FOUNDATION LAYOUT

DIMENSIONS LOCATING PILES AND DRILLED PIERS ARE
SHOWN TO CENTER LINES OF PILES AND DRILLED PIERS.

END BENT 1

℄ PILES
℄ HP 310 x 79 STEEL PILES
FILL FACE @ END BENT 1
W.P. #1
FILL FACE @ E.B. 1
STA. 10+74.500 -Y1-
1.930m (×8)
965
965
430 (TYP.)
℄ HP 310 x 79 STEEL BRACE PILES
(BATTERED 250:1000)

BENT 1

BENT 1 CONTROL LINE
W.P. #2
STA. 10+93.500 -Y1-
3.450m
3.450m
90°-00'-00" (TYP.)
℄ 1066mm Ø DRILLED PIERS

-Y1- (SCHOOL DRIVE)

BENT 2

BENT 2 CONTROL LINE
W.P. #3
STA. 11+12.500 -Y1-
3.450m
3.450m
℄ 1066mm Ø DRILLED PIERS

END BENT 2

℄ HP 310 x 79 STEEL PILES
℄ PILES
FILL FACE @ END BENT 2
W.P. #4
FILL FACE @ END BENT 2
STA. 11+31.500 -Y1-
1.820m (×9)
910
910
430 (TYP.)
℄ HP 310 x 79 STEEL BRACE PILES
(BATTERED 250:1000)

FOUNDATION NOTES:

PILES FOR END BENTS 1 AND 2 SHALL BE DRIVEN TO A MINIMUM
BEARING CAPACITY OF 530 kN EACH.

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

THE DRILLED PIERS AT BENTS 1 AND 2 HAVE BEEN DESIGNED FOR BOTH
SKIN FRICTION AND TIP BEARING. THE REQUIRED TIP BEARING CAPACITY
IS 2980 kPa.

THE REQUIRED TIP BEARING CAPACITY AT BENTS 1 AND 2 SHALL BE VERIFIED.

DRILLED PIERS FOR BENT 1 AND 2 HAVE BEEN DESIGNED FOR AN APPLIED
LOAD OF 2522 kN EACH AT THE TOP OF THE COLUMN.

PERMANENT STEEL CASING IS REQUIRED FOR DRILLED PIERS AT BENTS 1 AND 2.
THE CASING SHALL NOT EXTEND BELOW ELEVATION 493.0 WITHOUT THE ENGINEER'S
PERMISSION.

FOR PERMANENT STEEL CASING, SEE SPECIAL PROVISIONS FOR DRILLED PIERS.

DRILLED PIERS AT BENT 1 AND 2 SHALL EXTEND TO AN ELEVATION NO HIGHER
THAN 491.0 AND SATISFY THE REQUIRED TIP BEARING CAPACITY.

FOR DRILLED PIERS, SEE SPECIAL PROVSIONS.

SPT TESTING IS NOT REQUIRED TO DETERMINE THE TIP BEARING
CAPACITY OF THE DRILLED PIERS AT BENTS 1 AND 2.

SLURRY CONSTRUCTION SHALL NOT BE USED FOR THIS PROJECT.

SID INSPECTIONS ARE NOT REQUIRED TO DETERMINE THE BOTTOM
CLEANLINESS OF THE DRILLED PIERS AT BENTS 1 AND 2.

CSL TUBES ARE REQUIRED AND CSL TESTING MAY BE REQUIRED
FOR THE DRILLED PIERS AT BENTS 1 AND 2. SEE SPECIAL PROVISION
FOR CROSSHOLE SONIC LOGGING.

THE SCOUR CRITICAL ELEVATION FOR BENTS 1 AND 2 IS ELEVATION
493.0 THE SCOUR CRITICAL ELEVATIONS ARE FOR USE BY MAINTENANCE
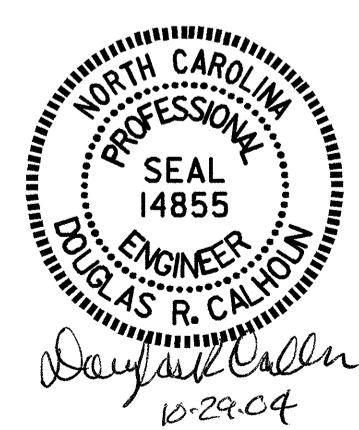FORCES TO MONITOR POSSIBLE SCOUR PROBLEMS DURING THE LIFE OF
THE STRUCTURE.

PROJECT NO. B-2583
MADISON COUNTY
STATION: 11+03.000 -Y1-

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

GENERAL DRAWING
FOR BRIDGE OVER FRENCH
BROAD RIVER BETWEEN
SCHOOL AND SR 1001

NORTH CAROLINA
PROFESSIONAL
SEAL
14855
ENGINEER
DOUGLAS R. CALHOUN
6-29-04

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	**S-70**
1			3			TOTAL SHEETS
2			4			112

DRAWN BY : E. G. ALLEN   DATE : 6-15-04
CHECKED BY : W. S. ARAFAT   DATE : 6-16-04

29-OCT-2004 11:41
W:\gallen\b2583\str2\b258302gd.dgn
gallen

STR. #2