F.A. PROJECT NO. STP-0622 (5)



ASSUMED LIVE LOAD -----HS20-44 OR ALTERNATE LOADING.

DESIGN FILL----- 12.89

TOTAL STRUCTURE QUANTITIES

109.1 C.Y.

12.2 C.Y.

6.5 C.Y.

5.5 \_\_\_ C.Y.

133.3 \_\_\_\_ C.Y.

19,528 LBS.

340 LBS.

LUMP SUM

120 TONS

23 TONS

30 SQ.YDS.

19,868 LBS.

CLASS A CONCRETE

TAPERED INLET

INLET WINGS ETC.

OUTLET WINGS ETC.

REINFORCING STEEL

AND OUTLET WINGS

INLET WINGS ETC.

CULVERT EXCAVATION

FILTER FABRIC

PLAIN RIP RAP CLASS I

BARREL, TAPERED INLET

TOTAL

FOUNDATION CONDITIONING MAT'L

BARREL @ .793 CY/FT

TOTAL \_\_\_\_\_

FOR OTHER DESIGN DATA AND NOTES SEE STANDARD NOTE SHEET.

3"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 4"

THE RESIDENT ENGINEER SHALL CHECK THE LENGTH OF CULVERT BEFORE STAKING IT OUT TO MAKE CERTAIN THAT IT WILL PROPERLY TAKE CARE

THIS BARREL STANDARD TO BE USED ONLY ON CULVERT ON 90° SKEW AND TO BE USED WITH STANDARD WING SHEET WITH THE SAME SKEW AND VERTICAL

DIMENSIONS FOR WING LAYOUT AS WELL AS ADDITIONAL REINFORCING STEEL

NO PRECAST REINFORCED BOX CULVERT OPTION WILL BE ALLOWED.

THE WING COVERING THE ENTIRE LENGTH OF THE EXPANSION JOINT.



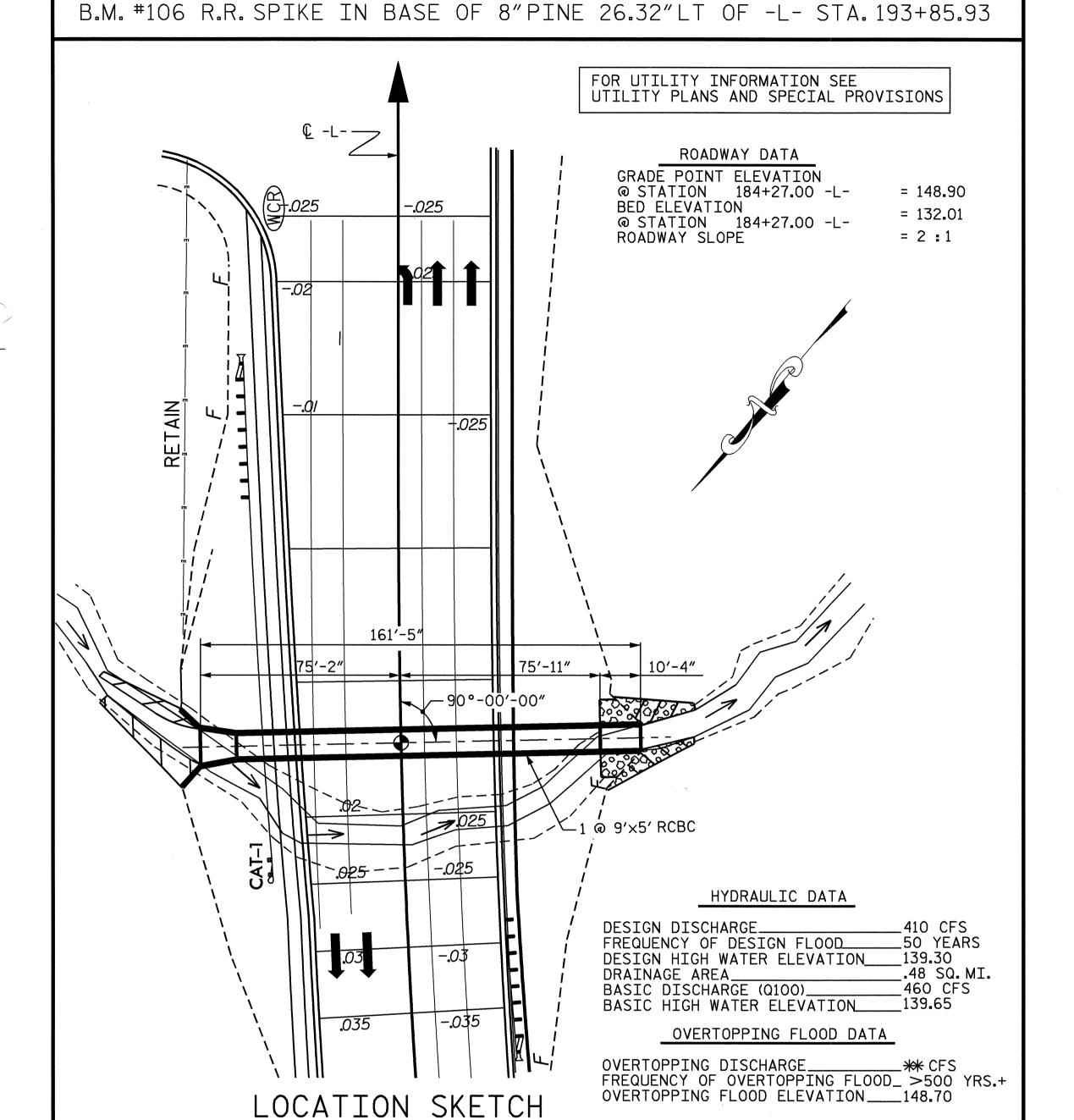
PROJECT NO. U-0620 CUMBERLAND STATION: 184+27.00 -L-

