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DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO.	SHEET NO.
A-0009CB	3B-2

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 BEGINNING OF TAPER TO END OF GUARDRAIL

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		EXTRA LENGTH GUARDRAIL POSTS (8' STEEL)	REMOVE & RESET EXISTING GUARDRAIL	REMOVE EXISTING GUARDRAIL	REMARKS
				STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END			APPROACH END	TRAILING END	APPROACH END	TRAILING END		B-77	GREU, TL-3	GREU, TL-2	CAT-1	AT-1	B-77 SC	END SECTION	G	NG				
-L-	211+50.00	216+50.00	LT	500.00					8'	11'	50'	50'	1'	1'			2											
-L-	237+78.00	238+79.00	LT	62.50	62.5				8'	11'										2								SHOP CURVED GUARDRAIL = 20'R
-L-	239+06.25	241+00.00	LT	193.75					8'	11'	50'	50'	1'	1'			2											
-L-	241+43.75	251+00.00	LT	956.25					8'	11'	50'	50'	1'	1'			2											
-L-	259+50.00	268+75.00	LT	925.00					8'	11'	50'	50'	1'	1'			2										414.6	
-L-	268+45.88	269+25.00	RT	79.125					8'	8'	50'		1'			1	1											TIE TO SGL FACED BARRIER
-L-	269+40.00	271+71.25	LT	231.25					8'	11'	50'	50'	1'	1'			2											
-L-	275+22.50	278+85.00	LT	362.50					8'	11'	50'	50'	1'	1'			2										162.9	
-L-	279+10.00	282+92.00	LT	393.75	37.5				8'	11'		50'		1'			1	1									448.2	SHOP CURVED GUARDRAIL = 20'R
-L-	10+84 -Y4-	296+20.00	RT	1,712.50	37.5				8'	11'		50'		1'			1			1							1,722.8	SHOP CURVED GUARDRAIL = 20'R
-L-	296+70.00	298+20.00	RT	150.00					8'	11'	50'	50'	1'	1'			2										186.6	
-L-	299+23.40	301+48.40	RT	225.00					8'	11'	50'	50'	1'	1'			2										173.9	
-L-	302+26.60	306+51.60	RT	425.00					8'	11'	50'	50'	1'	1'			2										303.6	
-L-	304+02.00	306+07.00	LT																								205.7	
-L-	309+25.00	314+25.00	RT	500.00					10.3'	13.3'	50'	50'	1'	1'			2										352.6	SHOULDER GUTTER INSTALLATION
-L-	311+61.00	313+30.00	LT	156.25	37.5				8'	11'		50'		1'			1			1							203.0	SHOP CURVED GUARDRAIL = 20'R
-L	316+37.50	317+81.25	RT	131.25	18.75				10.3'	13.3'									1	1					20			SHOULDER BERM GUTTER INSTALLATION, SHOP CURVED GUARDRAIL = 20'R, **USE EXTRA DEPTH GUARDRAIL POSTS: 117FT@65.25=18.7; SAY 20 EA**
-L-	318+50.13	319+29.25	RT	79.125					8'	8'	50'		1'			1	1											TIE TO SGL FACED BARRIER
-L-	321+08.37	321+87.50	RT	79.125					8'	8'		50'		1'		1	1											TIE TO SGL FACED BARRIER
-L-	325+00.00	328+75.00	RT	375.00					10.3'	13.3'	50'	50'	1'	1'			2											SHOULDER GUTTER INSTALLATION
-L-	330+66.00	330+81.78	LT		29.125				8'	11'										1	1							TIE TO SGL FACED BARRIER, TYPE B-77 SC = 15'R
-L-	333+24.11	333+24.11	LT		29.125				8'	11'										1	1							TIE TO SGL FACED BARRIER, TYPE B-77 SC = 20'R
-L-	331+75.00	335+00.00	RT	325.00					10.3'	13.3'	50'	50'	1'	1'			2										269.3	SHOULDER GUTTER INSTALLATION
-L-	335+67.00	341+61.00	RT	506.25	62.5				10.3'	13.3'										2							476.2	SHOULDER GUTTER INSTALLATION, SHOP CURVED GUARDRAIL = 20'R
-L-	339+28.45	341+20.00	LT	175.00	31.25				8'	11'		50'		1'			1			1							197.7	SHOP CURVED GUARDRAIL = 20'R
