COMPUTED BY:	Justin Blackman	DATE:	3/14/2019
CHECKED BY:	Susan Lancaster	DATE:	7/1/2021

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO.	SHEET NO.
I-5986B	3B-8

"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.	LOCATION	LENGTH			WARRANT POINT		"N" DIST. FROM E.O.L.	TOTAL SHOUL WIDTH	FLARE LENGTH		W		ANCHORS								IMPACT ATTENUATOR TYPE 350		DOUBLE FACED CONCRETE BARRIER	SINGLE FACED CONCRETE BARRIER	CONCRETE BARRIER TRANSITION SECTION	MEDIAN HAZARD PROTECTION	REMOVE EXISTING GUARDRAIL	REMOVE & STOCKPILE EXISTING GUARDRAIL	REMARKS
				STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END			APPROACH END	TRAILING END	APPROACH END	TRAILING END	GREU TL-3	TEMP GREU TL-3	GREU TL-2	CAT-1	AT-1	B-77	MOD. B-77	TYPE III	G	NG							
-L-	1233+90.76	1251+00.00	RT	300.00			1236+90.93		14	17	50		1		1					1					855.89	500	1				
-L-	1249+50.00	1259+02.08	LT	962.50			1259+29.00	1249+50.00	14	17										2									1123.02		
-L-	1251+00.00	1259+02.08	RT	812.50			1251+00.00	1259+02.08	14	17										2									1294.21		
-L-	1261+65.92	1280+13.76	LT	1850.00			1277+55.54	1261+65.92	14	17	50		1		1					1									717.39		
-L-	1261+65.92	1263+39.25	RT	175.00			1261+65.92		14	17								1		1									575.29		
-L-	1270+80.09	1278+61.33	RT	787.50			1273+44.65		14	17	50		1		1			1													
-L-	1291+20.56	1294+65.40	RT	300.00			1294+19.33		14	17	50		1		1					1						46.07					
-L-	1295+12.89	1301+05.66	LT	550.00			1295+59.00		14	17	50		1		1					1						46.11					
-L-	1302+35.97	1305+11.25	RT	287.50			1305+00.00		14	17	50		1		1			1													
-L-	1316+65.06	1318+42.98	LT	187.50			1316+65.06		14	17	50		1		1			1													
-L-	1328+67.29	1331+61.73	RT	300.00			1331+50.00		14	17	50		1		1			1													
-L-	1342+16.24	1345+99.48	LT	300.00			1342+99.48		14	17	50		1		1					1						84.34					
-L-	1350+67.59	1354+24.20	LT	362.50			1350+79.40		14	17	50		1		1			1													
-L-	1364+38.55	1367+11.25	RT	275.00			1367+00.00		14	17	50		1		1			1													
-L-	1370+53.90	1375+33.75	RT	487.50			1372+03.91	1375+00.00	14	17	50		1		1			1											1277.33		
-L-	1376+88.75	1379+61.49	LT	275.00			1377+00.00		14	17	50		1		1			1													
-L-	1386+83.60	1391+08.54	RT	425.00			1388+33.60	1391+08.54	14	17	50		1		1					1									1101.45		
-L-	1388+48.20	1390+24.84	LT	187.50				1388+48.20	14	17								1		1											
-L-	1391+30.76	1394+62.20	LT	337.50			1393+12.20	1391+30.76	14	17	50		1		1					1									341.05		
-L-	1392+14.46	1394+21.60	RT	212.50				1394+21.60	14	17								1		1											
-Y28-	16+60.71	28+73.24	RT	687.50			17+87.18		4	7	25		0.5				1			1						542.42					
-Y29-	22+23.60	24+69.92	LT	250.00				22+23.60	4	7	25	25	0.5	0.5			2														
-Y29-	22+45.46	27+49.63	RT	512.50			22+49.41	27+49.63	4	7	25		0.5				1			1											
-Y29-	25+09.78	27+31.28	LT	225.00			27+31.28		4	7		25		0.5			1			1											
-Y29-	29+28.78	33+86.40	LT	462.50			27+35.11	29+28.78	4	7	25		0.5				1			1											
-Y29-	29+47.13	33+70.99	RT	425.00				33+70.99	4	7		25		0.5			1			1											
-Y29A-	33+01.55	35+56.61	RT	250.00			33+01.55	35+56.61	4	7	25	25	0.5	0.5			2														
-Y18RPA-	15+00.00	17+49.90	LT	250.00			16+00.00		12	15	50		1		1														265.12		
-Y18RPB-	10+00.00	17+90.56	LT	237.50			15+60.00		14	17	50		1		1					1						554.70					
-Y33-	33+72.44	37+87.73	LT	412.50					4	7	25	25	0.5	0.5			2														
-Y33-	34+61.80	38+05.63	RT	350.00					4	7	25	25	0.5	0.5			2														
