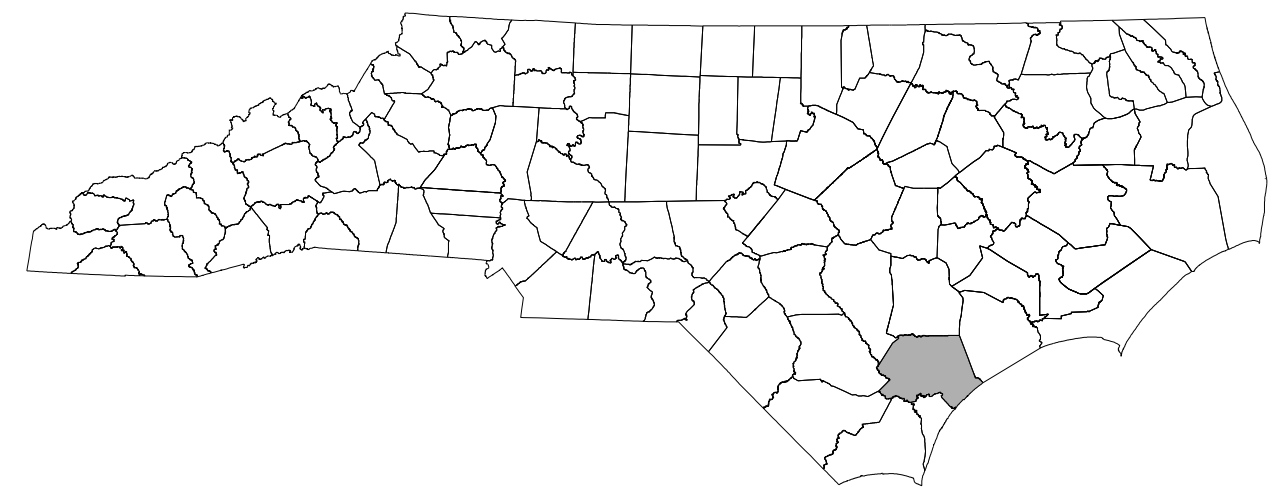


TIP PROJECT: 15BPR.138.3

CONTRACT: C204939

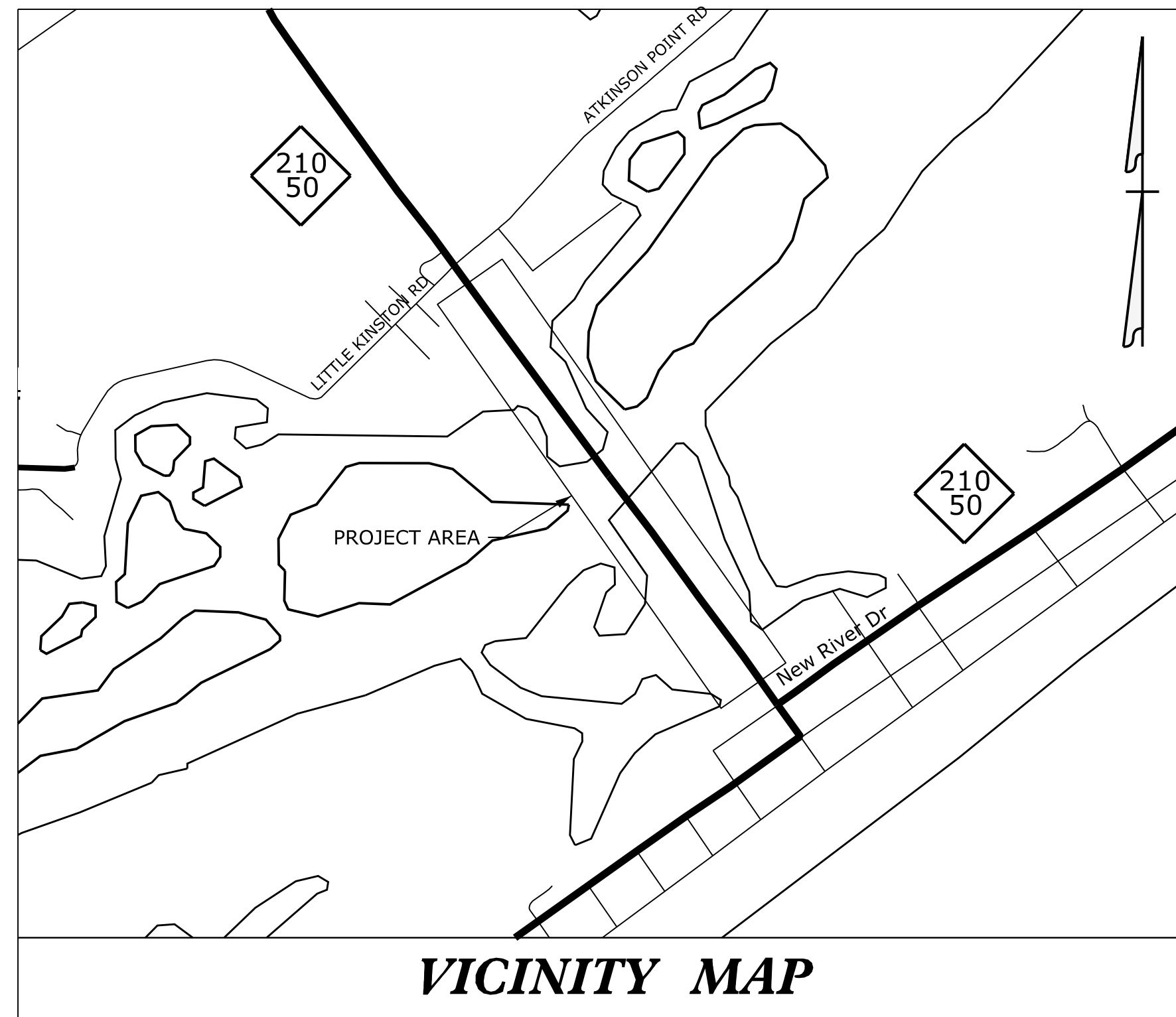
PEDESTRIAN LIGHTING AND TRANSPORTATION MANAGEMENT PLAN

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

<u>SHEET NO.</u>	<u>TITLE</u>
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

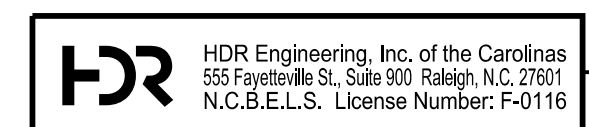
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NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		

SHEET NO. T-1
TOTAL SHEETS 10



PLOT DRIVER: NCD07.pdfr_color_eng_50.ppt_bak
USER: JWILES DATE: 6/18/2024
PENTABLE: NCD07.pdfr_color_eng_50.ppt_bak
TIME: 9:31:50 AM
FILE: p:\dwg\dr\users\01\HDR_US_East_01\Documents\3322\10003159\10349919\6.0.CAD\BITM\6.2.WIP\15BPR.138.3\TrafficControl\TMP-01

DES BY: J. WILES DATE: 03/24
DES CHK: B. SCHOENBAUER DATE: 03/24
DWG BY: J. WILES DATE: 03/24
CHK BY: B. SCHOENBAUER DATE: 03/24



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UNLESS ALL SIGNATURES COMPLETED

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.



