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DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

STV 100 Years
STV Engineers, Inc.
900 West Trade St., Suite 715
Charlotte, NC 28202
NC License Number F-0991

PROJECT REFERENCE NO.	SHEET NO.
B-5808	3B-1
R/W SHEET NO.	

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

EARTHWORK SUMMARY (IN CUBIC YARDS)

CHAIN	FROM STATION	TO STATION	SIDE	PHASE	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBT+%	BORROW	WASTE
-XSB-	16+55.00	20+21.84	LT & RT	PHASE 1	219		457	238	
-XSB-	22+11.84	25+49.52	LT & RT	PHASE 1	242		224		18
-L-	16+55.00	19+69.35	LT	PHASE 1	32		100	68	
-L-	21+59.35	25+94.00	LT	PHASE 1	73		1,375	1,302	
-L-	16+55.00	19+69.35	RT	PHASE 3	61		551	490	
-L-	21+59.35	25+94.00	RT	PHASE 3	237		905	668	
TOTAL					864		3,612	2,766	18
MATERIAL FOR SHOULDER CONSTRUCTION									
LOSS DUE TO CLEARING AND GRUBBING									
ADDITIONAL UNDERCUT									
ROCK WASTE TO REPLACE BORROW									
ADJUST FOR ROCK WASTE									
WASTE IN LIEU OF BORROW								-18	-18
PROJECT TOTAL					864		3,612	2,748	
ESTIMATE 5% FOR TOPSOIL ON BORROW PITS								137	
GRAND TOTAL					864		3,612	2,885	
SAY					900			3,000	

DDE = 70 CY
CONTINGENCY UNDERCUT = 450 CY
CONTINGENCY SELECT GRANULAR MATERIAL = 400 CY

NOTE: Approximate quantities only. Unclassified Excavation, Borrow Excavation, Fine Grading, Clearing and Grubbing, and Removal of Existing Pavement will be paid for at the contract lump sum price for "Grading."

ASPHALT PAVEMENT REMOVAL SUMMARY

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	YD^2
-L-	17+99	18+94	LT	203
-L-	19+29	20+97	LT	158
-L-	22+39	24+60	LT	431
			TOTAL:	792
			SAY:	800

"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	XI MOD	B-77	GREU TL-3	GREU TL-2	TYPE III	CAT-1	TEMP GREU TL-3	TEMP TYPE III	TEMP CAT-1	EA	G NG				
-L-	19+95.87	20+31.01	LT	35.16				20+31.01	23.25	25.25		0.0		0.0					1	1									
-L-	18+18.26	19+17.47	RT	74.63	44.21		19+17.47		9.5	11.5	0.0		0.0						1								324.00		R=36' SHOP CURVED
-L-	22+26.98	24+10.86	LT	183.88				22+26.98	7.5 - 23.25	10.5 - 26.25	50.0		1.0				1		1								292.00		
-L-	21+13.43	21+48.60	RT	35.16				21+13.43	7.5	10.5		0.0		0.0					1	1							314.00		
			TOTAL:	328.83	44.21												1 EA		4 EA	2 EA							930.00 LF		
			DEDUCTION FOR ANCHOR UNITS:																										
			(2 CAT-1 @ 6.25')	-12.50																									
			(4 TYPE-III @ 18.75')	-75.00																									
			(1 GREU TL-3 @ 50')	-50.00																									
			TOTAL GUARDRAIL LENGTH:	191.33	44.21																								
			SAY:	200.00 LF	50.00 LF																								
			ADDITIONAL GUARDRAIL POSTS = 5 EA.																										

TEMPORARY GUARDRAIL SUMMARY

-XSB-	19+61.34	20+04.49	LT	43.75				20+31.01	2.0	5.0													1						REMOVE DURING TRAFFIC CONTROL
-L-	19+73.41	20+10.76	LT	25	12.5			19+78.00	2.0	4.0												1	1						REMOVE DURING TRAFFIC CONTROL
-L-	21+81.02	22+74.77	LT	93.75				22+16.53	2.0	4.0											1	1							REMOVE DURING TRAFFIC CONTROL
			TOTAL:	162.50	12.5																1 EA	2 EA	2 EA						
			DEDUCTION FOR ANCHOR UNITS:																										
			(2 CAT-1 @ 6.25')	-12.50																									
			(2 TYPE-III @ 18.75')	-37.50																									
			(1 GREU TL-3 @ 50')	-50.00																									
			TOTAL GUARDRAIL LENGTH:	62.50	12.50																								
			SAY:	62.50 LF	12.50 LF																								

2/21/2023
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