COMPUTED BY:	W. A. Smith	DATE:	10/8/2013
CHECKED BY:	A. J. Foster	DATE:	10/10/2013

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO.	SHEET NO.
R-2519B	3B-3

"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

GUARDRAIL SUMMARY

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

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 BARRIER	REMOVE EXISTING GUARDRAIL	REMOVE & STOCKPILE EXISTING GUARDRAIL	REMARKS
				STRAIGHT	SHOP CURVED	TEMP	TEMP SHOP CURVED	APPROACH END	TRAILING END			APPROACH END	TRAILING END	APPROACH END	TRAILING END		GRAU-350 TL-2	GRAU 350	TEMP GRAU 350	CAT-1	TERM END SECT.	AT-1	B-77	G	NG				
Y23A	10+50.00	13+75.00	LT.	325.00				12+50.00	11+75.00	6	9							2											
L	256+49.75	258+99.75	RT.	250.00				257+74.05	259+06.00	10	13							1		1							202		
L	259+99.03	266+80.28	RT.	681.25				261+24.03	266+80.28	10	13							1		1							428		
L	273+31.25	274+00.00	RT.	68.75				274+00.00		10	13							1					1				339		
L	280+25.00	284+56.25	RT.	431.25				281+25.00	284+56.25	10	13							1		1							351		
Y24	12+10.00	13+41.25	LT	131.25				13+00.00	12+87.80	2	5							2											
DR10	10+00.00	10+75.00	RT.	50.00	62.5			10+00.00		2	5						2												
L	282+53.84	284+94.84	CL																								241		
L	285+50.00	288+56.25	RT.	306.25				286+75.00	288+56.25	10	13							1		1									
Y25	10+80.26	-	CL	50.00						-	-										2								2 TERMINAL END SECTIONS ARE USED
L	290+20.00	298+01.25	RT.	781.25				291+45.00	298+01.25	10	13							1		1							727		
L / Y27	298+75.00	12+64.10	RT. / RT.	462.50	43.75			299+91.35 L	11+39.10 Y27	10	13							2									302		
L	300+00.00	307+25.00	LT.	725.00				306+00.00	299+93.75	10	13							1		1							553		
L	303+06.25	304+75.00	RT.	168.75				304+75.00		10	13							1					1						
L	304+75.00	308+75.00	RT.																							400			
DR11	12+69.93	15+69.93	LT.	300.00				15+69.93	13+94.93	2	5							1		1							253		
DR12	11+06.25	14+25.00	RT.	318.75				12+25.00	14+25.00	2	5						2												
Y30 / L	12+28.51	320+96.33	LT. / RT.	618.75	100			11+09.04 Y30	320+96.33 L	10	13							1		1									
L	315+25.48	321+27.77	CL																								602		
L	317+02.75	318+59.00	LT.	156.25				317+34.00	317+02.75	10	13							1		1							205		
L / Y31	319+07.77	13+10.64	LT. / RT.	456.25	81.25			14+38.22 Y31	319+07.77 L	10	13							1		1							365		
L	321+79.17	322+98.23	RT.																								119		
L	323+32.53	324+89.95	RT.																								157		
Y31/L	15+12.82	327+56.91	RT.	362.50	93.75			327+25.66	327+56.91	10	13							1		1									
L	327+43.75	331+00.00	LT.	356.25				329+75.00	327+43.75	10	13							1		1							328		
L / Y34	340+99.56	10+40.04	LT. / RT.	781.25	106.25			11+65.04 Y34	340+95.21 L	10	13							1		1							715		
L	344+00.84	346+69.59	RT.	268.75				345+17.01	346+64.09	10	13							1		1									
L	344+11.59	348+70.23	CL																								459		
Y34 / Y35	10+40.00	11+33.37	LT. / RT.	81.25	50				10+40.00 Y34	6	9							1				1							
L	354+25.00	358+75.00	RT.	450.00				355+75.00	358+81.25	10	13							1		1							402		
DR14	10+00.00	11+26.97	LT.	50.00	75			10+85.00	-	2	5						2												
L	359+93.75	360+75.00	RT.	81.25				360+75.00		10	13							1					1						
DR15	11+78.08	13+59.33	RT.	181.25				11+75.00		2	5						2												
L	363+50.00	373+00.00	RT.	950.00				363+50.00	373+00.00	10	13									1			1				1086		
L	366+63.09	371+69.72	RT.																								507		
L	367+93.75	370+75.00	LT.	281.25				369+50.00	367+93.75	10	13							1		1									
L	378+77.46	382+57.05	LT.																								380		
L	381+00.00	388+81.25	RT.	781.25				382+25.00	388+81.25	10	13							1		1							552		
L	393+25.00	399+56.25	RT.	631.25				394+50.00	399+56.25	10	13							1		1							378		
L	397+93.75	403+50.00	LT.	556.25				402+25.00	397+93.75	10	13							1		1							234		
L	401+75.00	405+06.25	RT.	331.25				403+00.00	405+06.25	10	13							1		1									
L / DR17	408+23.94	12+50.00	RT. / RT.	387.50	93.75			409+48.94 L	11+32.27 DR17	10	13							2									167		
L	411+22.81	416+16.56	RT.	493.75				412+47.81	416+16.56	10	13							1		1							413		
DR18	10+68.09	13+24.34	LT. / RT.	193.75	62.50			11+81.35		2	5						2												
L	427+50.00	430+37.50	RT.	287.50				428+75.00	-	10	13							1									320		TIE TO EXISTING GUARDRAIL
L	428+02.75	430+40.00	LT.	231.25				-	428+02.75	10	13									1							283		TIE TO EXISTING GUARDRAIL
L	44+50.00	47+00.00	LT.			250.00																							
Y31	13+00.00	15+25.00	RT.			150.00	75.00												1										
SHEET 2 TOTAL				14,018.75	768.75	400.00											10	34	1	23	2	1	4			400	11,068		
SHEET 1 TOTAL				18,456.25	743.75	400.00											12	32	3	20	4	1	29		6		14,678		
PROJECT TOTAL				32,475.00	1512.5	800.00	75.00										22	66	4	43	6	2	33		6	400	25746		
TEMP. GRAU-350 ANCHOR DEDUCTION						-200																							
GRAU-350 ANCHOR DEDUCTION				-3,300																									
GRAU-350 TL-2 ANCHOR DEDUCTION				-550																									
CAT-1 ANCHOR DEDUCTION				-269																									
AT-1 ANCHOR DEDUCTION				-13																									
TYPE B-77 ANCHOR DEDUCTION				-619																									
TOTAL DEDUCTIONS				-4,750.00		-200.00																							
GRAND TOTAL AFTER DEDUCTIONS				**27,725.00**	**1,512.50**	**600.00**	**75.00**										**22**	**66**	**4**	**43**	**6**	**2**	**33**		**6**	**400**	**25,746**		
	ADDITIONAL GUARDRAIL POSTS = 15																												