FLUSH MOUNTED FACEPLATE (TYPICAL)

EXISTING CONDITIONS - FACEPLATE
NOT TO SCALE



EXISTING CONDITIONS - BRIDGE BARRIER RAIL
NOT TO SCALE



EXISTING BACKBOX
1/4" RECESS (TYPICAL)

EXISTING CONDITIONS - BACKBOX
NOT TO SCALE

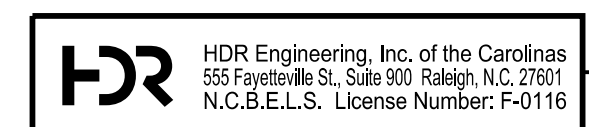


EXISTING CONDITIONS - CONDUIT
NOT TO SCALE

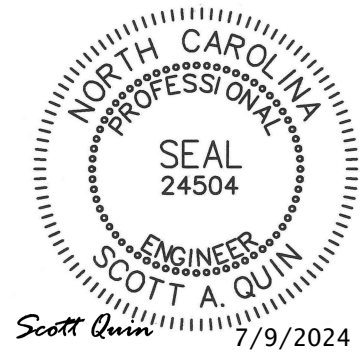
PROJECT NO. 15BPR.138.3
 PENDER COUNTY
 BRIDGE 700016

PLOT DRIVER: NCD07.pdft_color_eng_50.plt_bak
 USER: S.QUIN
 FILE: PENTABLE: NCD07.fcp.tbl
 DATE: _____
 TIME: _____

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



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STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

