COMPUTED BY: JMP DATE: 8-2017
CHECKED BY: DLW DATE: 8-2017

PLANS PREPARED BY :
PARSONS
RALEIGH, NORTH CAROLINA, (919) 854-1345
NC LICENSE NO. F-0246
FOR NORTH CAROLINA DEPT. OF TRANSPORTATION

PROJECT REFERENCE NO.	SHEET NO.
I-4729A	3B-1

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SUMMARY OF EARTHWORK

STATION	STATION	UNCL. EXCAV.	UNDERCUT	EMBANK.	BORROW	WASTE
CHAN CONST 10+00.00	CHAN CONST 17+10.00	4,766		139		4,627
-W_CONN_REV- 26+75.00	-W_CONN_REV- 40+85.47	262,570	650	63		263,157
-RP_WC- 18+41.74	-RP_WC- 20+50.00	673		394		279
-RP_E- 15+00.00	-RP_E- 22+45 (BEGIN BRIDGE)	11		83,132	83,121	
-RP_E- 23+22 (END BRIDGE)	-RP_E- 33+59.80	197		21,913	21,716	
-RP_F- 10+00.00	-RP_F- 20+52 (BEGIN BRIDGE)	307		121,446	121,139	
-RP_F- 22+47 (END BRIDGE)	-RP_F- 32+50.00	44,881		2,108		42,773
SUBTOTAL PHASE 1		313,405	650	229,195	225,976	310,836
-CONN_B_REV- 21+50.00	-CONN_B_REV- 31+32.55	96		174	78	
-E_CONN_REV- 22+50.00	-E_CONN_REV- 42+00.00	332		3,770	3,438	
-EL- 28+50.00	-EL- 56+00.00	3,844		15,988	12,144	
SUBTOTAL PHASE 2		4,272		19,932	15,660	
PROJECT TOTALS:		317,677	650	249,127	241,636	310,836
LOSS DUE TO CLEARING & GRUBBING (PER GEOTECH REPORT)		-200				-200
ADDITIONAL UNDERCUT			1,450	1,668	1,668	1,450
ROCK WASTE TO REPLACE BORROW					-892	-892
ADJUST FOR ROCK WASTE				-134	-134	
WASTE IN LIEU OF BORROW					-242,278	-242,278
PROJECT TOTAL		317,477	2,100	250,661		68,916
GRAND TOTALS:		317,477	2,100	250,661		68,916
SAY:		318,000				

UNCLASSIFIED EXCAVATION - ACCEPTABLE, BUT NOT TO BE IN THE TOP 3' OF EMBANKMENT OR BACKFILL
-W_CONN_REV- 28+75 TO 31+25 (21,500 CY) PER GEOTECH
-W_CONN_REV- 32+75 TO 36+25 (53,500 CY) PER GEOTECH

EST. DDE = 1,560 CY

EST. SHOULDER BORROW = 6,880 CY

CLASS IV SUBGRADE STABILIZATION PER GEOTECH RECS: 1,200 TONS

GEOTEXTILE FOR SOIL STABILIZATION: 4,450 SY

SELECT GRANULAR MATERIAL, CLASS III PER GEOTECH RECS: 850 CY

SHALLOW UNDERCUT PER GEOTECH RECS: 500 CY

WOVEN WIRE FENCE, 47" FABRIC

SURVEY LINE	STATION	STATION	LOCATION LT/RT	FABRIC LF	END BRACE	CORNER BRACE	LINE BRACE	4" POSTS	5" POSTS
-W_CONN_REV-	26+04	40+12	RT	1,761.00	2	5	6	106	37
			TOTAL:	1,761.00				106	37
			SAY:	1,770				106	37

PAVEMENT REMOVAL SUMMARY

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	YD²
-W_CONN_REV-	28+50	40+85	LT	3221.57
-W_CONN_REV-	36+91	40+00	RT	661.33
-E_CONN_REV-	10+50	23+04	LT	2398.29
-E_CONN_REV-	25+89	29+21	LT	716.36
-E_CONN_REV-	39+36	40+43	LT	99.91
-E_CONN_REV-	25+09	26+10	RT	1051.16
-RP_A-	34+00	40+09	RT	863.23
-EL-	26+15	62+00	LT	4055.81
-EL-	33+07	53+87	RT MED	465.56
-EL-	40+80	51+41	RT	1066.67
			TOTAL:	14,599.89
			SAY:	14,600

CONCRETE BARRIER SUMMARY

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	BARRIER TYPE	LF
-E_CONN_REV-	29+20.76	29+91.80	LT	T2	71
-E_CONN_REV-	29+91.80	31+23.70	LT	T1	132
-E_CONN_REV-	31+23.70	40+15.00	LT	T	882

