

# Earthwork Balance Sheet

Volumes in Cubic Yards

PROJECT: R-5725

COUNTY: Guilford

DATE: 3/29/2023

COMPILED BY: Michael Burns, PE

SHEET     OF     SHEETS

STATION	STATION	EXCAVATION					EMBANKMENT				BORROW	WASTE				
		TOTAL UNCLASS.	ROCK	UNDERCUT	UNSUIT. UNCLASS.	SUITABLE UNCLASS.	TOTAL	ROCK	EARTH	EMBANK. +20%		ROCK	SUITABLE	UNSUIT.	TOTAL	
<b>PHASE 1</b>																
-DRIVE2- 10+00.00	-DRIVE2- 11+70.00	126				126	74		74	89				37		37
-Y2A- 15+50.00 LT	-Y2A- 19+01.64 LT	21				21	308		308	370	349					
-Y2A- 15+50.00 RT	-Y2A- 19+01.64 RT	16				16	243		243	292	276					
-Y2B- 10+00.00 LT	-Y2B- 14+30.00 LT	25				25	402		402	482	457					
-Y2B- 10+00.00 RT	-Y2B- 14+30.00 RT	314			150	164	78		78	94			70	150		220
-DRIVE1- 9+90.00	-DRIVE1- 11+71.94	17				17	264		264	317	300					
<b>SUBTOTAL</b>		519			150	369	1,369		1,369	1,644	1,382			107	150	257
<b>PHASE 2</b>																
-L2- 10+00.00 RT	-L2- 39+50.00 RT	351				351	3,942		3,942	4,730	4,379					
-Y2B- 14+30.00 LT	-Y2B- 15+14.01 LT	3				3	35		35	42	39					
-Y2B- 15+81.76 LT	-Y2B- 18+00.00 LT	38				38	101		101	121	83					
-L2- 10+00.00 LT	-L2- 39+50.00 LT	183				183	4,728		4,728	5,674	5,491					
<b>SUBTOTAL</b>		575				575	8,806		8,806	10,567	9,992					
<b>PHASE 3</b>																
-Y2B- 14+30.00 RT	-Y2B- 15+14.01 RT	40				40	20		20	24			16			16
-Y2B- 15+81.76 RT	-Y2B- 18+00.00 RT	37				37	37		37	44	7					
-L1- 11+50.00 LT	-L1- 21+17.15 LT	2,631				2,631	267		267	320			2,311			2,311
-L1- 11+50.00 RT	-L1- 21+17.15 RT	1,877				1,877	151		151	181			1,696			1,696
-DRIVE3- 10+00.00	-DRIVE3- 11+70.00	969				969	3		3	4			965			965
-Y1- 10+50.00	-Y1- 13+62.65	77				77	502		502	602	525					
<b>SUBTOTAL</b>		5,631				5,631	980		980	1,175	532			4,988		4,988
<b>TOTAL</b>		6,725			150	6,575	11,155		11,155	13,386	11,906			5,095	150	5,245
<b>MATERIAL FOR SHOULDER CONSTRUCTION WASTE IN LIEU OF BORROW</b>							174		174	209	209			-109		-109
<b>PROJECT TOTAL</b>		6,725			150	6,575	11,329		11,329	13,595	12,006			4,986	150	5,136
<b>EST. 5% TO REPLACE TOP SOIL ON BORROW PIT</b>											600					
<b>GRAND TOTAL</b>		6,725			150	6,575	11,329		11,329	13,595	12,606			4,986	150	5,136
<b>SAY</b>		7,070									13,240					

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 = 120 CY

GEOTEXTILE FOR SOIL STABILIZATION = 1,000 SY (Contingency)

SELECT GRANULAR MATERIAL = 1,500 CY (Contingency)

ADDITIONAL UNDERCUT = 1,250 CY (Contingency)

UNCLASSIFIED EXCAVATION - ACCEPTABLE, BUT NOT TO BE USED IN TOP 3 FT. OF EMBANKMENT OR BACKFILL (-Y1- STA. 12+25 & 12+75) = 1,450 CY