

## Earthwork Balance Sheet

PROJECT: U-4405B

COUNTY: Cumberland

Volumes in Cubic Yards  
DATE: 11.22.24

COMPILED BY: B. PAYNE

SHEET 1 OF 1 SHEETS

STATION	STATION	EXCAVATION					EMBANKMENT				BORROW	WASTE			
		TOTAL UNCLASS.	ROCK	UNDERCUT	UNSUIT. UNCLASS.	SUITABLE UNCLASS.	TOTAL	ROCK	EARTH	EMBANK. +25%		ROCK	SUITABLE	UNSUIT.	TOTAL
-L- LT 106+00.00	115+00.00	75	0	0	0	75	700	0	700	875	800	0	0	0	0
-L- LT 115+50.00	145+00.00	707	0	0	0	707	4,335	0	4,335	5,419	4,712	0	0	0	0
-Y9- 12+15.00	13+05.00	12	0	0	0	12	9	0	9	11	0	0	1	0	1
-L- RT 145+50.00	175+00.00	1,164	0	0	600	564	1,708	0	1,708	2,135	1,571	0	0	600	600
-L- RT 175+50.00	203+00.00	560	0	0	0	560	854	0	854	1,068	508	0	0	0	0
-Y14- 10+45.00	11+45.00	162	0	0	0	162	4	0	4	5	0	0	157	0	157
-Y16- 10+42.00	11+70.00	3	0	0	0	3	44	0	44	55	52	0	0	0	0
-Y18- 10+47.00	11+50.00	4	0	0	0	4	3	0	3	4	0	0	0	0	0
-Y21- 10+43.00	11+10.00	26	0	0	0	26	9	0	9	11	0	0	15	0	15
<b>Phase I Step 2 TOTAL</b>		<b>2,713</b>	<b>0</b>	<b>0</b>	<b>600</b>	<b>2,113</b>	<b>7,666</b>	<b>0</b>	<b>7,666</b>	<b>9,583</b>	<b>7,643</b>	<b>0</b>	<b>173</b>	<b>600</b>	<b>773</b>
-L- RT 106+00.00	115+00.00	31	0	0	0	31	831	0	831	1,039	1,008	0	0	0	0
-L- RT 115+50.00	145+00.00	1,085	0	0	0	1,085	2,785	0	2,785	3,481	2,396	0	0	0	0
-L- RT 221+55.00							325		325	406	406	0	0	0	0
-Y10- 10+54.00	11+45.00	12	0	0	0	12	9	0	9	11	0	0	1	0	1
-Y11- 10+43.00	11+60.00	210	0	0	0	210	15	0	15	19	0	0	191	0	191
-Y12- 10+42.00	11+50.00	158	0	0	0	158	26	0	26	33	0	0	125	0	125
-L- LT 145+50.00	175+00.00	513	0	0	0	513	892	0	892	1,115	602	0	0	0	0
-L- LT 175+50.00	203+00.00	437	0	0	0	437	436	0	436	545	108	0	0	0	0
-Y15- 11+40.00	11+83.00	33	0	0	0	33	0	0	0	0	0	0	33	0	33
-Y13- 16+50.00	19+68.00	133	0	0	0	133	755	0	755	944	811	0	0	0	0
<b>Phase II Step 1 TOTAL</b>		<b>2,612</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2,612</b>	<b>6,074</b>	<b>0</b>	<b>6,074</b>	<b>7,593</b>	<b>5,331</b>	<b>0</b>	<b>350</b>	<b>0</b>	<b>350</b>
-L- CL 106+00.00	115+00.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-L- CL 115+50.00	145+00.00	42	0	0	0	42	0	0	0	0	0	0	42	0	42
-L- CL 145+50.00	175+00.00	72	0	0	0	72	451	0	451	564	492	0	0	0	0
-L- CL 175+50.00	203+00.00	222	0	0	0	222	2	0	2	3	0	0	219	0	219
<b>Phase III Center TOTAL</b>		<b>336</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>336</b>	<b>453</b>	<b>0</b>	<b>453</b>	<b>567</b>	<b>492</b>	<b>0</b>	<b>261</b>	<b>0</b>	<b>261</b>
		0							0	0.00	0	0	0	0	0
		0							0	0.00	0	0	0	0	0
		0							0	0.00	0	0	0	0	0
		0							0	0.00	0	0	0	0	0
		0							0	0.00	0	0	0	0	0
<b>SUBTOTAL</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>TOTAL</b>		<b>5,661</b>	<b>0</b>	<b>0</b>	<b>600</b>	<b>5,061</b>	<b>14,193</b>	<b>0</b>	<b>14,193</b>	<b>17,743</b>	<b>13,466</b>	<b>0</b>	<b>784</b>	<b>600</b>	<b>1,384</b>
LOSS DUE TO CLEARING & GRUBBING		-300				-300	0			0	300		0		0
MATERIAL FOR SHOULDER CONSTRUCTION										1,500	1,500				
WASTE IN LIEU OF BORROW		0				0					-784		-784		-784
<b>PROJECT TOTAL</b>		<b>5,361</b>	<b>0</b>	<b>0</b>	<b>600</b>	<b>4,761</b>	<b>14,193</b>	<b>0</b>	<b>14,193</b>	<b>19,243</b>	<b>14,482</b>	<b>0</b>	<b>0</b>	<b>600</b>	<b>600</b>
EST. 5% TO REPLACE TOP SOIL ON BORROW PIT											724				
<b>GRAND TOTAL</b>		<b>5,361</b>	<b>0</b>	<b>0</b>	<b>600</b>	<b>4,761</b>	<b>14,193</b>	<b>0</b>	<b>14,193</b>	<b>19,243</b>	<b>15,206</b>	<b>0</b>	<b>0</b>	<b>600</b>	<b>600</b>
SAY		6,000									<b>16,000</b>				

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

EST. DDE = 2,150 CUBIC YARDS

EST. SHALLOW UNDERCUT = 950 CUBIC YARDS

CLASS IV SUBGRADE STABILIZATION = 1,900 CUBIC YARDS

PER GEOTECH RECOMMENDATION, ESTIMATED 600 CUBIC YARDS OF UNDERCUT TO BE USED IN THE DISCRETION OF THE RESIDENT ENGINEER.

BALANCE EARTHWORK CHECK			
TOTAL UNCL. EXC:	5,361	EMB + %:	19,243
UNDERCUT EXC:	0	TOTAL WASTE:	600
BORROW EXC:	14,482		
<b>TOTAL:</b>	<b>19,843</b>	<b>TOTAL:</b>	<b>19,843</b>