COMPUTED BY: EAR DATE: 04/07/17
CHECKED BY: JWJ DATE: 04/13/17

PROJECT REFERENCE NO.	SHEET NO.
B-5239	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 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 SHOUL. WIDTH	FLARE LENGTH		W		ANCHORS								IMPACT ATTENUATOR TYPE 350			SINGLE FACED GUARDRAIL	REMOVE EXISTING GUARDRAIL	REMOVE AND STOCKPILE EXISTING GUARDRAIL	REMARKS
				STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END			APPROACH END	TRAILING END	APPROACH END	TRAILING END	GREU TL-3	TYPE III	AT-1						EA	G	NG				
-L-	STA. 14+04.50	STA. 14+92.00	LT.	87.5				STA. 14+92.00	8	11		50		1	1	1											74'		
-L-	STA. 12+67.00	STA. 14+92.00	RT.	225.00			STA. 14+00.00		8	11	50		1		1	1											96'		
-L-	STA. 17+77.00	STA. 18+21.72	LT.		50.00		STA. 17+77.00		8	11	6.25		4			1	1												
-L-	STA. 18+37.07	STA. 18+61.10	LT.		50.00		STA. 18+61.00		8	11		6.25		4		1	1												
-L-	STA. 19+33.72	STA. 20+21.22	LT.	87.5			STA. 19+33.72		8	11	50		1		1	1											99'		
-L-	STA. 17+77.00	STA. 18+75.66	RT.	100			STA. 17+77.00	STA. 18+75.66	8	11						2											114'		
-L-	STA. 19+48.28	STA. 20+35.78	RT.	87.5				STA. 19+48.28	8	11		50		1	1	1											74'		
			SUB-TOTAL	587.5	100.00										4	8	2										457'		
	LESS DEDUCTIONS FOR ANCHORS		GREU, TL=3 4 @ 50 =	-200																									
			TYPE III 8 @ 18.75 =	-150.0																									
			AT-1 2 @ 6.25 =		-12.5																								
			PROJECT TOTAL	237.5	87.50										4	8	2										457'		
			SAY	250	87.50																						460'		
TEMPORARY GUARDRAIL																													
-LDET-	STA. 14+18+/-	STA. 15+05+/-	LT.	87.5				STA. 15+05+/-	4	6		50		1	1	1													
-LDET-	STA. 14+18+/-	STA. 15+05+/-	RT.	87.5			STA. 15+05+/-		4	6	50		1		1	1													
-LDET-	STA. 17+65+/-	STA. 18+90+/-	LT.	125			STA. 17+65+/-		4	6						2													
-LDET-	STA. 17+65+/-	STA. 18+90+/-	RT.	125				STA. 17+65+/-	4	6						2													
-LDET-	STA. 19+77+/-	STA. 20+65+/-	LT.	87.5			STA. 19+77+/-		4	6	50		1		1	1													
-LDET-	STA. 19+77+/-	STA. 20+52+/-	RT.	75.00				STA. 19+77+/-	4	6		50		1	1	1													
			SUB-TOTAL	587.5											4	8													
	LESS DEDUCTIONS FOR ANCHORS		GREU, TL=3 4 @ 50 =	-200																									
			TYPE III 8 @ 18.75 =	-150																									
			PROJECT TOTAL	237.5											4	8													
ADDITIONAL GUARDRAIL POSTS = 10 EA.			SAY	250'																									

REMOVAL OF ASPHALT PAVEMENT

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	SQUARE YARDS
-L-	11+75.00	12+80.00	LT/RT	286.46
-L-	14+67.00	14+97.52	LT/RT	87.50
-L-	17+72.03	18+79.59	LT/RT	303.65
-L-	19+30.36	22+00.00	LT/RT	743.43
-Y1-	11+77.44	12+36.00	LT	30.73
-Y2-	10+30.95	10+84.84	RT	51.76
-LDET-	10+00.00	15+02.47	LT/RT	1166.50
-LDET-	17+67.47	18+90.86	LT/RT	356.46
-LDET-	19+77.08	21+11.20	LT/RT	513.08
-LDET-	21+56.32	24+85.19	LT/RT	702.76
-Y1DET-	12+52.01	12+64.84	LT/RT	120.89
			TOTAL:	4363.22
			SAY:	4370

Note: Approximate quantities only. Unclassified Excavation, Borrow Excavation, Fine Grading, Clearing and Grubbing, Breaking of Existing Pavement, and Removal of Existing Pavement will be paid for at the lump sum price for "Grading."

BREAKING OF ASPHALT PAVEMENT

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	SQUARE YARDS
-L-	12+80	14+67	CL	519.44
			TOTAL:	519.44
			SAY:	520

SHOULDER BERM GUTTER SUMMARY

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	LINEAR FEET
-L-	18+02.00	18+12.00	LT	10.0
-L-	18+02.00	18+12.00	RT	10.0
			TOTAL:	20.0
			SAY:	25.0

MODIFIED SHOULDER BERM GUTTER SUMMARY

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	LINEAR FEET
-L-	19+58.00	19+68.00	LT	10.0
-L-	19+73.00	19+83.00	RT	10.0
			TOTAL:	20.0
			SAY:	25.0

6/21/00
10/16/2017
B-5239_Rdy_sum.dgn
USER: rrogue