WSRAL-1109B

COMPUTED BY:	CY/WCB	DATE:	6/27/16 ; 8/12/16
CHECKED BY:	BKE	DATE:	6/27/16 ; 8/12/16

PROJECT REFERENCE NO.	SHEET NO.
R-2915C	3B-3

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

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.	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	EXTRA LENGTH GUARDRAIL POSTS (8' STEEL) EACH	REMOVE & RESET EXISTING GUARDRAIL	REMARKS
				STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END			APPROACH END	TRAILING END	APPROACH END	TRAILING END	B-77	XI	GRAU 350	M-350	XIII	CAT-1	VI MOD	TYPE III	AT-1	TES	G	NG					
L/Y1A	250+70.00	12+05.13	RT	112.50	87.50			250+70.00	8	11		50		1			1													TIE TO EXIST GUARDRAIL
L	251+60.18	255+58.14	LT	112.50	25.00		254+30		10	13	50		1				1											137.5			TIE TO EXIST GUARDRAIL
L	263+40.00	268+77.50	LT	525.00			267+52.5	263+40.00	10	13	50		1				1			1											
L/Y3	265+45.00	12+75.00	RT	225.00	62.50			12+00.00	10	13	50	50	1	1			2														
Y3/L	11+23.00	268+47.00	LT/RT	200.00	50.00		10+50.00	268+37.50	10	13	50		1				1			1											
L	279+80.00	282+85.00	LT	312.50			*	279+80.00	10	13	50		1				1			1											*GUARDRAIL SEGMENTED FOR DRIVE ACCESS
L/DRW4	281+50.00	13+41.63	RT	387.50	175.00		281+43.00	13+41.63	2	3										1			1						70.00		REQUIRES 8' LONG GUARDRAIL POSTS ON -DRW3-
L	283+15.75	288+28.25	LT	525.00			287+00.00	*	10	13	50		1				1			1											*GUARDRAIL SEGMENTED FOR DRIVE ACCESS
DRW5/L	10+31.90	295+01.64	LT	237.50	50.00		*		10	13	50		1				1						1								*GUARDRAIL SEGMENTED FOR DRIVE ACCESS
L	295+30.00	304+67.50	LT	937.50			303+00.00	*	10	13	50		1				1			1											*GUARDRAIL SEGMENTED FOR DRIVE ACCESS
L	296+54.00	300+29.00	RT	375.00			297+79.00	*	10	13	50		1				1			1											*GUARDRAIL SEGMENTED FOR DRIVE ACCESS
L/Y4	300+73.00	19+22.43	RT	1250.00	50.00		*		10	13	50		1				1											300			*GUARDRAIL SEGMENTED FOR DRIVE ACCESS/ TIE TO EXISTING GUARDRAIL
L	315+66.00	320+18.00	LT	325.00	162.50		319+50.00	315+66.00	10	13	6.25									1			1								
L	321+25.00	323+75.00	LT	250.00				322+39.25	10	13	50		1				1			1											
L	332+09.00	343+71.50	LT	1125.00			342+46.50	332+09.00	10	13	50		1				1			1											
L	348+07.50	359+70.00	LT	1162.50			*	348+07.50	10	13	50		1				1			1								1600			*GUARDRAIL SEGMENTED FOR DRIVE ACCESS
L/Y7	349+75.00	13+78.31	RT	450.00	162.50		351+00.00		10	13	50	50	1	1			2														
L	360+00.00	375+37.50	LT	1437.50	162.50		*	*	10	13	50		1				1			1											*GUARDRAIL SEGMENTED FOR DRIVE ACCESS ;REQUIRES 8' LONG GUARDRAIL POSTS(BULB OUT)
Y9REV/L	11+62.20	376+66.25	LT/RT	175.00	125.00			375+00.00	10	13										1			1						19.00		
L	376+00.00	377+25.00	LT	125.00			375+25.00	*	10	13	50	50	1	1			2														*GUARDRAIL SEGMENTED FOR -Y- LINE ACCESS
Y8AREV	10+00.00	11+70.00	RT	62.50	125.00		10+00.00	11+70.00	4	7	50		1				1							1					32.00		REQUIRES 8' LONG GUARDRAIL POSTS
L/Y10	381+75.00	10+93.00	RT	125.00	68.75		383+00.00		10	13	50		1				1						1								
Y10/L	10+90.54	397+24.75	LT/RT	1312.50	62.50			396+00.00	10	13										1			1					1087.5			
Y12/L	11+30.67	410+28.00	LT/RT	525.00	12.50			409+00.00	10	13										1								887.5			TIE TO EXISTING GUARDRAIL
L	418+25.00	428+25.00	RT	1000.00			419+50.00		10	13	50		1				1			1											
L	428+60.00	438+07.50	RT	825.00	162.50		*	438+07.50	10	13	50		1				1			1											*GUARDRAIL SEGMENTED FOR DRIVE ACCESS
L	456+50.00	460+06.30	LT																								356.3				
L	460+06.30	461+25.05	LT	118.75				460+06.30	9	12	50		1		1		1														
		SUB-TOTAL		14218.75	1543.75										1		25			17			6	1			356.3	4012.5	121		
LESS ANCHORS:																															
GRAU-350		25	@ 50.00'	-1250.00																											
CAT-1		17	@ 6.25'	-106.25																											
AT-1		6	@ 6.25'	-37.50																											
B-77		1	@ 18.75'	-18.75																											
		TOTAL		**12806.25**	**1543.75**										**1**		**25**			**17**			**6**	**1**			**356.3**	**4012.5**	**121**		
		SAY		**12,825.00**	**1,550.00**																										
		ADDITIONAL POSTS= 10 EA																													

