

PHYSICAL DATA

for

FEDERAL HIGHWAY ADMINISTRATION
WESTERN FEDERAL LANDS HIGHWAY DIVISION

WA FLAP JEFFER 150009(1)
UNDI ROAD BYPASS IMPROVEMENTS

EARTHWORK

End Area Volume Report

Report Created: Thursday, December 01, 2022
Time: 3:58:56 PM

Cross Section Set Name: U

Alignment Name: U

Input Grid Factor: **Note:** All units in this report are in feet, square feet and cubic yards unless specified otherwise.

----- Station Quantities -----									
Baseline Station	----- Cut -----				----- Fill -----				Mass Ordinate
	Factor	Area	Volume	Adjusted	Factor	Area	Volume	Adjusted	
151+23.000	1.000	22.39	0.00	0.00	1.000	0.05	0.00	0.00	0.00
151+30.000	1.000	23.78	5.98	5.98	1.000	0.00	0.01	0.01	5.98
151+40.000	1.000	27.09	9.42	9.42	1.000	0.00	0.00	0.00	15.40
151+50.000	1.000	26.62	9.95	9.95	1.000	0.00	0.00	0.00	25.34
151+60.000	1.000	25.30	9.62	9.62	1.000	0.00	0.00	0.00	34.96
151+70.000	1.000	42.87	12.63	12.63	1.000	0.00	0.00	0.00	47.58
151+80.000	1.000	75.67	21.95	21.95	1.000	0.00	0.00	0.00	69.53
151+90.000	1.000	76.53	28.18	28.18	1.000	0.00	0.00	0.00	97.72
Grand Total:			97.73	97.73			0.01	0.01	

End Area Volume Report

Report Created: Thursday, December 01, 2022
Time: 3:55:13 PM

Cross Section Set Name: Site 1, UB1

Alignment Name: UB1

Input Grid Factor: **Note:** All units in this report are in feet, square feet and cubic yards unless specified otherwise.

----- Station Quantities -----									
Baseline Station	----- Cut -----				----- Fill -----				Mass Ordinate
	Factor	Area	Volume	Adjusted	Factor	Area	Volume	Adjusted	
100+00.000	1.000	20.39	0.00	0.00	1.000	0.01	0.00	0.00	0.00
100+10.000	1.000	20.15	7.51	7.51	1.000	0.03	0.01	0.01	7.50
100+20.000	1.000	20.84	7.59	7.59	1.000	0.09	0.02	0.02	15.07
100+30.000	1.000	20.82	7.71	7.71	1.000	0.07	0.03	0.03	22.75
100+40.000	1.000	21.33	7.81	7.81	1.000	0.06	0.02	0.02	30.53
100+50.000	1.000	20.99	7.84	7.84	1.000	0.07	0.02	0.02	38.35
100+60.000	1.000	20.40	7.66	7.66	1.000	0.07	0.03	0.03	45.99
100+70.000	1.000	20.93	7.65	7.65	1.000	0.11	0.03	0.03	53.60
100+80.000	1.000	22.68	8.07	8.07	1.000	0.15	0.05	0.05	61.63
100+90.000	1.000	23.71	8.59	8.59	1.000	0.01	0.03	0.03	70.19
101+00.000	1.000	25.04	9.03	9.03	1.000	0.00	0.00	0.00	79.22
101+10.000	1.000	26.29	9.51	9.51	1.000	0.00	0.00	0.00	88.72
101+20.000	1.000	26.91	9.85	9.85	1.000	0.00	0.00	0.00	98.57
101+30.000	1.000	23.32	9.30	9.30	1.000	0.00	0.00	0.00	107.88
101+40.000	1.000	22.04	8.40	8.40	1.000	0.00	0.00	0.00	116.27
101+50.000	1.000	20.54	7.88	7.88	1.000	0.00	0.00	0.00	124.16
101+60.000	1.000	17.97	7.13	7.13	1.000	0.00	0.00	0.00	131.29
101+70.000	1.000	13.71	5.87	5.87	1.000	1.74	0.32	0.32	136.84
101+80.000	1.000	18.22	5.91	5.91	1.000	0.00	0.32	0.32	142.43
101+90.000	1.000	16.84	6.49	6.49	1.000	0.12	0.02	0.02	148.90
102+00.000	1.000	12.35	5.41	5.41	1.000	7.16	1.35	1.35	152.96
102+10.000	1.000	11.06	4.33	4.33	1.000	18.87	4.82	4.82	152.47
102+20.000	1.000	10.97	4.08	4.08	1.000	11.55	5.63	5.63	150.92
102+30.000	1.000	9.49	3.79	3.79	1.000	14.36	4.80	4.80	149.91
102+40.000	1.000	15.82	4.69	4.69	1.000	4.59	3.51	3.51	151.08
102+50.000	1.000	26.05	7.75	7.75	1.000	2.78	1.36	1.36	157.47
102+60.000	1.000	44.90	13.14	13.14	1.000	1.50	0.79	0.79	169.82
102+70.000	1.000	62.91	19.96	19.96	1.000	0.65	0.40	0.40	189.38
102+80.000	1.000	81.61	26.76	26.76	1.000	0.39	0.19	0.19	215.95
102+90.000	1.000	101.83	33.97	33.97	1.000	0.00	0.07	0.07	249.85
103+00.000	1.000	111.98	39.59	39.59	1.000	0.00	0.00	0.00	289.44
103+10.000	1.000	117.75	42.54	42.54	1.000	0.18	0.03	0.03	331.96
103+20.000	1.000	102.01	40.70	40.70	1.000	0.00	0.03	0.03	372.62
103+30.000	1.000	49.91	28.13	28.13	1.000	0.00	0.00	0.00	400.75