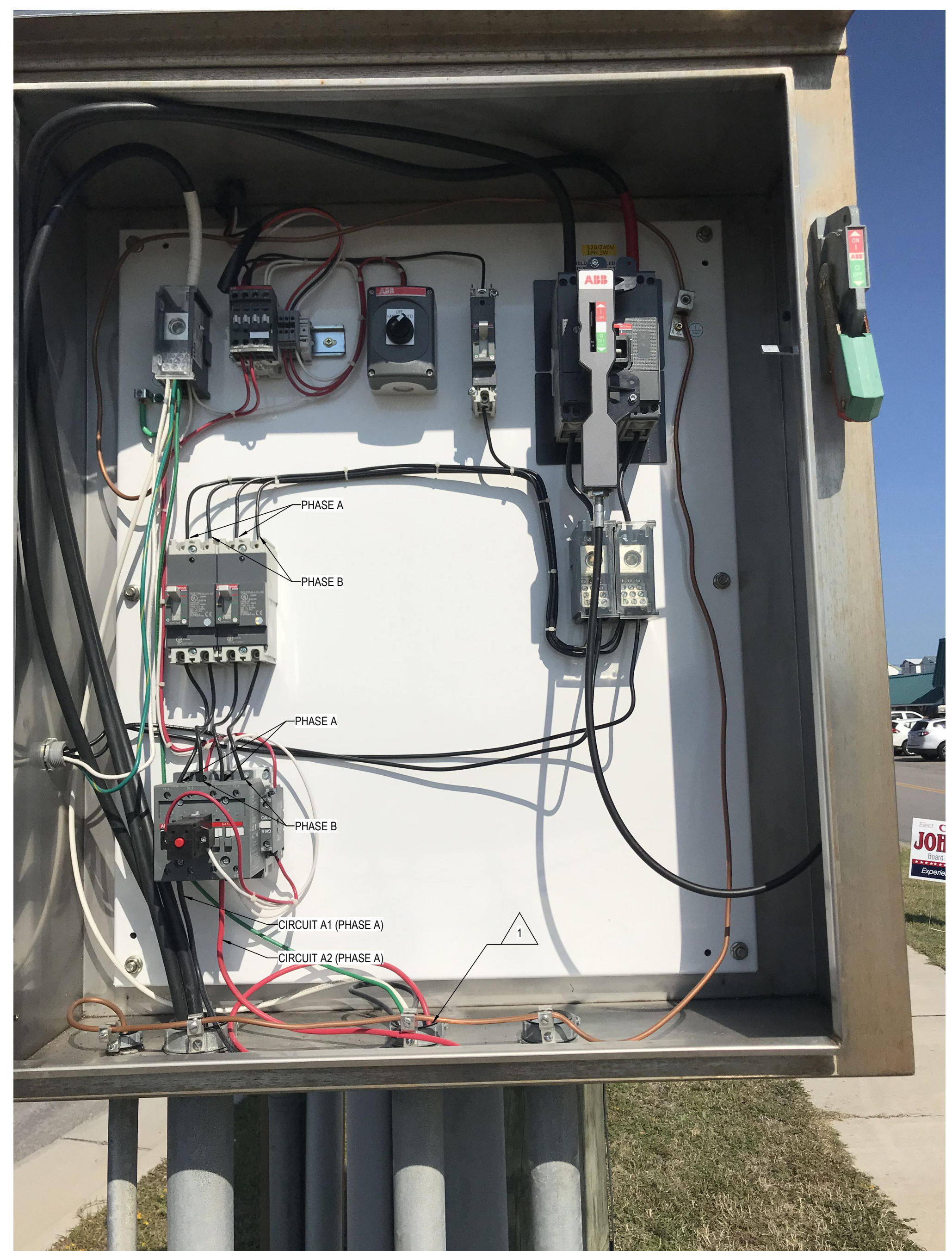
REPAIR OF PEDESTRIAN
 LIGHTING SYSTEM

EXISTING CONDITIONS

