COMPUTED BY: J. ADORNO DATE: 01/13/2020
CHECKED BY: A. CONRAD DATE: 01/13/2020

PROJECT REFERENCE NO.	SHEET NO.
B-5642	3B-1

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 (LF)

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	III							EA	G	NG				
-L-	14+93.88	17+93.88	RT	300.00			17+93.88		7.92	10.92	50.00		1.00		1	1													
-L-	16+56.38	17+93.88	LT	137.50				17+93.88	7.92	10.92		50.00		1.00	1	1													
-L-	18+66.13	20+03.63	RT	137.50				18+66.13	7.92	10.92		50.00		1.00	1	1													
-L-	18+66.13	21+66.13	LT	300.00			18+66.13		7.92	10.92	50.00		1.00		1	1													
			SUBTOTALS	875.00											4	4													
			TYPE III, 4@18.75'	-75.00																									
			GREU TL-3, 4@50.00'	-200.00																									
			PROJECT TOTALS	600.00											4	4													
			SAY	600.00											4	4													
ADDITIONAL GUARDRAIL POSTS = 10 EA																													

SUMMARY OF EARTHWORK (CY)

LOCATION	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBT+%	BORROW	WASTE
-L- 14+00.00 - 17+93.88	292		254		38
-L- 18+66.13 - 22+50.00	120		297	177	
SUBTOTAL	412		551	177	38
TOTALS:	412		551	177	38
MATERIAL FOR SHOULDER CONSTRUCTION			175	175	
WASTE IN LIEU OF BORROW				-38	
PROJECT TOTAL	412		726	314	
EST. 5% TO REPLACE TOP SOIL ON BORROW PIT				15	
GRAND TOTAL	412		726	329	
SAY	450			350	

UNDERCUT (CONTINGENCY) = 300 CY
SELECT GRANULAR MATERIAL, CLASS III (CONTINGENCY) = 500 CY

NOTE: Earthwork quantities are calculated by the Engineer. These earthwork quantities are based in part on subsurface data provided by the Geotechnical Engineering Unit.

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

SUMMARY OF ASPHALT PAVEMENT REMOVAL (SY)

LINE	STATION - STATION	LOCATION	REMOVAL (SY)
-L-	STA. 16+93.88 TO STA. 17+99.01	CL	268
-L-	STA. 18+59.97 TO STA. 19+66.13	CL	275
GRAND TOTAL			543
SAY			550

SUMMARY OF VARIABLE MILLING (0"-1.50") (SY)

LINE	STATION - STATION	LOCATION	MILLING (SY)
-L-	STA. 14+37.50 TO STA. 16+23.00	CL	475
-L-	STA. 21+23.00 TO STA. 22+12.50	CL	227
GRAND TOTAL			702
SAY			710

SUMMARY OF SHOULDER BERM GUTTER (LF)

LINE	STATION	STATION	LENGTH (LF)
-L- LT	18+77±	18+92±	15
-L- RT	18+77±	18+92±	15
		TOTAL	30
		SAY	30

6/21/00

$$$$$$$$SYSTIME$$$$
>>$$$$$$$$DGN$$$$
$$$$$$$$$$$$$$$$