EARTHWORK SUMMARY (IN CUBIC YARDS)

CHAIN	FROM STATION	TO STATION	SIDE	UNCL. EXCAVATION	UNDERCUT	EMBT+%	BORROW	WASTE
-L-	11+80.00	15+56.84	LT & RT	34		1,563	1,529	
-L-	16+59.16	19+20.00	LT & RT	3		897	894	
TOTAL				37		2,460	2,423	
LOSS DU	E TO CLEARING	AND GRUBBING						
WASTE IN	LIEU OF BORRO	W						
PROJECT	TOTAL			37		2,460	2,423	
ESTIMATE	5% FOR TOPSOI	L ON BORROW	PITS				121	
GRAND 1	OTAL			37	2,460		2,544	
SAY				50			2,800	
NOTE:	Excavation, Fine Existing Paveme	ntities only. Uncl Grading, Clearing nt, and Removal o the contract lump	g and Grubbing, of Existing Paver	Breaking of nent			ESTIMATED DD CUT EXCAVATION NULAR MATERIAI	I: 450 CY

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	SY
-L-	14+00.00	14+25.00	LT/RT	55.76
-L-	18+00.00	18+50.00	LT/RT	106.94
			TOTAL:	162.70
			SAY:	170

* W MEASURED FROM "N" AT THE BEGINNING OF THE ANCHOR TO "N" AT THE END OF THE ANCHOR.

"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 350NG = NON-GATING IMPACT ATTENUATOR TYPE 350

140 =																									
SURVEY LINE		END STA.			LENGTH (FT) WARRAN		WARRAN	WARRANT POINT		TOTAL	FLARE LENGTH		W* ANCHORS (EA)			CHORS (EA)	IMPACT ATTENUATOR			SINGLE REMOVE FACED EXISTING	REMOVE AND				
	BEG. 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 GR TL	REU GRE L–3 TL–2	REU 2	TYPE III CAT-1 VI MOD	BIC	AT-1 EA G NC	GUARDR/		STOCKPILE EXISTING GUARDRAIL	REMARKS
-L-	15+27.13	15+60.56	LT	25.00	12.50			15+60.56	3.92	6.92				1.0					1		1				R = 20' FOR SHOP CURVED
-L-	14 + 71.86	15 + 53.11	RT	81.25			15 + 53.11		3.92–4.92	6.92–7.92	50		1.0				1		1						
-L-	16+62.89	17+45.06	LT	81.25			16+62.89		3.92–4.92	6.92–7.92	50		1.0				1		1						
, _L _	16+55.44	17+35.89	RT	81.25				16+55.44	3.93–4.93	6.93–7.93		50		1.0			1		1						
			TOTAL:	268.75	12.50																				
	AN	CHOR LENGTH	DEDUCTIONS:																						
		GREU TL-	3 (3 @ 50'):	150.00																					
		TYPE-III ((4 @ 18.75'):	75.00																					
		AT–	l (1 @ 6.25'):	6.25																					
	TOTAL ANC	HOR LENGTH (E	DEDUCTIONS):	231.25																					
		TOTAL GUARD	RAIL LENGTH:	37.50	12.50																				
			SAY:	37.50	12.50		5 ADDITIONA	AL G/R POSTS									3		4		1				

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA

PAVEMENT REMOVAL SUMMARY

PAVEMENT MARKING DETAIL

MARKING TYPE	CHAIN	FROM STATION	to station	LENGTH (LF)
Pl	_L_ (LT)	11 + 80.00	19+20.00	1480.00
	L (RT)	11 + 80.00	19+20.00	1480.00
P13	-L-	11 + 80.00	19+20.00	2960.00
			TOTAL:	5920.00
			SAY:	5920

P1: 4" White Edge Lines (Two Layers of Paint with Line Factor 1) P13 : 4" Yellow Double Center Lines (Two Layers of Paint with Line Factor 2)

SUMMARY OF BREAKING EXISTING ASPHALT PAVEMENT

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	SY
-L-	14+25.00	15 + 56.00	LT/RT	305.76
-Y-	16+59.00	18+00.00	LT/RT	311.85
	617.61			
	620			

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	BR-0114	3B-I
Mears Charlotte, NC 28202 NC License Number F-0991		