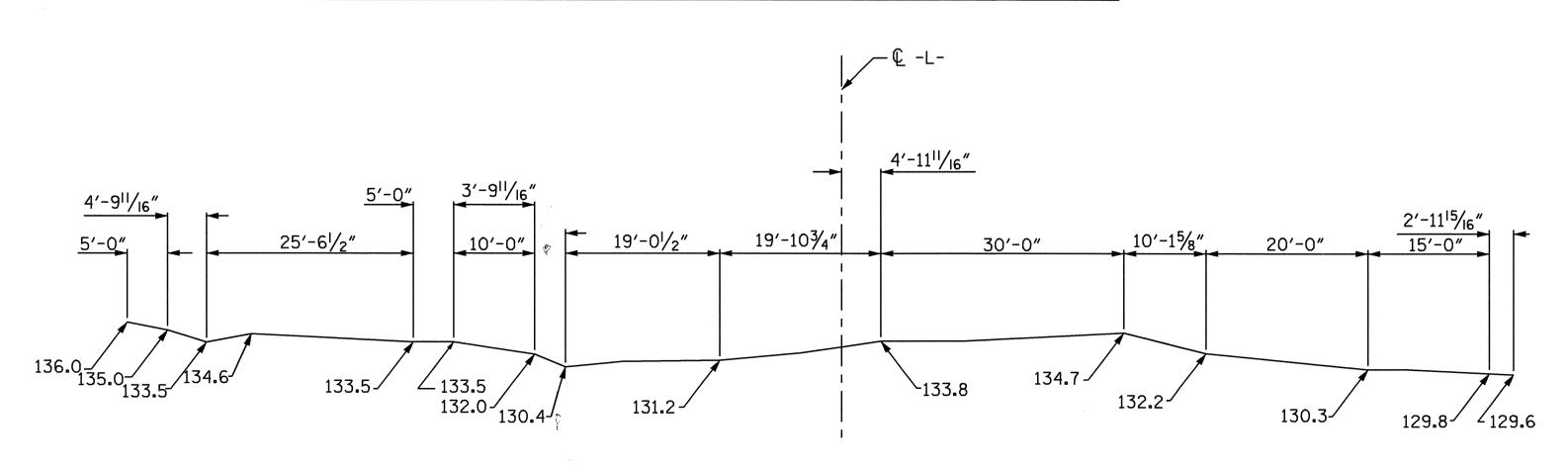
SHEET 1 OF 6

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

SINGLE 9 FT. X 5 FT. CONCRETE BOX CULVERT 90° SKEW

AUGUST					1989
REVISIONS					SHEET NO.
BY:	DATE:	NO.	BY:	DATE:	C-18
		3			TOTAL SHEETS
		141			7 23





PROFILE ALONG © CULVERT

DRAWN BY: \_\_\_\_\_J.B. WILSON \_\_\_\_ DATE: \_\_9/03 CHECKED BY: <u>G.M. Patterson</u> DATE: <u>1/ 04</u>

CTD #7

OF ALL VERTICAL WALLS.

2. THE REMAINING PORTIONS OF THE WALLS AND WINGS FULL HEIGHT FOLLOWED BY ROOF SLAB AND HEADWALLS.

OF THE FILL.

CLEARANCE.

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 70 FT. LOCATION OF JOINTS SHALL BE SUBJECT TO APPROVAL OF THE ENGINEER.

AT THE CONTRACTORS OPTION, HE MAY SPLICE THE VERTICAL REINFORCING STEEL IN THE INTERIOR FACE OF EXTERIOR WALL 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 3 FOOT STRIP OF FILTER FABRIC SHALL BE ATTACHED TO THE FILL FACE OF

AT THE CONTRACTOR'S OPTION THE VERTICAL CONSTRUCTION JOINT BETWEEN THE OUTLET WINGS AND THE BARREL MAY BE ELIMINATED AND THE 'C' BARS IN THE BARREL MAY BE EXTENDED TO REPLACE 'D' AND 'H' BARS IN THE WINGS AND SLAB.