COMPUTED BY: EM DATE: 6-13-2017
CHECKED BY: _____ DATE: _____

PROJECT REFERENCE NO.	SHEET NO.
B-5602	3B-1

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SUMMARY OF EARTHWORK
IN CUBIC YARDS
SUMMARY OF EARTHWORK

STATION	STATION	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBT +%	BORROW	WASTE
-L- 10+50.00	14+49.48	9		1,339	1,330	
-L- 16+72.70	19+50.00	6		930	924	
	SUBTOTAL	**15**		**2,269**	**2,254**	
					0	
						0
	SUBTOTAL	**0**		**0**	**0**	**0**
					0	
	SUBTOTAL	**0**		**0**	**0**	**0**
	TOTAL	**15**		**2,269**	**2,254**	**0**
MATERIAL FOR SHOULDER CONSTRUCTION					0	
LOSS DUE TO CLEARING & GRUBBING						
WASTE IN LIEU OF BORROW						
PROJECT TOTAL		**15**		**2,269**	**2,254**	**0**
EST. 5% TO REPLACE TOP SOIL ON BORROW PIT					113	
GRAND TOTAL		**15**			**2,367**	
SAY		**15**			**2,370**	

NOTE:

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

REMOVAL OF EXISTING ASPHALT PAVEMENT

LINE	STATION FROM	STATION TO	LOCATION	AREA (SQ. FT.)	AREA (SQ. YDS.)
-L-	14+25.00	14+66.40	LT & RT	880.37	97.82
-L-	16+41.83	16+95.00	LT & RT	1139.70	126.63
				TOTAL	224.45
				SAY	230

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

STATION / SIZE / THICKNESS OR GAUGE	LOCATION (LT,RT, OR CL)	STRUCTURE NO. FROM	STRUCTURE NO. TO	TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	DRAINAGE PIPE (RCP, CSP, CAAP, HDPE, or PVC) 12"	15"	18"	24"	30"	36"	R.C. PIPE (CLASS IV) 12"	15"	18"	24"	30"	36"	QUANTITIES FOR DRAINAGE STRUCTURES * TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. "A" + (1.3 X COL. "B") PER EACH (0' THRU 5.0')	LIN. *FT. A 5.0' THRU 10.0'	LIN. *FT. 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	T.B.D.I. STD. 840.35	G.D.I. FRAME WITH TWO GRATES STD. 840.22	G.D.I. (N.S.) FRAME WITH GRATE STD. 840.29	G.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.29	PIPE REMOVAL LIN.FT.	REMARKS
-L- 16+87	RT	0401																	1									1			1		TRAFFIC BEARING DROP INLET
		0401	0402												36																		
-L- 17+05	LT	0402																	1									1			1		TRAFFIC BEARING DROP INLET
		0402	0403												92																		
-L- 18+00	LT	0403																	1									1			1		
		0403	0404						16																								
-L- 18+00	LT	0404																															PSH
TOTALS									16						128				3									3			3		

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	LENGTH 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	XI	GREU 350	M-350	TYPE III	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-	11+39.81	14+39.81	RT	300.00			14+39.81		4.75	8	50		1				1		1											
-L-	16+62.69	18+00.19	RT	137.50				18+00.19	4.75	8		50		1			1		1											
-L-	13+21.65	14+59.15	LT	137.50				13+21.65	4.75	8		50		1			1		1											
-L-	16+82.09	19+82.09	LT	300.00			16+82.09		4.75	8	50		1				1		1											
SUBTOTAL				875.00													4		4											
LESS ANCHOR DEDUCTIONS																														
GREU-350	4 @ 50			-200																										
TYPE III	4 @ 18.75			-75																										
TOTAL				600.00													4		4											
SAY				600.00		5 ADDITIONAL GUARDRAIL POSTS																								

5/9/06
7/31/2017
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