-L-	341+36.00	341+76.20	LT	22.875	31.25				8'	11'						1				1							34,463.0	TIE TO SGL FACED BARRIER, SHOP CURVED GUARDRAIL = 20'R
-L-	344+10.55	344+48.15	LT	22.875	25				8'	11'						1				1								TIE TO SGL FACED BARRIER, SHOP CURVED GUARDRAIL = 20'R
-L-	343+60.00	354+47.50	RT	1,087.50					10.3'	13.3'	50'	50'	1'	1'			2										1,067.5	SHOULDER GUTTER INSTALLATION
-L-	344+63.00	344+81.00	LT		29.125															1	1							TIE TO SGL FACED BARRIER, TYPE B-77 SC = 20'R
-L-	346+76.12	347+94.84	LT	120.75					8'	11'						2												TIE TO SGL FACED BARRIER
-L-	350+64.13	358+77.00	LT	814.50					8'	11'						2												TIE TO SGL FACED BARRIER
-L-	356+52.00	373+64.51	RT	1,633.25	125				8'/10.3'	11'/13.3'	50'	50'	1'	1'		2											1,434.4	SHOULDER GUTTER INSTALLATION, SHOPED CURVED GUARDRAIL = 20'R & 68'R
-L-	362+94.00	369+40.00	LT	650.00					8'	11'						2												TIE TO SGL FACED BARRIER
-L-	374+12.50	380+50.00	RT	637.50					8'	11'	50'		1'			1											730.7	TIE TO SGL FACED BARRIER
-L-	375+26.00	376+65.00	LT	143.75					8'	11'						2												TIE TO SGL FACED BARRIER
-L-	375+53.58		CL																				1					TIE TO DBL FACED BARRIER
-L-	385+30.00		CL																				1					TIE TO DBL FACED BARRIER
-L-	382+30.00	383+32.93	RT	116.625					8'	11						1				1								TIE TO SGL FACED BARRIER
-L-	383+28.40	384+80.29	RT	87.50																2								
-L-	384+80.00	414+07.00	RT	2,842.50	93.75				8'/10.3'	11'/13.3'										2					10		2,989.3	SHOULDER GUTTER INSTALLATION, SHOPED CURVED GUARDRAIL = 10'R; **USE EXTRA DEPTH GUARDRAIL POSTS:50FT @6.25=8, SAY 10 EA**
-L-	408+04.00	409+44.00	LT	143.75												2												TIE TO SGL FACED BARRIER
-L-	411+75.00	413+04.13	RT	129.000					8'	11'		50'		1'		1	1											TIE TO SGL FACED BARRIER
SUB-TOTALS				16996.000	649.875											20	34	1	1	18	3			2	30		45,802.0	
LESS ANCHOR DEDUCTIONS																												
	TYPE B-77	20@22.875 FT		457.500																								
	TYPE TL-3	34 @ 50.00 FT		1,700.00																								
	TYPE TL-2	1@ 25.00 FT		25.00																								
	CAT-1	1@ 6.25 FT		6.25																								
	AT-1	18@ 6.25 FT		12.50	100.00																							
	TYPE B-77 SC	3@22.875 FT			68.625																							
ANCHOR TOTAL				2,201.250	168.625																							
GRAND-TOTALS				14,794.75	481.25											20	34	1	1	18	3			2	30		45,802.00	
SAY				**14,825**	**500**											**20**	**34**	**1**	**1**	**18**	**3**			**2**	**30**		**45,802**	
ADDITIONAL GUARDRAIL POSTS =				**10 EA**																								
TEMPORARY GUARDRAIL																												
-L-	247+50.00	252+25.00	LT	475.00														2										TEMPORARY ANCHOR UNITS
-L-	249+22.00	250+78.25	RT	156.25														2										TEMPORARY ANCHOR UNITS
-L-	315+37.20	316+93.45	LT	156.25														2										TEMPORARY ANCHOR UNITS
SUB-TOTALS				787.50														6										
LESS ANCHOR DEDUCTIONS																												
	TEMP. TYPE TL-2	6@ 25.00 FT		150.00																								
ANCHOR TOTAL				150.00																								
GRAND-TOTALS				637.50														6										
SAY				**650**														**6**										