004,R:\R513C\SUMMARY\R513c_guardrail_summary.xls

COMPUTED BY: *SGM* DATE: *MARCH 2004*
CHECKED BY: *WCP* DATE: *MARCH 2004*

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

METRIC | PROJECT REFERENCE NO. *R-513C* | SHEET NO. *3-N*

GUARDRAIL SUMMARY

"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 BEGIN

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

SURVEY LINE	BEG. STA.	END STA.	LOC	LENGTH			WARRANT POINT		"N" DIST. FROM E.O.L.	TOTAL SHOUL 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	350	CAT-1	III	XI MOD	B-77	M-350			NO	PERMITTED G	PERMITTED NG				
-L-	85+47.66	86+02.905	RT	55.245			86+00		4.27	3.6	11.43		1.2			1				1								SIGN SUPPORT (OH ASSEMBLY "DMS-3")
-L-	250+23.75	0+60 RPC	RT	236.22				0+60	4.2	5.2					1	1												FUTURE G.R.@ BEG.
-L-	1+44.61 RPB	249+57.90	LT	386.715			0+84 RPB		4.2	5.2	15.24		0.3		1	1												FUTURE G.R.@ BEG.
-L-	256+23.97	256+50	MED LT	19.63				256+50	6	1.8		11.43							1									MED. BRIDGE PIER
-L-	256+28.97	256+50	MED RT	19.63			256+50		6	1.8	11.43								1				1	X	X	17			MED. BRIDGE PIER
-L-	256+67	256+93.03	MED LT	19.63			256+67		6	1.8	11.43								1				1	X	X	17			MED. BRIDGE PIER
-L-	256+67	256+93.03	MED RT	16.63				256+67	6	1.8		11.43							1									MED. BRIDGE PIER
RPC	3+20	4+45.73	RT	125.73			4+06	4+45	4.2	5.2	15.24		0.3		1	1												
RPB	3+70	11+25 Y1	LT	171.45	53.34		12+07 Y1	3+70	4.2	5.2	15.24		0.3		1	1												
RPA	3+49.57	11+40 Y1	RT	220.98	34.29		3+80 RPA	11+92 Y1	4.2	5.2	15.24	15.24	0.3	0.3	2													
-Y1-	13+05.57	13+69.804	RT	64.77			13+69.804				15.24		0.3		1		1											TIE TO BRIDGE
-Y1-	14+30.20	14+75.92	LT	64.77			14+30.20				15.24		0.3		1		1											TIE TO BRIDGE
-L-	263+82.85	264+97.15	MED LT	205.74			264+40		4.27	1.8	34.95	34.95	2.33	2.33									2	X	X			SIGN SUPPORT (OH ASSEMBLY "A")
-L-	269+85.325	270+52	MED RT	66.675			270+50		4.02	3.6	11.43		1.2			1				1								SIGN SUPPORT (OH ASSEMBLY "B")
-L-	269+96.755	270+52	RT	55.245			270+50		4.27	4.2	15.24		0.3		1	1												SIGN SUPPORT (OH ASSEMBLY "B")
-Y2-	I-95 North of Existing US 74		LT	55.245					4.27	Existing	15.24		0.3		1	1												SIGN SUPPORT (OH ASSEMBLY "DMS-1")
-Y2-	I-95 North of Existing US 74		RT	55.245					4.27	Existing	15.24		0.3		1	1												SIGN SUPPORT (OH ASSEMBLY "DMS-1")
-Y2-	10+48.884	17+95.644	MED LT	746.76			17+95.64	10+48.88	3.6	3.6	15.24	15.24	0.3	0.3	2													
-Y2-	10+48.884	18+03.264	MED RT	754.38			10+48	18+03	3.6	3.6	15.24		0.3		1	1												
-Y2-	10+00	25+87	MED																							1524		
-Y2-	18+55	18+69	LT & RT																							28		
-Y2-	19+00	25+86.89	LT & RT																							703		
-Y5-	10+95	11+17.86	RT	22.86					2.4	3.4	15.24		0.3		1											74		TIE TO EXIST. GUARDRAIL
-Y5-	11+19.76	11+35	LT & RT	15.24								15.24		0.3	1											43		TIE TO EXIST. GUARDRAIL
-Y5-	17+69.03	20+92.88	RT	323.85			18+00		2.4	3.4	15.24	15.24	0.3	0.3	2													DRIVE @ END G.R.
