

NOTES ASSUMED LIVE LOAD ----- HL-93 OR ALTERNATE TRANSVERSE CONSTRUCTION JOINTS SHALL BE USED IN THE BARREL, SPACED TO LIMIT THE POURS TO A MAXIMUM OF 70 LOADING. FT.LOCATION OF JOINTS SHALL BE SUBJECT TO APPROVAL MAX.DESIGN FILL (RIGHT EXTENSION) ----- 36.90 FT. OF THE ENGINEER. MAX. DESIGN FILL (LEFT EXTENSION) ----- 30.22 FT. A 3 FOOT STRIP OF FILTER FABRIC SHALL BE ATTACHED TO THE FILL FACE OF THE WING COVERING THE ENTIRE LENGTH OF THE EXPANSION JOINT. FOR OTHER DESIGN DATA AND NOTES SEE STANDARD NOTE SHEET. AT THE CONTRACTOR'S OPTION, HE MAY SPLICE THE 3"Ø WEEP HOLES INDICATED TO BE IN ACCORDANCE WITH VERTICAL REINFORCING STEEL IN THE INTERIOR FACE OF THE SPECIFICATIONS. EXTERIOR WALLS AND BOTH FACES OF INTERIOR WALLS ABOVE LOWER WALL CONSTRUCTION JOINT. THE SPLICE CONCRETE IN CULVERT EXTENSIONS TO BE POURED IN THE LENGTH SHALL BE AS PROVIDED IN THE SPLICE LENGTH CHART SHOWN ON THE PLANS. EXTRA WEIGHT OF STEEL DUE FOLLOWING ORDER: TO THE SPLICES SHALL BE PAID FOR BY THE CONTRACTOR. PHASE I: EXCAVATE A MINIMUM OF 1 FOOT BELOW CULVERT BEARING ELEVATION AND REPLACE WITH FOUNDATION CONDITIONING 1. WING FOOTINGS AND FLOOR SLAB INCLUDING 4" OF ALL MATERIAL PER SECTION 414 OF THE STANDARD VERTICAL WALLS. SPECIFICATIONS. 2. THE REMAINING PORTIONS OF PHASE I WALLS. UNDERCUT ANY SOFT/LOOSE ALLUVIAL SOILS THAT MAY BE ENCOUNTERED BENEATH THE BOTTOM OF THE FOUNDATION PHASE II: CONDITIONING MATERIAL. BACKFILL UNDERCUT AREAS WITH 3. FLOOR SLAB INCLUDING 4" OF VERTICAL WALL. FOUNDATION CONDITIONING MATERIAL (SELECT MATERIAL CLASS VI; NO. 57 STONE). INCLUDE 200 CUBIC YARDS OF 4. THE REMAINING PORTION OF PHASE II WALL FULL UNDERCUT AND 300 TONS OF FOUNDATION CONDITIONING MATERIAL AS CONTINGENCY ITEMS IN THE CONTRACT FOR HEIGHT FOLLOWED BY ROOF SLAB AND HEADWALL. LEFT CULVERT EXTENSION AND 185 CUBIC YARDS OF UNDERCUT AND 275 TONS OF FOUNDATION CONDITIONING CONCRETE IN 60" Ø PIPE WINGS, FOOTINGS, AND HEADWALL MATERIAL FOR RIGHT CULVERT EXTENSION. THE COST OF THE SHALL BE POURED IN THE FOLLOWING ORDER: CONTINGENCY QUANTITY OF FOUNDATION CONDITIONING MATERIAL SHALL BE PAID FOR AT THE CONTRACT UNIT BID 1. WINGS AND HEADWALL FOOTING UP TO CONSTRUCTION PRICE. THE COST OF THE CONTINGENCY UNDERCUT SHALL BE JOINT. CONSIDERED INCIDENTAL TO THE CULVERT EXCAVATION LUMP 2. REMAINING PORTION OF WINGS AND HEADWALL FULL SUM. HEIGHT. INSTALL TYPE V GEOTEXTILE AT THE BOTTOM OF THE RESIDENT ENGINEER SHALL CHECK THE LENGTH OF EXCAVATION PRIOR TO PLACING FOUNDATION CONDITIONING CULVERT BEFORE