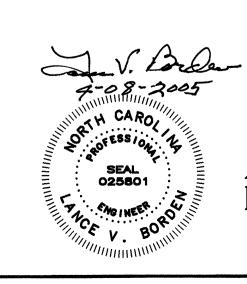


STRUCTURE GROUNDING

- 1. GROUNDING CABLE SHALL BE STRANDED COPPER.
 MINIMUM WEIGHT 440 LBS. PER 1000 FEET
 (APPROXIMATELY AWG 2/0).
- GROUND RODS SHALL BE COPPER CLAD STEEL.
 NO SHARP BENDS OR SPLICES PERMITTED IN GROUNDING CABLE. INSTALL WITH RADIUS OVER EDGE OF PIERS.
- 4. ALL ATTACHMENT HARDWARE SHALL BE DESIGNED SPECIFICALLY FOR SUPPORT OF COPPER GROUNDING CABLES.
- 5. EXOTHERMIC WELDS SHALL UTILIZE MOLDS DESIGNED FOR ATTACHMENT OF 2/0 COPPER CABLE TO VERTICAL STEEL SURFACES AND TO GROUND RODS.
- 6. INSTALL GROUNDING SYSTEM UPSTREAM AND DOWNSTREAM AT EAST AND WEST TOWERS.
- 7. 4/0 COPPER GROUNDING CABLE SHALL BE GROUPED WITH LOOP CABLES. SHALL BE EXOTHERMICALLY BONDED TO TOWER STRUCTURES AND EACH END OF THE LIFT SPAN, TERMINATING AT THOSE LOCATIONS. CABLE SHALL BE INSULATED, HIGH STRAND COUNT, TYPE W.
- 8. EACH OF THE STRUCTURE GROUNDING INSTALLATIONS SHALL PROVIDE A GROUND CONNECTION NOT TO EXCEED 20 OHMS RESISTANCE. ADDITIONAL GROUNDING PROVISIONS SHALL BE ADDED AS MAY BE REQUIRED TO ACHIEVE 20 OHMS MAXIMUM RESISTANCE.





CENTURY SOUTHERN, INC.

2811 REIDVILLE ROAD, STE 2
SPARTANBURG, SC 29301

DEPARTMENT OF TRANSPORTATION

CAPE FEAR RIVER CROSSING
WILMINGTON, NORTH CAROLINA
ELECTRICAL ELEVATION AND
STRUCTURE GROUNDING

DRAWN BY R.L. REED

SCALE AS NOTED

DESIGNED G.L. FASICK DETAILED R.L. REED DATE APRIL, 2005

CHECKED L.R. BAKER CHECKED G.L. FASICK DRAWING NO. 4 OF 53