

## NOTES

ASSUMED LIVE LOAD ------MS18 OR ALTERNATE LOADING.
DESIGN FILL------3.700m

FOR OTHER DESIGN DATA AND NOTES SEE STANDARD NOTE SHEET.

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.

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

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.

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.

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

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

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.

ALL ELEVATIONS ARE IN METERS.

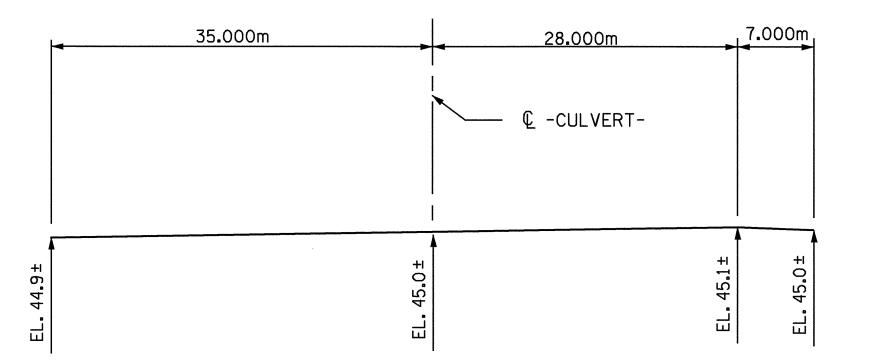
FOR SUBMITTAL OF WORKING DRAWINGS. SEE SPECIAL PROVISIONS.

FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.

TOP OF BOTTOM SLAB IS TO BE BURIED 305mm BELOW STREAM BED.

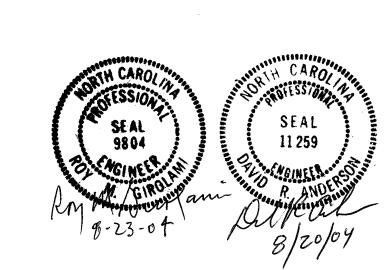
STEEL IN THE BOTTOM SLAB MAY BE SPLICED AT THE PERMITTED CONSTRUCTION JOINT AT THE CONTRACTOR'S OPTION. EXTRA WEIGHT OF STEEL DUE TO THE SPLICES WILL BE PAID FOR BY THE CONTRACTOR.

NO PRECAST REINFORCED BOX CULVERT OPTION WILL BE ALLOWED.



PROFILE ALONG & CULVERT

TOTAL STRUCTURE	QUANTITIES
CLASS A CONCRETE  BARREL & OUTLET WINGS —  INLET WINGS ETC.  TOTAL ————————————————————————————————————	149.5 m <sup>3</sup> 10.8 m <sup>3</sup> 160.3 m <sup>3</sup>
REINFORCING STEEL BARREL & OUTLET WINGS INLET WINGS ETC TOTAL	
CULVERT EXCAVATION FOUNDATION COND. MAT'L	LUMP SUM



PROJECT NO. R-513BA

ROBESON COUNTY

STATION: 12+86.500 -SR1-

SHEET 1 OF 5

DEPARTMENT OF TRANSPORTATION
RALEIGH

DOUBLE 2.400m X 1.800m CONCRETE BOX CULVERT

SKEW 120°

	1994
REVISIONS	SHEET NO.
BY: DATE: NO. BY: DATE:	C-15
3	TOTAL SHEETS
4	24

DRAWN BY: EEM 6/97 CHECKED BY: ARB 7/97

DATE: 2-13-03 DATE: 08-04-04

ASSEMBLED BY: N.Q.TRAN CHECKED BY: SWANCEPE