4/04/06

PROJECT REFERENCE NO.	SHEET NO.
U-5887	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

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	25′ CLEAR SPAN GUARDRAIL SECTIONS	REMARKS
				STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END			APPROACH END	TRAILING END	APPROACH END	TRAILING END	XI MOD	XI	GREU TL–2	TYPE III	XIII	CAT–1	VI MOD	BIC	AT–1	EA	G	NG				
L	13+30.00	14+95.84	LT.	156.25′			14+95.84		7.50′								1	1												SEE NOTE 1 BELOW.
L	21+21.96	22+72.43	RT.	131.25′	25.00′		21+21.96		10.00′								1						1					242.00′		SEE NOTE 1 BELOW.
L	25+11.50	41+66.87	LT.	1640.32′			41+66.87		2.00′								2											2,205.00′	1	SEE NOTE 1 BELOW.
L	40+32.31	42+41.72	RT.	158.11′	129.39′		40+32.31		4.00′														2							SEE NOTES 1 AND 2 BELOW.
SUBTOTAL				2,085.93	154.39′												4	1					3					2,447.00′	1	
DEDUCTIONS																														
GREU TL–2 4@25′				–100′																										
TYPE III 1@18.75′				–18.75′			ADDITONAL GUARDRAIL POSTS = 10 EACH																							
AT–1 3@6.25′				–18.75′																										
25′ CLEAR SPAN 1@25′				–25.00′																										
TOTAL				1,923.43′	154.39′																									
SAY				1,925.00′	162.50′												4	1					3					2,447.00′	1	

NOTES:

1. ALL GUARDRAIL ON PROJECT TO BE POWDER COATED BROWN.
2. OMIT ONE GUARDRAIL POST OVER THE PROPOSED CULVERT (–L– STA. 40+90 RT) AND PROVIDE 25′ OF NESTED GUARDRAIL AS SHOWN ON STD DWG 846.03, SHEET 1 OF 2.

SUMMARY OF EARTHWORK

IN CUBIC YARDS

STATION	STATION	UNCL. EXCAV.	EMBANK. +%	BORROW	WASTE
10+00.00 –L–	22+29.03 –L–	727	2,906	2,179	
13+50.00 –Y1–	17+50.00 –Y1–	84			84
SUBTOTALS:		811	2,906	2,179	84
22+58.70 –L–	40+79.18 –L–	842	5,049	4,207	
10+19.55 –Y2–	11+17.59 –Y2–	62	9		53
SUBTOTALS:		904	5,057	4,206	52
40+87.32 –L–	66+16.58 –L–	1,388	5,847	4,459	
10+20.11 –Y3–	11+50.00 –Y3–	12	95	83	
10+21.94 –Y5–	11+61.93 –Y5–	13	128	115	
11+60.00 –Y6–	12+80.71 –Y6–	6	81	75	
10+14.02 –Y7–	11+00.00 –Y7–	117			117
10+00.00 –PATH2–	17+71.81 –PATH2–	248	1,201	953	
SUBTOTALS:		1,784	7,350	5,683	117
TOTAL		3,499	15,313	12,068	253
WASTE IN LIEU OF BORROW				–253	–253
PROJECT TOTALS:		3,499	15,313	11,815	
EST. 5% TO REPLACE TOP SOIL ON BORROW PIT				591	
GRAND TOTALS:		3,499	15,313	12,405	
SAY:		3,500		12,410	

CONTINGENCY ITEMS:
INCIDENTAL STONE = 50 TONS
UNDERCUT EXCAVATION = 50 CY
SELECT GRANULAR MATERIAL = 50 CY
GEOTEXTILE FOR SOIL STABILIZATION = 50 SY

SUMMARY OF EXISTING ASPHALT PAVEMENT REMOVAL

IN SQUARE YARDS					
LINE	LOCATION	ASPHALT REMOVAL	ASPHALT BREAK–UP	CONCRETE REMOVAL	CONCRETE BREAKUP
–L–	14+62.64 TO 23+27.90	402.56			
–L–	24+77.65 TO 26+17.73	65.29			
–L–	31+89.67 TO 38+17.06	145.21			
–L–	38+80.65 TO 40+23.33	506.47			
–L–	40+28.99 TO 42+52.15	706.74			
	TOTAL	1,826.27			
	SAY	1,830.00			

Approximate quantities only. Unclassified excavation, borrow 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.

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