-SR19-	11+20.02	28+98.68	RT	47.88	87.5		12+32.52		4	7	25		0.5				1			1					1615.64						50' DEDUCTED FOR CONCRETE TRANSITION SECTION
-L-	1232+00.00	1258+87.08	CL																						2687.08						
-SR17-	61+78.34	65+99.36	LT																							421.02					
-L-	1261+80.92	1294+15.85	CL																						3234.93						
-L-	1294+15.85	1295+62.48	CL																									146.63			SEE DETAIL 2C-8 FOR MEDIAN HAZARD PROTECTION
-L-	1295+62.48	1341+86.48	CL																						4574.00						50' DEDUCTED FOR CONCRETE TRANSITION SECTION
-L-	1341+86.48	1343+61.00	CL																									174.55			SEE DETAIL 2C-8 FOR MEDIAN HAZARD PROTECTION
-L-	1343+61.00	1390+42.82	CL																						4631.82						
-L-	1391+96.13	1408+00.00	CL																						1603.87						50' DEDUCTED FOR CONCRETE TRANSITION SECTION
-L-	1408+00.00	1412+13.95	CL	45.75		400															1										SEE DETAIL 2C-7 FOR MODIFIED B-77
-L-	1328+29.24	1332+60.01	LT																						746.93						
-L-	1232+00.00	1412+14.00	MED																										18014.00		REMOVE EXISTING DOUBLE FACED GUARDRAIL
-L-	1332+50.44	1334+05.63	RT																										153.49		
-L-	1339+33.09	1340+62.67	RT																										128.11		
-L-	1346+89.11	1349+23.40	RT																										233.68		
-Y18-	26+84.25	24+36.79	LT																										151.87		
-Y18-	23+23.27	24+20.69	RT	100.00			24+20.69		14	17							1					1							152.16		
-Y18-	26+63.75	28+33.05	LT	175.00			26+63.75		14	17							1					1							151.91		
-Y18-	26+47.44	28+22.07	RT																										176.27		
Exist. I-40	MM 324 EB			212.50					14	17					1			1											560.00		SEE DETAIL 2B-22
Exist. I-40	MM 331 WB			237.50					14	17					1			1											560.00		SEE DETAIL 2B-23
-L-	1247+00.00		LT																								1				FOR OVERHEAD SIGN
-L-	1331+50.00		CL																								1				FOR OVERHEAD SIGN
-L-	1393+50.00		CL																								1				FOR OVERHEAD SIGN
				0.00																											
			SUBTOTAL	14256.13	87.50	400.00									19	0	16	13	0	21	1	2	0.00	0.00	19950.16	2194.66	4	321	26976.34		
		ANCHOR UNIT DEDUCTION																													
-L-		GREU 350 TL-3: 19 @ 50.00 = 950.00																													
		GREU 350 TL-2: 16 @ 25.00 = 400.00																													
		AT-1: 0 @ 6.25 = .00																													
		CAT-1: 13 @ 6.25 = 81.25																													
		TYPE B-77: 21 @ 22.875 = 480.38																													
		TYPE III: 2 @ 18.750 = 37.50																													
		TOTAL		1,949.13																											
			I-5986B TOTAL	12,307.00	87.50	400.00									**19**	**0**	**16**	**13**	**0**	**21**	**1**	**2**			**19210**	**2195**	**4**	**322**	**26977**		
			SAY	**12312.50**																											
	ADDITIONAL GUARDRAIL POST			25.00																											
TEMPORARY GUARDRAIL																															
-L-	1390+85.00	1392+37.00	RT	152.00												1															
			SUBTOTAL	152.00												1															
		TEMPORARY ANCHOR UNITS																													
		GREU 350 TL-3: 1 @ 50.00 = 50.00																													
		TOTAL		50.00																											
			TEMP TOTAL	**152.00**												**1**															

CABLE GUIDERAIL SUMMARY

SURVEY	BEG. STA.	END STA.	LENGTH (FT.)	END ANCHOR UNIT	DEDUCTIONS (FT)	INTERMEDIATE ANCHOR UNIT	COMMENTS
Exist. I-40	MM 324 EB		500.00	2	50		SEE DETAIL 2B-22
Exist. I-40	MM 331 WB		640.00	2	50		SEE DETAIL 2B-23
		SUBTOTAL:	1140.00	4	100	0	
	ANCHOR DEDUCTIONS:4 @ 25'		-100.00		-100		
		TOTAL:	1040.00	4		0	
		SAY:	1100.00	4		0	