		TO		EXCAV	ATION	EMBANKMENT		WASTE
CHAIN	FROM STATION	TO STATION	SIDE	UNCL. EXCAVATION	UNDERCUT	EMBANK. +%	BORROW	TOTAL
-L-	14+00.00	27+14.00	LT & RT	26,162		7,630		18,532
-L-	28+44.00	41+00.00	LT & RT	2,210	880	12,095	9,885	880
TOTAL				28,372	880	19,724	9,885	19,412
LOSS DUI	E TO CLEARING	& GRUBBING		-500				-500
ADDITION	IAL UNDERCUT				450			450
ROCK TO	REPLACE EARTH	EMBANKMENT					-9,885	-9,885
ADJUST F	OR ROCK SWELL					_1,977	-1977	
ELIMINATE	e earth shrinka	GE FACTOR SINC	E NOW ROCK				1,977	1,977
PROJECT	TOTAL			27,872	1,330	17,747		11,455
GRAND T	OTAL				1,330	17,747		11,455
SAY				28,000	1,400			

"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

SURVEY LINE	SURVEY BEG. STA. END STA.				LENGTH	IGTH WARRANT		T POINT	″N″ DIST.	TOTAL	FLARE LENGTH W		W	ANCHORS			IMPACT ATTENUATOR	SINGLE FACED GUARDRAIL	REMOVE	REMOVE AND STOCKPILE						
LINE	DEG. STA.	END STA.	LOCATION	STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END	FROM E.O.L.	SHOUL. WIDTH	APPROACH END	TRAILING END	APPROACH END	TRAILING END	XI MOD	B–77 .	Greu Gr TL-3 TL	REU TYPE III .–2	CAT-1	TEMP GREU TEMP TL–2	AT_1	TYPE 350 EA G NG		GUARDRAIL	EXISTING GUARDRAIL	REMARKS
-L-	25+78.64	27+14.00	LT	135.375				27+14.00	4.0 - 6.2	7.0 – 9.2		112.50		2.2		1	1									
-L-	24+16.17	27+14.00	RT	297.875			27+14.00		4.0 - 9.5	7.0 – 12.5	275.00		5.5			1	1									
L	28+44.00	31+41.83	LT	297.875			28+44.00		4.0 - 9.2	7.0 – 12.2	262.50		5.2			1	1									
-L-	28+44.00	34+02.48	RT	560.375				28 + 44.00	4.0 - 8.0	7.0 – 11.0		250.00		2.0		1	1									
			TOTAL:													4	4							480		
	DEDU	CTION FOR AN																								
			′@ 22.875 ′)																							
			TL–3 @ 50')																							
		TOTAL GUARD																								
			SAY:	1000.00	LF																					
A	DDITIONAL GUA	RDRAIL POSTS =	5 EA																							
	ARY GUARDRAIL																									
L EX.	29+63.19	32+15.83	LT	252.64													1									
			TOTAL:																							
∩	DEDU	CTION FOR AN																								
ב ש			TL-3 @ 50')																							
		TOTAL GUARD																								
2			SAY:	212.50																						

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA

PAVEMENT REMOVAL SUMMARY

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	۲D [°]		
L	17 + 43	26+61	LT	1,570		
-L-	28+97	31+34	LT	500		
-L-	31+34	37 + 95	LT	1,085		
			TOTAL:	3,155		
			SAY:	3,200		

ESTIMATED SHOULDER BORROW = 450 CYESTIMATED DDE = 80 CY

USE SELECT GRANULAR MATERIAL TO BACKFILL UNDERCUT AREAS

EARTHWORK SUMMARY (IN CUBIC YARDS)

GUARDRAIL SUMMARY

STV Engineers. Inc.	PROJECT REFERENCE NO.	SHEET NO.	
STV Engineers, Inc. 900 West Trade St., Suite 715 Charlotte, NC 28202 NC License Number F-0991	B-58l8	3B-1	
Jears Charlotte, NC 28202 NC License Number F-0991	RW SHEET NO.		

EARTHWORK QUANTITIES ARE CALCULATED BY USING NCDOT – ROADWAY DESIGN GUIDELINES. THESE QUANTITIES ARE BASED IN PART ON SUBSURFACE DATA PROVIDED BY THE GEOTECHNICAL ENGINEERING UNIT.

APPROXIMATE QUANTITIES ONLY, UNCLASSIFIED EXCAVATION, CLEARING AND GRUBBING, REMOVAL OF EXISTING ASPHALT PAVEMENT, FINE GRADING, AND SHOULDER BORROW WILL BE PAID FOR AT THE CONTRACT LUMP SUM PRICE FOR "GRADING."