

Earthwork Balance Sheet

Volumes in Cubic Yards

PROJECT: R-2707E

COUNTY: Cleveland

DATE: 4/6/2023

COMPILED BY: MBF

SHEET __ OF __ SHEETS

STATION	STATION	EXCAVATION					EMBANKMENT				BORROW	WASTE			
		TOTAL UNCLASS.	ROCK	UNDERCUT	UNSUIT. UNCLASS.	SUITABLE UNCLASS.	TOTAL	ROCK	EARTH	EMBANK. +15%		ROCK	SUITABLE	UNSUIT.	TOTAL
851+00.00 -L- LT	875+00.00	1,177				1,177	18,415		18,415	21,177	20,000				
10+75.00 -PVTENT2-	12+75.00	111				111	120		120	138	27				
	SUBTOTAL	1,288				1,288	18,535		18,535	21,315	20,027				
851+00.00 -L- MED	875+00.00	1,286				1,286	1,335		1,335	1,535	249				
	SUBTOTAL	1,286				1,286	1,335		1,335	1,535	249				
851+00.00 -L- RT	875+00.00	29,141				29,141	6,004		6,004	6,905			22,236		22,236
	SUBTOTAL	29,141				29,141	6,004		6,004	6,905			22,236		22,236
875+00.00 -L- LT	913+00.00	19,551				19,551	13,160		13,160	15,134			4,417		4,417
12+00.00 -SR6-	31+03.30	11,354				11,354	61,454		61,454	70,672	59,318				
10+00.00 -Y42RPB-	25+75.11	4,557				4,557	69,797		69,797	80,267	75,710				
10+00.00 -Y41-	17+37.51	187				187	33,943		33,943	39,034	38,847				
10+00.00 -RABT 2-	12+89.02						18,773		18,773	21,589	21,589				
14+01.49 -Y42-	15+34.00						21,478		21,478	24,700	24,700				
10+00.00 -Y42RPA-	23+66.43	2,355				2,355	83,047		83,047	95,504	93,149				
10+42.56 -SR7-	30+00.00	27,265	1,622			25,643	68,437	1,622	66,815	78,459	51,194				
10+12.00 -PVTENT3-	11+80.00	38				38	1,621		1,621	1,864	1,826				
10+12.00 -PVTENT4-	11+20.00	30				30	115		115	132	102				
	SUBTOTAL	65,337	1,622			63,715	371,825	1,622	370,203	427,355	366,435		4,417		4,417
875+00.00 -L- MED	913+00.00	6,740				6,740	3,574		3,574	4,110			2,630		2,630
	SUBTOTAL	6,740				6,740	3,574		3,574	4,110			2,630		2,630
875+00.00 -L- RT	913+00.00	4,315				4,315	3,484		3,484	4,007			308		308
10+00.00 -Y42RPC-	25+00.00	11,844				11,844	49,602		49,602	57,042	45,198				
10+00.00 -SR9-	20+86.43	125				125	62,373		62,373	71,729	71,604				
10+50.00 -Y43-	14+50.00	51				51	5,430		5,430	6,245	6,194				
10+12.00 -PVTENT1-	11+48.83	25				25	3,050		3,050	3,508	3,483				
10+00.00 -RABT1-	12+89.02						31,210		31,210	35,892	35,892				
10+66.00 -Y42-	12+20.82						33,131		33,131	38,101	38,101				
10+17.06 -Y42RPD-	30+00.00	11,714				11,714	113,284		113,284	130,277	118,563				
10+31.34 -SR10-	28+50.00	16,361				16,361	52,559		52,559	60,443	44,082				
10+50.00 -SR9A-	29+00.00	15,575				15,575	824		824	948			14,627		14,627
	SUBTOTAL	60,010				60,010	354,947		354,947	408,189	363,115		14,936		14,936
913+00.00 -L- LT	943+00.00	16,738				16,738	4,809		4,809	5,530			11,208		11,208
30+00.00 -SR7-	60+00.00	33,476	2,302			31,174	35,023	2,302	32,721	39,931	6,455				
10+75.00 -Y46-	14+79.57	359				359	123		123	141			218		218
10+12.00 -PVTENT5-	10+90.00	9				9	275		275	316	307				
	SUBTOTAL	50,582	2,302			48,280	40,230	2,302	37,928	45,919	6,762		11,425		11,425
913+00.00 -L- MED	943+00.00	3,635				3,635	247		247	284			3,351		3,351
	SUBTOTAL	3,635				3,635	247		247	284			3,351		3,351
913+00.00 -L- RT	943+00.00	16,257				16,257	3,662		3,662	4,211			12,046		12,046
10+75.00 -SR8-	25+00.00	5,039				5,039	1,445		1,445	1,662			3,377		3,377
10+12.00 -PVTENT6-	11+31.02	75				75	105		105	121	46				
10+12.07 -PVTENT7-	10+45.73	11				11	18		18	21	10				
	SUBTOTAL	21,382				21,382	5,230		5,230	6,015	56		15,423		15,423
943+00.00 -L- LT	957+00.00	501				501	1,182		1,182	1,359	858				
60+00.00 -SR7-	79+52.00	5,266				5,266	18,028		18,028	20,732	15,466				
	SUBTOTAL	5,767				5,767	19,210		19,210	22,092	16,324				
943+00.00 -L- MED	957+00.00	1,050				1,050	1,274		1,274	1,465	415				
	SUBTOTAL	1,050				1,050	1,274		1,274	1,465	415				
943+00.00 -L- RT	957+00.00	1,372				1,372	171		171	197			1,175		1,175
25+00.00 -SR8-	35+75.00	12,681				12,681	86		86	99			12,582		12,582
	SUBTOTAL	14,053				14,053	257		257	296			13,757		13,757
	SUBTOTAL														
	SUBTOTAL														
TOTAL		260,271	3,924			256,347	822,668	3,924	818,744	945,480	773,384		88,176		88,176
MATERIAL FOR SHOULDER CONSTRUCTION							15,450		15,450	17,768	17,768				
FILL IN EXISTING CHANNEL							200		200	230	230				
LOSS DUE TO CLEARING & GRUBBING		-15,000				-15,000					15,000				
ADDITIONAL UNDERCUT															
ROCK WASTE TO REPLACE BORROW															
ADJUST FOR ROCK WASTE															
WASTE IN LIEU OF BORROW											-88,176		-88,176		-88,176
PROJECT TOTAL		245,271	3,924			241,346	838,318	3,924	834,393	963,478	718,206				
EST. 5% TO REPLACE TOP SOIL ON BORROW PIT											35,910				
GRAND TOTAL		245,271	3,924			241,346	838,318	3,924	834,393	963,478	754,116				
SAY		246,000									755,000				

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 = 8,600 CUBIC YARDS
 1,000 CY SHALLOW UNDERCUT (CONTINGENCY)
 5,500 CY SHALLOW UNDERCUT (BY STATION)
 18,134 TONS CLASS IV SUBGRADE STABILIZATION
 PER GEOTECH RECOMMENDATION, ESTIMATED 8,400 CUBIC YARDS OF UNDERCUT TO BE USED IN THE DISCRETION OF THE RESIDENT ENGINEER.
 PAVEMENT STRUCTURE VOLUME = 28,900 CUBIC YARDS