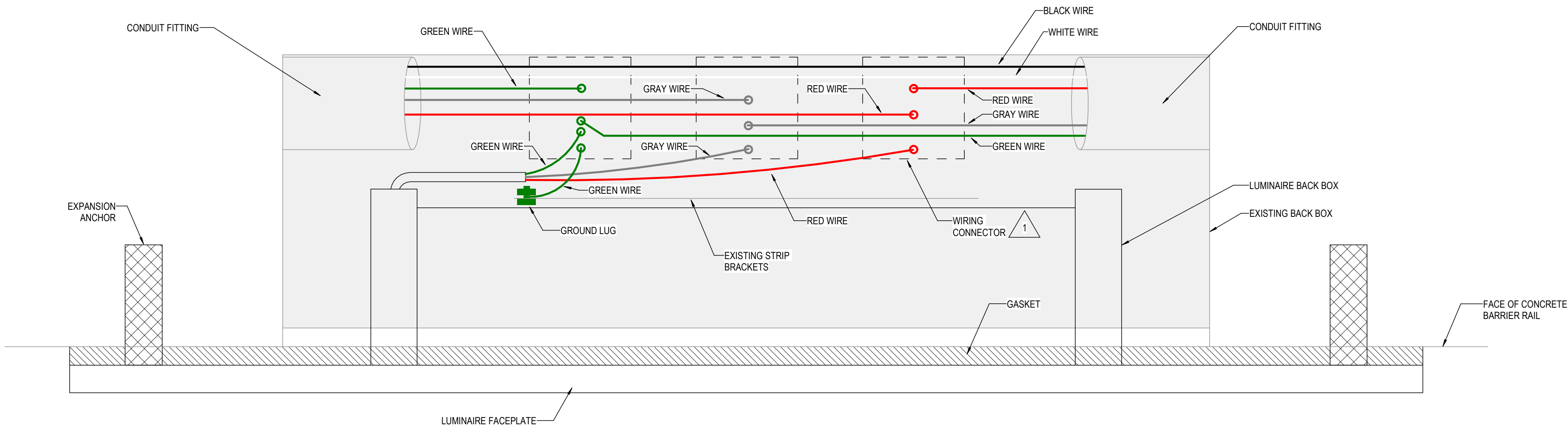
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LUMINAIRE WIRING FOR CIRCUITS "A1" AND "B1"  
NOT TO SCALE



LUMINAIRE WIRING FOR CIRCUITS "A2" AND "B2"  
NOT TO SCALE



1 WIRING CONNECTOR  
NOT TO SCALE

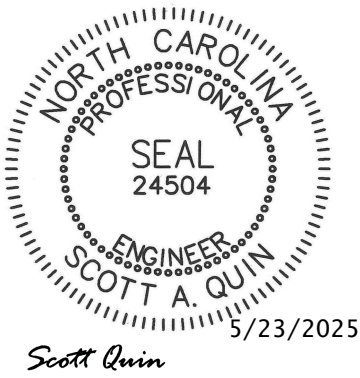
BASIS OF DESIGN  
INSULATED CONNECTOR WITH THE FOLLOWING  
REQUIRED FEATURES:  
• 3 PORT CONFIGURATION FOR PHASE AND NEUTRAL  
• 4 PORT CONFIGURATION FOR GROUND  
• PRE-FILLED WITH OXIDE INHIBITOR  
• WEATHER TIGHT, WATER TIGHT

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REPAIR OF PEDESTRIAN  
LIGHTING SYSTEM

