

GENERAL ELECTRICAL NOTES

ALL WORK FOR THIS CONTRACT SHALL CONFORM TO REQUIREMENTS OF NFPA-70 (NATIONAL ELECTRICAL CODE), NFPA-70E, NFPA 502, AASHTO LRFD MOVABLE HIGHWAY BRIDGE DESIGN SPECIFICATIONS. SEE SPECIAL PROVISION FOR A LIST OF ALL APPLICABLE STANDARDS.

ALL WORK SHALL BE DONE WITH NO INTERFERENCE TO FACILITY OPERATIONS UNLESS AUTHORIZED BY THE DEPARTMENT IN ADVANCE.

THROUGHOUT CONSTRUCTION, THE CONTRACTOR SHALL ENSURE THAT THE RAMP REMAINS OPERATIONAL TO VEHICULAR TRAFFIC AT ALL TIMES. DURING AN ELECTRICAL OUTAGE, THE BRIDGE MAY BE OPERATED MANUALLY VIA ELECTRIC CHAIN HOISTS. OPERATION VIA ELECTRIC HOISTS SHALL BE COORDINATED WITH THE DEPARTMENT INCLUDING THE NUMBER AND DURATION OF ALL ELECTRICAL SYSTEM OUTAGES.

SOME IMAGES ARE TAKEN FROM INSPECTION REPORT DATED 11/02/2023. PRIOR TO BEGINNING ANY REPAIR WORK, FIELD VERIFY EXISTING CONDITIONS. IF EXISTING CONDITIONS VARY SIGNIFICANTLY FROM IMAGES SHOWN, CONTACT DEPARTMENT.

IMAGES PROVIDED SERVE AS VISUAL EXAMPLES AND SHOULD NOT BE CONSIDERED A COMPLETE CATALOG OF ALL INSPECTION DISCREPANCIES.

ALL CONDUITS, CONDUCTORS, AND SUPPORTS RELATED TO EQUIPMENT BEING REMOVED, SHALL ALSO BE REMOVED.

THE CONTRACTOR SHALL CONDUCT OPERATIONS IN SUCH A MANNER THAT NO WASTE, DUST, DEBRIS OR OTHER DETRIMENTAL MATERIAL SHALL ENTER THE WATER IN ACCORDANCE WITH SECTION 107 OF NCDOT'S ROADS AND STRUCTURE SPECIFICATIONS.

AT THIS TIME THERE ARE NO AS-BUILTS FOR THE EXISTING SYSTEM. ALL ITEMS SHALL BE FIELD VERIFIED BY THE CONTRACTOR, AS REQUIRED.

ALL ELECTRICAL BOXES/ENCLOSURES/CABINETS SHALL BE STAINLESS STEEL NEMA 4X.

ALL ELECTRICAL PANELBOARDS SHALL BE NEMA 12 OR R3 AND SHALL BE LOCATED INSIDE STAINLESS STEEL NEMA 4X ENCLOSURE.

ALL STAINLESS STEEL EQUIPMENT SHALL BE 316 STAINLESS STEEL UNLESS OTHERWISE NOTED.

BLACK ENGRAVED LAMACOID LABELS SHALL BE PROVIDED FOR ALL INTERIOR CABINET/BOX/ENCLOSURE DEVICES.

THE CONTRACTOR SHALL PROVIDE A STAINLESS STEEL NAMEPLATE FOR THE FRONT OF EACH CABINET/BOX/ENCLOSURE THAT IS MODIFIED OR CONNECTED TO REGARDLESS IF AN EXISTING NAMEPLATE IS PRESENT. IF AN EXISTING NAMEPLATE EXISTS IT SHALL BE REPLACED.

THE CONTRACTOR SHALL RE RUN ANY CONDUITS AND CONDUCTORS AS REQUIRED THAT CANNOT BE EASILY REPAIRED OR CONNECTED TO NEW EQUIPMENT AT NO ADDITIONAL COST TO THE DEPARTMENT.

ELECTRICAL SCOPE OF WORK

THE SCOPE OF WORK FOR THIS PROJECT SHALL INCLUDE BUT NOT LIMITED TO THE REPAIR, TESTING AND COMMISSIONING OF THE ELECTRICAL FERRY RAMP:

1. FIELD SURVEY AND VERIFICATION
- a.

THE CONTRACTOR SHALL CONDUCT FIELD VERIFICATIONS OF ALL FIELD EQUIPMENT TO VERIFY CONDITIONS, AS REQUIRED, TO PERFORM REPAIRS. THIS INCLUDES BUT NOT LIMITED TO THE EXISTING CONDUIT, CONDUCTORS, CONDUCTOR LABELS, AND CONTRACT PLANS.
2. LIGHTING
- a.

THE CONTRACTOR SHALL FURNISH AND INSTALL NEW LIGHTING FIXTURES.
3. CONDUIT AND WIRING
- a.

THE CONTRACTOR SHALL FURNISH AND INSTALL, AS REQUIRED, CONDUIT, BOXES, AND CONDUCTORS AND ALL OTHER NEW EQUIPMENT SPECIFIED IN THE PLANSET.
- b.

THE CONTRACTOR SHALL FULLY INTEGRATE ALL ELECTRICAL REPAIRS INTO THE EXISTING/REMAINING ELECTRICAL SYSTEMS.
4. TESTING AND COMMISSIONING
- a.

FOLLOWING INSTALLATION, THE CONTRACTOR SHALL COMMISSION AND TEST TO SHOW THAT EQUIPMENT IS INSTALLED ACCURATELY AND SAFELY. ALL EQUIPMENT SHALL BE OPERATED TO THE SATISFACTION OF THE ENGINEER AND A TESTING PROCEDURE SHALL BE SUBMITTED TO RECORD THE TESTING OF ALL EQUIPMENT.

PROJECT NO. **15BPR.164**

BEAUFORT COUNTY

TERMINAL: **AURORA**



7/16/2026
Drake Cole

DES BY: <u>M. TORRES</u>	DATE : <u>11/2025</u>	DWG BY: <u>B. PETERSON</u>	DATE : <u>11/2025</u>
DES CHK: <u>D. COLE</u>	DATE : <u>11/2025</u>	CHK BY: <u>D. COLE</u>	DATE : <u>11/2025</u>

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

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
ELECTRICAL GENERAL NOTES					
REVISIONS					SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:
1	--	--	3	--	--
2	--	--	4	--	--
TOTAL SHEETS					E1-01
					34