

### Earthwork Balance Sheet

Volumes in Cubic Yards

PROJECT:     R-2511    

COUNTY:     Beaufort    

DATE:     11/24/2021    

COMPILED BY:     Anton Gneushev    

CHAIN	STATION	STATION	EXCAVATION					EMBANKMENT				BORROW	WASTE			
			TOTAL UNCLASS.	ROCK	UNDERCUT	UNSUIT. UNCLASS.	SUITABLE UNCLASS.	TOTAL	ROCK	EARTH	EMBANK. (+)30%		ROCK	SUITABLE	UNSUIT.	TOTAL
SUMMARY 1																
-L- LT	8+00.00	38+00.00	3,475			1,825	1,650	11,760		11,760	15,288	13,638			1,825	1,825
-L- RT	8+00.00	38+00.00	433				433	12,092		12,092	15,720	15,287				
-L-	8+00.00	38+00.00			2,083									2,083	2,083	
-Y1-	10+50.00	12+50.00	12				12	15		15	20	8				
SUBTOTAL			3,920		2,083	1,825	2,095	23,867		23,867	31,027	28,932			3,908	3,908
SUMMARY 2																
-L- LT	38+00.00	68+00.00						33,095		33,095	43,024	43,024				
-L- RT	38+00.00	68+00.00						31,034		31,034	40,344	40,344				
-L-	38+00.00	68+00.00			230									230	230	
-Y2-	15+50.00	17+50.00	1				1	857		857	1,114	1,113				
SUBTOTAL			1		230		1	64,986		64,986	84,482	84,481			230	230
SUMMARY 3																
-L- LT	68+00.00	98+00.00						26,476		26,476	34,419	34,419				
-L- RT	68+00.00	98+00.00						18,883		18,883	24,548	24,548				
-L-	68+00.00	98+00.00			1,674									1,674	1,674	
SUBTOTAL					1,674			45,359		45,359	58,967	58,967			1,674	1,674
SUMMARY 4																
-L- LT	98+00.00	128+00.00						26,708		26,708	34,720	34,720				
-L- RT	98+00.00	128+00.00						28,030		28,030	36,439	36,439				
-L-	98+00.00	128+00.00			2,408									2,408	2,408	
SUBTOTAL					2,408			54,738		54,738	71,159	71,159			2,408	2,408
SUMMARY 5																
-L- LT	128+00.00	156+21.18	18				18	27,389		27,389	35,606	35,588				
-L- RT	128+00.00	156+28.87	13				13	22,635		22,635	29,426	29,413				
-L-	128+00.00	156+28.87			1,943									1,943	1,943	
-Y3-	11+00.00	12+50.00	124			120	4	200		200	260	256		120	120	
SUBTOTAL			155		1,943	120	35	50,224		50,224	65,291	65,256			2,063	2,063
SUMMARY 6																
-L- LT	156+80.76	186+50.00						26,533		26,533	34,493	34,493				
-L- RT	156+89.29	186+50.00						26,061		26,061	33,879	33,879				
-L-	156+89.29	186+50.00			1,593									1,593	1,593	
-Y4-	17+50.00	20+00.00	86				86	2,253		2,253	2,929	2,843				
SUBTOTAL			86		1,593		86	54,847		54,847	71,301	71,215			1,593	1,593
SHEET TOTALS																
			4,162		9,931	1,945	2,217	294,021		294,021	382,227	380,010			11,876	11,876

NOTE: EARTHWORK QUANTITIES ARE CALCULATED BY RKK. THESE EARTHWORK QUANTITIES ARE BASED IN PART ON SUBSURFACE DATA PROVIDED BY THE GEOTECHNICAL ENGINEERING UNIT.

