COMPUTED BY: IWB	DATE: 02/28/2019
CHECKED BY: CJM	DATE: 02/28/2019

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PROJECT REFERENCE NO.	SHEET NO.
U-4405A	3B-1

ASPHALT PAVEMENT REMOVAL SUMMARY

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	YD^2
-L-	32 + 29	41 + 18	CL	713.11
-L-	42 + 39	44 + 47	RT	10.54
-L-	43 + 88	44 + 76	LT	3.00
-L-	43 + 98	44 + 41	LT	53.55
-L-	45 + 92	46 + 01	RT	0.92
-L-	45 + 92	48 + 72	LT	34.34
-L-	67 + 21	67 + 27	RT	0.43
-L-	67 + 21	75 + 67	CL	709.89
-L-	80 + 61	88 + 84	CL	177.21
-L-	85 + 42	88 + 96	RT	264.61
-L-	88 + 91	88 + 96	LT	0.51
-SR1-	12 + 40	17 + 17	RT	382.49
-SR1-	17 + 53	18 + 90	RT	375.47
			TOTAL:	2,726.06
			SAY:	2,730

SUMMARY OF EARTHWORK

LINE	STATION	STATION	UNCL. EXCAV. (CY)	EMB. +% (CY)	BORROW (CY)	TOTAL WASTE (CY)
-L1- LT	96+00.00	115+65.00	849	3,153	2,516	212
-L-LT	15+65.00	25+00.00	68	1,440	1,389	17
-Y1-	14+20.00	14+76.00	5	51	47	1
BREAK 1 LEFT TOTAL			922	4,644	3,952	231
-L-CL	15+65.00	25+00.00	0	775	775	0
BREAK 1 CENTER TOTAL			0	775	775	0
-L-RT	15+65.00	25+00.00	56	1,274	1,232	14
-Y2-	10+38.50	11+00.00	9	23	16	2
BREAK 1 RIGHT TOTAL			65	1,296	1,248	16
-L-LT	25+50.00	55+00.00	111	4,585	4,502	28
-SR1-	10+95.00	18+64.00	292	620	401	73
-SR2-	10+12.00	12+12.00	12	55	46	3
-SR3-	10+02.00	13+19.00	79	464	405	20
-Y4-LT	17+00.00	18+00.00	72	30	0	42
BREAK 2 LEFT TOTAL			566	5,754	5,353	166
-L-CL	25+50.00	55+00.00	8	4,241	4,235	2
BREAK 2 CENTER TOTAL			8	4,241	4,235	2
-L-RT	25+50.00	55+00.00	187	3,291	3,151	47
-Y4-RT	18+50.00	19+70.00	27	76	56	7
BREAK 2 RIGHT TOTAL			214	3,368	3,207	54
-L-LT	55+50.00	85+00.00	131	13,504	13,406	33
-Y5-LT	19+60.00	21+50.00	43	113	81	11
BREAK 3 LEFT TOTAL			174	13,616	13,487	44

PER GEOTECH RECOMENDATIONS DATED : 02-26-19
PER PAVEMENT DESGIN RECOMENDATIONS DATED : 07-14-15
UNDERCUT = 1,100 CY
SHALLOW UNDERCUT = 1,300 CY
SELECT GRANULAR MATERIAL = 1,200 CY
CLASS IV SUBGRADE STABILIZATION = 3,850 TONS

SUMMARY OF EARTHWORK

LINE	STATION	STATION	UNCL. EXCAV. (CY)	EMB. +% (CY)	BORROW (CY)	TOTAL WASTE (CY)
-L-CL	55+50.00	85+00.00	27	5,109	5,089	7
BREAK 3 CENTER TOTAL			27	5,109	5,089	7
-L-RT	55+50.00	85+00.00	375	5,321	5,041	94
-Y5-RT	22+00.00	28+00.00	305	660	431	76
BREAK 3 RIGHT TOTAL			680	5,981	5,472	170
-L-LT	85+50.00	106+00.00	593	1,526	1,082	148
-Y7-	13+20.00	14+18.00	121	23	0	99
BREAK 4 LEFT TOTAL			714	1,549	1,082	247
-L-CL	85+50.00	106+00.00	11	1,025	1,018	3
BREAK 4 CENTER TOTAL			11	1,025	1,018	3
-L-RT	85+50.00	106+00.00	113	3,001	2,917	28
-Y6-	10+42.00	11+20.00	0	63	63	0
-Y7-	15+36.00	16+45.00	197	61	0	136
BREAK 4 RIGHT TOTAL			310	3,125	2,979	164
PROJECT TOTAL			**3,691**	**50,483**	**47,892**	**1,102**
MATERIAL FOR SHOULDER CONSTRUCTION				2,625	2,625	
WASTE IN LIEU OF BORROW (PHASE 1 AND 2)					-179	-179
REPLACE TOP SOIL ON BORROW PIT (5%)					2,537	
LOSS DUE TO CLEARING AND GRUBBING			-400		400	
GRAND TOTAL			**3,291**	**53,108**	**53,276**	**923**
SAY			**3,300**		**53,300**	

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.

"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		GREU TL-3		TYPE III	B-77	CAT-1				EA	G	NG				
-L-	37 + 02.50	39 + 33.75	RT	231.25'			39 + 15.00		0.75'		1'		50'			1				1										
-L-	38 + 96.25	42 + 21.25	LT	331.25'			39 + 15.00		0.75'		1'		50'			1				1										
-L-	79 + 93.75	84 + 50.00	LT	456.25			83 + 50.00	80 + 00.00	2'		1'		50'			1				1										
-L-	82 + 50.00	85 + 56.25	RT	306.25'			83 + 00.00	85 + 50.00	2'		1'		50'			1				1										
			SUBTOTAL	1,325.00'																										
		LESS 4 GREU TL-3 @ 50' EACH		200'																										
		LESS 4 CAT-1 @ 6.25' EACH		25'																										
			PROJECT TOTALS	1,100'												4				4										
			SAY	1,125'												4				4										ADDITIONAL GUARDRAIL POSTS = 5

12/06/07
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