12/06/07

PROJECT REFERENCE NO.	SHEET NO.
B-5159	3B-1

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SUMMARY OF EARTHWORK

STATION	UNCL. EXCAV.	EMBANK. +%	BORROW	WASTE
-L- STA. 11+95.00 TO 16+90.00	1	4,484	4,483	
-DR1- STA 10+25.00 TO 12+10.10		795	795	
-DR2- STA 10+10.00 TO 10+60.00	1	17	16	
-Y1- STA 11+75.00 TO 21+15.00	472	446		26
SUBTOTALS NO.1	474	5,742	5,294	26
-L- STA 10+10.03 TO 10+37.81 (BR)	2	35	33	
-L- STA 11+45.19 (BR) TO 11+95.00		408	408	
SUBTOTALS NO.2	2	443	441	
-L- STA. 13+25.00 TO 16+90.00	216	53		163
SUBTOTALS NO.3	216	53		163
PROJECT SUBTOTALS	692	6,238	5,735	189
WASTE IN LIEU OF BORROW			-26	-26
PROJECT TOTALS	692	6,238	5,709	163
REPLACE TOP SOIL IN BORROW PIT			285	
GRAND TOTALS:	692	6,238	5,994	163
SAY:	730		6,300	

DRAINAGE DITCH EXCAVATION = 695 CY
UNDERCUT EXCAVATION = 300 CY (CONTINGENCY)
SELECT GRANULAR MATERIAL = 300 CY (CONTINGENCY)

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

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.

SHOULDER BERM GUTTER SUMMARY

SURVEY LINE	STATION	STATION	LENGTH
-L-/-Y1-	-L-RT 10+28.00	-Y1-LT 17+15.00	34.86'
		TOTAL:	34.86'
		SAY:	35'

PAVEMENT REMOVAL SUMMARY

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	YD^2
-L-	11+47.82	11+83.31	RT	64.57
-L-	11+94.57	15+21.53	RT	551.68
-L-	15+35.44	16+03.06	RT	17.51
-Y1-	13+76.12	14+25.00	LT	6.14
-Y1-	14+25.00	15+75.00	LT	314.86
-Y1-	15+75.00	16+49.43	LT	40.49
-Y1-	16+86.43	17+50.00	LT	198.44
-Y1-	17+50.00	21+15.00	LT /CL	790.36
			TOTAL:	1,984.05
			SAY:	1,990

BB = BEGIN BRIDGE
EB = END BRIDGE
"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	TES	XI	GRAU TL-3	M-350	GRAU TL-2	CAT-1	SHOP CURVE TYPE III	TYPE III	AT-1	EA	G	NG				
-Y1-/-L-	-Y1- 12+17.34	-L- 10+37.81 (BB)	LT	412.5'	43.75'			-L- 10+37.81	3'-11"	11'/7'		50'		1'			1				1									
-Y1-/-L-	-Y1- 18+41.65	-L- 10+37.81 (BB)	LT /RT	125'	43.75'		-L- 10+37.81		3'-11"	11'/7'	50'		1'				1				1									
-L-/-DR1-	-L- 11+45.19 (EB)	-DR1- 11+94.47	LT /RT	43.75'	25'		-L- 11+45.19		3'-11"	7'												1	1							
-DR1-/-L-	-DR1- 11+94.70	-L- 16+00.00	LT	375'	31.25'				2'/4'	7'	25'		0.5'						1				1							
-L-/-DR2-	-L- 11+45.19 (EB)	-DR2- 10+60.00	RT	50'	31.25'			-L- 11+45.19	3'-11"/2'	7'												1	1							
				— — —	— — —										— — —	— — —	— — —	— — —	— — —	— — —	— — —	— — —	— — —							
			PROJECT SUBTOTALS	1,006.25'	175'												2		1		2	2	3							
		DEDUCTION FOR ANCHORS =		-168.75'											GRAU 350 TL-3		2	EA @	50'	FT =	100'									
	DEDUCTION FOR SHOP CURVE ANCHORS =				-50'										GRAU 350 TL-2		1	EA @	25'	FT =	25'									
				— — —	— — —										SHOP CURVE TYPE-III		2	EA @	18.75'	FT =		37.5'								
			PROJECT TOTALS	837.5'	125'											TYPE III	2	EA @	18.75'	FT =	37.5'									
																AT-1	3	EA @	6.25'	FT =	6.25'	12.5'								
			SAY	850'	150'																— — —	— — —								
																	DEDUCTION FOR ANCHORS =				168.75'									
		ADDITIONAL GUARDRAIL POSTS =		5 EA												DEDUCTION FOR SHOP CURVE ANCHORS =						50'								

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