

## Earthwork Balance Sheet

Volumes in Cubic Yards

PROJECT: U-5108

COUNTY: Mecklenburg

DATE: 5/1/2024

COMPILED BY: KIMLEY-HORN

SHEET 1 OF 1 SHEETS

LINE	STATION	STATION	EXCAVATION					EMBANKMENT				BORROW	WASTE			
			TOTAL UNCLASS.	ROCK	UNDERCUT	UNSUIT. UNCLASS.	SUITABLE UNCLASS.	TOTAL	ROCK	EARTH	EMBANK. +20%		ROCK	SUITABLE	UNSUIT.	TOTAL
<b>SUMMARY 1 (PHASE 1)</b>																
-L-	39+50.00	56+50.00	2210		2832	7	2198	6407		6407	7688	5490	0	0	2839	2839
-L-	56+50.00	73+46.00	4142		2617	198	3944	5366		5366	6439	2495	0	0	2815	2815
-L-	74+56.00	94+14.81	1165		3233	2	1163	39908		39908	47890	46727	0	0	3235	3235
-GW-L-	10+00.00	16+62.38	127				127	55		55	66	0	0	61	0	61
DRW-12	10+00.00	10+50.00	0				0	230		230	276	276	0	0	0	0
DRW-13	10+00.00	10+50.00	0				0	226		226	271	271	0	0	0	0
		<b>SUBTOTAL</b>	7644	0	8682	207	7432	52192	0	52192	62630	55259	0	61	8889	8950
<b>SUMMARY 2 (PHASE 2)</b>																
-L- (RT)	26+27.00	39+30.36	570		48	14	505	1541		1541	1849	1344	0	0	62	62
DRW-03	10+18.80	10+50.00	8				8	1		1	1	0	0	6.8	0	7
DRW-05	10+19.55	10+50.00	5				5	2		2	2	0	0	2.6	0	3
-L-	94+14.81	94+55.00	58		86		58	1		1	1	0	0	56.8	86	143
-L1-	10+00.00	18+50.00	1242				1242	174		174	209	0	0	1033.2	0	1033
-Y4-	10+13.00	10+50.00	16				16	0		0	0	0	0	16	0	16
DRW-15	10+00.00	10+50.00	8				8	0		0	0	0	0	8	0	8
-Y5	10+32.30	10+70.00	19				19	2		2	2	0	0	16.6	0	17
-Y6- (RT)	3+39.00	16+00.00	313				313	1158		1158	1390	1077	0	0	0	0
-RABC-	10+25.00	12+50.00	976		119		976	13		13	16	0	0	960.4	119	1079
-Y6- RAB (RT)	17+00.00	18+50.00	361				361	0		0	0	0	0	361	0	361
-RABD-	10+00.00	13+00.00	1097		402		1097	4		4	5	0	0	1092.2	402	1494
-Y6- (RT)	20+50.00	25+60.00	133				133	34		34	41	0	0	92.2	0	92
		<b>SUBTOTAL</b>	4806	0	655	14	4741	2930	0	2930	3516	2421	0	3646	669	4315
<b>SUMMARY 3 (PHASE 3)</b>																
-L- (LT)	27+67.05	39+52.70	66		48	2	64	3454		3454	4145	4081	0	0	50	50
DRW-02	10+16.00	11+15.00	65				65	30		30	36	0	0	29	0	29
-Y6- (LT)	5+50.00	16+00.00	199				199	2212		2212	2654	2455	0	0	0	0
-Y6- (LT)	20+50.00	25+59.95	72				72	108		108	130	58	0	0	0	0
-Y7-	10+00.00	10+85.00	0				0	155		155	186	186	0	0	0	0
-RABA-	10+00.00	12+25.00	205		50		205	113		113	136	0	0	69	50	119
-RABB-	10+00.00	12+50.00	33		38		33	1752		1752	2102	2069	0	0	38	38
-Y6- RAB (LT)	17+00.00	20+50.00	214				214	68		68	82	0	0	132	0	132
		<b>SUBTOTAL</b>	854	0	136	2	852	7892	0	7892	9470	8849	0	231	138	369
<b>SUMMARY 4 (PHASE 4)</b>																
-Y6- RAB	17+50.00	18+00.00	0				0	461		461	530	530	0	0	0	0
		<b>SUBTOTAL</b>	0	0	0	0	0	461	0	461	530	530	0	0	0	0
<b>SUBTOTAL (PHASES 1 TO 4)</b>			13304	0	9473	223	13025	63475	0	63475	76147	67060	0	3938	9696	13634
<b>SHEET TOTAL</b>			13304	0	9473	223	13025	63475	0	63475	76147	67060	0	3938	9696	13634

