Earthwork Balance Sheet

Volumes in Cubic Yards

PROJECT: A-0009CC COUNTY: Graham DATE: 10/12/2022 ROCK SWELL = 25% COMPILED BY: SGM

		EXCAVATION					EMBANKMENT					WASTE			
STATION	STATION	TOTAL	ROCK	UNDERCUT	UNSUIT. S	SUITABLE	TOTAL	ROCK	EARTH	EMBANK.	BORROW	ROCK	SUITABLE	UNSUIT.	TOTAL
		UNCLASS.			UNCLASS. U	UNCLASS.				+15%					
-L- 414+50.00	-L- 444+50.00	22,650	4,395			18,255	1,381	1,105		1,105		3,290	18,255		21,545
Retaining Wall #27	DD2 11.50.02	4.055		560		4055							4.055	560	560
-DR3- 10+20.00	-DR3- 11+72.03	4,055				4,055							4,055		4,055
	SUBTOTAL 1	26,705	4,395	560		22,310	1,381	1,105		1,105		3,290	22,310	560	26,160
	SCETOTALL	20,703	1,575	200		22,310	1,501	1,100		1,103		3,270	22,310	200	20,100
-L- 444+50.00	-L- 474+19.52	13,476	587			12,889	2,143	587	1,409	2,208			11,268		11,268
	OVER THE A	10.456				10.000	0.140	505	1 100	2.200			11.000		11.000
	SUBTOTAL 2	13,476	587			12,889	2,143	587	1,409	2,208			11,268		11,268
-Y2- 12+60.00	-Y2- 40+00.00	90,331	3,445			86,886	21,994	3,445	17,688	23,786			66,545		66,545
Retaining Wall #30				2,850			<i>)</i>		.,					2,850	2,850
	SUBTOTAL 3	90,331	3,445	2,850		86,886	21,994	3,445	17,688	23,786			66,545	2,850	69,395
-Y2- 40+00.00	-Y2- 70+00.00	24,372	848			23,524	54,562	848	53,502	62,375	38,003				
Retaining Wall #32	-12-70+00.00	24,372	070	8,150		23,324	34,302	040	33,302	02,373	36,003			8,150	8,150
-DR4- 10+12.13	-DR4- 11+10.00	57		-, -		57	3,435		3,435	3,950	3,893			- 7	-,
	SUBTOTAL 4	24,429	848	8,150		23,581	57,997	848	56,937	66,325	41,896			8,150	8,150
-Y2-70+00.00	-Y2- 90+00.00	11,189	1,015			10,174	5,534	1,015	4,265	5,920			5,269		5,269
	12 90.00.00	11,105	1,013			10,171	3,331	1,015	1,203	3,720			3,209		3,209
	SUBTOTAL 5	11,189	1,015			10,174	5,534	1,015	4,265	5,920			5,269		5,269
TOTAL		166,130	10,290	11,560	1.000	155,840	89,049	7,000	80,299	99,344	41,896	3,290	105,392	11,560	120,242
UNSUITABLE WASTE (PER GEOTECH)		7.000			1,000	-1,000							-1,000	1,000	7 000
LOSS DUE TO CLEARING & GRUBBING		-7,000		2 200		-7,000							-7,000	2 200	-7,000
ADDITIONAL UNDERCUT (PER GEOTECH)				2,300										2,300	2,300
ADDITIONAL UNDERCUT (PER CFI)				3,150				2 200	2 200		2 200	2 200		3,150	3,150
HARD ROCK WASTE TO REPLACE BORROW ADJUST ROCK SWELL								3,290	-3,290 -823	-823	-3,290 -823	-3,290			-3,290
ELIMINATE EARTH SHRINKAGE FACTOR									-023	-623 -5,465	-625 -5,465				
EARTH WASTE TO REPLACE BORROW										-5,405	-32,318		-32,318		-32,318
GRAND TOTAL		159,130	10,290	17,010	1,000	147,840	89,049	10,290	76,186	93,056	52,510		65,074	18,010	83,084
GRIED TOTAL		157,150	10,270	17,010	1,000	177,070	07,077	10,270	70,100	75,050			00,077	10,010	05,007
SAY		161,000		17,010											

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

EST. DDE = 1,870 CUBIC YARDS

SELECT GRANULAR MATERIAL, CLASS III = 6,670 CY

EST. SHALLOW UNDERCUT = 1,200 CY

PER GEOTECH RECOMMENDATION, ESTIMATED 22,600 CUBIC YARDS OF UNDERCUT FOR TOE SHEAR KEY.

PAVEMENT STRUCTURE VOLUME: 4,150 CY

SHEET OF SHEETS