COMPUTED BY: MCP DATE: 10/6/2023
CHECKED BY: WET DATE: 10/6/2023

PROJECT REFERENCE NO.	SHEET NO.
HI-0016	3B-1

"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

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

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 TL-3				REMOVE EXISTING GUARDRAIL		REMARKS
				STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END			APPROACH END	TRAILING END	APPROACH END	TRAILING END	GREU TL-3	CAT-1	AT-1	B-77	TYPE-III				NO.	PERMITTED G	PERMITTED NG				
-I74EBL-	41+55.00	43+68.00		222.875			MATCH EXISTING						MATCH EXISTING		1			1									213		
-I74EBL-	40+75.00	43+68.00		297.875											1			1									293		
-I74EBL-	45+28.00	48+32.13		304.125												1		1									296		
-I74EBL-	150+86.00	152+92.25		206.250											1	1											187		
-I74EBL-	272+70.00	353+13.75		8,043.750											1	1											8,035		
-I74EBL-	403+40.00	438+96.25		3,556.250											1	1											3,538		
-I74EBL-	477+67.00	529+30.00		5,250.000											1												5,300		
-I74EBL-	589+06.00	590+76.85		185.375											1			1									125		
-I74EBL-	589+06.00	601+35.13		1,229.125												1		1									1,211		
-I74EBL-	606+70.00	614+20.00		706.250	112.50										1	1											819		
-I74EBL-	614+75.88	620+05.00		529.125	87.50												1	1									605		
-I74EBL-	618+32.13	620+05.00		172.875											1			1									152		
-I74EBL-	622+80.00	624+54.36		185.375											1			1									131		
-I74EBL-	622+80.00	627+82.00		508.250														2									506		
-I74EBL-	626+21.63	627+82.00		160.375											1			1									158		
-I74EBL-	629+16.00	630+88.18		172.875											1			1									129		
-I74EBL-	629+16.00	635+05.00		591.625														1	1								587		
-I74EBL-	633+36.25	635+05.00		168.750											1				1								150		
				22,491.125	**200.00**										**13**	**6**	**1**	**13**	**2**						**0**		**22,435**		
-I74WBL-	40+60.00	43+55.00		304.125			MATCH EXISTING						MATCH EXISTING			1		1									295		
-I74WBL-	45+10.00	48+20.38		310.375											1			1									293		
-I74WBL-	45+15.00	47+25.38		210.375											1			1									190		
-I74WBL-	152+38.75	154+45.00		206.250											1	1											189		
-I74WBL-	152+38.75	154+45.00		206.250											1	1											189		
-I74WBL-	174+33.75	177+40.00		306.250											1	1											300		
-I74WBL-	203+35.00	203+95.00		120.750														2							1		61		
-I74WBL-	204+72.00	205+32.00		120.750														2							1		54		
-I74WBL-	589+27.00	592+37.38		310.375											1			1									283		
-I74WBL-	589+27.00	591+74.88		247.875											1			1									220		
-I74WBL-	599+22.25	601+41.00		218.750											1	1											202		
-I74WBL-	606+38.88	620+18.00		1,379.125												1		1									1,363		
-I74WBL-	618+38.69	620+18.00		185.375											1			1									136		
-I74WBL-	622+96.00	627+98.00		508.250														2									500		
-I74WBL-	622+96.00	624+56.38		160.380											1			1									157		
-I74WBL-	626+13.37	627+98.00		197.875											1			1									141		
-I74WBL-	629+30.00	635+10.00		579.125														1	1								576		
-I74WBL-	629+30.00	630+90.38		160.375											1			1									150		
-I74WBL-	633+31.58	635+10.00		181.250											1				1								136		
				5,913.880	**0.00**										**13**	**6**	**0**	**17**	**2**						**2**		**5,435**		
LESS DEDUCTIONS FOR ANCHORS																													
			GREU TL-3 (26@50')=	-1300.000																									
			CAT-1 (12@6.25')=	-75.000																									
			AT-1 (1@6.25')=	-6.250																									
			B-77 (30@22.875')=	-686.250																									
			TYPE-III (4@18.75')=	-75.000																									
			IMPACT ATTENUATOR TYPE TL-3 (2@50')=	-100.000																									
			PROJECT TOTAL	**26,162.5**	**200.00**																								
ADDITIONAL GUARDRAIL POSTS = 25 EA.			**SAY**	**26,162.5**	**200**										**26**	**12**	**1**	**30**	**4**						**2**		**27,870**		

ASPHALT WEDGING SUMMARY

LINE	STATION	TO STATION	Pavement Layers/Type	Full Wedge Depth (IN)	S9.5C TONS	I19.0C TONS
EBL/WBL	88+64.92	88+94.92	1 Lift of 1.5" S9.5C	1.50	0.93	0.00
EBL/WBL	88+94.92	89+24.92	2 Lifts of 1.5" S9.5C	3.00	9.92	0.00
EBL/WBL	89+24.92	89+54.92	1 Lift of 1.5" S9.5C + 1 Lift of 3.34" I19.0C	4.84	12.02	3.16
EBL/WBL	89+54.92	100+00.00	2 Lifts of 1.5" S9.5C + 1 Lift of 3.79" I19.0C	6.79	12.50	5.14
EBL/WBL	100+00.00	130+50.69	1 Lift of 2.5" I19.0C	2.50	330.30	107.16
EBL/WBL	130+50.69	130+80.69	1 Lift of 2.0" S9.5C + 1 Lift of 4.0" I19.0C	6.00	483.11	531.18
EBL/WBL	130+80.69	131+10.69	1 Lift of 1.5" S9.5C + 1 Lift of 2.5" I19.0C	4.00	6.13	4.80
EBL/WBL	131+10.69	131+40.69	1 Lift of 1.8" S9.5C	1.80	3.75	0.66
EBL/WBL	131+40.69	131+70.69	1 Lift of 1.5" S9.5C	1.50	3.19	0.00
					0.85	
		TOTALS =			**870**	**660**

EXISTING CROSS-SECTIONS WERE DEVELOPED FOR WEDGING QUANTITIES FROM LIDAR ONLY AND ARE PROVIDED FOR INFORMATIONAL BIDDING PURPOSES ONLY. FINAL QUANTITIES MAY VARY.