LUMINAIRE CIRCUIT WIRING



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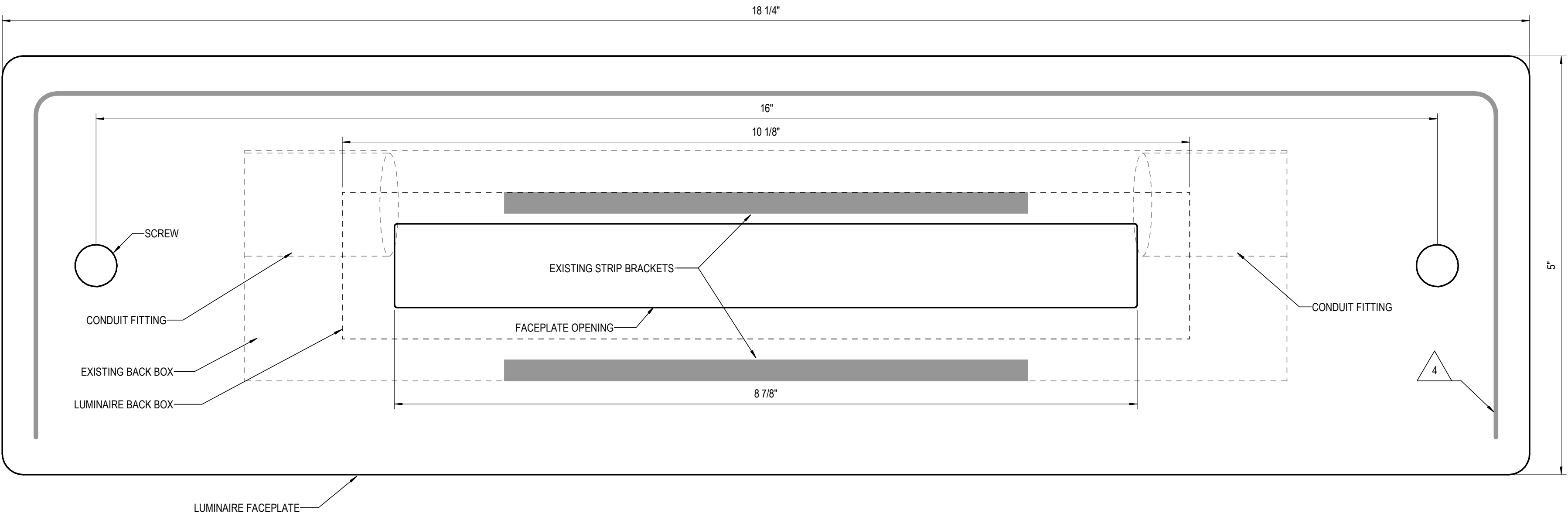
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REVISIONS  
NO. BY: DATE: NO. BY: DATE:  
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2 4