STAKING IT OUT TO MAKE CERTAIN THAT MATERIAL. THE GEOTEXTILE SHOULD BE PLACED AT THE IT WILL PROPERLY TAKE CARE OF THE FILL. BOTTOM OF THE EXCAVATION AND WRAPPED UP THE SIDE WALLS OF THE EXCAVATION. INCLUDE 1,200 SQ. YDS. OF TYPE V GEOTEXTILE IN THE CONTRACT FOR LEFT CULVERT DIMENSIONS FOR WING LAYOUT AS WELL AS ADDITIONAL REINFORCING STEEL EMBEDDED IN BARREL ARE SHOWN ON EXTENSION AND 1,100 SQ. YDS FOR RIGHT CULVERT WING SHEET. EXTENSION. THE COST OF TYPE V GEOTEXTILE SHALL BE CONSIDERED INCIDENTAL TO FOUNDATION CONDITIONING DOWELS SHALL BE USED TO CONNECT THE CULVERT MATERIAL. EXTENSION TO THE EXISTING CULVERT AS SHOWN.FOR NOTE REGARDING SETTING OF DOWELS, SEE SHEET SN. FOR GROUT FOR STRUCTURES, SEE SPECIAL PROVISIONS. IF APPROVED BY THE ENGINEER, THE CONTRACTOR MAY USE FOR FALSEWORK AND FORMWORK. SEE SPECIAL PROVISIONS. THE EXISTING WINGS AS TEMPORARY SHORING FOR THE CONSTRUCTION OF THE CULVERT EXTENSIONS. IN THIS CASE, FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL THE BOTTOM SLAB OF THE EXTENSION SHALL BE POURED AT PROVISIONS. LEAST 72 HOURS PRIOR TO CUTTING THE WINGS. THE WINGS MAY BE CUT EARLIER PROVIDED THE SLAB CONCRETE FOR CRANE SAFETY, SEE SPECIAL PROVISIONS. STRENGTH HAS REACHED A MINIMUM COMPRESSIVE STRENGTH OF 1500 PSI. I HEREBY CERTIFY THESE PLANS NO PRECAST REINFORCED BOX CULVERT OPTION WILL BE ARE THE AS-BUILT PLANS ALLOWED. FOR CULVERT DIVERSION DETAILS AND PAY ITEMS, SEE EROSION CONTROL PLANS. FOR EPOXY RESIN INJECTION, SEE SPECIAL PROVISIONS. FOR SHOTCRETE REPAIRS, SEE SPECIAL PROVISIONS. FOR CONCRETE REPAIRS, SEE SPECIAL PROVISIONS. **PROJECT NO.** <u>R-4707</u> Mead GUILFORD COUNTY & Hunt STATION: <u>56+34</u>.85 -L-111 E. Hargett Street EXTENDS CULVERT NO.35 Suite 300 Raleigh, NC 27601 STATE OF NORTH CAROLINA 919-714-8670 DEPARTMENT OF TRANSPORTATION meadhunt.com RALEIGH

NC License No. F-1235

SEAL 043177

DOCUMENT NOT CONSIDERED

SIGNATURES COMPLETED

FINAL UNLESS ALL

Γ.Χ 8 FT.

CULVER

SHEET NO.

C1-01

TOTAL SHEETS

24

FE BOX

60"Ø PIPE

NO. BY:

REVISIONS

DATE:

RIGH

BY:

EXTENSION AND

EXTENSION WITH

DATE:

TOTAL STRUCTURE QUANTITIES		
CULVERT EXCAVATION		LUMP SUM
FOUNDATION COND.MAT'L		
LEFT EXTENSION	451	TONS
RIGHT EXTENSION	419	TONS
TOTAL	870	TONS
CLASS A CONCRETE		
LEFT EXTENSION	853.2	C.Y.
RIGHT EXTENSION	877.9	C.Y.
TOTAL	1,731.1	C.Y.
REINFORCING STEEL		
LEFT EXTENSION	102,286	LBS.
RIGHT EXTENSION	96,215	LBS.
TOTAL	198,501	LBS.
CONCRETE REPAIRS	1.2	CU.FT.
SHOTCRETE REPAIRS	11.5	CU.FT.
EPOXY RESIN INJECTION _	420.0	LIN.FT.