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STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PROJECT REFERENCE NO.	SHEET NO.
B-5139	3-A

SUMMARY OF EARTHWORK

STATION	STATION	UNCL. EXCAV.	EMBANK. +%	BORROW	WASTE
L 17+00.00	L 19+12.65	12	165	153	
SUBTOTALS:		12	165	153	
L 19+76.35	L 21+50.00	31	79	48	
SUBTOTALS:		31	79	48	
PROJECT SUBTOTALS:		43	244	201	
LOSS DUE TO CLEARING & GRUBBING					
PROJECT TOTALS:		43	244	201	
5% TO REPLACE TOPSOIL ON BORROW PIT				10	
GRAND TOTALS:		43	244	211	
SAY:		100		250	

CONTINGENCY PAY ITEMS
UNDERCUT EXCAVATION = 100 CY
SELECT GRANULAR MATERIAL = 50 CY
GEOTEXTILE FOR SOLI STABILIZATION = 100 SY
SUBDRAIN EXCAVATION = 23 CY
SUBDRAIN FINE AGGREGATE = 17 CY
6" PERFORATED SUBDRAIN PIPE = 100 LF
SUBDRAIN PIPE OUTLET = 1 EACH
6" OUTLET PIPE = 6 LF

PAVEMENT REMOVAL SUMMARY

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	YD^2
L	19+00.00	19+27.13	CL	64.55
L	19+62.20	19+90.00	CL	66.68
L	20+00.00	21+50.00	RT	91.12
			TOTAL:	222.35
			SAY:	235.00

Note: Approximate quantities only. Unclassified Excavation, Borrow Excavation, Shoulder Borrow, Fine Grading, Clearing and Grubbing, Breaking of Existing Pavement, and Removal of Existing Pavement will be paid for at the contract lump sum price for "Grading."

RIGHT OF WAY AREA DATA

PARCEL NO.	PROPERTY OWNERS NAMES	TOTAL ACREAGE	AREA TAKEN	AREA REMAINING RT.	AREA REMAINING LT.	CONST. EASE.	PERM. DRAIN. EASE.	TEMP. DRAIN. EASE.
	MRS. C.P. PRITCHARD, HEIRS		NO CLAIM					
	ROBERT W. BIGGS		NO CLAIM					
	DU CHENG CHANG		NO CLAIM					
	CHRISTOPHER C. BRAY		NO CLAIM					
	BUROME V. BRUMFIELD		NO CLAIM					
	ARTHUR JOHNSON		NO CLAIM					

SHOULDER BERM GUTTER SUMMARY

SURVEY LINE	STATION	STATION	LENGTH
L LT	18+87.00	19+00.74	13.74'
		TOTAL:	13.74'
		SAY:	20.00'

SUB-REGIONAL & REGIONAL LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48" & UNDER)

NOTE: INVERT ELEVATIONS INDICATED ARE FOR BID PURPOSES ONLY AND SHALL NOT BE USED FOR PROJECT CONSTRUCTION STAKEOUT. SEE "STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES, SECTION 300-5".

STATION / SIZE / THICKNESS OR GAUGE	LOCATION (LT,RT, OR CL)	STRUCTURE NO. FROM	STRUCTURE NO. TO	TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	SLOPE CRITICAL	DRAINAGE PIPE (RCP, CSP, CAAP, HDPE, or PVC) 12"	15"	18"	24"	30"	36"	42"	48"	DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE
L 18+90.50	LT																		

STATION	C.S. PIPE 12" .064	15" .064	18" .064	24" .064	36" .079	42" .109	48" .109	R.C. PIPE (CLASS III) 15"	18"	24"	30"	36"	42"	48"	R.C. PIPE (CLASS IV) 12"	15"	18"	24"	30"	36"	42"	48"
L 18+90.50																						

STATION	**" R. C. PIPE (CLASS V)	**" R. C. PIPE CULVERTS, CONTRACTOR DESIGN PIPE	**" R. C. PIPE CULVERTS, CONTRACTOR DESIGN PIPE	15" SIDE DRAIN PIPE	18" SIDE DRAIN PIPE	ENDWALLS STD. 838.01, STD. 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE) CU. YDS. R.C.P.	C.S.P.	QUANTITIES FOR DRAINAGE STRUCTURES PER EACH (0' THRU 5.0')	* TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL.'B') LIN. *FT. A 5.0' THRU 10.0'	B 10.0' AND ABOVE	C.B. STD. 840.01 OR STD. 840.02	FRAME, GRATES AND HOOD STANDARD 840.03 TYPE OF GRATE E	F	G		CONCRETE TRANSITIONAL SECTION CATCH BASIN	DROP INLET
L 18+90.50																	

STATION	G.D.I. TYPE "B" STD. 840.18 OR 840.27	G.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.24	T.B.D.I. STD. 840.35	G.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.29	M.H. FRAME & COVER STD. 840.54	J.B. STD. 840.31 OR 840.32	MODIFIED CONCRETE FLUME	CONC. COLLARS CL. "B" C.Y. STD 840.72	CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71	PIPE REMOVAL LIN.FT.	REMARKS
L 18+90.50							1				SEE SHEET 2-A
							1				

ABBREVIATIONS

C.B. CATCH BASIN
N.D.I. NARROW DROP INLET
D.I. DROP INLET
G.D.I. GRATED DROP INLET
G.D.I. (N.S.) GRATED DROP INLET (NARROW SLOT)
J.B. JUNCTION BOX
M.H. MANHOLE
T.B.D.I. TRAFFIC BEARING DROP INLET
T.B.J.B. TRAFFIC BEARING JUNCTION BOX

"N" = DISTANCE FROM EDGE OF LANE TO FACE OF GUARDRAIL.
TOTAL SHOULDER WIDTH = DISTANCE FROM EDGE OF TRAVEL LANE TO SHOULDER BREAK POINT.
FLARE LENGTH = DISTANCE FROM LAST SECTION OF PARALLEL GUARDRAIL TO END OF GUARDRAIL.
W = TOTAL WIDTH OF FLARE FROM BEGINNING OF TAPER TO END OF GUARDRAIL.
G = GATING IMPACT ATTENUATOR TYPE 350
NG = NON-GATING IMPACT ATTENUATOR TYPE 350

GUARDRAIL SUMMARY

SURVEY LINE	BEG. STA.	END STA.	LOCATION	LENGTH STRAIGHT	LENGTH SHOP CURVED	DOUBLE FACED	WARRANT POINT APPROACH END	WARRANT POINT TRAILING END	"N" DIST. FROM E.O.L.	TOTAL SHOUL. WIDTH	FLARE LENGTH APPROACH END	FLARE LENGTH TRAILING END	W APPROACH END	W TRAILING END	ANCHORS XI MOD	TYPE III	GRAU 350 TL-2	M-350	B-77	CAT-1	VI MOD	BIC	AT-1	IMPACT ATTENUATOR TYPE 350 EA	G	NG	SINGLE FACED GUARDRAIL	REMOVE EXISTING GUARDRAIL	REMOVE AND STOCKPILE EXISTING GUARDRAIL	REMARKS
L	18+61.85	19+11.85	LT	50.00'				19+11.85	5.42'	7.42'		25.00'		1.00'		1	1													
L	17+21.14	19+13.41	RT	192.27'			17+50.00		5.42'	7.42'	25.00'		1.00'			1	1													
L	19+77.15	20+27.15	LT	50.00'			19+77.15		5.42'	7.42'	25.00'		1.00'			1	1													
L	19+75.59	20+25.59	RT	50.00'				19+75.59	5.42'	7.42'		25.00'		1.00'		1	1													
			PROJECT SUBTOTAL	342.27'												4	4													
			LESS ANCHOR DEDUCTIONS	(-) 175.00'												GUARDRAIL ANCHOR DEDUCTIONS														
			PROJECT TOTAL	167.27'												TYPE III = 4 @ 18.75' = 75.00'														
																GRAU 350 TL-2 = 4 @ 25.00' = 100.00'														
			SAY	175.00'		ADDITIONAL GUARDRAIL POSTS = 5 EACH										= 175.00'														

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