COMPUTED BY: MMD DATE: 08-30-04
CHECKED BY: RAT DATE: 08-30-04

"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

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

GUARDRAIL SUMMARY

R-2237B | 3-D

SURVEY LINE	BEG. STA.	END STA.	LOCATION	LENGTH STRAIGHT	LENGTH SHOP CURVED	LENGTH DOUBLE FACED	WARRANT POINT APPROACH END	WARRANT POINT TRAILING END	"N" DIST. FROM E.O.L.	TOTAL SHOULDER WIDTH	FLARE LENGTH APPROACH END	FLARE LENGTH TRAILING END	W APPROACH END	W TRAILING END	ANCHORS CAT 1	ANCHORS 350 GRAU	ANCHORS B-77	ANCHORS AT 1	ANCHORS TERM. END SECT.				IMPACT ATTENUATOR TYPE 350 EA	IMPACT ATTENUATOR TYPE 350 G	IMPACT ATTENUATOR TYPE 350 NG	SINGLE FACE BARRIER	DOUBLE FACE BARRIER	REMARKS
-L-	21+35.00	66+10.00	LT	4475.00			FILL 66+00	FILL 21+35	10.00'	12.25'	50'	1'				1												TIE TO EXISTING
-L-	23+50.00	28+00.00	RT	450.00			FILL 23+50	DFB 65+00	10.00'	13.00'	50'	1'				1	1										1900.00'	
-L-	47+00.00	65+00.00	RT	1800.00			DFB 47+00	FILL 64+50	10.00'	13.00'					1		1											
-L-	69+00.00	71+00.00	RT	200.00			DFB 71+00	DFB 71+00	10.00'	13.00'	50'	1'				1	1										750.00'	
-TRUCK-	14+56.43	15+56.43	LT	100.00			FILL 15+50	TRUCK RAMP	4.00'	7.00'					1		1											
-L-	74+50.30	77+12.80	LT	262.50			FILL 75+50	RET WALL 74+50	4.00'	7.00'	50'	1'				1	1											
-L-	79+21.25	83+08.75	RT	387.50			FILL 80+00	FILL 80+00	10.00'	13.00'	50'	1'			1	1												
-L-	82+97.00	86+22.00	LT	325.00			RET WALL 86+22	RET WALL 82+90	10.00'	13.00'	50'	1'			1	1												
-L-	89+41.00	94+91.00	LT	550.00			FILL 94+50	FILL 90+00	10.00'	13.00'	50'	1'			1	1												
-L-	90+17.50	94+80.00	RT	462.50			FILL 91+50	FILL 94+50	10.00'	13.00'	50'	1'			1	1												
-L-	99+33.45	100+20.95	LT	87.50			RET WALL 100+21	FILL 99+30	10.00'	13.00'					1		1											
-L-	103+60.28	107+85.28	LT	425.00			FILL 106+50	RET WALL 103+60	10.00'	13.00'	50'	1'				1	1											
-L-	100+00.00	103+50.00	RT	350.00			FILL 100+00	FILL 103+50	10.00'	13.00'	50'	1'			1	1												
-L-	113+52.50	117+90.00	LT	437.50			FILL 114+50	FILL 117+50	10.00'	13.00'	50'	1'			1	1												
-L-	118+30.00	126+05.00	LT	775.00			FILL 124+00	FILL 120+50	10.00'	13.00'	50'	1'			1	1												
-L-	118+90.00	124+65.00	RT	575.00			FILL 121+00	FILL 124+00	10.00'	13.00'	50'	1'			1	1												
-L-	126+96.00	129+96.00	LT	300.00			FILL 129+00	FILL 127+00	10.00'	13.00'	50'	1'			1	1												
-L-	130+59.00	-Y1- 10+05.00	LT	1387.50	50.00		FILL Y1 10+30	FILL 131+00	10.00'	13.00'	50'	1'			1	1												
-L-	135+09.00	137+09.00	RT	200.00			FILL 135+50	FILL 136+90	10.00'	13.00'	50'	1'			1	1												