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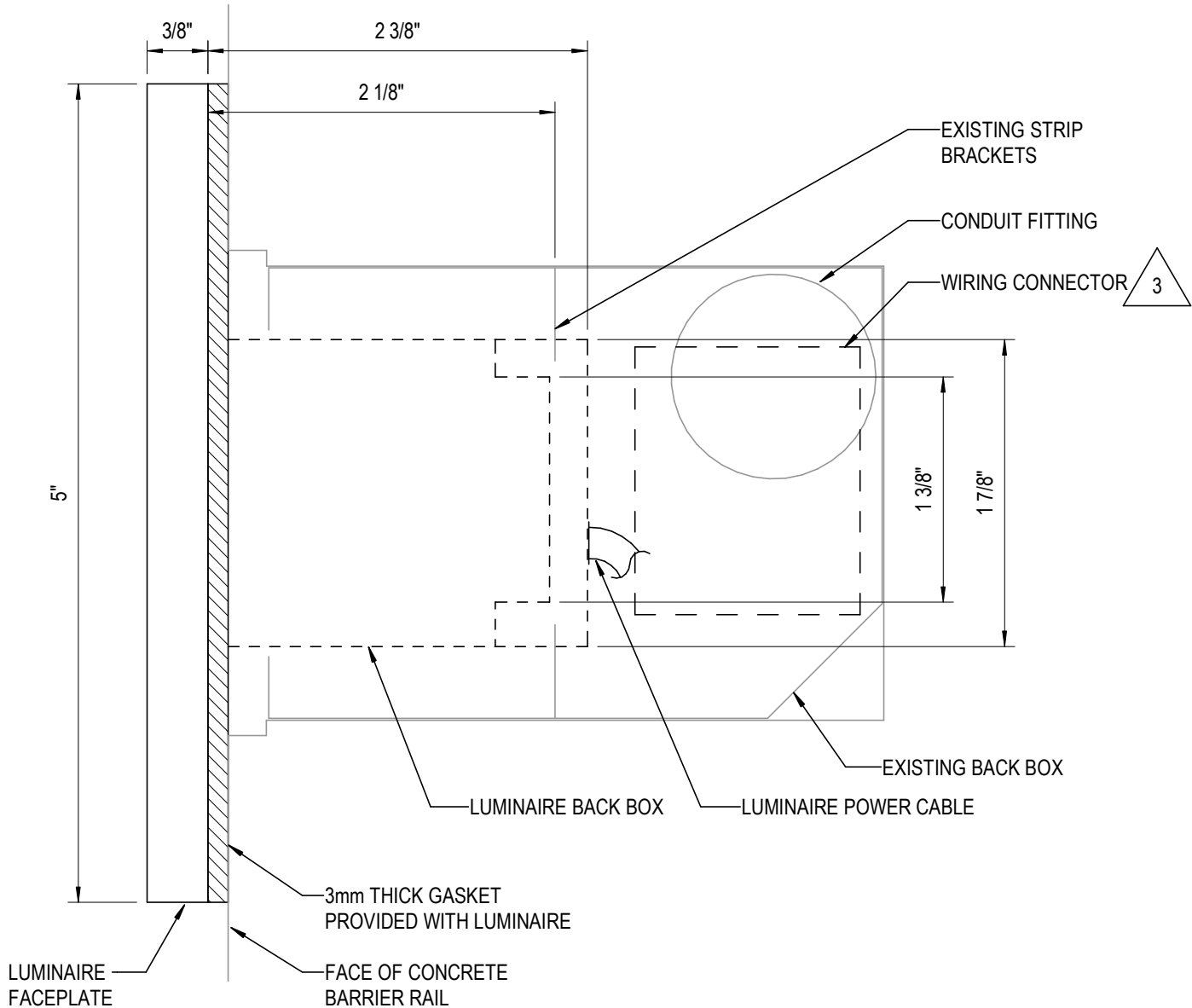
SHEET  
NO.  
E-4  
TOTAL  
SHEETS  
10





