

### FOUNDATION LAYOUT

DIMENSIONS LOCATING PILES ARE SHOWN TO PILE CENTERLINES AT THE BOTTOM OF CAP. DIMENSIONS LOCATING DRILLED PIERS ARE SHOWN TO THE DRILLED PIER CENTERLINES.

END BENT BRACE PILES ARE BATTERED AT 3:12.

#### FOUNDATION NOTES:

THE DRILLED PIERS AT BENT NO.1 HAVE BEEN DESIGNED FOR BOTH SKIN FRICTION AND TIP BEARING. THE REQUIRED TIP BEARING CAPACITY IS 20 TONS/FT<sup>2</sup>.

THE REQUIRED TIP BEARING CAPACITY AT BENT NO.1 SHALL BE VERIFIED.

DRILLED PIERS FOR BENT NO.1 HAVE BEEN DESIGNED FOR AN APPLIED LOAD OF 255 TONS EACH AT THE TOP OF THE COLUMN.

PERMANENT STEEL CASING MAY BE REQUIRED FOR DRILLED PIERS AT BENT NO.1. IF REQUIRED, THE CASING SHALL NOT EXTEND BELOW ELEVATION 756 FT. WITHOUT THE ENGINEER'S PERMISSION. THE NEED FOR PERMANENT STEEL CASING WILL BE DETERMINED BY THE ENGINEER.

FOR PERMANENT STEEL CASING, SEE DRILLED PIERS SPECIAL PROVISIONS.

DRILLED PIERS AT BENT NO.1 SHALL EXTEND TO AN ELEVATION NO HIGHER THAN 749 FT. (LEFT) AND 742 FT. (RIGHT) AND SATISFY THE REQUIRED TIP BEARING CAPACITY.

SLURRY CONSTRUCTION SHALL NOT BE USED FOR THIS PROJECT.

CSL TUBES ARE REQUIRED AND CSL TESTING MAY BE REQUIRED FOR THE DRILLED PIERS AT BENT NO.1. SEE SPECIAL PROVISION FOR CROSSHOLE SONIC LOGGING.

SID INSPECTIONS MAY BE REQUIRED TO INSPECT THE BOTTOM CLEANLINESS OF THE DRILLED PIERS. THE ENGINEER WILL DETERMINE THE NEED FOR SID INSPECTIONS. SEE DRILLED PIERS SPECIAL PROVISIONS.

THE SCOUR CRITICAL ELEVATION FOR BENT NO.1 IS 753 FT. THE SCOUR CRITICAL ELEVATIONS ARE FOR USE BY MAINTENANCE FORCES TO MONITOR POSSIBLE SCOUR PROBLEMS DURING THE LIFE OF THE STRUCTURE.

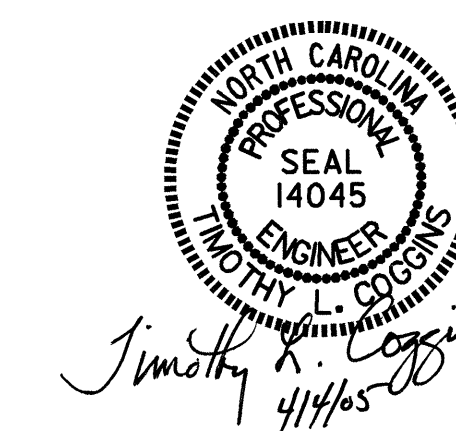
FOR DRILLED PIERS, SEE SPECIAL PROVISIONS.

PILES FOR END BENT NO.1 AND NO.2 SHALL BE DRIVEN TO A MINIMUM BEARING CAPACITY OF 60 TONS EACH.

WHEN DRIVING PILES, THE MAXIMUM BLOW COUNT SHALL NOT BE EXCEEDED.

DRAWN BY : PEGGY ADKINS DATE : 12-04  
 CHECKED BY : T.L. COGGINS DATE : 03/05

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 tcoggins



PROJECT NO. B-3828  
CLEVELAND COUNTY  
 STATION: 14+65.00 -L-

SHEET 2 OF 3

STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH

GENERAL DRAWING  
 FOR BRIDGE OVER  
 BUFFALO CREEK  
 ON SR 1906 BETWEEN  
 NC 18 AND SR 1908

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-2
1			3			TOTAL SHEETS
2			4			30