-Y1-	11+85.00	-L- 142+75.00	LT	537.50	50.00		FILL 141+00	FILL -Y1- 12+50	10.00'	13.00'	50'	1'			1	1												
-L-	141+50.00	145+00.00	RT	350.00			FILL 143+50	FILL 145+00	10.00'	13.00'	50'	1'			1	1												
-L-	147+00.00	155+25.00	LT	825.00			FILL 154+00	FILL 147+00	10.00'	13.00'	50'	1'			1	1												
-L-	159+00.00	161+50.00	RT	250.00			FILL 160+00	FILL 161+00	10.00'	13.00'	50'	1'			1	1												
-L-	164+75.00	172+25.00	LT	750.00			FILL 171+00	FILL 165+00	10.00'	13.00'	50'	1'			1	1												
-L-	164+75.00	172+50.00	RT	775.00			FILL 164+75	FILL 172+50	10.00'	13.00'	50'	1'			1	1												
-L-	178+25.50	190+88.00	RT	1262.50			FILL 180+00	FILL 190+50	10.00'	13.00'	50'	1'			1	1												
-L-	192+44.00	194+44.00	LT	200.00			FILL 194+00	FILL 192+50	10.00'	13.00'	50'	1'			1	1												
-L-	198+12.50	203+00.00	LT	487.50			FILL 202+50	FILL 198+50	10.00'	13.00'	50'	1'			1	1												
-L-	206+40.00	207+90.00	LT	150.00			FILL 207+90	FILL 206+40	10.00'	13.00'	50'	1'			1	1												
-L-	209+50.00	212+50.00	LT	300.00			DRIVE 212+60	FILL 209+50	10.00'	13.00'	50'	1'			1	1												
-L-	212+89.00	217+89.00	LT	500.00			FILL 217+00	FILL 214+50	10.00'	13.00'	50'	1'			1	1												
-L-	222+67.50	228+30.00	RT	562.50			FILL 224+00	DRIVE 228+60	10.00'	13.00'	50'	1'			1	1												
-L-	223+00.00	231+87.50	LT	887.50			FILL 231+90	FILL 223+00	10.00'	13.00'	50'	1'			1	1												
-L-	229+00.00	236+50.00	RT	750.00			DRIVE 228+60	FILL 236+50	10.00'	13.00'	50'	1'			1	1												
-L-	239+48.00	240+48.00	LT	100.00			RET WALL 239+50	RET WALL 239+50	10.00'	13.00'	50'	1'				1	1											
-L-	241+00.00	249+00.00	LT	800.00			FILL 249+00	FILL 241+00	10.00'	13.00'	50'	1'			1	1												
-L-	251+17.00	257+79.50	LT	662.50			DRIVE 258+00	FILL 252+00	10.00'	13.00'	50'	1'			1	1												
-L-	255+60.00	263+00.00	RT	750.00			FILL 257+50	FILL 263+00	10.00'	13.00'	50'	1'			1	1												
-L-	258+24.50	266+37.00	LT	812.50			FILL 264+50	DRIVE 258+00	10.00'	13.00'	50'	1'			1	1												
-L-	268+62.50	271+75.00	LT	312.50			DRIVE 272+00	FILL 268+71	10.00'	13.00'	50'	1'			1	1												
-L-	270+00.00	274+00.00	RT	400.00			FILL 272+00	FILL 282+00	10.00'	13.00'	50'	1'				1	1									750.00'		
-L-	272+19.00	277+81.50	LT	562.50			DRIVE 278+00	DRIVE 272+00	10.00'	13.00'	50'	1'			1	1												
-L-	278+17.50	290+95.00	LT	1287.50			DRIVE 291+15	DRIVE 278+00	10.00'	13.00'	50'	1'			1	1												
-L-	281+50.00	282+00.00	RT	25.00	25.00		RET WALL 281+50		10.00'	13.00'	50'	1'					1	1										
-L-	282+49.50	282+87.00	RT		37.50			RET WALL 282+87	10.00'	13.00'							1	1								1400.00'		
-L-	291+34.00	296+09.00	LT	475.00			FILL 296+00	DRIVE 291+15	10.00'	13.00'	50'	1'			1	1												