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CHAIN	STATION	STATION	EXCAVATION					EMBANKMENT				BORROW	WASTE				
			TOTAL UNCLASS.	ROCK	UNDERCUT	UNSUIT. UNCLASS.	SUITABLE UNCLASS.	TOTAL	ROCK	EARTH	EMBANK. (+)30%		ROCK	SUITABLE	UNSUIT.	TOTAL	
SUMMARY 7																	
-L- LT	186+50.00	216+50.00	600			488	112	24,676		24,676	32,079	31,967				488	488
-L- RT	186+50.00	216+50.00	8,090			3,076	5,014	22,431		22,431	29,160	24,146				3,076	3,076
-L-	186+50.00	216+50.00			4,679											4,679	4,679
-Y5-	12+50.00	14+50.00	244				244	511		511	664	420					
-Y5-	16+50.00	18+00.00	639				639	112		112	146				493		493
SUBTOTAL			9,573		4,679	3,564	6,009	47,730		47,730	62,049	56,533			493	8,243	8,736
SUMMARY 8																	
-L- LT	216+50.00	246+50.00					0	30,052		30,052	39,068	39,068					
-L- RT	216+50.00	246+50.00					0	31,792		31,792	41,330	41,330					
-L-	216+50.00	246+50.00			1,266											1,266	1,266
SUBTOTAL					1,266			61,844		61,844	80,397	80,398				1,266	1,266
SUMMARY 9																	
-L- LT	246+50.00	276+50.00	2				2	32,389		32,389	42,106	42,104					
-L- RT	246+50.00	276+50.00						38,174		38,174	49,626	49,626					
-L-	246+50.00	276+50.00			137											137	137
SUBTOTAL			2		137		2	70,563		70,563	91,732	91,730				137	137
SUMMARY 10																	
-L- LT	276+50.00	306+50.00	1,720				1,720	26,791		26,791	34,828	33,108					
-L- RT	276+50.00	306+50.00						29,535		29,535	38,396	38,396					
-L-	276+50.00	306+50.00			3,064											3,064	3,064
SUBTOTAL			1,720		3,064		1,720	56,326		56,326	73,224	71,504				3,064	3,064
SUMMARY 11																	
-L- LT	306+50.00	336+50.00	10				10	17,216		17,216	22,381	22,371					
-L- RT	306+50.00	336+50.00	1,218			799	419	27,787		27,787	36,123	35,704				799	799
-L- RT	332+75.00	335+25.00															
-L-	306+50.00	336+50.00			312											312	312
SUBTOTAL			1,228		312	799	429	45,003		45,003	58,504	58,075				1,111	1,111
SUMMARY 12																	
-L- LT	336+50.00	366+50.00						39,137		39,137	50,878	50,878					
-L- RT	336+50.00	366+50.00						30,599		30,599	39,779	39,779					
-L-	336+50.00	366+50.00			5,659											5,659	5,659
SUBTOTAL					5,659			69,736		69,736	90,657	90,657				5,659	5,659
SHEET TOTALS			12,523		15,117	4,363	8,160	351,202		351,202	456,563	448,897			493	19,480	19,973

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CHAIN	STATION	STATION	EXCAVATION					EMBANKMENT				BORROW	WASTE				
			TOTAL UNCLASS.	ROCK	UNDERCUT	UNSUIT. UNCLASS.	SUITABLE UNCLASS.	TOTAL	ROCK	EARTH	EMBANK. (+)30%		ROCK	SUITABLE	UNSUIT.	TOTAL	
SUMMARY 13																	
-L- LT	366+50.00	396+50.00	1,431					1,431	40,693		40,693	52,901	51,470				
-L- RT	366+50.00	396+50.00	932					932	36,024		36,024	46,831	45,899				
-L-	366+50.01	396+50.01			2,672											2,672	2,672
-Y6-	18+00.00	20+00.00	75					75	347		347	451	376				
-Y6-	22+00.00	23+50.00	2					2	114		114	148	146				
SUBTOTAL			2,440		2,672			2,440	77,178		77,178	100,331	97,891			2,672	2,672
SUMMARY 14																	
-L- LT	396+50.00	426+50.00							25,683		25,683	33,388	33,388				
-L- RT	396+50.00	426+50.00							21,162		21,162	27,511	27,511				
-L-	396+50.00	426+50.00			537											537	537
SUBTOTAL					537				46,845		46,845	60,899	60,899			537	537
SUMMARY 15																	
-L- LT	426+50.00	456+50.00	249					249	29,375		29,375	38,188	37,939				
-L- RT	426+50.00	456+50.00							30,709		30,709	39,922	39,922				
SUBTOTAL			249					249	60,084		60,084	78,109	77,860				
SUMMARY 16																	
-L- LT	456+50.00	486+50.00	65					65	33,649		33,649	43,744	43,679				
-L- RT	456+50.00	486+50.00	1,206					1,206	28,295		28,295	36,784	35,578				
SUBTOTAL			1,271					1,271	61,944		61,944	80,527	79,256				
SUMMARY 17																	
-L- LT	486+50.00	516+50.00	2,413					2,413	28,943		28,943	37,626	35,213				
-L- RT	486+50.00	516+50.00	1,823			900		923	27,797		27,797	36,136	35,213			900	900
-L-	486+50.00	516+50.00			1,542											1,542	1,542
-Y7-	18+00.00	20+50.00	578					578	1,909		1,909	2,482	1,904				
-Y8-	11+00.00	14+00.00	8					8	1,101		1,101	1,431	1,423				
SUBTOTAL			4,822		1,542	900		3,922	59,750		59,750	77,675	73,753			2,442	2,442
SUMMARY 18																	
-L- LT	516+50.00	546+50.00							20,849		20,849	27,104	27,104				
-L- RT	516+60.00	546+50.00	2					2	29,728		29,728	38,646	38,644				
-L-	516+60.00	546+50.00			527											527	527
-Y9-	11+00.00	12+50.00	103					103	257		257	334	231				
-Y10-	12+00.00	14+50.00	175					175	395		395	514	339				
SUBTOTAL			280		527			280	51,229		51,229	66,598	66,318			527	527
SHEET TOTALS			9,062		5,278	900		8,162	357,030		357,030	464,139	455,977			6,178	6,178

