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ROADWAY D	ΑΤΑ
GRADE PT.EL.@ STA. 242+85.00 BED ELEV.@ STA.242+85.00 -L- ROADWAY SLOPE (LEFT)	-L- = 152.68'± = 141.30' = 3 :1
ROADWAY SLOPE (RIGHT)	= 3 :1
HYDRAULIC	DATA
DESIGN DISCHARGE FREQUENCY OF DESIGN FLOOD DESIGN HIGH WATER ELEVATION DRAINAGE AREA BASE DISCHARGE (Q100) BASE HIGH WATER ELEVATION	= 340 CFS = 100 YRS. = 149.4' = 0.64 SQ.MI. = 340 CFS = 149.4'
OVERTOPPING FL	OOD DATA
OT_AT_DRAINAGE_AREA_DIVIDE (- 197.0 ★ @ STA.235+85.00 -L- LT.
TOTAL STRUCTURE QL	JANTITIES
TOTAL STRUCTURE OL Culvert excavation	JANTITIES LUMP SUM
TOTAL STRUCTURE OL Culvert excavation Foundation cond.material	JANTITIES Lump sum
TOTAL STRUCTURE OL CULVERT EXCAVATION FOUNDATION COND.MATERIAL STAGE I	JANTITIES LUMP SUM 137 TONS
TOTAL STRUCTURE OL CULVERT EXCAVATION FOUNDATION COND. MATERIAL STAGE I STAGE II	JANTITIES LUMP SUM 137 TONS 29 TONS
TOTAL STRUCTURE OL CULVERT EXCAVATION FOUNDATION COND. MATERIAL STAGE I STAGE II	JANTITIES LUMP SUM 137 TONS 29 TONS 47 TONS
TOTAL STRUCTURE OL CULVERT EXCAVATION FOUNDATION COND. MATERIAL STAGE I STAGE II STAGE III TOTAL	JANTITIES LUMP SUM 137 TONS 29 TONS 47 TONS 213 TONS
TOTAL STRUCTURE OL CULVERT EXCAVATION FOUNDATION COND. MATERIAL STAGE I STAGE II STAGE III TOTAL CLASS A CONCRETE	JANTITIES LUMP SUM 137 TONS 29 TONS 47 TONS 213 TONS
TOTAL STRUCTURE OL CULVERT EXCAVATION FOUNDATION COND. MATERIAL STAGE I STAGE II STAGE III TOTAL CLASS A CONCRETE STAGE I	JANTITIES LUMP SUM 137 TONS 29 TONS 47 TONS 213 TONS 139.4 C.Y.
TOTAL STRUCTURE OL CULVERT EXCAVATION FOUNDATION COND. MATERIAL STAGE I STAGE II STAGE III TOTAL CLASS A CONCRETE STAGE I	JANTITIES LUMP SUM 137 TONS 29 TONS 47 TONS 213 TONS 139.4 C.Y. 44.5 C.Y.
TOTAL STRUCTURE OL CULVERT EXCAVATION FOUNDATION COND. MATERIAL STAGE I STAGE II STAGE III TOTAL CLASS A CONCRETE STAGE I STAGE II STAGE II	JANTITIES LUMP SUM 137 TONS 29 TONS 47 TONS 213 TONS 139.4 C.Y. 44.5 C.Y. 62.7 C.Y.
TOTAL STRUCTURE OL CULVERT EXCAVATION FOUNDATION COND. MATERIAL STAGE I STAGE II STAGE III TOTAL CLASS A CONCRETE STAGE I STAGE II STAGE II	JANTITIES LUMP SUM 137 TONS 29 TONS 47 TONS 213 TONS 139.4 C.Y. 44.5 C.Y. 62.7 C.Y. 246.6 C.Y.
TOTAL STRUCTURE OL CULVERT EXCAVATION FOUNDATION COND. MATERIAL STAGE I STAGE II STAGE III TOTAL CLASS A CONCRETE STAGE I STAGE II STAGE II STAGE II STAGE II STAGE II	JANTITIES LUMP SUM 137 TONS 29 TONS 47 TONS 213 TONS 139.4 C.Y. 44.5 C.Y. 62.7 C.Y. 246.6 C.Y.
TOTAL STRUCTURE OL CULVERT EXCAVATION FOUNDATION COND. MATERIAL STAGE I STAGE II STAGE III TOTAL CLASS A CONCRETE STAGE I STAGE II STAGE II STAGE III TOTAL REINFORCING STEEL STAGE I	JANTITIES LUMP SUM 137 TONS 29 TONS 47 TONS 213 TONS 139.4 C.Y. 44.5 C.Y. 62.7 C.Y. 246.6 C.Y.
TOTAL STRUCTURE OL CULVERT EXCAVATION FOUNDATION COND. MATERIAL STAGE I STAGE II STAGE III TOTAL CLASS A CONCRETE STAGE I STAGE II STAGE III TOTAL REINFORCING STEEL STAGE I	JANTITIES LUMP SUM 137 TONS 29 TONS 47 TONS 213 TONS 139.4 C.Y. 139.4 C.Y. 62.7 C.Y. 246.6 C.Y. 18,558 LBS. 4,918 LBS.
TOTAL STRUCTURE OL CULVERT EXCAVATION FOUNDATION COND. MATERIAL STAGE I STAGE II STAGE III CLASS A CONCRETE STAGE I STAGE II STAGE II STAGE III REINFORCING STEEL STAGE I STAGE II STAGE II	JANTITIES LUMP SUM 137 TONS 29 TONS 47 TONS 213 TONS 139.4 C.Y. 44.5 C.Y. 62.7 C.Y. 246.6 C.Y. 18,558 LBS. 4,918 LBS. 7,396 LBS.

