04/16/11

ELECTRICAL DESIGN BY:
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PROJECT REFERENCE NO.	SHEET NO.
B-4722B	UC-3

DESIGNED BY:	REP
DRAWN BY:	WAW
CHECKED BY:	REP
APPROVED BY:	REP
REVISED:	REP

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

UTILITIES ENGINEERING SEC.
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NORTH CAROLINA PROFESSIONAL SEAL ENGINEER RONALD E. PLEDGER 19654

12/12/2014
UTILITY CONSTRUCTION PLANS ONLY

UTILITY CONSTRUCTION

NOTES

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE TOTAL QUANTITY OF CONDUIT NEEDED TO COMPLETE THE WORK AND THAT THE CONDUIT(S) ARE PLACED AT THE NOTED DIMENSION AND ABOVE THE BOTTOM OF THE GIRDER.

THE INSTALLATION OF THE CONDUIT SYSTEM SHALL BE PAID FOR AS LUMP SUM. THE PRICE SHALL INCLUDE ALL CONDUIT, HANGERS, STABILIZERS, EXPANSION JOINTS, CONCRETE INSERTS, PVC SLEEVES AND ALL NECESSARY HARDWARE TO COMPLETE THE WORK.

THE CONTRACTOR SHALL FIELD VERIFY THAT THE CONDUIT SYSTEM IS NOT IN CONFLICT WITH THE GUARDRAIL POSTS.

SEE DETAIL "C" SHEET UC-3A FOR HANGER ASSEMBLY INSTALLATION.

INSTALL SLEEVES PARALLEL TO GIRDERS. SEE DETAIL "B" SHEET UC-3A FOR SLEEVE INSTALLATION.

PROVIDE TRANSITION ADAPTOR AND EXPANSION JOINT FOR CONDUIT AT BENTS 3, 6, 9 AND 12.

INSTALL STABILIZERS MIDWAY BETWEEN DECK EXPANSION JOINTS. STABILIZER CAN NOT BE USED INSTEAD OF A HANGER ASSEMBLY.

THE CONCRETE SCREW INSERT SHALL HAVE A ROD SIZE OF 5/8" AND A PULL FORCE OF 1260 lbs. INSERTS SHALL BE INSTALLED BY FACTORY IN PRECAST CONCRETE PANELS.

FOR ELECTRICAL CONDUIT SYSTEM, SEE SPECIAL PROVISIONS.

INSTALL DEFLECTION COUPLER AT EACH BENT, SEE DETAIL "F" SHEET UC-3A.

BILL OF MATERIALS FOR 4" UTILITY CONDUIT

ITEMS	UNITS	DESCRIPTION
1	10 EA.	6" STEEL SLEEVE (0.237) INCHES WALL THICKNESS, AND CONTINUOUS BENT DIAPHRAGMS
2	242 EA.	5/8" APPROVED GALVANIZED CONCRETE INSERTS.
3	242 EA.	5/8" APPROVED GALVANIZED HANGER FOR PULL BOXES OF 1,260 LBS.
4	1,417 FT.	4" SCH 40 PVC MULTI-CELL RACEWAY.
5	2 EA.	APPROVED MODULAR TYPE CASING SEAL
6	20 KG	JUTE
7	10 EA.	MASTIC OR CAULKING COMPOUND.
8	10 EA.	LINK SEALS
9	2 EA.	4" PVC END PLUGS OR CAPS.
10	5 EA.	GALVANIZED LATERAL BRACE ASSEMBLY.
11	5 EA.	EXPANSION JOINTS, DOUBLE ENDED, LIMITED EDITION.

THESE MATERIAL ARE ESTIMATED QUANTITIES ONLY AND ARE TO BE FURNISHED BY THE CONTRACTOR FOR THE ATTACHMENT TO THE PROPOSED BRIDGE.

DRAWN BY: WAW DATE: 12-2-2014
CHECKED BY: REP DATE: 12-2-2014