12/06/07

COMPUTED BY: PJ DATE: 1-28-2026
CHECKED BY: TJ DATE: 1-28-2026

PROJECT REFERENCE NO.	SHEET NO.
BP7.R001	3B-2

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 IA – MASH TL3
NG = NON-GATING IMPACT ATTENUATOR IA – MASH TL-3

GUARDRAIL SUMMARY

SURVEY LINE	BEG. STA.	END STA.	LOCATION	LENGTH			WARRANT POINT		"N" DIST. FROM E.O.L.	TOTAL SHOUL. WIDTH	FLARE LENGTH		W		ANCHORS								IA – MASH TL3 ATTENUATOR			SINGLE FACED GUARDRAIL	REMOVE EXISTING GUARDRAIL	EXTRA LENGTH POSTS	REMARKS
				STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END			APPROACH END	TRAILING END	APPROACH END	TRAILING END	XI MOD	XI	GREU TL-2	GREU TL-3	TYPE III	B-77	CAT-1	AT-1	TES	EA	G	NG				
–L–	13+70.00	15+38.79	RT	91.45′	84.29′				VAR. SEE PLANS	VAR. SEE PLANS																	206.30′	52	TIE TO EXIST GUARDRAIL AT BOTH ENDS – USE 8′ STEEL POSTS
–L–	15+89.96	20+99.02	RT	446.135′	119.74			20+99.02 (BARRIER)	8′	11′										1								480.81′		TIE TO EXISTING GUARDRAIL
–L–	19+40.89	20+41.52	LT	100.635′				20+41.52 (BARRIER)	8′	11′										1	1									
–L–	23+56.88	25+08.72	RT	153.175′				23+56.88 (BARRIER)	8′	11′										1	1									
–L–/–RPA–	22+99.52	13+54.35	LT/RT	244.865′	41.37′		22+99.52 (BARRIER)		8′	11′										1		1						105.05′		
–L–	30+63.61	32+50.00	RT	212.62′			32+50.00 (BRIDGE)		VAR. SEE PLANS	VAR. SEE PLANS	50′		1					1	1									216.17′		TIE TO EXISTING BRIDGE
–L–	30+92.91	32+49.11	LT	111.31′				32+49.11 (BRIDGE)	VAR. SEE PLANS	VAR. SEE PLANS		50′		1				1	1									165.87′		TIE TO EXISTING BRIDGE
–Y–	19+89.63	21+00.00	RT	110.375′			21+00.00 (BARRIER)		18′	21′	50′		1					1		1										
–Y–	22+71.23	25+50.00	RT	279.05′			22+71.23 (BARRIER)		VAR. SEE PLANS	VAR. SEE PLANS										1								235.39′		TIE TO EXISTING GUARDRAIL
–Y–	24+68.40	25+53.77	LT	85.375′			24+68.40 (BARRIER)		24′	27′	50		1					1		1								291.26′		
–Y–	21+61.36	22+27.73	CL/RT	66.425′			22+27.73 (BARRIER)		20.25′	23′										1						1		390.32′		
–Y–	21+61.36	22+27.73	CL/LT	66.425′				22+27.73 (BARRIER)	20.25′	23′										1										
–Y–	23+09.05	23+75.42	CL/RT	66.425′			23+09.05 (BARRIER)		20.25′	23′										1						1		390.04′		
–Y–	23+09.05	23+75.42	CL/LT	66.425′				23+09.05 (BARRIER)	20.25′	23′										1										
			TOTAL	2,100.69′	245.40′																									
		LESS DEDUCTION FOR ANCHOR UNITS																												
		GREU TL-3	4 X 50′ =	–200.00′																										
		TYPE III	2 X 18.75′ =	–37.50																										
		B-77	11 X 22.875′ =	–251.625′																										
		CAT-1	2 X 6.25′ =	–12.50′																										
		AT-1	1 X 6.25′ =	–6.25′																										
		ATTENUATOR	2 X 21.00′ =	–42.00′																										
			GRAND TOTAL	1,550.815′	245.40′													4	2	11	2	1				2		2,481.21′	52	
			SAY	1,562.50′	250.00′													4	2	11	2	1				2		2,500,00′	52	10 ADDITIONAL GUARDRAIL POSTS

PRECAST REINFORCED CONCRETE BARRIER, SINGLE FACED SUMMARY

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	LF
–Y–	21+00.00	22+71.23	RT	171
–Y–	22+66.73	24+68.40	LT	202
			TOTAL:	373
			SAY:	395

MEDIAN HAZARD PROTECTION SUMMARY

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	LF
–Y–	22+27.73	23+09.05	MED	81
			TOTAL:	81
			SAY:	85

CABLE GUIDERAIL SUMMARY

SURVEY LINE	STATION	STATION	LENGTH	END ANCHOR UNIT	INTERMEDIATE ANCHOR UNIT	REMOVE EXISTING GUIDERAIL	COMMENTS
–Y–	18+88.54	21+41.36	254′	1	1	56′	TIE TO EXISTING
–Y–	18+88.54	21+41.36	25′	1		33′	TIE TO EXISTING
		SUBTOTAL:	279′	2	1	89′	
LESS TERMINAL ANCHOR UNITS		2 @ 25′	–50′				
		GRAND TOTALS:	229′	2	1	89′	
		SAY:	230′	2	1	90′	5 ADDITIONAL GUIDERAIL POSTS

8:59:10 AM
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tsorrell