

COMPUTED BY: BDS DATE: 30403
 CHECKED BY: RCK DATE: 61804

STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS

PROJECT REFERENCE NO. B-3901
 SHEET NO. 3-A

"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 SHOULDER WIDTH	FLARE LENGTH		W		ANCHORS			IMPACT ATTENUATOR TYPE 350			REMARKS
				STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END			APPROACH END	TRAILING END	APPROACH END	TRAILING END	GRAU 350	III	AT-1	EA	G	NG	
-L-	21+81.50	22+61.66	RT	62.50	50.00		22+61.66(BR)		4'	9			4		1	1					
-L-	21+19.00	22+44.00	LT	125.00			22+44.00(BR)		4'	9	106.25		2'	1	1						
-L-	24+30.56	27+18.06	RT	287.75			26+00.00(F)		4'	9	100'		2'	1	1						
-L-	24+13.24	25+44.49	LT	131.25			24+13.24(BR)		4'	9	112.5'		2'	1	1						
-L-	25+95.00	27+76.25	LT	181.25			26+50.00(F)		6'	9	50'	50'	1'	1'	2						
			SUBTOTAL	787.50	50.00										5	4	1				
			LESS ANCHORS	325.00	6.25																
			TOTAL	462.50	43.75																
			ADDITIONAL POSTS = 5 EACH	SAY 475	50																

DEDUCTIONS FOR ANCHORS:
 GRAU-350 5 @ 50 EA. = 250
 TYPE III 4 @ 18.75 EA. = 75
 AT-1 1 @ 6.25 EA. = 6.25
 TOTAL = 331.25

EARTHWORK SUMMARY (CY)

LOCATION	UNCLASS. EXC.	EMBANK+%	BORROW	WASTE
-L- STA. 20+35.00 TO STA. 22+64.90	616	2207	1653	62
-L- STA. 24+09.90 TO STA. 28+00.00	363	2891	2564	36
PROJECT SUBTOTAL	979	5098	4217	98
LOSS DUE TO CLEAR & GRUBB	-50		50	
PROJECT TOTAL	929		4267	
STRUCT. EXCAVATION IN LIEU OF BORROW			-342	
EST 5% TO REPLACE TOPSOIL ON BORROW			213	
GRAND TOTAL	929		4138	
SAY	950		4300	

DDE = 90 CY
 UNDERCUT PER GEOTECH = 200 CY
 PAVEMENT STRUCTURE VOLUME = 0

LIST OF PIPES, ENDWALLS, ETC.

STATION	LOCATION (L,R,T, OR CL)	STRUCTURE NO.	TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	CLASS III R.C. PIPE (UNLESS NOTED OTHERWISE)			BITUMINOUS COATED C.S.P. PIPE (UNLESS OTHERWISE NOTED)			REINFORCED ENDWALLS	QUANTITIES FOR DRAINAGE STRUCTURES	TYPE OF GRATE	FRAME, GRATES AND HOOD STANDARD 840.03	D.I. STD. 840.14 OR STD. 840.15	T.B.D.I. STD. 840.35	D.I. (NS) FRAME W/TWO GRATES STD. 840.29	CORR. STEEL PIPE ELBOWS NO. & SIZE	CONC. COLLARS CL "B" C.Y. STD 840.72	CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71	PIPE REMOVAL LIN. FT.	REMARKS	
						15"	24"	60"	15"	24"	48"													PER EACH (0' THRU 5.0')
-L- 20+82	LT	1										24											24	
-L- 21+69	RT	2										40											22	
-L- 24+56	LT	3	631.10'	628.30'									1				1	1						
-L- 24+56	CL	3	4	628.30'	619.50'														2@15"					
-L- 26+19	CL	5	6	618.40'	613.50'			104					11.4										61	
-L- 27+50	RT	7										24												
TOTAL								104	56			64	24	11.4	1			1	1	2@15"			107	

EXISTING ASPHALT PAVEMENT BREAK-UP / REMOVAL

LINE	BEG. STA.	END STA.	LOCATION	ASPHALT BREAK -UP	ASPHALT REMOVAL
-L-	21+00.00	21+50.00	CL		119
-L-	21+50.00	23+07.49(BR)	CL	376	
-L-	23+82.93(BR)	26+50.00	CL	638	
-L-	26+50.00	27+00.00	CL		119
			TOTAL	1014	238
			SAY	1025	250

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