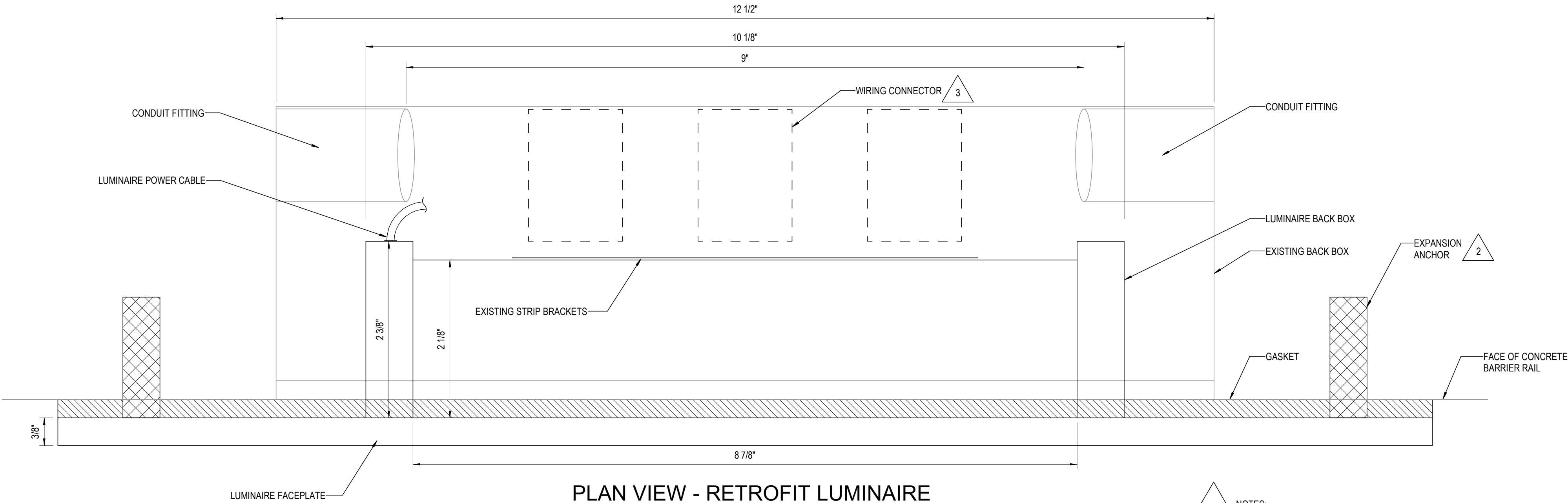
**FRONT VIEW - RETROFIT LUMINAIRE**

12" = 1'-0"



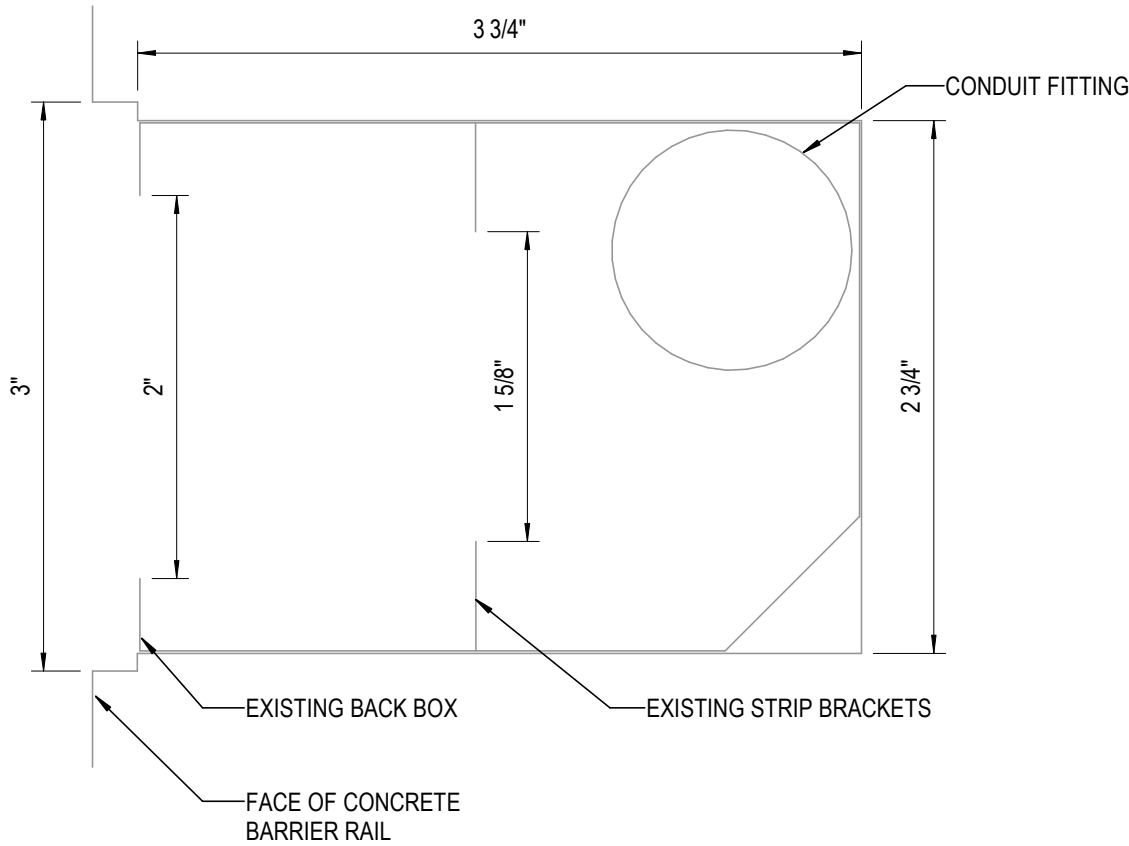
**SIDE VIEW - RETROFIT LUMINAIRE**

12" = 1'-0"



