COMPUTED BY: REO DATE: 2-8-19
CHECKED BY: GP DATE: 2-8-19

PROJECT REFERENCE NO.	SHEET NO.
R-5797	3B-3

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									IA-MASH TL-3			REMOVE EXISTING GUARDRAIL	MEDIAN HAZARD PROTECTION		REMARKS
				STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END			APPROACH END	TRAILING END	APPROACH END	TRAILING END	GREU TL-3	TYPE B-77	CAT-1	AT-1	TYPE III					NO.	PERMITTED G	PERMITTED NG				
-L-	14+88.94	17+88.94	LT.	300.00'					9.24'	12.24'	281.25'		5.6'		1	1											300'			
-L-	14+88.94	17+88.94	MED. LT.	300.00'					12'	15'	281.25'		5.6'		1	1											175'			
-L-	14+86.71	16+12.70	MED. RT.																								126'			
-L-	14+86.71	20+34.00	RT.	547.29'					11.3'	14.3'		444.54'		8.89'		1	1										500'			
-L-	42+39.23	68+00.00	RT.												1												2,562.5'			
-DR1- /-Y1A-	10+42.88	21+50.00	RT.	210.51'	158.25'				2'	13.5'							1	1												
-RPB-	16+80.41	21+02.99	LT.	422.58'			17+00.00	20+00.00	12'			50.0'		1'	1		1													
-Y1B-	28+08.75	29+58.75	RT.	150.00'			29+58.75		3.625'	5.625'	50.0'		1'		1				1											
-Y1B-	31+72.91	33+22.91	LT.	150.00'			31+72.91		3.625'	5.625'	50.0'		1'		1				1											
-RPA- /-RAB-	16+10.32	14+80.79	RT.	1,333.77'			17+10.32	14+80.79	12'	15'	50.0'		1'		1		1													
-RPC-	13+20.49	20+01.09	RT.	680.60'			14+20.49	20+01.09	12'	15'	50.0'		1'		1		1													
-RPD-	20+00.00	23+50.00	LT.	350.00'			22+50.00	20+00.00	12'	15'	50.0'		1'		1		1													
-L-	40+66.05		MED.																						1					
-L-	40+87.05	41+58.33	MED. RT.	71.28'			41+58.33		26.5'	30'0'	52.52'		3.5'						1											
-L-	42+12.39	42+83.49	MED. RT.	71.28'				42+12.39	26.5'	30'0'		52.52'		3.5'					1											
-L-	40+87.05	41+58.33	MED. LT	71.28'			40+87.05		26.5'	30'0'	52.52'		3.5'						1											
-L-	42+12.39	42+83.49	MED. LT	71.28'				42+12.39	26.5'	30'0'		52.52'		3.5'					1											
-L-	53+04.50		MED.																						1					
-L-	41+58.33	42+12.39	MED. LT																									54.06'		
-L-	41+58.33	42+12.39	MED. RT.																									54.06'		
SUBTOTAL:				4,729.87'	158.25'										9	3	6	1	6						2		3,663.50'	108.12'		
		9 GREU TL-3 @50.00'		-450.00'																										
		3 B-77 @22.875'		-68.63'																										
		6 CAT-1 @6.25'		-37.50'																										
		1 AT-1 @6.25'		-6.25'																										
		6 TYPE III @18.75'		-112.50'																										
GRAND TOTAL:				4,055.00	158.25'										9	3	6	1	6						2		3,663.50'	108.12'		
SAY:				4,062.50'	162.50'		10 ADDITIONAL GUARDRAIL POST								9	3	6	1	6						2		3,663.50'	110.00'		

TEMPORARY 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									IMPACT ATTENUATOR TYPE 350			REMOVE EXISTING GUARDRAIL			REMARKS
				STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END			APPROACH END	TRAILING END	APPROACH END	TRAILING END	TYPE TL-3	TYPE B-77	CAT-1	AT-1	TYPE III					NO.	PERMITTED G	PERMITTED NG				
-L-	71+00.00	79+87.50	MED. RT.	887.5'			71+00.00	80+00.00	6'	9'	50.0'	50.0'	1'	1'	2															
-L-	71+00.00	79+87.50	MED. LT.	887.5'			71+00.00	80+00.00	6'	9'	50.0'	50.0'	1'		1		1													
SUBTOTAL:				1,775.00'											3		1													
		3 TYPE TL-3 @50.00'		-150.00'																										
		1 CAT-1 @6.25'		-6.25'																										
GRAND TOTAL:				1,618.75'											3		1													
SAY:				1,625.00'											3		1													

CABLE GUIDERAIL SUMMARY

SURVEY LINE	BEG. STA.	END STA.	LOCATION	ANCHORS	LENGTH	REMOVAL
-L-	15+05.61	35+55.61	CL	2	2,050.00'	1,865.04
-L-	35+55.61	40+47.19	CL	2	491.50'	
-L-	43+23.49	63+73.49	CL	2	2,050.00'	1,969.61'
*-L-	63+23.49'	82+25.00	CL	2	1,901.51'	1,851.51'
-L-	63+48.49		CL	1		
**-L-	71+31.00		CL	1		
SUBTOTAL:				10	6,493.01	5,686.16'
ANCHOR DEDUCTION 8@ 25'					-200.00'	
GRAND TOTAL:				10	6,293.01	5,686.16'
SAY:				10	6,300.00'	5,700.00'
NOTE: ** TEMP. ANCHOR.						
10 ADDITIONAL GUIDERAIL POST						

NOTE: *-L- STA. 71+56.00 TO 82+25.00 WILL HAVE TO BE INSTALLED WHEN MED. CROSSOVER IS REMOVED.

9/16/99
2/24/2021
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