

COMPUTED BY: HEC DATE: 8-30-2017
 CHECKED BY: RAT DATE: 9-14-2017

STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS

PROJECT REFERENCE NO. SHEET NO.
 B-5320 3B-1



434 Fayetteville Street Suite 1500
 Raleigh, NC 27601 - 919.836.4040
 www.wspgroup.com
 LICENSE NO. F-0891

PAVEMENT REMOVAL SUMMARY

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	YD
L	14+40.00	14+99.00	CL	136.14
L	16+98.00	17+55.00	CL	132.77
TOTAL:				268.91
SAY:				270

SHOULDER BERM GUTTER SUMMARY

SURVEY LINE	STATION	STATION	LENGTH
L	17+23.65	17+55.00	31.35
TOTAL:			31.35
SAY:			40

SUMMARY OF EARTHWORK

STATION	STATION	UNCL. EXCAV. CY	EMBANK. +% CY	BORROW CY	WASTE CY
12+10.00	14+91.56	105	526	421	
17+04.44	19+68.00	52	338	286	
SUBTOTALS:		157	864	707	
EST. 5% TO REPLACE TOP SOIL BORROW				35	
PROJECT TOTALS:		157	864	742	
GRAND TOTALS:					
SAY:		160		750	

UNDERCUT EXCAVATION: 200 CY
 SELECT GRANULAR MATERIAL: 200 CY
 GEOTEXTILE FOR SOIL STABILIZATION: 200 SY
 DDE: 12 CY

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 contract 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	APPROACH END	TRAILING END	XI MOD	TYP III	GREU TL-3	M-350	XIII	CAT-1	VI MOD	BIC	AT-1	EA	G	NG												
				EA	G	NG																																
L	13+58.66	15+03.44	LT	143.75				15+02.77 BRIDGE	5'-11"	8'-11"		125'-0"		2'-1"		1	1																					
L	17+12.09	17+87.11	LT	43.75	37.5			17+12.79 BRIDGE	5'-11"	8'-11"						1																				ATTACH TO EXISTING GUARDRAIL		
L	13+04.68	14+85.64	RT	181.25				14+84.97 BRIDGE	2'-11"	5'-11"	162'-6"		3'-6"		1	1																						
L	16+94.29	19+00.28	RT	206.25				16+94.99 BRIDGE	2'-11"	5'-11"		187'-6"		4'-7"		1	1																					
SUBTOTAL				575'	37.5'																																	
LESS DEDUCTIONS																																						
GREU TL-3 (3 x 50) =				150'																																		
TYPE III (4 x 18.75) =				75'																																		
SUBTOTAL				225'																																		
TOTALS				350'	37.5'																																	
SAY				350'	37.5'			ADDITIONAL GUARDRAIL POSTS = 5																														