**PLAN VIEW - RETROFIT LUMINAIRE**

12" = 1'-0"



**SIDE VIEW - EXISTING BACK BOX**

12" = 1'-0"

NOTES:

- 1 LUMINAIRE BASIS OF DESIGN IS MP LIGHTING, MODEL NO. L771-8-W27H-F-S6. REQUIRED FEATURES:
- LED LIFE IS 50,000 HOURS (NOMINAL)
  - LUMEN OUTPUT IS 410LM (NOMINAL)
  - 120V, 8W
  - STAINLESS STEEL FACEPLATE
  - BACK BOX MADE OF MARINE GRADE ALUMINUM
  - IP66 RATED
  - LED ENGINE IS REPLACEABLE
  - LED DRIVER IS REPLACEABLE
- 2 #10 PLASTIC CONICAL EXPANSION ANCHORS AND #10 PAN HEAD SCREWS SHALL BE USED TO INSTALL THE LUMINAIRES. #10 PAN HEAD SCREWS SHALL BE 1 1/2" IN LENGTH AND SHALL BE 316 STAINLESS STEEL. DRILL ANCHOR LOCATIONS AND INSTALL EXPANSION ANCHORS IN ACCORDANCE WITH INSTRUCTIONS FROM ANCHOR MANUFACTURER. INCLUDE COSTS FOR EXPANSION ANCHORS WITH REPLACE EXISTING LIGHTING AND WIRING PAY ITEM.
- 3 SEE DETAIL 1 ON SHEET E-4.
- 4 INSTALL BEAD OF CAULK ALONG THREE SIDES BEHIND FACEPLATE AS SHOWN.

PROJECT NO. 15BPR.138.3

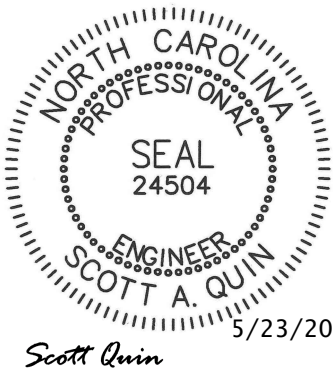
PENDER COUNTY

BRIDGE 700016

STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
RALEIGH

REPAIR OF PEDESTRIAN  
LIGHTING SYSTEM

LUMINAIRE REPLACEMENT



DES BY: M. THEOLOGIDY DATE : 03/24  
DES CHK: S. QUIN DATE : 03/24  
DWG BY: M. THEOLOGIDY DATE : 03/24  
CHK BY: S. QUIN DATE : 03/24

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REVISIONS

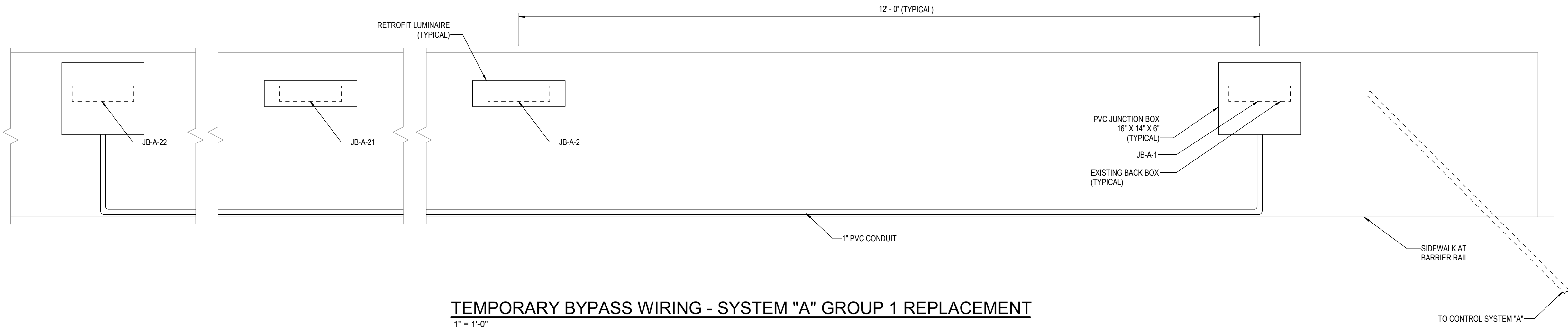
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1			3		
2			4		

