

COMPUTED BY: CBP DATE: 3/18/2021  
 CHECKED BY: JLT DATE: 5/2/2018

PROJECT NO. SHEET NO.  
 15614.1075010 3B-1

### STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

#### SUMMARY OF EARTHWORK IN CUBIC YARDS

Station	Station	Uncl. Excav. +%	Embank. +%	Borrow	Waste
-I26- 450+50.00, LT	-I26- 477+31.25, LT	1,137	9	0	1,128
-I26- 450+40.00, RT	-I26- 482+65.00, RT	1,653	1,068	0	585
-I26- 483+18.56, CL	-I26- 497+50.00, CL	1,120	115	0	1,005
<b>TOTALS:</b>		3,910	1,192	0	2,718
MATERIAL FOR SHOULDER CONST.					
LOSS DUE TO CLEARING & GRUBBING					
WASTE IN LIEU OF BORROW					
<b>PROJECT TOTALS:</b>		3,910	1,192	0	2,718
EST. 5% TO REPLACE TOP SOIL ON BORROW PIT				0	
<b>GRAND TOTALS:</b>		3,910	1,192	0	2,718
<b>SAY:</b>		<b>4,400</b>		<b>0</b>	

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

#### PAVEMENT REMOVAL SUMMARY IN SQUARE YARDS

Survey Line	Station	Station	Location LT/RT/CL	Asphalt Removal	Asphalt Breakup	Concrete Removal	Concrete Breakup
-I26-	450+50	477+31.25	LT	1043.92			
-I26-	450+40	482+65	RT	3865.33			
-I26-	483+18.56	497+50	CL	1664.71			
<b>TOTAL</b>				6,573.96			
<b>SAY</b>				<b>6,580</b>			

#### SHOULDER BERM GUTTER SUMMARY IN FEET

LINE	STATION	STATION	LOCATION	LENGTH
-I26-	451+00	476+00	LT	2,500.00
			<b>TOTAL</b>	<b>2,500.00</b>
			<b>SAY</b>	<b>2,500</b>

EST. DDE = 3,190 CUBIC YARDS  
 EST. SHALLOW UNDERCUT: 100 CY  
 EST. SELECT GRANULAR MATERIAL: 400 CY  
 GEOTEXTILE FOR SOIL STABILIZATION: 700 SY  
 CLASS IV SUBGRADE STABILIZATION: 200 TONS  
 PER GEOTECH RECOMMENDATION, ESTIMATED 400 CUBIC YARDS OF UNDERCUT TO BE USED AT THE DISCRETION OF THE RESIDENT ENGINEER.

"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 IN FEET

LINE	BEG. STA.	END STA.	LOC.	LENGTH (LF)			WARRANT POINT		"N" DIST. FROM E.O.L.	TOTAL SHLDR WIDTH	FLAIR LENGTH		W		ANCHORS (EA)			IMP. ATTEN. TYPE TL-3 EA	REMOVE EXISTING GUARDRAIL (LF)	EXTRA LENGTH POSTS (EA)	REMARKS
				STRAIGHT	SHOP CURVED	DOUBLE FACED	APPR. END	TRAIL. END			APPR. END	TRAIL. END	APPR. END	TRAIL. END	CAT-1	B-77					
-I26-	450+50.00	477+31.25	LT	2,681.25					14'									2681.25	430	Shoulder Berm Gutter; Use Extra Depth Posts	
-I26-	483+18.56	497+50.00	CL, LT	1,431.44					10'									1431.44	230	Use Extra Depth Posts	
-I26-	483+18.56	497+50.00	CL, RT	1,431.44					10'	125'	2.5'							1431.44	230	Use Extra Depth Posts	
-HGR-	34+25.00	36+00.00	LT	175.00														175			
-HGR-	52+00.00	53+25.00	LT	125.00														125			
<b>SUB-TOTALS</b>				5,844.13														5844.13	890		
<b>LESS ANCHOR DEDUCTIONS</b>																					
	CAT-1	1@6.25 ft		6.25																	
	B-77	1@22.875 ft		22.88																	
<b>ANCHOR TOTALS</b>				29.13																	
<b>GRAND-TOTALS</b>				<b>5,815.01</b>															<b>5844.13</b>	<b>890</b>	
<b>SAY</b>				<b>5,825</b>														<b>5850</b>	<b>890</b>		

ADDITIONAL GUARDRAIL POSTS = 5 EA