COMPUTED BY: JMH DATE: 1/31/18
CHECKED BY: CWW DATE: 2/5/18

950015	PROJECT REFERENCE NO.	SHEET NO.
	17BP.4.R.87	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 BEGIN

GUARDRAIL SUMMARY

ALN.	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		REMOVE EXISTIN G GR	REMARKS
				STRAIGHT	SHOP CURVED	DOUBLE FACED	APPR. END	TRAIL. END			APPRO ACH END	TRAILI NG END	APPR. END	TRAIL. END	TYPE-III	CAT-1	GREU TL-3	B-77	AT-1	G	NG		
L	13+95.06	15+01.31	RT	112.50											1		1						
L	14+13.58	15+01.31	LT	87.50											1		1						
L	15+88.69	16+81.99	RT	93.75											1		1						
L	15+88.69	16+81.99	LT	93.75											1		1						
			SUBTOTAL:	387.50	0.00										4	0	4	0	0			0.0	
			ANCHOR UNIT DEDUCTIONS:																				
			Type-III @ 18.75' Each	-75.00																			
			Type GREU TL-3 @ 50' Each	-200.00																			
			Type B-77 @ 18.75' Each	0.00																			
			AT-1 @ 6.25' Each	0.00																			
			LESS GUARDRAIL DEDUCTIONS:	112.50	0.00																		
	* 5 ADDITIONAL GUARDRAIL POSTS																						
			PROJECT TOTAL:	112.50	0.00																		
			SAY:	125.0	0.0										4	0	4	0	0			0	

SUMMARY OF EARTHWORK

IN CUBIC YARDS

CHAIN	BEGINNING STATION	ENDING STATION	UNCL. EXCA. C.Y.	UNDERCUT C.Y.	EMBANK. +% C.Y.	BORROW C.Y.	WASTE C.Y.
SUMMARY 1							
-L-	12+60.00	15+01.31	83		325	242	
-L-	15+88.69	18+20.00	133		546	413	
SUBTOTAL			216		871	655	
SUMMARY 2							
-DR1-	10+10.00	10+50.00			30	30	
-DR1-	11+50.00	11+84.50	4		4		0
-DR2-	10+16.50	10+25.00	2				2
-DR2-	11+50.00	11+88.89	4		205	201	
SUBTOTAL			10		239	231	2
SHEET TOTALS			226		1,110	886	2
LOSS DUE TO CLEARING AND GRUBBING			-1			1	
EARTH WASTE IN LIEU OF BORROW						-2	-2
PROJECT TOTAL			225		1,135	885	
EST. 5% TO REPLACE TOP SOIL ON BORROW PIT						45	
GRAND TOTAL			225			930	
SAY			230			960	

DRAINAGE DITCH EXCAVATION = 46 C.Y.

APPROXIMATE QUANTITIES ONLY. UNCLASSIFIED EXCAVATION, BORROW EXCAVATION, SHOULDER BORROWN, FINE GRADING, CLEARING AND GRUBBING, BREAKING OF EXISTING PAVEMENT, AND REMOVAL OF EXISTING PAVEMENT WILL BE PAID FOR AT THE CONTRACT LUMP SUM PRICE FOR "GRADING."

SHOULDER BERM GUTTER SUMMARY

LINE	Station	Station	LENGTH
-L- RT	14+49.00	14+90.44	41
-L- LT	14+68.00	14+90.44	22
-L- RT	15+99.56	16+32.00	32
-L- LT	15+99.56	16+32.00	32
		TOTAL:	127
		SAY:	130

PAVEMENT REMOVAL SUMMARY

IN SQUARE YARDS

SURVEY LINE	Station	Station	LOCATION LT/RT/CL	ASPHALT REMOVAL	ASPHALT BREAKUP	CONCRETE REMOVAL	CONCRETE BREAKUP
-L-	14+80	15+10	CL	67.05			
-L-	15+79	16+10	CL	75.93			
		TOTAL:		142.98			
		SAY:		150			

12/06/07

4/20/2018
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bhanson