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 UN

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SHEET 2 OF 2 SHEETS

STATION	STATION	EXCAVATION					EMBANKMENT				BORROW	WASTE			
		TOTAL UNCLASS.	ROCK	UNDERCUT	UNSUIT. UNCLASS.	SUITABLE UNCLASS.	TOTAL	ROCK	EARTH	EMBANK. +20%		ROCK	SUITABLE	UNSUIT.	TOTAL
	TOTAL FROM SHEET 1	13304	0	9473	223	13025	63475	0	63475	76147	67060	0	3938	9696	13634
	<b>TOTAL</b>	13304	0	9473	223	13025	63475	0	63475	76147	67060	0	3938	9696	13634
	MATERIAL FOR SHOULDER CONSTRUCTION						350		350	420	420				
	LOSS DUE TO CLEARING & GRUBBING	-1200				-1200					1200				
	ADDITIONAL UNCLASSIFIED EXCAVATION - UNSUITABLE WASTE	2100			2100		2100		2100	2520	2520			2100	2100
	ADDITIONAL UNDERCUT			2750			2750		2750	3300	3300			2750	2750
	ROCK WASTE TO REPLACE BORROW							0	0		0	0			0
	ADJUST FOR ROCK WASTE									0					
	WASTE IN LIEU OF BORROW										-3938		-3938		-3938
	<b>PROJECT TOTAL</b>	14204	0	12223	2323	11825	68675	0	68675	82387	70562	0	0	14546	14546
	EST. 5% TO REPLACE TOP SOIL ON BORROW PIT										3528				
	<b>GRAND TOTAL</b>	14204	0	12223	2323	11825	68675	0	68675	82387	74090	0	0	14546	14546
	<b>SAY</b>	15000		13000							75000				
	* UNCLASSIFIED EXCAVATION - ACCEPTABLE, BUT NOT TO BE USED IN TOP 3' OF EMBANKMENT OR BACKFILL (9,130 CY):														
	-L- 26+50.00 TO -L- 30+35.00 (210 CY)														
	-L- 39+25.00 TO -L- 43+75.00 (310 CY)														
	-L- 47+25.00 TO -L- 52+75.00 (1840 CY)														
	-L- 55+25.00 TO -L- 72+25.00 (3380 CY)														
	-L- 76+25.00 TO -L- 82+85.00 (270 CY)														
	-L- 94+25.00 TO -L- 94+55.00 (40 CY)														
	-L1- 14+50.00 TO -L1- 18+50.00 (310 CY)														
	-RABA- 10+15.00 TO -RABA- 11+35.00 (90 CY)														
	-RABC- 10+60.00 TO -RABC- 12+41.61 (860 CY)														
	-RABD- 10+00.00 TO -RABD- 12+10.00 (820 CY)														
	CONTINGENCY, AS DIRECTED BY THE ENGINEER (1000 CY)														
	ESTIMATED SELECT GRANULAR MATERIAL 500 CY (CONTINGENCY, AS DIRECTED BY THE ENGINEER)														
	ESTIMATED SELECT GRANULAR MATERIAL, CLASS III 200 CY (CONTINGENCY, AS DIRECTED BY THE ENGINEER)														
	ESTIMATED SHALLOW UNDERCUT EXCAVATION 200 CY (CONTINGENCY, AS DIRECTED BY THE ENGINEER)														
	ESTIMATED SHALLOW UNDERCUT EXCAVATION BY STATION 1450 CY														

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

ESTIMATED GEOTEXTILE FOR SOIL STABILIZATION	400 SY	(CONTINGENCY, AS DIRECTED BY THE ENGINEER)
ESTIMATED GEOTEXTILE FOR SOIL STABILIZATION	300 SY	(TOTAL FROM EROSION CONTROL PLANS)
ESTIMATED GEOTEXTILE FOR SUBGRADE STABILIZATION	9400 SY	
ESTIMATED STABILIZER AGGREGATE	75 TONS	(CONTINGENCY, AS DIRECTED BY THE ENGINEER)
ESTIMATED CLASS IV SUBGRADE STABILIZATION	5250 TONS	