-L-	296+93.01	297+26.00	RT	25.00	50.00		RET WALL 296+93	FILL 297+26	10.00'	13.00'							1	1										
-L-	298+50.00	300+50.00	RT	200.00			DFB 300+50	DFB 300+50	10.00'	13.00'	50'	1'				1	1										2150.00'	
-L-	299+82.00	303+09.27	LT	312.50	75.00		RET WALL 303+09	FILL 299+82	10.00'	13.00'							1		11									SCENIC OVERLOOK
-L-	304+45.00	305+82.50	LT	137.50			FILL 305+08	RET WALL 305+83	10.00'	13.00'	50'	1'				1	1											
-L-	314+00.00	316+75.00	LT	275.00			DRIVE 317+00	FILL 314+50	10.00'	13.00'					1													
-L-	317+39.50	322+15.00	LT	37.50			DFB 322+65	DRIVE 317+00	10.00'	13.00'	50'	1'			1	1	1										400.00'	
-L-	321+63.00	322+13.00	LT	50.00			DFB 322+65	DRIVE 317+00	10.00'	13.00'	50'	1'				1	1											
-L-	322+00.00	329+74.00	RT	775.00			DFB 321+65		10.00'	13.00'	50'	1'			1	1	1											
-L-	333+74.00	343+24.00	LT	950.00			FILL 343+25	FILL 334+00	10.00'	13.00'	50'	1'				1	1										450.00'	
-L-	340+51.56	344+89.06	RT	437.50			FILL 342+00	RET WALL 344+89	10.00'	13.00'	50'	1'				1												
-L-	345+28.50	346+16.00	RT	87.50			SFB 344+89.06		10.00'	13.00'									1							135.00'		
-L-	346+68.91	350+18.91	LT	350.00			RET WALL 346+69	RET WALL 346+69	10.00'	13.00'	50'	1'			1	1												
-L-	347+00.00	356+00.00	RT	887.50	12.50		FILL 347+50	FILL 356+00	10.00'	13.00'	50'	1'			1		1											
-DRIVE2-	10+11.50	14+75.00	LT	237.50	212.50		FILL 10+11.50	FILL 14+75.00	2.00'	4.00'	50'	1'						1	1									
			TOTAL (FT):	33087.50	512.50																							
		G/R ANCHOR DEDUCTIONS:		-262.50	CAT 1 - 42@6.25' EA.																							
				-2450.00	350 GRAU - 49@50' EA.																							
				-500.00	B-77 - 20@25' EA.										42	49	20	4	13							2285.00'	5650.00'	
				-25.00	AT 1 - 4@6.25' EA.																							
			TOTAL (FT):	29850.00	512.50																							
			SAY (FT):	30000.00	512.50		10 ADDITIONAL G/R POSTS																					
	TEMPORARY GUARDRAIL FOR DETOUR																											
-DET3-	11+18.23	15+30.52	LT	412.50			FILL 15+30	FILL 11+18	2.00'	3.00'																		
-DET4-	11+12.65	14+27.77	LT	300.00			FILL 14+20	FILL 11+13	2.00'	3.00'					1													
-DET5-	10+01.23	16+75.16	LT	437.50	200.00		FILL 16+75	FILL 10+01	2.00'	3.00'																		
-DET5-	10+64.21	16+36.21	RT	475.00	112.50		FILL 10+64	FILL 16+36	2.00'	3.00'																		
			TOTAL (FT):	1625.00	312.50																							
		G/R ANCHOR DEDUCTIONS:		-6.25	CAT 1 - 1@6.25' EA.										1													
			TOTAL (FT):	1618.75	312.50																							
			TOTAL (FT):	1625.00	312.50																							

6/16/99

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