ASSUMED LIVE LOAD ------ HL-93 OR ALTERNATE LOADING. FOR CULVERT DIVERSION DETAILS AND PAY ITEM, SEE EROSION CONTROL PLANS. FOR CONSTRUCTION SEQUENCE, EROSION CONTROL AND MEASURES, SEE EROSION CONTROL PLANS. DESIGN FILL----- 4.74 FT. 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: STAGE I - CONSTRUCT RCBC INTERMEDIATE SECTION. 1. FLOOR SLAB INCLUDING 4" OF BOTH VERTICAL WALLS. 2. FOLLOWED BY NATIVE MATERIAL BACKFILL AND ROOF SLAB. STAGES II & III - CONSTRUCT RCBC SECTION AT BOTH OUTLET AND INLET ENDS. 1. WING FOOTINGS AND FLOOR SLAB INCLUDING 4" OF BOTH VERTICAL WALLS. 2. SILL WITH NATIVE MATERIAL BACKFILL. 3. FOLLOWED BY THE WING WALLS FULL HEIGHT. ROOF SLAB AND HEADWALL. THE CONTRACTOR 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 70 FEET.LOCATION OF JOINTS SHALL BE SUBJECT TO APPROVAL OF THE ENGINEER. 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 SHALL BE PAID FOR BY CONTRACTOR. AT THE CONTRACTOR'S 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 THE WING COVERING THE ENTIRE LENGTH OF THE EXPANSION JOINT. NO PRECAST REINFORCED BOX CULVERT OPTION WILL BE ALLOWED. FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS. FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS. FOR CRANE SAFETY, SEE SPECIAL PROVISIONS. FOR GROUT FOR STRUCTURES, SEE SPECIAL PROVISIONS. FOR TRAFFIC PHASING, LIMITS OF TEMPORARY SHORING, SEE TRAFFIC CONTROL PLANS. FOR PAY ITEM FOR TEMPORARY SHORING, SEE ROADWAY PLANS. FOUNDATION NOTES BACKFILL WITH SELECT MATERIAL, CLASS VI MEETING THE REQUIREMENTS OF SECTION 1016 OF THE STANDARD SPECIFICATIONS.

SEE SECTION 414 OF THE STANDARD SPECIFICATIONS FOR CULVERT EXCAVATION AND BACKFILLING.EXCAVATE 1 FOOT BELOW CULVERT AND FOOTING AND REPLACE WITH FOUNDATION CONDITIONING MATERIAL IN ACCORDANCE WITH ARTICLE 414-4 OF THE STANDARD SPECIFICATIONS.

	PROJECT NO. <u>I-5987A</u> <u>ROBESON</u> COUNTY STATION: <u>242+85.00 -L-</u> SHEET 1 OF 8
	STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH BARREL STANDARD
CONSIDERED ESS ALL COMPLETED SEAL IG301	SINGLE 8 FT.X 7 FT. CONCRETE BOX CULVERT 121°SKEW
DWG. No. <i>DWG. No.</i> <i>Ting Fang</i> <i>60E43C9AEA60462</i> <i>3/18/2022</i>	REVISIONS SHEET NO. NO. BY: DATE: NO. BY: DATE: C2O-1 1 3 3 3 3 TOTAL SHEETS 2 4 3 3 8