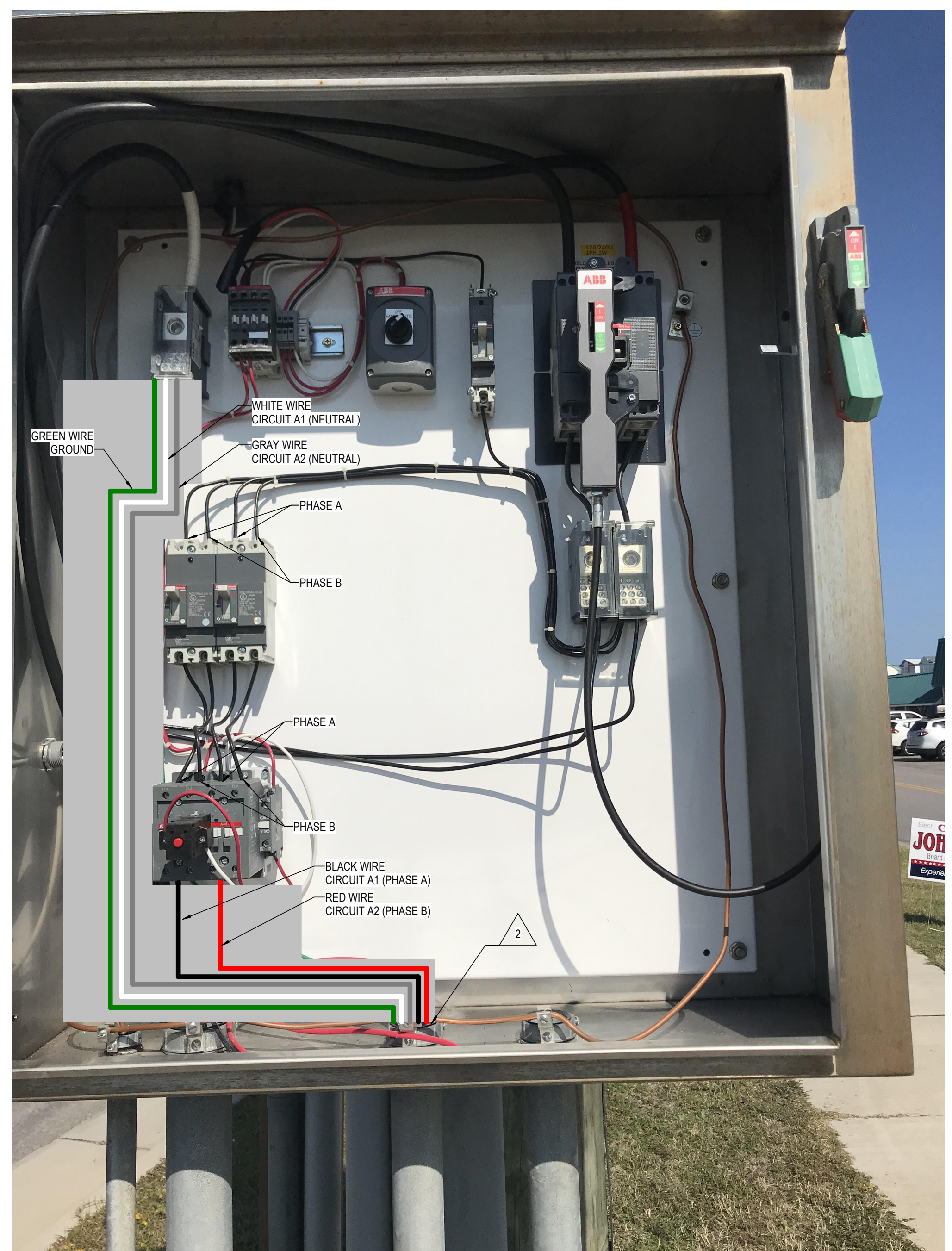
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1			3		
2			4		