"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

GUARDRAIL SUMMARY

G = GATING IMPACT ATTENUATOR TYPE 350
NG = NON-GATING IMPACT ATTENUATOR TYPE 350

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 TL-3		SINGLE FACED CONCRETE BARRIER	REMOVE EXISTING GUARDRAIL	REMOVE & STOCKPILE EXISTING GUARDRAIL	REMOVE & RESET EXISTING GUARDRAIL	REMARKS
				STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END			APPROACH END	TRAILING END	APPROACH END	TRAILING END	TES	XI	GREU, TL-3	M-350	XIII	CAT-1	VI MOD	B-77	III	G	NG					
-EL-	38+44.73	39+74.06	LT MED	131.25				39+74.06	4	6										1		1					131			
-EL-	39+74.06	40+34.70	LT MED						4	6																61				
-EL-	40+34.70	44+06.16	LT MED	93.75		256.25			4	6												1					386		50	TIE TO EXIST. DOUBLE FACE GUARDRAIL
-EL-	40+79.77	45+66.84	RT	500					14	17																	495		50	TIE TO EXIST. GUARDRAIL
-EL-	51+44.19	55+24.25	RT	206.25			53+48.25		14	17	50		1				1					1				178	1057			
-EL-	51+98.58	56+10.31	RT MED	331.25					4	6												2				80	416		50	TIE TO EXIST. DOUBLE FACE GUARDRAIL
-EL-	51+94.92	56+11.55	LT MED	337.5					4	6												2				80			50	TIE TO EXIST. DOUBLE FACE GUARDRAIL
-EL-	52+17.81	54+65.21	LT				54+43.97		14	17															1	225				
-RP_E-	10+00.00	22+26.00	RT	1200.00			22+27.16		14	17												1								
-RP_E-	15+28.87	22+51.42	LT	731.25			22+51.42		12	15	50		1				1					1								
-RP_E-	23+05.90	26+03.22	RT	287.50				25+00.00	14	17										1		1								
-RP_E-	23+26.80	26+41.16	LT	325.00				25+50.00	12	15										1		1								
-RP_F-	10+49.22	12+59.32	RT	206.25			11+37.99		10	13	50		1				1			1										
-RP_F-	13+78.36	20+36.97	RT	643.75					14	17	50		1				1					1								
-RP_F-	15+00.00	20+61.53	LT	562.50					12	15												2								
-RP_F-	22+65.52	23+87.87	LT	125				22+87.00	12	15										1		1								
-RP_F-	26+40.04	32+71.00	RT	43.75			27+00.00		12	15												1			1	572				
-RP_F-	33+68.19	34+19.25	RT	50.00					14	17	50		1				1										49		50	TIE TO EXIST. GUARDRAIL
-RP_WC-	13+52.84	20+50.00	LT	700					12	15																			50	TIE TO EXIST. GUARDRAIL
-RP_WC-	18+41.77	20+50.00	RT						12	15																197				
-W_CONN_REV-	26+75.00	30+02.33	LT	331.25				29+00.00	12	15										1							1614		50	TIE TO EXIST. GUARDRAIL
-W_CONN_REV-	38+78.85	40+85.47	RT				39+00.00		12	15															1	179				
-E_CONN_REV-	23+31.20	25+89.20	LT	100			24+31.20		21	24	50		1				1					1				158				
-E_CONN_REV-	23+73.65	26+14.65	RT	100			24+73.65		8	11	50		1				1					1				141				
-E_CONN_REV-	26+68.52	29+20.75	LT	193.75			27+76.90		4	7	50		1				1					1				57				
-E_CONN_REV-	36+01.60	42+00.00	RT	612.50			38+00.00		14	17	50		1				1										628		50	TIE TO EXIST. GUARDRAIL
-CONN_B_REV-	22+00.00	26+51.34	RT	443.75					14	17																	443		100	TIE TO EXIST. GUARDRAIL
-W_CONN_REV-	39+81.47		RT	18.75											2															
TOTAL				8275.00		256.25																								
	LESS ANCHOR DEDUCTIONS																													
	GREU, TL-3	9 @ 50.00'	=	450																										
	CAT-1	6 @ 6.25'	=	37.5																										
	B-77	19 @ 18.75'	=	356.25																										
		TOTAL DEDUCTIONS		843.75																										
TOTAL				7431.25		256.25									2		9			6		19			3	1928	5219		500	
			SAY	**7437.5**		**262.5**		**Additional Guardrail Posts: 20 EA**							**2**		**9**			**6**		**19**			**3**	**1930**	**5220**		**500**	
TEMPORARY GUARDRAIL																														
-EL-	41+50.00	46+00.00	MED	450																										
			SAY	**450**																										

5/28/99
17-AUG-2017 09:24
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