060298

COMPUTED BY: R. SHILLINGLAW DATE: AUGUST 2001
CHECKED BY: R. SHILLINGLAW DATE: JULY 2003

"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

METRIC

PROJ. REFERENCE NO.	SHEET NO.
R-0513 BB	3-A

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			SINGLE FACED CONCRETE BARRIERS	REMOVE EXISTING GUARDRAIL	REMOVE AND STOCKPILE EXISTING GUARDRAIL	REMARKS
				STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END			APPROACH END	TRAILING END	APPROACH END	TRAILING END	B-77	III	GRAU 350	M-350	CAT-1	XI MOD				PERMITTED NO.	PERMITTED G	PERMITTED NG				
-L-	178+77.94	179+05	MEDIAN	38.100m			BRIDGE PIER	BRIDGE PIER	6.0m		10.5m	10.5m	0.7m	0.7m	2									1	X					
-L-	179+05	179+29	MEDIAN																								48m			
-L-	178+29	179+56	MEDIAN	38.100m			BRIDGE PIER	BRIDGE PIER	6.0m		10.5m	10.5m	0.7m	0.7m	2									1	X					
-L-	208+82.34	209+09.4	MEDIAN	38.100m			BRIDGE PIER	BRIDGE PIER	6.0m		10.5m	10.5m	0.7m	0.7m	2									1	X					
-L-	209+09.4	209+24.6	MEDIAN																								30.4m			
-L-	209+24.6	209+51.6	MEDIAN	38.100m			BRIDGE PIER	BRIDGE PIER	6.0m		10.5m	10.5m	0.7m	0.7m	2									1	X					
-Y5-	13+00.293	13+91.733	RIGHT	91.440			BRDG RAIL		2.4m	3.4m	30m		0.6m			1	1													
-Y5-	13+39.159	13+77.259	LEFT	38.100			FILL 13+40		2.4m	3.4m	30.664m		0.6m			1			1											
-Y5-	14+79.339	15+21.249	RIGHT	41.910			FILL 15+20		2.4m	3.4m	34.474m		0.6m			1			1											
-Y5-	14+63.886	15+55.326	LEFT	91.440			BRDG RAIL		2.4m	3.4m	30m		0.6m			1	1													
-Y-	14+41.730	15+33.170	RIGHT	91.440			BRDG RAIL		2.4m	3.4m	30m		0.6m			1	1													
-Y-	15+02.524	15+44.434	LEFT	41.910			BRDG RAIL		1.423m	2.423	21.139m		0.423m			1	1													
-Y-	16+23.750	16+65.660	RIGHT	41.910			BRDG RAIL		2.223m	3.223m	21.139m		0.423m			1	1													
-Y-	16+33.445	17+24.885	LEFT	91.440			BRDG RAIL		2.4m	3.4m	70m		1.4m			1	1													
PROJECT SUBTOTALS				681.990m											8	8	6		2				4			78.4m			
LESS ANCHOR DEDUCTIONS				-186.690m																									
PROJECT TOTALS				495.300m											8	8	6		2				4			78.4m			
			SAY	533.400m			(ADDITIONAL G/R POSTS 10 EA)																				80m			
R-0513BB	PROJECT TOTALS (SAY)			533.400m	——	——	(ADDITIONAL G/R POSTS 10 EA)								8	8	6	——	2	——			4			80m		——	
R-0513C	PROJECT TOTALS (SAY)			10,915.65m	441.96m	384.81m	(ADDITIONAL G/R POSTS 10 EA)								16	22	64	22	42	8			6			225m		3,061.30m	
	GRAND TOTAL			11,449.05m	441.96m	384.81m	(ADDITIONAL G/R POSTS 20 EA)								24	30	70	22	44	8			10			305m		3,061.30m	

G/R ANCHOR DEDUCTIONS

B-77	8 X 5.715	= 45.720m
TYPE III	8 X 5.715	= 45.720m
GRAU 350	6 X 15.24	= 91.440m
CAT-1	2 X 1.905	= 3.810m
TOTAL ANCHOR DEDUCTIONS		186.690m

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