<u>NOTES</u>

ASSUMED LIVE LOAD -----MS18 OR ALTERNATE LOADING.

DESIGN FILL-----4.150m

FOR OTHER DESIGN DATA AND NOTES SEE STANDARD NOTE SHEET.

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.

ALL ELEVATIONS ARE IN METERS.

76mm Ø WEEP HOLES INDICATED TO BE IN ACCORDANCE WITH THE SPECIFICATIONS.
CONCRETE IN CULVERTS TO BE POURED IN THE FOLLOWING ORDER:

- 1. WING FOOTINGS AND FLOOR SLAB INCLUDING 100mm OF ALL VERTICAL WALLS.
- 2. THE REMAINING PORTIONS OF THE WALLS AND WINGS FULL HEIGHT FOLLOWED BY ROOF SLAB AND HEADWALLS.
- THE RESIDENT ENGINEER SHALL CHECK THE LENGTH OF CULVERT BEFORE STAKING IT OUT TO MAKE CERTAIN THAT IT WILL PROPERLY TAKE CARE OF THE FILL.

TRANSVERSE CONSTRUCTION JOINTS SHALL BE USED IN THE BARREL, SPACED TO LIMIT THE POURS TO A MAXIMUM OF 21.0m. LOCATION OF JOINTS SHALL BE SUBJECT TO APPROVAL OF THE ENGINEER.

DIMENSIONS FOR WING LAYOUT AS WELL AS ADDITIONAL REINFORCING STEEL EMBEDDED IN BARREL ARE SHOWN ON WING SHEET.

AT THE CONTRACTOR'S OPTION, HE MAY SPLICE THE VERTICAL REINFORCING STEEL IN THE INTERIOR FACE OF EXTERIOR WALL AND BOTH FACES OF INTERIOR WALLS ABOVE LOWER WALL CONSTRUCTION JOINT. THE SPLICE LENGTH SHALL BE AS PROVIDED IN THE SPLICE LENGTH CHART SHOWN ON THE PLANS. EXTRA WEIGHT OF STEEL DUE TO THE SPLICES SHALL BE PAID FOR BY THE CONTRACTOR.

THE CONTRACTOR SHALL PROVIDE INDEPENDENT ASSURANCE SAMPLES OF REINFORCING STEEL AS FOLLOWS: FOR PROJECTS REQUIRING UP TO 360,000 kg OF REINFORCING STEEL ONE 760mm SAMPLE OF EACH SIZE BAR USED, AND FOR PROJECTS REQUIRING OVER 360,000 kg OF REINFORCING STEEL, TWO 760mm SAMPLES OF EACH SIZE BAR USED. THE BARS FROM WHICH THE SAMPLES ARE TAKEN MUST THEN BE SPLICED WITH REPLACEMENT BARS OF THE SIZE AND LENGTH OF THE SAMPLE, PLUS A MINIMUM LAP SPLICE OF THIRTY BAR DIAMETERS.

FOR CULVERT DIVERSION DETAILS AND PAY ITEM, SEE EROSION CONTROL PLANS.

A 900mm STRIP OF FILTER FABRIC SHALL BE ATTACHED TO THE FILL FACE OF THE INLET WINGS COVERING THE ENTIRE LENGTH OF THE EXPANSION JOINT.

FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS.

FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.

NO PRECAST REINFORCED BOX CULVERT OPTION WILL BE ALLOWED. FOR CRANE SAFETY, SEE SPECIAL PROVISIONS.

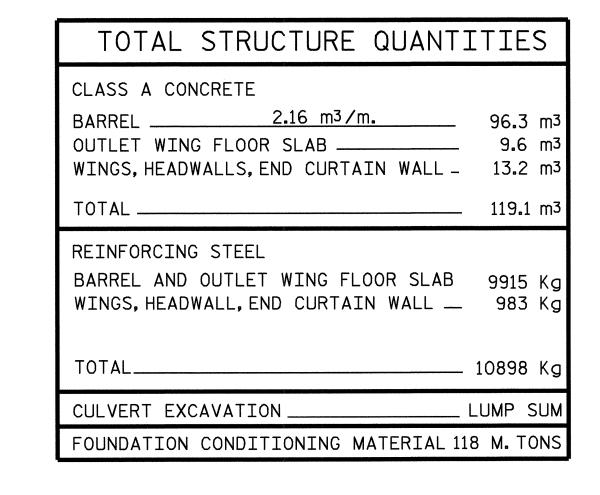
PROPOSED GUARDRAIL (ROADWAY DETAIL AND PAY ITEM) 16.700m CLASS B RIP RAP (ROADWAY PAY ITEM) 106°-00'-00" (TAN. TO CURVE) (OUTLET WINGS) - € CULVERT CLASS I RIP RAP (ROADWAY PAY ITEM) STA. 4+93.000 -LOOP C-© CULVERT — -EY18-GRADE DATA GRADE POINT ELEV. @ STA. 4+93.000 -LOOP C-= 82.189 BED ELEV. @ STA. = 76.470 BRANCH CREEK 4+93.000 -LOOP C-ROADWAY SLOPES = 6:1 (RT.)2:1 (LT.) HYDRAULIC DATA DESIGN DISCHARGE $= 10.0 \text{ m}^3/\text{s}$ FREQUENCY OF DESIGN FLOOD = 50 YRS. DESIGN HIGH WATER ELEVATION = 78.280 DRAINAGE AREA = 0.43 SQ. Km BASIC DISCHARGE (Q100) $= 12.0 \text{ m}^3/\text{s}$ BASIC HIGH WATER ELEVATION = 78.570 OVERTOPPING FLOOD DATA OVERTOPPING DISCHARGE $= 15.8 \pm m^3/s$ FREQUENCY OF OVERTOPPING FLOOD = 200 ± YRS OVERTOPPING FLOOD ELEVATION = 79.200 FOR UTILITY INFORMATION, SEE UTILITY PLANS AND SPECIAL PROVISIONS.

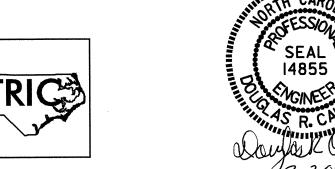
BENCH MARK (BY18-1016) IS PINC AT STA. 15+64.610 -BY18-, EL. 79.424, DATUM NGVD 1929

LOCATION SKETCH

___-LOOP C-10.000m 10.000m 10.000m 10.000m 10.000m 10.000m 10.000m 10.000m APPROXIMATE NATURAL GROUND EL. 77.4± EL. 77.4± EL. 77.3± EL. 77.4± EL. 77.3± EL. 77.3± EL. 77.2± EL. 77.3± EL. 77.2±

PROFILE ALONG & CULVERT





3-3-05

3-3-05

RESSIONER DE LA SELLE DE LA SEAL LA SE

PROJECT NO. R-2552C

JOHNSTON COUNTY

STATION: 4+93.000 -LOOP C-

SHEET 1 OF 6

DEPARTMENT OF TRANSPORTATION
RALEIGH

SINGLE 2.700m X 1.800m CONCRETE BOX CULVERT 106° SKEW

REVISIONS					SHEET NO.
BY:	DATE:	NO.	BY:	DATE:	C-31
		3			TOTAL SHEETS
		4			42

WETRIC !