

# STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

## SUMMARY OF EARTHWORK IN CUBIC YARDS

Station	Station	Uncl. Excav.	Embank. +%	Borrow	Waste
-DET- 11+25	-DET- 14+68.29	3	327	324	
-DET- 15+38.29	-DET- 20+00	55	794	739	
<b>SUBTOTALS:</b>		58	1121	1063	
-L- 11+00	-L- 14+21.49	272	226		45
-L- 14+91.49	-L- 18+25	522	155		367
<b>SUBTOTALS:</b>		794	381		412
DETOUR REMOVAL					1024
-L- 11+50	-L- 14+00	285	14		
-L- 15+00	-L- 18+25	764	12		
<b>SUBTOTALS:</b>		1049	26		1024
<b>TOTALS:</b>		1901	1528	1063	1436
<b>PROJECT TOTALS:</b>		1901	1528	1063	1436
<b>GRAND TOTALS:</b>		1901	1528	1063	1436
<b>SAY:</b>		1950			

EST. DDE = 570 CUBIC YARDS  
 SELECT GRANULAR MATERIAL = 1000 CUBIC YARDS  
 UNDERCUT EXCAVATION = 1000 CUBIC YARDS  
 SHALLOW UNDERCUT = 100 CUBIC YARDS  
 CLASS IV SUBGRADE STABILIZATION = 190 TONS

CONTINGENCY  
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Note: 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.

Note: Approximate quantities only. Unclassified Excavation, Borrow Excavation, Fine Grading, Clearing and Grubbing and Removal of Asphalt Pavement will be paid for at the contract 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
L	13+69.88	14+19.88	CL	79.34			
L	14+92.13	15+42.13	CL	75.26			
L	12+16.96	14+43.43	LT	44.93			
L	14+71.82	18+47	LT	95.01			
DET	11+17.45	14+69.90	CL	403.63			
DET	15+36.68	19+92.22	CL	816.44			
<b>TOTAL:</b>				1514.61			
<b>SAY:</b>				1600			

## SHOULDER BERM GUTTER SUMMARY

LINE	Station	Station	LENGTH
-L-	13+96.00	14+09.49	13.5
-L-	15+03.49	15+17.00	13.5
-L-	13+96.00	14+09.49	13.5
-L-	15+03.49	15+17.00	13.5
<b>TOTAL:</b>			54
<b>SAY:</b>			54

"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

## GUARDRAIL SUMMARY

G = GATING IMPACT ATTENUATOR TYPE 350  
 NG = NON-GATING IMPACT ATTENUATOR TYPE 350

SURVEY LINE	BEG. STA.	END STA.	LOCATION	LENGTH			WARRANT POINT		"N" DIST. FROM E.O.L.	TOTAL SHLDR WIDTH	FLARE LENGTH		W		ANCHORS							IMPACT ATTENUATOR TYPE 350		SINGLE FACED CONCRETE BARRIER	REMOVE EXISTING GUARDRAIL	REMOVE & STOCKPILE EXISTING GUARDRAIL	REMARKS	
				STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END			APPROACH END	TRAILING END	APPROACH END	TRAILING END	XI MOD	XI	GRAU (TL-2) 350	TYPE III	XIII	CAT-1	VI MOD	BIC	G					NG
L	13+63.63	14+19.88	LT	56.25				14+19.88	2'	5'																		BRIDGE
L	14+92.13	15+48.38	LT	56.25				14+92.13	2'	5'	25'	25'	0.5'	0.5'														BRIDGE
L	13+63.13	14+19.88	RT	56.25				14+19.88	2'	5'	25'	25'	0.5'	0.5'														BRIDGE
L	14+92.13	15+48.38	RT	56.25				14+92.13	2'	5'	25'	25'	0.5'	0.5'														BRIDGE
<b>SUBTOTAL</b>				225.00																								
LESS DEDUCTIONS FOR ANCHORS																												
4 GRAU 350 TL-2 @ 25'				-100																								
4 TYPE III STRU. ANCHORS @ 18.75'				-75																								
<b>TOTAL</b>				50.00																								
ADDITIONAL GUARDRAIL POSTS = 5 EA																												
<b>TEMPORARY GUARDRAIL SUMMARY</b>																												
DET	14+13.65	14+69.90	LT	56.25				14+69.90	1'	4'																		TEMPORARY GUARDRAIL
DET	15+39.90	15+96.15	LT	56.25				15+39.90	1'	4'	25'	25'																TEMPORARY GUARDRAIL
DET	14+10.43	14+66.68	RT	56.25				14+66.68	1'	4'																		TEMPORARY GUARDRAIL
DET	15+36.68	15+92.93	RT	56.25				15+36.68	1'	4'																		TEMPORARY GUARDRAIL
<b>SUBTOTAL</b>				225.00																								
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