SHEET NO. E-1
 TOTAL SHEETS 10

- 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



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



CONTROL SYSTEM "A" (TYPICAL)
NOT TO SCALE

PROJECT NO. 15BPR.138.3
 PENDER COUNTY
 BRIDGE 700016

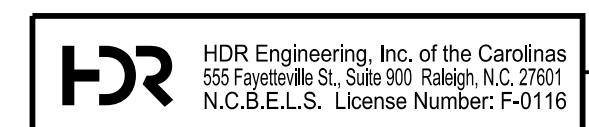
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 DEPARTMENT OF TRANSPORTATION
 RALEIGH

REPAIR OF PEDESTRIAN
 LIGHTING SYSTEM

CONTROL SYSTEM CHANGES



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

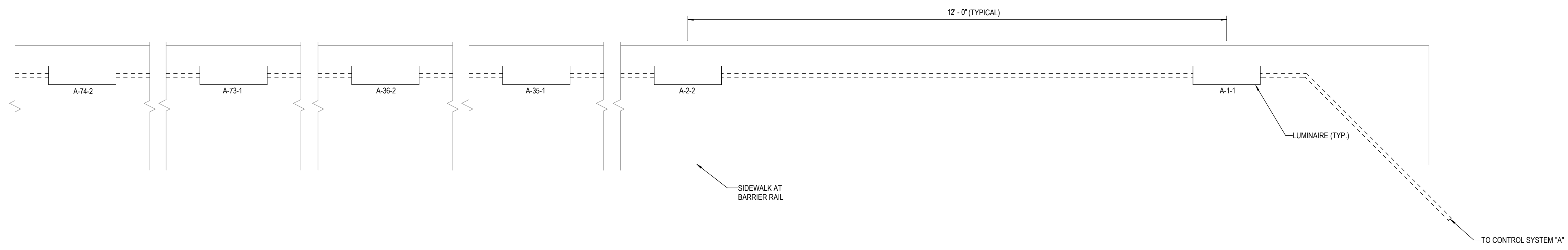


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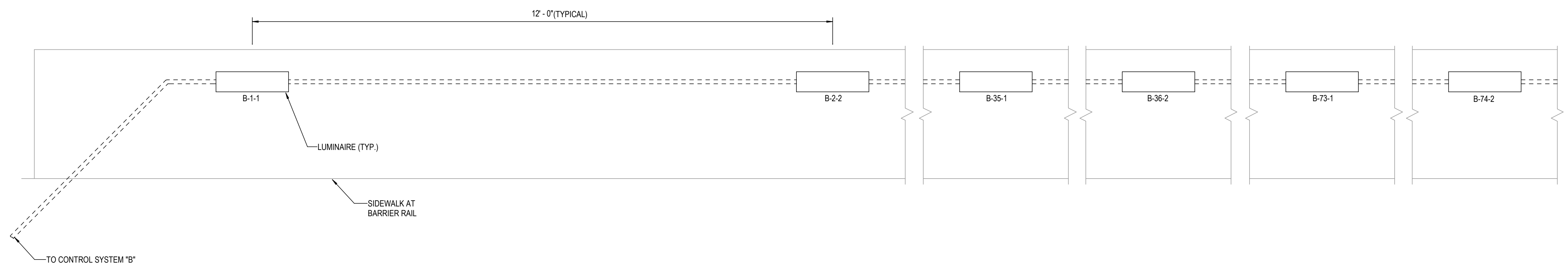
PLOT DRIVER: NCD07_pdt_color_eng_50.ppt_bak
 USER: S.QUIN
 FILE: DATE:

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

NOTES:
1 SEE SHEET E-5 FOR CIRCUIT WIRING REQUIREMENTS.



LUMINAIRE CIRCUITING (CONTROL SYSTEM "A")
3/4" = 1'-0"



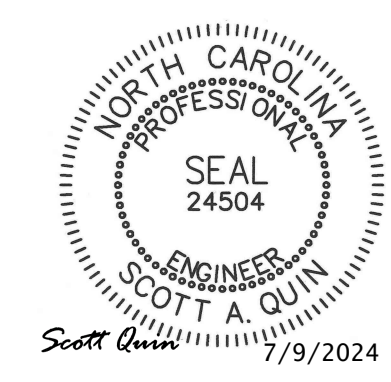
LUMINAIRE CIRCUITING (CONTROL SYSTEM "B")
3/4" = 1'-0"

PROJECT NO. 15BPR.138.3
PENDER COUNTY
BRIDGE 700016

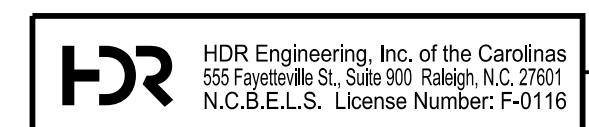
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

REPAIR OF PEDESTRIAN
LIGHTING SYSTEM

NEW CIRCUITING



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

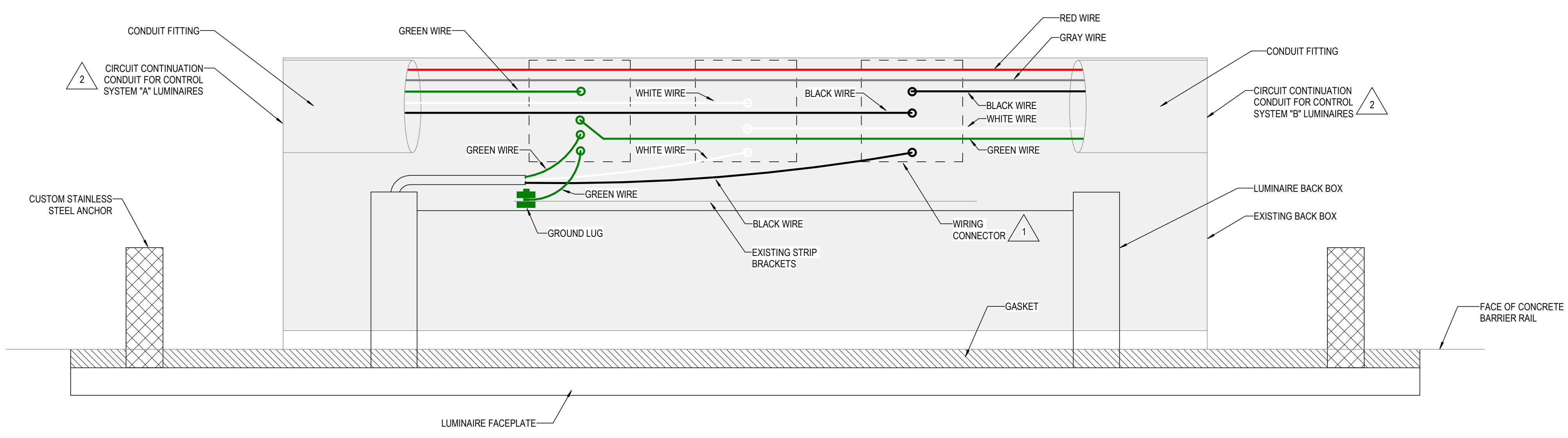


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UNLESS ALL SIGNATURES COMPLETED