SCOTT A. QUIN  
5/23/2025

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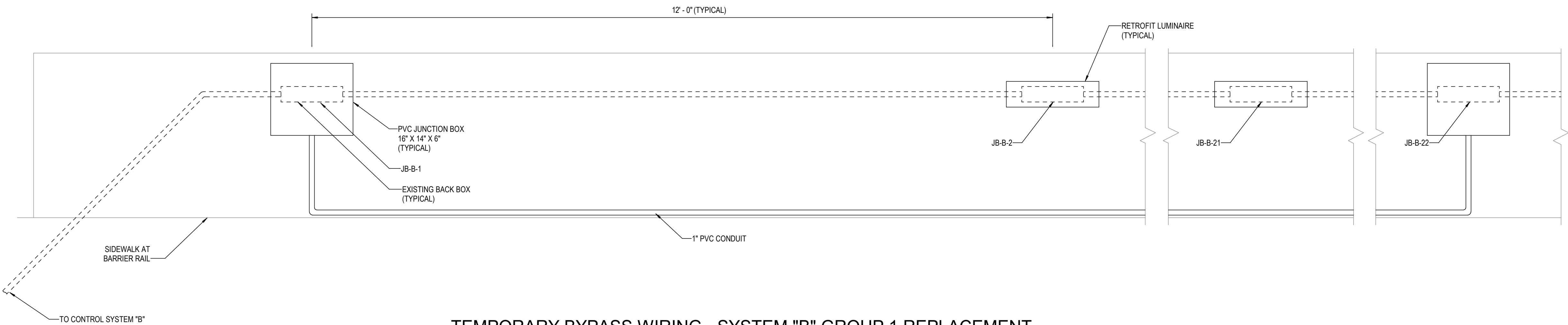
SHEET  
NO.  
E-5  
TOTAL  
SHEETS  
10





### TEMPORARY BYPASS WIRING - SYSTEM "A" GROUP 1 REPLACEMENT

1" = 1'-0"



### TEMPORARY BYPASS WIRING - SYSTEM "B" GROUP 1 REPLACEMENT

1" = 1'-0"

LIGHTING QUANTITIES	
REPLACE EXISTING LIGHTING AND WIRING	LUMP SUM
BARRIER RAIL LUMINAIRE (INSTALLED AND SPARES)*	368* EA.

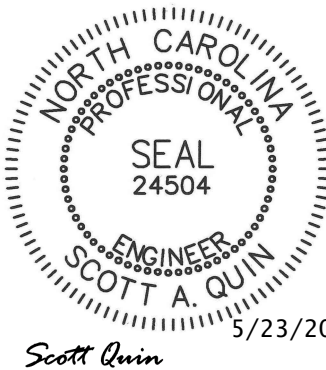
\* INCLUDES 334 INSTALLED LUMINAIRES AND 34 SPARE LUMINAIRES

#### STEPS FOR GROUP 1 REPLACEMENT:

1. REMOVE EXISTING LUMINAIRES A-1.
2. REMOVE EXISTING WIRING FROM CONTROL STATION "A" TO JB-A-1.
3. PREPARE JB-A-1. SEE NOTES 1, 2, 3 ON SHEET E-1, AND NOTE 2 ON SHEET E-5.
4. INSTALL NEW CIRCUIT WIRING FROM CONTROL STATION "A" TO JB-A-1. SEE NOTE ON SHEET E-2.
5. REMOVE EXISTING LUMINAIRE A-22.
6. AT JB-A-22, INSTALL EXPANSION ANCHORS FOR NEW RETROFIT LUMINAIRE. SEE NOTE 2 ON SHEET E-5.
7. INSTALL TEMPORARY BYPASS WIRING FROM JB-A-1 TO JB-A-22. PROVIDE #8 THWN WIRE.
8. REMOVE EXISTING LUMINAIRES A-2 THROUGH A-21.
9. REMOVE EXISTING WIRING FROM JB-A-1 TO JB-A-22.
10. PREPARE JB-A-2 THROUGH JB-A-21. SEE NOTES 1, 2, 3 ON SHEET E-1, AND NOTE 2 ON SHEET E-5.
11. INSTALL NEW CIRCUIT WIRING FROM JB-A-1 THROUGH JB-A-21. SEE SHEETS E-3 AND E-4 FOR CIRCUIT WIRING.
12. INSTALL NEW RETROFIT LUMINAIRES A-2 THROUGH A-20.
13. REMOVE TEMPORARY WIRING.
14. INSTALL NEW RETROFIT LUMINAIRE A-1.
15. INSTALL TEMPORARY BYPASS JUNCTION BOX AT JB-A-21.

