

SUMMARY OF BREAKING EXISTING ASPHALT PAVEMENT

SURVEY LINE	STATION	STATION	LOCATION L/R/T/CL	YD'
-L-	16+00.00	17+10.00	CLRT	276.97
-L-	19+40.00	20+50.00	LTCL	275.16
TOTAL:				552.13
SAY:				580

ASPHALT PAVEMENT REMOVAL SUMMARY

SURVEY LINE	STATION	STATION	LOCATION L/R/T/CL	YD'
-L-	15+00.00	16+00.00	CL	248.25
-L-	17+10.00	17+59.00	CL	109.68
-L-	18+92.00	19+40.00	CL	106.05
-L-	20+50.00	21+00.00	CL	123.77
TOTAL:				587.75
SAY:				620

SHOULDER BERM GUTTER SUMMARY

SURVEY LINE	STATION	STATION	LENGTH
-L-	16+36.66(LT)	17+11.47(LT)	74.81
-L-	19+23.87(LT)	19+33.86(LT)	9.99
TOTAL:			84.80
SAY:			90

SUMMARY OF EARTHWORK (VOLUMES IN CY)

LINE	STATION	STATION	UNCL. EXCAV.	EMBANK. +%	BORROW	WASTE
		(BEG. BRIDGE)				
-L-	12+30.00	17+42.00	138	2,665	2,527	
-DR-	10+14.00	12+55.71	13	844	831	
SUBTOTALS:			151	3,509	3,358	
		(END BRIDGE)				
-L-	19+07.00	23+17.00	168	3,766	3,598	
SUBTOTALS:			168	3,766	3,598	
TOTALS:			319	7,275	6,956	
MATERIAL FOR SHOULDER CONSTRUCTION				356	356	
PROJECT TOTALS:			319	7,631	7,312	
EST. 5% TO REPLACE TOPSOIL ON BORROW PIT					366	
GRAND TOTALS:			319	7,631	7,678	
SAY:			350		8,450	

PAVEMENT STRUCTURE VOLUME = 1,195 CY
 PER GEOTECH RECOMMENDATIONS DATED FEB. 2,2022, ESTIMATED 300 CUBIC YARDS OF UNDERCUT TO BE USED AT THE DISCRETION OF THE RESIDENT ENGINEER.

Note: Earthwork quantities are calculated by WSP USA E&I, Inc. These earthwork quantities are based in part on subsurface data provided by the Geotechnical Engineering Unit.

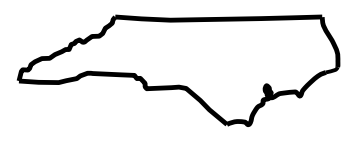
Note: Approximate quantities only. Clearing and Grubbing, Unclassified Excavation, Fine Grading, Removal of Existing Asphalt Pavement, and Breaking of Existing Asphalt Pavement will be paid for at the contract lump sum price for "Grading."

"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	GREU TL-3	III	B-77	CAT-1	AT-1	EA	G	NG							
-L-	14+39.135	17+49.51	RT	310.375					8	11	50		1			1		1						270.7			
-L-	15+86.565	17+34.44	LT	147.875					8	11		125		2.5		1		1						101.8			
-L-	18+98.85	22+09.225	LT	310.375					8	11	50		1			1		1						303.0			
-L-	19+15.10	22+87.975	RT	372.875					8	11		50		1		1		1						127.0			
SUBTOTALS				1,141.500												4		4							802.5		
ANCHOR DEDUCTIONS:																											
4 B-77 @ 22.875				-91.50																							
4 GREU @ 50.00				-200.00																							
TOTALS:				850.00												4		4							825.0		
SAY:				875.00											4		4										
ADDITIONAL GUARDRAIL POSTS = 5 EA																											

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



ROADWAY DESIGN UNIT

PREPARED BY
WSP

434 FAYETTEVILLE ST. #1500
 RALEIGH, N.C. 27601
 NC ENG P-1253

PRELIMINARY PLANS
 DO NOT USE FOR CONSTRUCTION