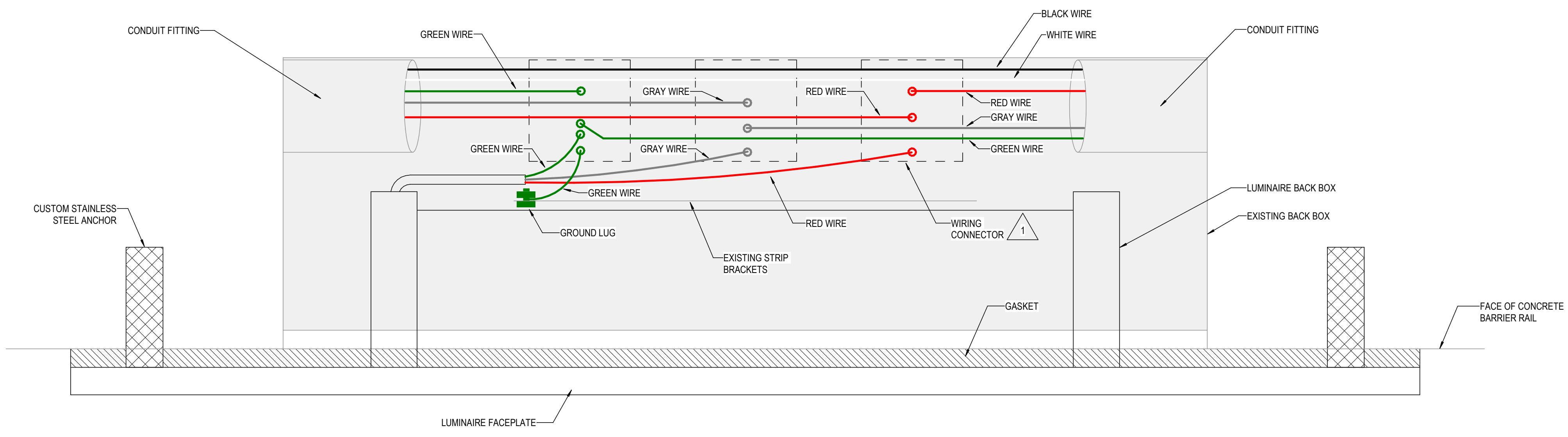
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USER: S.QUIN
DATE: 03/24
FILE: NCD07.pdf_color_eng_50.ppt_bak

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

- NOTES:
- 1 SEE DETAIL 1 ON THIS SHEET.
 - 2 AT EVERY FIFTH LUMINAIRE (E.G. A5, A10, A15, ETC.), FILL ONE CONDUIT WITH EXPANDING FOAM SEALANT. APPLY SEALANT TO THE CIRCUIT CONTINUATION CONDUIT THAT CONTINUES THE CIRCUITS TO THE DOWNSTREAM LUMINAIRES. DO NOT APPLY SEALANT TO THE CIRCUIT SUPPLY CONDUIT.
 - 3 EXPANDING FOAM SEALANT TO BE UL LISTED FOR USE WITH CONDUIT AND WIRE. BASIS OF DESIGN: POLYWATER FST



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

PROJECT NO. 15BPR.138.3
PENDER COUNTY
 BRIDGE 700016

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

REPAIR OF PEDESTRIAN LIGHTING SYSTEM

LUMINAIRE CIRCUIT WIRING



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

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

HDR 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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PLOT DRIVER: NCD07.pdft_color_eng_50.ppt_bak
 USER: DATE:
 FILE: TIME: