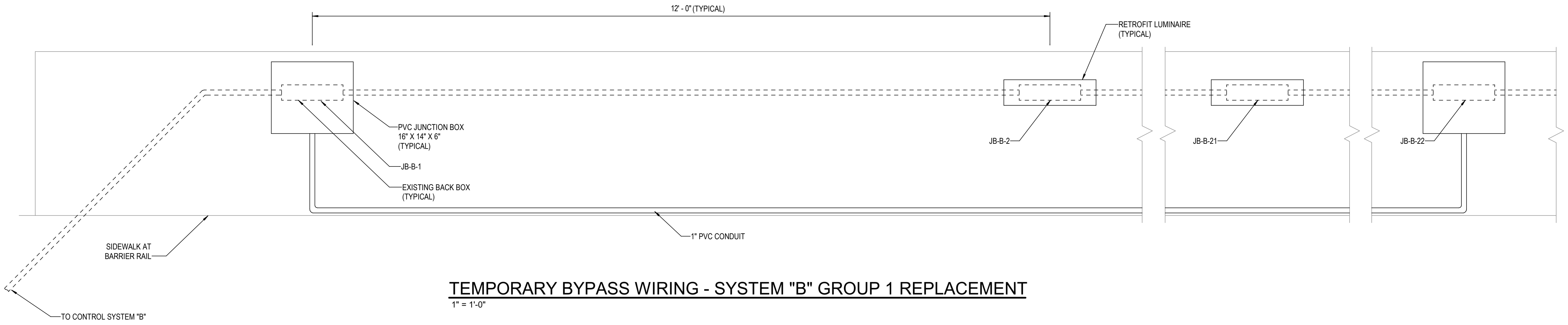


TEMPORARY BYPASS WIRING - SYSTEM "A" GROUP 1 REPLACEMENT
1" = 1'-0"



TEMPORARY BYPASS WIRING - SYSTEM "B" GROUP 1 REPLACEMENT
1" = 1'-0"

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 THE ANCHORS SUPPLIED WITH THE NEW RETROFIT LUMINAIRES.
 - 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.

LIGHTING QUANTITIES	
REPLACE EXISTING LIGHTING AND WIRING *	LUMP SUM
SPARE BARRIER RAIL LUMINAIRE (EA)	34

* REPLACE 334 EXISTING LUMINAIRES. SEE SPECIAL PROVISION.

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 2 ON SHEET E-2.
5. REMOVE EXISTING LUMINAIRE A-22.
6. AT JB-A-22, INSTALL 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):

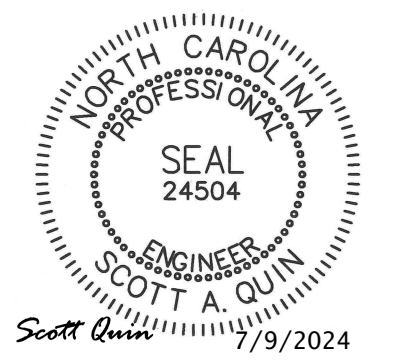
1. REMOVE EXISTING LUMINAIRES A-42.
2. AT JB-A-42, INSTALL ANCHORS FOR NEW RETROFIT LUMINAIRE. SEE NOTE 2 ON SHEET E-5.
3. INSTALL TEMPORARY BYPASS WIRING FROM JB-A-21 TO JB-A-42.
4. REMOVE EXISTING LUMINAIRES JB-A-21 TO JB-A-42.
5. REMOVE EXISTING WIRING FROM JB-A-21 TO JB-A-42.
6. PREPARE JB-A-22 THROUGH 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.

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 TOTAL SHEETS 10
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			
2			4			

PLOT DRIVER: NCD0T.pdf_color_eng_50.ppt_bak
 USER: S. QUIN
 FILE: NCD0T.pdf_color_eng_50.ppt_bak
 DATE: 03/24
 TIME: 10:00 AM

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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