



FOUNDATION LAYOUT

(DIMENSIONS LOCATING PILES AND DRILLED PIERS ARE SHOWN TO THE CENTERLINE OF PILES AND DRILLED PIERS.)

NOTES

THE DRILLED PIERS AT BENT 1 AND BENT 2 HAVE BEEN DESIGNED FOR BOTH SKIN FRICTION AND TIP BEARING. THE REQUIRED TIP BEARING CAPACITY IS 1900 KPA.

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

DRILLED PIERS FOR BENT 1 AND BENT 2 HAVE BEEN DESIGNED FOR AN APPLIED LOAD OF 1870 KN EACH AT THE TOP OF THE COLUMN.

DRILLED PIER NUMBER 1 (LEFT) AT BENT 1 SHALL EXTEND TO AN ELEVATION NO HIGHER THAN 73.0 AND SATISFY THE REQUIRED TIP BEARING CAPACITY.

DRILLED PIER NUMBER 2 AND 3 (CENTER, RIGHT) AT BENT 1 SHALL EXTEND TO AN ELEVATION NO HIGHER THAN 65.0 AND SATISFY THE REQUIRED TIP BEARING CAPACITY.

DRILLED PIERS AT BENT 2 SHALL EXTEND TO AN ELEVATION NO HIGHER THAN 67.0 AND SATISFY THE REQUIRED TIP BEARING CAPACITY.

FOR DRILLED PIERS, SEE SPECIAL PROVISIONS.

PERMANENT STEEL CASING IS NOT REQUIRED FOR DRILLED PIERS AT BENT 1 AND BENT 2.

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

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

SPT TESTING IS REQUIRED TO DETERMINE THE TIP BEARING CAPACITY OF THE DRILLED PIERS AT BENT 1 AND BENT 2. SEE DRILLED PIERS SPECIAL PROVISION.

SID INSPECTIONS ARE REQUIRED TO DETERMINE THE BOTTOM CLEANLINESS OF THE DRILLED PIERS AT BENT 1 AND BENT 2. SEE DRILLED PIERS SPECIAL PROVISION.

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

THE CONTRACTOR SHALL OBSERVE A ONE MONTH WAITING PERIOD BEFORE BEGINNING ANY WORK FOR END BENT CONSTRUCTION AFTER COMPLETION OF THE EMBANKMENT AT EACH END BENT.

PROJECT NO. R-2610A
 CHATHAM COUNTY
 STATION: 18+04.666 -L-

SHEET 2 OF 4



STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

GENERAL DRAWING
 FOR BRIDGE ON SBL US 421
 OVER ABERDEEN, CAROLINA &
 WESTERN RAILWAY BETWEEN
 SR 1007 AND SR 1010
 (LEFT LANE BRIDGE)

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	TOTAL SHEETS
1			3			5-2
2			4			82

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DRAWN BY: M. J. OSTRISHKO DATE: 10-10-03
 CHECKED BY: H. PAO DATE: 10-13-03