

COMPUTED BY: MKA DATE: 09-14-2017
 CHECKED BY: SCS DATE: 09-14-2017

PROJECT NO. B-4982 SHEET NO. 3B-1

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

GUARDRAIL SUMMARY

"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 BEGIN

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 SHOULDER WIDTH	FLARE LENGTH		W		ANCHORS (PERMANENT)				ANCHORS (TEMPORARY)				IMPACT ATTENUATOR TYPE 350		SINGLE FACED CONCRETE BARRIER	REMOVE EXISTING GUARDRAIL	REMOVE & STOCKPILE EXISTING GUARDRAIL	REMARKS		
				STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END			APPROACH END	TRAILING END	APPROACH END	TRAILING END	CAT-1	TYPE III	GREU TL-3	GREU TL-2	CAT-1	TYPE III	GREU TL-3	GREU TL-2	G	NG						
-L-	17+66.68	19+72.93	LT	206.25			Bridge		11.5'	14.5'	50'		1'																	
-L-	18+88.18	20+31.93	RT	143.75					11.5'	14.5'	50'		1'																	
-L-	21+88.07	24+06.82	LT	218.75					11.5'	14.5'	50'		1'																	
-L-	22+46.98	23+28.23	RT	81.25			Bridge		11.5'	14.5'	50'		1'																	
TOTAL				650.00												4	4													
DEDUCTION FOR ANCHORS:																														
	TYPE	QTY	LT/EA																											
	GREU, TL-3	4.00	50.00	-200.00																										
	TYPE III	4.00	18.75	-75.00																										
	TOTAL			375.00																										
	SAY			375.00																										
	ADDITIONAL GUARDRAIL POSTS				5	EA																								
TEMPORARY GUARDRAIL																														
-L-	17+47.83	20+04.08	LT	256.25			Bridge		2'	4'	25'	25'	1'																	
-L-	21+53.18	22+71.93	LT	118.75				Bridge	2'	4'	25'	25'	1'																	
TOTAL				375.00																										
DEDUCTION FOR ANCHORS:																														
	TYPE	QTY	LT/EA																											
	TYPE III	0.00	18.75	0.00																										
	GREU, TL-2	2.00	25.00	-50.00																										
	TOTAL			325.00																										
	SAY			325.00																										

PAVEMENT REMOVAL SUMMARY

IN SQUARE YARDS

SURVEY LINE	Station	Station	LOCATION LT/RT/CL	ASPHALT REMOVAL	ASPHALT BREAKUP	CONCRETE REMOVAL	CONCRETE BREAKUP
-L-	15+10.00	20+32.00	LT	777.1			
-L-	18+75.00	19+88.00	RT	89.2			
-L-	21+54.38	25+29.00	LT	918.8			
-L-	25+76.00	29+25.00	LT	183.5			
-DR1-	10+40.00	11+37.00	RT	75.3			
-DR1-	10+00.00	10+40.00	RT			45.2	
TOTAL:				2,043.8		45.2	
SAY:				2,050		46	

SHOULDER BERM GUTTER SUMMARY

LINE	Station	Station	LENGTH (LF)
-L-	18+30.00	19+51.67	121.67
-L-	19+83.00	20+06.01	23.01
TOTAL:			144.68
SAY:			150

SUMMARY OF EARTHWORK

IN CUBIC YARDS

Station	Station	Uncl. Excav.	Embank. +%	Borrow	Waste
-L- 13+00.00 RT	-L- 20+02.43 RT	1790	860		930
-DR1- 10+00.00	-DR1- 11+34.33	345	37		308
-L- 22+17.57 RT	-L- 29+25.00 RT	194	8917	8723	
-DR3- 10+22.00	-DR3- 11+50.00	41	662	621	
-L- 13+00.00 LT	-L- 20+02.43 LT	107	430	323	
-DR2- 10+20.20	-DR2- 11+20.00	5	107	102	
-L- 22+17.57 LT	-L- 29+25.00 LT	299	834	535	
-Y- 10+17.09	-Y- 10+60.00	9	9		
SUBTOTALS:		2790	11856	10304	1238
MATERIAL FOR SHOULDER CONSTRUCTION			421	421	
LOSS DUE TO CLEARING & GRUBBING		-400		400	
WASTE IN LIEU OF BORROW				-1238	-1238
PROJECT TOTALS:		2390	12277	9887	0
ESTIMATE 5% TO REPLACE TOP SOIL ON BORROW PIT				494	
GRAND TOTALS:		2390		10381	
SAY:		2,500		10,500	
DRAINAGE DITCH EXCAVATION = 150 CUBIC YARDS					
ADDITIONAL UNDERCUT = 400 CUBIC YARDS					
SHALLOW UNDERCUT = 150 CUBIC YARDS					
CLASS IV SUBGRADE STABILIZATION = 300 TONS					
SELECT GRANULAR MATERIAL = 500 CUBIC YARDS					

TEMPORARY CHAIN LINK FENCE, 72" FABRIC

SURVEY LINE	Station	Station	LOCATION LT/RT/CL	A	B	C	D	E	F
				FABRIC L.F.	END BRACE	CORNER BRACE	LINE BRACE	LINE POSTS	TERMINAL POSTS
L	24+15.00	24+35.00	RT	32.78	2	0	0	2.40	2
L	24+53.55	26+69.00	RT	253.16	2	1	0	20.93	3
TOTAL:				285.94				23.33	5
SAY:				286				24	5