

12/06/07

COMPUTED BY: CJT DATE: 5/13/2015  
 CHECKED BY: DJC DATE: 8/05/2015

STATE OF NORTH CAROLINA  
 DIVISION OF HIGHWAYS

PROJECT REFERENCE NO. SHEET NO.  
 W-5206AM 3B-1

**SUMMARY OF EARTHWORK**

STATION	STATION	UNCL. EXCAV.	EMBANK. +%	BORROW	WASTE
-L- STA. 38+50	-L- STA. 42+00	149	166	17	
-L- STA. 74+00	-L- STA. 76+00	116			116
-L- STA. 107+50	-L- STA. 108+00	19	18		2
-L- MED. STA. 44+57.96	-L- MED. STA. 49+74.44		223	223	
-L- MED. STA. 56+35.41	-L- MED. STA. 58+87.38		106	106	
SUBTOTALS:		284	512	346	118
-L- MED. STA. 65+17.32	-L- MED. STA. 71+77.98		285	285	
-L- MED. STA. 78+07.98	-L- MED. STA. 86+23.28		346	346	
-L- MED. STA. 93+06.30	-L- MED. STA. 108+15.91		915	915	
-L- MED. STA. 147+47.96	-L- MED. STA. 150+40.45		100	100	
SUBTOTALS:			1,646	1,646	
SUBTOTALS:					
TOTAL		284	2,158	1,992	118
WASTE IN LIEU OF BORROW				-118	-118
PROJECT TOTALS:		284	2,158	1,874	
EST. 5% TO REPLACE TOP SOIL ON BORROW PIT				94	
GRAND TOTALS:			2,158	1,967	
SAY:		300		2,000	

**PAVEMENT REMOVAL SUMMARY**

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	YD <sup>2</sup>
-L-	28+12	32+82	CL	574.89
-L-	44+58	49+74	CL	57.39
-L-	44+58	49+74	CL	57.39
-L-	56+35	58+87	CL	27.99
-L-	56+35	58+87	CL	28.00
-L-	65+17	71+78	CL	73.41
-L-	65+17	71+78	CL	73.41
-L-	78+08	86+23	CL	90.59
-L-	78+08	86+23	CL	90.59
-L-	93+06	108+15	CL	169.10
-L-	93+06	108+15	CL	167.59
-L-	147+48	150+40	CL	32.52
-L-	147+48	150+40	CL	32.52
TOTAL:				1,475.38
SAY:				1,480

Earthwork quantities are calculated by the Roadway Design Unit. These earthwork quantities are based in part on subsurface data provided by the Geotechnical Engineering Unit.

Approximate quantities only. Unclassified excavation, borrow excavation, fine grading, clearing and grubbing, and removal of existing pavement will be paid for at the lump sum price for "Grading".

"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			WARRANT POINT		"N" DIST. FROM E.O.L.	TOTAL SHOUL. WIDTH	FLARE LENGTH		W		ANCHORS							IMPACT ATTENUATOR TYPE 350			SINGLE FACED GUARDRAIL	REMOVE EXISTING GUARDRAIL	REMOVE AND STOCKPILE EXISTING GUARDRAIL	REMARKS						
				STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END			APPROACH END	TRAILING END	XI MOD	XI	GRAU 350	M-350	XIII	CAT-1	VI MOD	BIC	AT-1	EA	G	NG										
-L-	32+09.97	33+09.97	CL	100'					11.5'	11.5'	50'																						EXIST. G.R. EXTENDED TO PREVENT MEDIAN CROSSING	
PROJECT TOTAL				100'																														
ANCHOR UNIT DEDUCTION																																		
GRAU 350																																		
TOTAL																																		
SAY																																		
ADDITIONAL GUARDRAIL POSTS																																		

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