#### STEPS FOR GROUP 2 REPLACEMENT (TYPICAL FOR GROUPS 3 AND ABOVE):

1. REMOVE EXISTING LUMINAIRES A-42.
2. AT JB-A-42, INSTALL EXPANSION ANCHORS FOR NEW RETROFIT LUMINAIRE. SEE NOTE 2 ON SHEET E-5.
3. INSTALL TEMPORARY BYPASS WIRING FROM JB-A-21 TO JB-A-42.
4. REMOVE EXISTING LUMINAIRES JB-A-21 TO JB-A-42.
5. REMOVE EXISTING WIRING FROM JB-A-21 TO JB-A-42.
6. PREPARE JB-A-22 THROUGH JB-A-41. SEE NOTES 1, 2, 3 ON SHEET E-1, AND NOTE 2 ON SHEET E-5.
7. INSTALL NEW CIRCUIT WIRING FROM JB-A-21 THROUGH JB-A-41. SEE SHEETS E-3 AND E-4 FOR CIRCUIT WIRING.
8. INSTALL NEW RETROFIT LUMINAIRES A-22 THROUGH A-40.
9. REMOVE TEMPORARY WIRING.
10. INSTALL NEW RETROFIT LUMINAIRE A-21.
11. INSTALL TEMPORARY BYPASS JUNCTION BOX AT JB-A-41.



- NOTES:
1. REPLACEMENT OF THE LUMINAIRES WILL BE PHASED IN ORDER TO LIMIT DISRUPTION OF ILLUMINATION PROVIDED BY BARRIER RAIL LIGHTING.
  2. OPERATION OF THE EXISTING LUMINAIRES WILL BE MAINTAINED BY PROVIDING TEMPORARY WIRING TO BYPASS EACH GROUP OF LUMINAIRES BEING REPLACED.
  3. FOR EACH GROUP REPLACEMENT, A MAXIMUM OF 20 LUMINAIRES MAY BE REPLACED.
  4. MOUNT TEMPORARY BYPASS JUNCTION BOX TO THE CONCRETE BARRIER RAIL UTILIZING EXPANSION ANCHORS.
  5. ATTACH TEMPORARY BYPASS CONDUIT TO THE CONCRETE BARRIER RAIL WITH ONE-HOLE STRAPS. REPAIR THE CONCRETE WHEN THE ONE-HOLE STRAPS ARE REMOVED.
- FOR GROUT FOR STRUCTURE, SEE SPECIAL PROVISIONS.

PROJECT NO. 15BPR.138.3  
PENDER COUNTY  
BRIDGE 700016

STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
RALEIGH

REPAIR OF PEDESTRIAN  
LIGHTING SYSTEM

PHASED INSTALLATION

REVISIONS						SHEET NO. E-6
NO.	BY:	DATE:	NO.	BY:	DATE:	TOTAL SHEETS 10
1			3			
2			4			

DES BY: M. THEOLOGIDY DATE : 03/24 DWG BY: M. THEOLOGIDY DATE : 03/24  
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MANAGEMENT STRATEGIES

- 1) DURING PEDESTRIAN LIGHTING INSTALLATION USE FLAGGERS AND PEDESTRIAN CHANNELIZING DEVICES TO DIRECT PEDESTRIAN TRAFFIC THROUGH THE WORK AREA.
- 2) USE ROADWAY STANDARD DRAWING 1101.02 SHEET 1 OF 19, AS NECESSARY, FOR VEHICULAR TRAFFIC ON NC 210/NC 50.
- 3) USE ROADWAY STANDARD DRAWING 1101.02 SHEET 18 OF 19, AS NECESSARY, FOR VEHICULAR TRAFFIC ON NC 210/ S TOPSAIL DR ROUNDABOUT.

