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6/16/99

COMPUTED BY: _____ DATE: _____
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STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PROJECT REFERENCE NO.	SHEET NO.
B-4616	3B-1

WSP | PARSONS BRINCKERHOFF
434 Fayetteville Street Suite 1500
Raleigh, NC 27601 - 919.836.4040
www.wspgroup.com
LICENSE NO. F-0891

PAVEMENT REMOVAL SUMMARY

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	YD³
-L-	19+50	20+25	CL	213.81
-L-	30+35	30+89	CL	119.69
-L-	32+34	32+85	CL	112.62
-L-	43+75	44+50	CL	222.44
-Y-	12+75	13+25	CL	109.47
-Y2-	13+00	13+25	CL	54.80
			TOTAL:	832.82
			SAY:	840

SUMMARY OF BREAKING EXISTING ASPHALT PAVEMENT

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	YD²
-L-	20+25	30+35	CL	2641.64
-L-	32+85	43+75	CL	2918.73
-Y-	13+25	14+97	CL	523.08
-Y2-	13+25	14+50	CL	487.03
			TOTAL:	6,570.47
			SAY:	6,580

SHOULDER BERM GUTTER SUMMARY

SURVEY LINE	STATION	STATION	LENGTH
-L- (LT)	23+80.88	30+78.29	697.41
-L- (RT)	23+79.17	30+85.62	706.45
-L- (LT)	32+38.99	40+07.94	768.95
-L- (RT)	32+46.31	40+16.51	770.20
		TOTAL:	2,943.01
		SAY:	2,950

SUMMARY OF EARTHWORK
IN CUBIC YARDS

STATION	STATION	UNCL. EXCAV.	UNDERCUT EXCAV.	EMBANK. +%	BORROW	WASTE
-L- STA. 16+50.00	-L- STA. 21+25.00	792		1,218	426	
-L- STA. 21+25.00	-L- STA. 31+06.09	168		68,135	67,967	
-Y- STA. 12+10.00	-Y- STA. 14+97.77	77		2,101	2,024	
-DRV1- STA. 10+16.00	-DRV1- STA. 11+45.00	5		925	920	
-DRV2- STA. 10+10.00	-DRV2- STA. 11+40.00	10		153	143	
SUBTOTAL 1		1,052		72,532	71,480	
-L- STA. 32+18.51	-L- STA. 46+00.00	377		68,106	67,729	
-Y2- STA. 12+00.00	-Y2- STA. 14+52.72	89		1,379	1,290	
-DRV3- STA. 10+00.00	-DRV3- STA. 14+71.57	77		246	169	
-DRV4- STA. 10+16.00	-DRV4- STA. 16+50.32	35		789	754	
-DRV5- STA. 10+06.00	-DRV5- STA. 10+60.00	8		23	15	
SUBTOTAL 2		586		70,543	69,957	
-Y3- STA. 11+10.00	-Y3- STA. 21+75.00	2,797		921		1,876
-Y4- STA. 14+20.00	-Y4- STA. 16+30.00	141		99		42
SUBTOTAL 3		2,938		1,020		1,918
-Y2DET- STA. 10+10.21	-Y2DET- STA. 13+76.06	23		210	187	
-DRV4DET- STA. 10+12.61	-DRV4DET- STA. 13+88.99	28		118	90	
SUBTOTAL 4		51		328	277	
EST. SHOULDER MATERIAL				665	665	
SUBTOTAL 5				665	665	
-Y2DET- STA. 10+10.21	-Y2DET- STA. 13+76.06	171				171
(REMOVAL)						
-DRV4DET- STA. 10+12.61	-DRV4DET- STA. 13+25.22	22				22
(REMOVAL)						
SUBTOTAL 6		193				193
PROJECT SUBTOTAL		4,820		145,088	142,379	2,111
PROJECT TOTALS		4,820		145,088	142,379	2,111
EST. 5% TO REPLACE TOP SOIL ON BORROW PIT					7,119	
GRAND TOTAL		4,820		145,088	149,498	2,111
SAY		5,000			150,000	

EST. UNDERCUT EXCAVATION = 400 CY
EST. SELECT GRANULAR MATERIAL = 400 CY
EST. DDE = 23 CY

NOTES: 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.

Approximate quantities only. Unclassified excavation, fine grading, clearing and grubbing, breaking of existing pavement and removal of existing pavement will be paid for at the lump sum price for "Grading".

"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
ALL LENGTH MEASUREMENT IN FEET

GUARDRAIL SUMMARY

SURVEY LINE	BEG. STA.	END STA.	LOCATION	LENGTH			WARRANT POINT		"N" DIST. FROM E.O.L.	TOTAL SHOULDER WIDTH	FLARE LENGTH		W		ANCHORS									IMPACT ATTENUATOR TYPE 350					REMOVE EXISTING GUARDRAIL	REMARKS
				STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END			APPROACH END	TRAILING END	APPROACH END	TRAILING END	GRAU 350	TYPE B-77								NO.	PERMITTED G	PERMITTED NG				
-L-	23+30.88	31+01.80	LT	768.75			BRIDGE	FILL 24+55.88	4.00 - 8.00	11.00	200.00	50.00	4.00	1.00	1	1													698.40	
-L-	23+29.17	31+10.38	RT	781.25			FILL 24+54.17	BRIDGE	4.00 - 8.00	11.00	50.00	200.00	1.00	4.00	1	1													707.27	
-L-	32+14.23	40+57.94	LT	843.75			FILL 39+32.94	BRIDGE	4.00 - 8.00	11.00	50.00	200.00	1.00	4.00	1	1													711.69	
-L-	32+22.80	40+66.50	RT	843.75			BRIDGE	FILL 39+41.50	4.00 - 8.00	11.00	200.00	50.00	4.00	1.00	1	1													701.11	
			TOTAL	3,237.50											4	4													2,818.47	
			DEDUCTION FOR ANCHORS	-275.00											DEDUCTION FOR ANCHORS:													SAY	2,820.00	
			PROJECT TOTAL	2,962.50											(GRAU 350) 4 @ 50.00 = 200.00															
			SAY	2,975.00											(TYPE B-77) 4 @ 18.75 = 75.00															
			ADDITIONAL GUARDRAIL POST = 10 EACH												TOTAL DEDUCTIONS = 275.00															

4/2/2017
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