COMPUTED BY: B. FOWLER DATE: 5 / 2014
CHECKED BY: M. HUSSEY DATE: 10/2014

PROJECT REFERENCE NO.	SHEET NO.
I-5508	3-B

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

"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

GUARDRAIL SUMMARY

SURVEY LINE	BEG. STA.	END STA.	LOCATION	LENGTH			WARRANT POINT		"N" DIST. FROM E.O.L.	TOTAL SHOULDER WIDTH	FLARE LENGTH		W		ANCHORS							TEMP. IMPACT ATTENUATOR TYPE 350					EXIST. GUARDRAIL REMOVAL	REMARKS
				STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END			APPROACH END	TRAILING END	APPROACH END	TRAILING END	GRAU TYPE 350 TL-3	GRAU TYPE 350	TEMP ANCHOR UNIT TYPE W.BEAM						NO.	PERMITTED G	PERMITTED NG				
-DET-	22+75.54	30+13.04	RT	737.50					4	7	0	0	0	0	1													
-DET-	24+87.37	30+13.04	RT																								526	REMOVAL OF EXISTING GUARDRAIL
-EL-	346+90.27		LT																				1		X			REMOVE ATTTENNUATOR W\ BARRIER
-EL-	323+67.59		LT														1											
-EL-	323+67.59		RT														1											
-EL-	347+18.73		LT														1											
-EL-	347+18.73		RT														1											
	ANCHOR DEDUCTIONS:																											
	(1) GRAU 350 TL-3 @ 50' EA. =			-50'																								
			GRAND TOTALS:	687.50'											1		4						1				526	
			SAY:	700.00'			ADDITIONAL GUARDRAIL POST = 10 Ea.																					

SUMMARY OF EARTHWORK

STATION	STATION	UNCL. EXCAV.	EMBANK. +%	BORROW	WASTE
-EL- 323+67.59	-EL- 344+25.00	2,609	1,803		806
REMOVAL OF EXIST CONCRETE BARRIER					
-EL- 323+67.59 -EL- 342+50.14	-EL- 331+00.00 -EL- 347+18.73	133			133
-EL- 331+25.00	-EL- 340+75.00	106,541	377	377	106,541
TOTAL:		109,283	2,180	377	107,480
WASTE IN LIEU OF BORROW				-377	-377
PROJECT TOTALS:		109,283	2,180		107,103
ADJUSTMENT FOR ROCK WASTE SWELL					21,308
ADJUSTMENT FOR UNCOMPACTED ROCK WASTE					19,177
GRAND TOTALS:		109,283			147,588
SAY:		109,300			
SHOULDER BORROW 410 CY					

Earthwork quantities are calculated by the Roadway Design Unit. These earthwork quantities are based in part on subsurface data provided by the Geotechnical Engineering Unit.

SUMMARY OF SHOULDER BERM GUTTER

SURVEY LINE	STATION	STATION	LENGTH
-EL- RT	340+25.00	344+18.36	393.36
		TOTAL:	393.36
		SAY:	395

6/16/99
02-DEC-2014 11:00
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$$$$USERNAME$$$$