TEMPORARY GUARDRAIL				TEMP STRAIGHT	TEMP SHOP CURVED										TEMP B-77		TEMP GRAU 350						TEMP AT-1							
L_DET	15+25.00	24+50.00	LT	1025.00			23+23.00	16+50.00	4	7	50	50	1	1			2													SEE TMP PLANS/100' ADDED FOR 2 TEMP GRAU 350
L_DET	28+46.50	32+71.50	LT	525.00				29+71.50	4	7	50	50	1	1			2													SEE TMP PLANS/100' ADDED FOR 2 TEMP GRAU 350
L_DET	33+06.22	47+06.22	RT	1500.00			34+31.00	45+75.00	4	7	50	50	1	1			2													SEE TMP PLANS/100' ADDED FOR 2 TEMP GRAU 350
L_DET	33+00.00	43+50.00	LT	1150.00			42+25.00	33+00.00	4	7	50	50	1	1			2													SEE TMP PLANS/100' ADDED FOR 2 TEMP GRAU 350
L_XO1/Y7	13+00.00	10+70.25	RT	250.00	106.25		14+00.00		6	9	50	6.25	1				1						1							SEE TMP PLANS/50' ADDED FOR 1 TEMP GRAU 350
L	263+00.00	265+50.00	RT	250.00							50	50					2													SEE TMP PLANS/100' ADDED FOR 2 TEMP GRAU 350
L	262+98.00	262+98.00	LT								50						1													SEE TMP PLANS
L	268+89.00	268+89.00	RT								50						1													SEE TMP PLANS
L	371+87.00	373+25.00	LT	158.75							50				1															SEE TMP PLANS
L	376+00.00	376+00.00	LT								50						1													SEE TMP PLANS
L	280+00.00	280+00.00	LT								50						1													SEE TMP PLANS
L	283+00.00	283+00.00	LT								50						1													SEE TMP PLANS
L	285+50.00	289+00.00	LT	350.00																										SEE TMP PLANS
L	300+00.00	300+00.00	RT								50						1													SEE TMP PLANS
L	352+20.00	352+20.00	LT								50						1													SEE TMP PLANS
L	360+00.00	360+00.00	LT								50						1													SEE TMP PLANS
Y9REV	10+65.72	10+80.86	RT		44.00						18.75				1															SEE TMP PLANS
L	281+50.00	281+50.00	RT								50						1													SEE TMP PLANS
L	373+25.00	373+25.00	RT	18.75							6.25	18.75			1								1							SEE TMP PLANS
L	373+25.00	373+25.00	LT																										100	SEE TMP PLANS
L	373+25.00	373+25.00	LT																										412.5	SEE TMP PLANS
		SUB-TOTAL		5227.50	150.25										3		20						2						512.5	
LESS ANCHORS:																														
TEMP TYPE B-77		3	@18.75'	-37.50	-18.75																									
TEMP GRAU-350		20	@ 50.00'	-1000																										
TEMP AT-1		1	@6.25'		-6.25																									
		TOTAL		**4190.00**	**125.25**										**3**		**20**						**2**						**512.5**	
		SAY		**4,200.00**	**137.50**																									