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COMPUTED BY: SGM DATE: 6/17/2022
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DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

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

"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.	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-	414+25.00	417+20.00	RT	256.250	68.75				8'	11'										2							275.8	
-L-	420+25.00	432+75.00	RT	1250.000					8'	11'	50'	50'	1'	1'			2										908.8	
-L-	434+81.25	455+00.00	RT	2018.750					8'	11'	50'	50'	1	1'			2										1,930.9	SHOULDER GUTTER INSTALLATION (438+00 TO 448+97,451+86 TO 453+62)
-L-	436+64.00	438+97.25	LT	233.250					19.5' - 8'	22.5' - 11'							2											TIE TO SGL FACED CONCRETE BARRIER
-L-	442+58.42	443+62.55	LT	104.125					8'	11'	50'		1'			1	1											TIE TO SGL FACED CONCRETE BARRIER
-L-	445+73.38	448+40.00	LT	266.625					8'	11'		50'		1'		1	1											TIE TO SGL FACED CONCRETE BARRIER
-L-	452+24.00	453+26.00	LT	102.000					8'	11'						2												TIE TO SGL FACED CONCRETE BARRIER
-L-	456+25.00	459+47.88	LT	322.875					8'	11'	50'		1'			1	1										213.4	TIE TO SGL FACED CONCRETE BARRIER
-L-	465+75.00	470+50.00	RT	475.000					8'	11'	50'	50'	1'	1'			2										385.3	
-L-	471+75.00	472+54.13	LT	79.125					8'	11'	50'		1'			1	1											TIE TO SGL FACED CONCRETE BARRIER
-Y2-	12+61.13	14+59.00	LT	197.875					4' - 8'	7' - 11'		50'		1'		1	1								35			TIE TO SGL FACED CONCRETE BARRIER; **USE EXTRA DEPTH GUARDRAIL POSTS: 197.88@ 6.25=31.7, SAY 35 EA**
-Y2-	12+60.00	14+47.50	RT	187.500					4'	7'	50'	50'	1'	1'			2								35			**USE EXTRA DEPTH GUARDRAIL POSTS: 187.5@ 6.25=30, SAY 35 EA**
-Y2-	16+24.00	16+76.00	LT	52.000					8'	11'						2												TIE TO SGL FACED CONCRETE BARRIER
-Y2-	18+70.00	19+43.40	LT	79.125					8'	11'	50'		1'			1	1											TIE TO SGL FACED CONCRETE BARRIER
-Y2-	22+50.00	39+18.75	LT	1668.750					8'	11'	50'	50'	1'	1'			2										1,157.7	SHOULDER GUTTER INSTALLATION (27+00 TO 28+25)
-Y2-	26+24.00	37+24.00	RT	1100.000					8'	11'	50'	50'	1'	1'			2										151.9	
-Y2-	46+00.00	51+00.00	RT	500.000					8'	11'	50'	50'	1'	1'			2										376.1	
-Y2-	47+44.00	67+00.00	LT	1906.250	87.5				8'	11'										2							1,723.4	SHOULDER GUTTER INSTALLATION (47+50 TO 52+57, 58+90 TO 63+22)
-Y2-	58+27.00	63+75.00	RT	535.375	37.5				8'	11'										1							250.6	TIE TO SGL FACED CONCRETE BARRIER
-Y2-	66+03.00	66+18.00	RT	15.000	35.375				8'	11'										1	1							TIE TO SGL FACED CONC BARRIER; TYPE B-77 SC = 15'R
-Y2-	66+40.00	71+25.00	RT	462.500	37.5				8'	11'		50'		1'			1			1							303.5	SHOULDER GUTTER INSTALLATION
-Y2-	67+38.00	68+55.00	LT	50.000	81.25				8'	11'										2								
-Y2-	70+45.88	71+25.00	LT	79.125					8'	11'		50'		1'		1	1											TIE TO SGL FACED CONCRETE BARRIER
-Y2-	72+75.00	73+54.13	LT	79.125					8'	11'	50'		1'			1	1											TIE TO SGL FACED CONCRETE BARRIER
-Y2-	75+49.50	81+99.50	RT	650.000					8'	11'	50'	50'	1'	1'			2											
-Y2-	83+82.50	89+20.00	RT	537.500					8'	11'	50'	50'	1'	1'			2											
-Y2-	88+25.00	88+45.00	LT		29.125				8'	11'										1	1							TIE TO SGL FACED CONC BARRIER; TYPE B-77 SC = 20'R
SUB-TOTALS				13,208.125	377.000											12	29			10	2				70		7,677.4	
LESS ANCHOR DEDUCTIONS																												
	TYPE B-77	12@22.875 FT		274.500																								
	TYPE TL-3	29 @ 50.00 FT		1,450.000																								
	AT-1	10 @ 6.25 FT			62.500																							
	TYPE B-77 SC	2@22.875 FT			45.750																							
ANCHOR TOTAL				1,724.500	108.250																							
GRAND-TOTALS				11,483.625	268.75											12	29			10	2				70		7,677.40	
SAY				**11,500**	**275**											**12**	**29**			**10**	**2**				**70**		**7,678**	
ADDITIONAL GUARDRAIL POSTS =				**10 EA**																								
TEMPORARY GUARDRAIL																												
-Y2-	25+10.00	29+10.00	LT	400.00													1		1									TEMPORARY ANCHOR UNITS
-Y2-	64+30.00	66+97.00	LT	250.00	37.5															1								TEMPORARY ANCHOR UNIT; TIE TO EXIST. GUARDRAIL
SUB-TOTALS				650.00	37.50												1		1	1								
LESS ANCHOR DEDUCTIONS																												
	TEMP. TYPE TL-3	1 @ 50.00 FT		50.00																								
	TEMP. TYPE CAT-1	1@ 6.25 FT		6.25																								
	TEMP. TYPE AT-1	1 @ 6.25 FT			6.25																							
ANCHOR TOTAL				56.25	6.25																							
GRAND-TOTALS				593.75	31.25												1		1	1								
SAY				**600**	**37.5**												**1**		**1**	**1**								