

COMPUTED BY: E.Douglas	DATE: 7-18-13
CHECKED BY: J.Braxton	DATE: 9-25-13

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PROJECT REFERENCE NO. B-4159	SHEET NO. 3B
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SUMMARY OF QUANTITIES

SUMMARY OF EARTHWORK

STATION	STATION	UNCL. EXCAV.	EMBANK. +%	BORROW	WASTE
-L- STA. 14+25.00 RT	-L- STA. 18+66.00 RT (BEGIN BRIDGE)	36	710	674	
-L- STA. 14+25.00 LT	-L- STA. 18+66.00 LT (BEGIN BRIDGE)	138	500	362	
-Y1- STA. 10+70.00	-Y1- STA. 13+80.51	182	383	201	
SUBTOTALS		365	1,592	1,236	
-L- STA. 21+66.00 RT (END BRIDGE)	-L- STA. 29+75.00 RT	747	645		102
-L- STA. 21+66.00 LT (END BRIDGE)	-L- STA. 29+75.00 LT	64	615	551	
-Y2- STA. 10+70.00	-Y2- STA. 16+77.47	129,085	51		129,034
-DR1- STA. 10+70.00	-DR1- STA. 12+04.90	412	2		410
-DR2- STA. 10+00.00	-DR2- STA. 10+66.83	2	72	70	
SUBTOTALS:		130,310	1,385	621	129,545
TOTAL:		130,666	2,977	1,857	129,545
LOSS DUE TO CLEARING AND GRUBBING		-2,000			-2,000
WASTE TO REPLACE BORROW				-1,857	-1,857
PROJECT TOTALS:		128,666	2,977		125,688
ADJUST FOR ROCK WASTE SWELL					5,037
ADJUST FOR UNCOMPACTED ROCK WASTE					3,777
GRAND TOTALS:		128,666	2,977		134,502
SAY:		128,800			
SHOULDER BORROW = 120 CY					

Earthwork quantities are calculated by the Roadway Design Unit. These earthwork quantities are based in part on subsurface data provided by the Geotechnical Engineering Unit.

REMOVAL OF EXISTING ASPHALT PAVEMENT

LINE	STATION	STATION	LOCATION	LENGTH OR AREA	WIDTH	SQUARE YARDS
-L-	15+25	17+11	LT	1,932.76		214.75
-L-	15+75	16+55	☽	1,955.54		217.28
-L-	21+23	26+00	LT/RT	15,739.66		1,748.85
-L-	21+71	24+23	RT	5,441.16		604.57
-Y1-	10+70	13+14	LT/RT	9,695.27		1,077.25
-DR1--Y2-	10+70	10+70	RT/LT	5,402.88		600.32
TOTAL:						4,463.03
SAY:						4,470

BREAKING OF EXISTING ASPHALT PAVEMENT

LINE	STATION	STATION	LOCATION	LENGTH OR AREA	WIDTH	SQUARE YARDS
-L-	16+55	18+87	☽	5516.22		612.91
TOTAL:						612.91
SAY:						620

REMOVAL OF EXISTING CONCRETE PAVEMENT

LINE	STATION	STATION	LOCATION	LENGTH OR AREA	WIDTH	SQUARE YARDS
-DR2-	10+00	10+75	☽	694.48		77.16
TOTAL:						77.16
SAY:						80

GUARDRAIL SUMMARY

"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

SURVEY LINE	BEG. STA.	END STA.	LOCATION	LENGTH (WEATHERING STEEL BEAM GUARDRAIL WITH PAINTED LAP)			WARRANT POINT		"N" DIST. FROM E.O.L.	TOTAL SHOUL. WIDTH	FLARE LENGTH		W		ANCHORS										IMPACT ATTENUATOR TYPE 350	SINGLE FACED CONCRETE BARRIER	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	XI MOD	XI	GRAU 350 TL2 (PAINTED)	M-350	XIII	CAT-1	VI MOD	TES (WEATHERING)	TYPE III (WEATHERING)	G						NG		
-L-	14+75.00	16+75.00	RT	200			15+00	16+00	4	7	25	25	0.5	0.5			2														CONTRACTOR TO LOCATE WATER LINES BEFORE INSTALLING GUARDRAIL	
-L-	17+92.02	18+42.02(BR)	RT	50			18+42.02(BR)		12	20	25					1																
-L-	21+55.38(BR)	22+05.38	RT	50				21+55.38(BR)	12	20		25				1																
-L-	18+38.05	18+88.05(BR)	LT	50				18+88.05(BR)	12	20		25				1																
-L-	22+75.99(BR)	22+25.99	LT	50			22+75.99(BR)		12	20	25		0.5			1																
-L-	21+21.69	21+40.06	RT	25																												
-Y2-	-Y2- 10+70.00	-DR1- 11+75.09	LT	187.5	37.5		TIE TO EXIST		6	9																181.00				TIE INTO EXIST GUARDRAIL AT -Y2- STA. 10+70.00		
-DR1-	EDGEWATER RD.	-DR1- 11+75.09	RT	312.5					2	5																329.50						
TOTAL:				925	37.5											6																
LESS ANCHOR DEDUCTIONS:					0																											
(6 PAINTED) GRAU 350 TYPE TL-2 @ 25' EA. =				-150																												
(4 WEATHERING) TYPE III @ 18.75' EA. =				-75																												
GRANDTOTAL:				700	37.5											6											510.50					
SAY:				725	37.5										6												512.5					
ADDITIONAL GUARDRAIL POSTS =				10																												