COMPUTED BY: MD DATE: 11-10-03
CHECKED BY: JRH DATE: 11-10-03

"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

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-0513A	3-H

GUARDRAIL SUMMARY

SURVEY LINE	BEG. STA.	END STA.	LOCATION	LENGTH			WARRANT POINT		"N" DIST. FROM E.O.L.	TOTAL SHOUL. WIDTH	FLARE LENGTH		W		ANCHORS								IMPACT ATTENUATOR TYPE 350					REMARKS
				STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END			APPROACH END	TRAILING END	APPROACH END	TRAILING END	GRAU 350	CAT-1	TYPE III	AT-1	M-350	VI MOD	XI	VI	BIC	EA	G	NG			
-RPCY1-/-Y1-	10+71.91(-RPCY1-)	12+31.93(-Y1-)	RT/LT	449.65	37.36		11+17.63(-RPCY1-)	12+77.65(-Y1-)	4.2	5.2	15.24	15.24	0.30	0.30	2												
-Y1-/-RPDY1-	12+32.01(-Y1-)	17+39.73(-RPDY1-)	RT/LT	337.22	47.26		12+70.11(-Y-)	17+77.83(-RPDY1-)	2.4/4.2	3.4/5.2	15.24		0.30		1	1											
-Y1-	15+29.50	16+08.557(BR)	LT	79.06				BRIDGE	2.4	3.4		15.24		0.36	1		1										
-LPDY1-/-Y1-	15+38.48(-LPDY1-)	16+17.564(BR)	RT	90.05			BRIDGE		2.4	3.4	15.24		0.36		1		1										
-SR1-	16+59.90	21+67.44	LT	503.15			21+52.20	16+94.99	2.4	3.4	15.24	15.24	0.30	0.30	2												
-Y1-	17+93.762(BR)	18+85.10	LT	91.46			BRIDGE		2.4	3.4	15.24		0.30		1		1										
-Y1-	18+02.773(BR)	18+99.72	RT	96.76				BRIDGE	2.4	3.4		15.24		0.30	1		1										
-RPBY2-/-Y2-	12+65.01(-RPBY2-)	13+31.02(-Y2-)	LT/RT	370.46	55.10		13+69.12(-Y2-)	12+75(-RPBY2-)	4.2/2.4	5.2/3.4	15.24		0.30		1	1											
-RPCY2-/-Y2-	12+56.98(-RPCY2-)	20+34.80(-Y2-)	RT/RT	553.07	15.10		12+95.08(-RPCY2-)	19+96.70(-Y2-)	4.2/2.4	5.2/3.4	15.24	15.24	0.30	0.30	2												
-RPBY2-/-Y2-	15+01.00(-RPBY2-)	16+40.833(BR)	RT	86.77	12.58		BRIDGE		1.8	3.4	79.51		0.60			1	1										
-Y2-	17+30.277(BR)	17+87.41	RT	57.14				BRIDGE	1.8	3.4		36.20		0.30	1		1										
-Y2-	16+03.77	16+49.839(BR)	LT	46.07				BRIDGE	1.8	3.4		25.12		0.30	1		1										
-Y2-/-RPDY2-	17+27.408(BR)	14+97.55(-RPDY2-)	LT	83.00	16.45		BRIDGE		1.8	3.4	77.82		0.30			1	1										
-Y2-	12+14.36	12+55.30	RT	32.55	19.16		12+42.50		2.4	3.4								2									
-Y2-	12+33.40	12+58.30	LT	25.21	19.16		12+42.50		2.4	3.4								2									
-Y2-/-RPDY2-	20+04.34(-Y2-)	12+51.97(-RPDY2-)	LT/LT	325.10	60.84		19+66.24(-Y2-)	12+52(-RPDY2-)	2.4/4.2	3.4/5.2	15.24		0.30		1	1											
-Y2-/-RPAY2-	13+31.69(-Y2-)	13+11.88(-RPAY2-)	LT/RT	511.27	21.90		13+50(-RPAY2-)	13+70(-Y2-)	2.4/4.2	3.4/5.2	15.24	15.24	0.30	0.30	2												
-SR3-	22+69.51	24+10.49	RT	138.52			23+07.61	23+72.39	2.4	3.4	15.24	15.24	0.30	0.30	2												
SUBTOTALS:				3876.51	304.91																						
		ANCHOR DEDUCTIONS:																									
		TYPE GRAU 350 19 @ 15.24m = 289.560																									
		TYPE CAT-1 5 @ 1.905m = 9.525																									
		TYPE III 8 @ 5.72m = 45.760																									
		TYPE AT-1 4 @ 1.905m = 7.620																									
		ANCHOR TOTALS: 352.465																									
PROJECT TOTAL: R-0513A				3524.045	304.91										19	5	8	4									
PROJECT SAY: R-0513A				3524.25	308.61																						
PROJECT TOTAL: R-0513BA				3830.465	15.73										16	7	12	1	4								
PROJECT SAY: R-0513BA				3832.86	19.05																						
GRAND SAY TOTAL:				7357.11	327.66										35	12	20	5	4								
ADDITIONAL POSTS R-0513A:				10																							
ADDITIONAL POSTS R-0513BA:				10																							
ADDITIONAL POSTS TOTAL:				20																							

21-SEP-2004 07:09
C:\Projects\R0513A\R0513A.sum
JRHatfield