GENERAL NOTES

CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL DRAWINGS, STANDARD DETAILS, AND ROADWAY DETAILS ARE NOT ATTAINABLE TO MEET FIELD CONDITIONS OR RESULT IN DUPLICATE OR UNDESIRED OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING, OR REMOVAL OF DEVICES AS DIRECTED BY THE ENGINEER.

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT EXCEPT WHEN OTHERWISE NOTED IN THE PLAN OR DIRECTED BY THE ENGINEER.

TIME RESTRICTIONS

A) DO NOT CLOSE OR NARROW TRAVEL LANES AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
NC 210	MONDAY THRU FRIDAY
NC 50	6:00 A.M. TO 9:00 A.M. 4:00 P.M. TO 7:00 P.M. AND 12:00 A.M. SATURDAY TO 12:00 A.M. MONDAY

B) DO NOT CLOSE OR NARROW TRAVEL LANES DURING HOLIDAYS AND PEAK SEASON SPECIAL EVENTS AS FOLLOWS:

ROAD NAME
NC 210
NC 50

HOLIDAY AND PEAK SEASON

- FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
- FOR NEW YEAR'S, BETWEEN THE HOURS OF 6:00 A.M DECEMBER 31st TO 9:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 7:00 P.M. THE FOLLOWING TUESDAY.
- FOR EASTER, BETWEEN THE HOURS OF 6:00 A.M. THURSDAY AND 7:00 P.M. MONDAY.
- FOR PEAK SEASON, BETWEEN THE HOURS OF 6:00 A.M. THE FRIDAY BEFORE MEMORIAL DAY AND 9:00 P.M. THE TUESDAY AFTER LABOR DAY.
- FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00 A.M. TUESDAY TO 7:00 P.M. MONDAY.
- FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 7:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

GENERAL NOTES (CONT.)

- C) DO NOT CLOSE OR NARROW THE MULTI-USE PATH OR SIDEWALK DURING THE PEAK SEASON (FROM 6:00 A.M. THE FRIDAY BEFORE MEMORIAL DAY TO 9:00 P.M TUESDAY AFTER LABOR DAY) AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
MULTI-USE PATH	FRIDAY 6:00 A.M. TO THE FOLLOWING SUNDAY 9:00 P.M.
SIDEWALKS	(NO NARROWING OR CLOSURE ALLOWED FRIDAY, SATURDAY, AND SUNDAY)

LANE AND SHOULDER CLOSURE REQUIREMENTS

- D) REMOVE LANE CLOSURE DEVICES FROM THE LANE WHEN WORK IS NOT BEING PERFORMED BEHIND THE LANE CLOSURE OR WHEN A LANE CLOSURE IS NO LONGER NEEDED OR AS DIRECTED BY THE ENGINEER.
- E) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 15 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN SHOULDER USING ROADWAY STANDARD DRAWING NO. 1101.04 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL OR A LANE CLOSURE IS INSTALLED.

TRAFFIC PATTERN ALTERATIONS

- F) NOTIFY THE ENGINEER THIRTY (30) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

SIGNING

- G) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

PROJECT NO. 15BPR.138.3  
PENDER COUNTY  
BRIDGE 700016



John Wiles 5/23/2025

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
REPAIR OF PEDESTRIAN LIGHTING SYSTEM					
REVISIONS					SHEET NO. TMP-1 TOTAL SHEETS 10
NO.	BY:	DATE:	NO.	BY:	
1			3		
2			4		



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DES CHK: B. SCHOENBAUER	DATE : 03/24	CHK BY: B. SCHOENBAUER	DATE : 03/24