-Y5-	21+05.69	23+06.96	RT	201.27				23+06.96	2.4	3.4	15.24	15.24	0.3	0.3	1		1											DRIVE @ BEGIN G.R.
-Y5-	20+70	23+01.56	LT	231.56			21+00	23+01.56	2.4	3.4	15.24	15.24	0.3	0.3	1		1											
-Y5-	23+84.40	25+62.45	LT	178.05			23+84.40	25+30	2.4	3.4	15.24	15.24	0.3	0.3	1		1											
-Y5-	23+89.32	25+59.53	RT	170.21			23+89.32	25+30	2.4	3.4	15.24	15.24	0.3	0.3	1		1											
-COBC-	23+57.66	24+12.905	LT	55.245			24+10		4.27	4.2	11.34		1.2			1				1								SIGN SUPPORT (OH ASSEMBLY "J")
-COBC-	23+57.66	24+12.905	LT	55.245			24+10		4.27	1.8	11.34		1.2			1				1								SIGN SUPPORT (OH ASSEMBLY "J")
-COAD-	27+97.065	28+53.34	RT	55.245			28+00		4.27	1.8	11.34		1.2			1				1								SIGN SUPPORT (OH ASSEMBLY "K")
-COAD-	27+97.065	28+53.34	RT	55.245			28+00		4.27	4.2	11.43		1.2			1				1								SIGN SUPPORT (OH ASSEMBLY "K")
-Y2-	29+70.97	29+97	RT	19.63			29+97		4.5		11.43								1				1	X	X	95.6		MED. PIER BETWEEN -Y2- & -COBC-
-Y2-	29+77.37	29+97	RT	19.63			29.97		7.5		11.43		0.7						1									MED. PIER BETWEEN -Y2- & -COBC-
-Y2-	30+21.23	30+41.44	RT	20.21			30+21.23	30+41.44	4.5										2									BETWEEN SINGLE FACED BARRIER (-Y2- & -COBC-)
-Y2-	30+21.23	30+41.44	RT	20.21			30+21.23	30+41.44	7.5										2									BETWEEN SINGLE FACED BARRIER (-Y2- & -COBC-)
-Y2-	30+26	30+52.03	LT	19.63			30+26		7.5		11.43		0.7						1				1	X	X	93.8		MED. PIER BETWEEN -Y2- & -COAD-
-Y2-	30+26	30+45.63	LT	19.63			30+26		4.5		11.43		0.7						1									MED. PIER BETWEEN -Y2- & -COAD-
-Y2-	29+82.419	30+02.629	LT	20.21			30+02.629	29+82.419	7.5										2									BETWEEN SINGLE FACED BARRIER (-Y2- & -COAD-)
-Y2-	29+82.419	30+02.629	LT	20.21			30+02.629	29+82.419	4.5										2									BETWEEN SINGLE FACED BARRIER (-Y2- & -COAD-)
-COBC-	31+87.660	32+42.905	LT	55.245			32+40		4.27	1.8	11.43		1.2			1				1								SIGN SUPPORT (OH ASSEMBLY "E")
-COBC-	31+87.660	32+42.905	LT	55.245			32+40		4.27	4.2	11.43		1.2			1				1								SIGN SUPPORT (OH ASSEMBLY "E")
-COAD-	36+37.095	36+92.34	RT	55.245			36+40		4.27	1.8	11.43		1.2			1				1								SIGN SUPPORT (OH ASSEMBLY "L")
-COAD-	36+37.095	36+92.34	RT	55.245			36+40		4.27	4.2	11.43		1.2			1				1								SIGN SUPPORT (OH ASSEMBLY "L")
RPB	2+16.14	6+20	LT	403.86			5+90	2+16.14	4.2	5.2	15.24		0.3		1	1												
RPB	4+58.954	3+65.08 LPB	RT			87.63										2												GLARE SCREEN REQUIRED
-L-	275+81.647	276+73.087	RT	91.44			276+73.087		1.8	4.2	15.24		0.3		1		1											
-L-	276+20.364	276+87.039	MED RT	66.675			276+87.039		1.8	3.6	60.96		4.5				1			1								
-L-	276+27.048	277+16.583	MED LT	89.535			276+80		1.8	3.6	11.43		1.2				1			1								SIGN SUPPORT (OH ASSEMBLY "C")
-L-	278+18.531	279+04.126	MED RT	85.595			278+40		1.8	3.6		11.43		1.2			1			1								SIGN SUPPORT (OH ASSEMBLY "D")
-L-	278+45.866	279+10.636	MED RT	64.77			278+45.866		1.8	3.6	11.43		1.2				1			1								
-L-	278+58.632	279+50.072	LT	91.44			278+58.632		1.8	4.2	15.24		0.3		1		1											
	SUB-TOTAL 1			5,978.365	87.63	87.63									25	21	12	0	16	14	0	0	6			223.4	2,372	0	