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## Earthwork Balance Sheet

SHEET 5 OF 5

Volumes in Cubic Yards

PROJECT:   R-2511  

COUNTY:   Beaufort  

DATE:   11/24/2021  

COMPILED BY:   Anton Gneushev  

CUMULATIVE TOTALS	EXCAVATION					EMBANKMENT				BORROW	WASTE			
	TOTAL UNCLASS.	ROCK	UNDERCUT	UNSUIT. UNCLASS.	SUITABLE UNCLASS.	TOTAL	ROCK	EARTH	EMBANK. (+)30%		ROCK	SUITABLE	UNSUIT.	TOTAL
SHEET 1 SUMMARY	4,162		9,931	1,945	2,217	294,021		294,021	382,227	380,010			11,876	11,876
SHEET 2 SUMMARY	12,523		15,117	4,363	8,160	351,202		351,202	456,563	448,897		493	19,480	19,973
SHEET 3 SUMMARY	9,062		5,278	900	8,162	357,030		357,030	464,139	455,977			6,178	6,178
SHEET 4 SUMMARY	44,596				44,596	82,179		82,179	106,833	90,992		28,756		28,756
<b>SHEET TOTALS</b>	<b>70,343</b>		<b>30,326</b>	<b>7,208</b>	<b>63,135</b>	<b>1,084,432</b>		<b>1,084,432</b>	<b>1,409,762</b>	<b>1,375,876</b>		<b>29,249</b>	<b>37,534</b>	<b>66,783</b>
MATERIAL FOR SHOULDER CONSTRUCTION						104,244		104,244	135,517	135,517				
GRADE POINT UNDERCUT CONTINGENCY			1,000			1,000		1,000	1,300	1,300			1,000	1,000
CONTINGENCY UNDERCUT FOR SUBGRADE			3,000										3,000	3,000
ADDITIONAL UNDERCUT CONTINGENCY			2,000										2,000	2,000
<b>EARTH WASTE IN LIEU OF BORROW</b>										<b>-29,249</b>		<b>-29,249</b>		<b>-29,249</b>
<b>PROJECT TOTAL</b>	<b>70,343</b>		<b>36,326</b>	<b>7,208</b>	<b>63,135</b>	<b>1,189,676</b>		<b>1,189,676</b>	<b>1,546,579</b>	<b>1,483,444</b>			<b>43,534</b>	<b>43,534</b>
EST. 5% TO REPLACE TOP SOIL ON BORROW PIT										74,172				
REMOVAL OF TEMP. DETOURS 16,17 & 20												17,060		17,060
<b>GRAND TOTAL</b>	<b>70,343</b>									<b>1,557,617</b>				<b>60,594</b>
SAY	70,350									1,557,620				60,600
DRAINAGE DITCH EXCAVATION	143,430													

\*UNCLASSIFIED EXCAVATION - ACCEPTABLE, BUT NOT TO BE USED IN TOP 3' OF EMBANKMENT OR BACKFILL (15,400 CY) SEE LOCATIONS BELOW

-L- 9+25 - 11+25 (1392.2 CY)	-L- 162+75 - 165+25 (600.0 CY)	-L- 262+75 - 267+25 (864.8 CY)	-L- 417+75 - 419+25 (22.0 CY)	-Y6- 21+70 - 23+95 (102.8 CY)
-L- 42+75 - 45+25 (516.2 CY)	-L- 232+75 - 236+75 (763.7 CY)	-L- 270+75 - 272+75 (281.7 CY)	-L- 461+75 - 463+90 (399.3 CY)	
-L- 75+25 - 76+25 (2169.0 CY)	-L- 239+25 - 241+25 (321.1 CY)	-L- 276+75 - 278+75 (108.4 CY)	-L- 463+90 - 465+25 (212.7 CY)	
-L- 82+75 - 84+75 (333.7 CY)	-L- 244+75 - 246+75 (205.4 CY)	-L- 286+75 - 289+75 (1365.9 CY)	-L- 488+75 - 491+25 (390.3 CY)	
-L- 91+25 - 94+75 (876.5 CY)	-L- 251+25 - 252+75 (305.9 CY)	-L- 307+25 - 313+25 (1170.2 CY)	-L- 518+75 - 521+25 (1771.7 CY)	
-L- 158+40 - 159+75 (113.4 CY)	-L- 257+25 - 259+75 (439.7 CY)	-L- 375+25 - 377+25 (538.6 CY)	-Y6- 17+70 - 19+90 (127.8 CY)	

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BALANCE EARTHWORK CHECK			
TOTAL UNCL. EXC:	70,343	EMB+%:	
UNDERCUT EXC:		TOTAL WASTE:	60,594
BORROW EXC:	1,557,617		
TOTAL:	1,627,960	TOTAL:	60,594