----- Station Quantities -----									
Baseline Station	----- Cut -----				----- Fill -----				Mass Ordinate
	Factor	Area	Volume	Adjusted	Factor	Area	Volume	Adjusted	
103+40.000	1.000	22.71	13.45	13.45	1.000	2.45	0.45	0.45	413.75
103+50.000	1.000	58.42	15.02	15.02	1.000	0.00	0.45	0.45	428.32
103+60.000	1.000	119.37	32.92	32.92	1.000	0.00	0.00	0.00	461.24
103+70.000	1.000	89.90	38.75	38.75	1.000	0.00	0.00	0.00	499.99
103+80.000	1.000	61.00	27.94	27.94	1.000	0.16	0.03	0.03	527.91
103+90.000	1.000	38.76	18.47	18.47	1.000	0.51	0.12	0.12	546.25
104+00.000	1.000	28.27	12.41	12.41	1.000	0.75	0.23	0.23	558.43
104+10.000	1.000	23.51	9.59	9.59	1.000	0.26	0.19	0.19	567.84
104+20.000	1.000	21.42	8.32	8.32	1.000	0.11	0.07	0.07	576.09
104+30.000	1.000	22.48	8.13	8.13	1.000	0.24	0.06	0.06	584.16
104+40.000	1.000	24.17	8.64	8.64	1.000	0.38	0.11	0.11	592.68
104+50.000	1.000	23.63	8.85	8.85	1.000	0.57	0.18	0.18	601.35
104+60.000	1.000	22.93	8.62	8.62	1.000	0.64	0.22	0.22	609.75
104+70.000	1.000	22.51	8.42	8.42	1.000	0.72	0.25	0.25	617.92
104+80.000	1.000	22.03	8.25	8.25	1.000	0.78	0.28	0.28	625.89
104+90.000	1.000	20.78	7.93	7.93	1.000	0.90	0.31	0.31	633.50
105+00.000	1.000	21.01	7.74	7.74	1.000	0.56	0.27	0.27	640.98
105+10.000	1.000	20.70	7.72	7.72	1.000	1.79	0.44	0.44	648.26
105+20.000	1.000	21.08	7.74	7.74	1.000	1.07	0.53	0.53	655.47
105+30.000	1.000	22.24	8.02	8.02	1.000	0.06	0.21	0.21	663.28
105+40.000	1.000	23.30	8.43	8.43	1.000	0.01	0.01	0.01	671.70
105+50.000	1.000	24.01	8.76	8.76	1.000	0.00	0.00	0.00	680.46
105+60.000	1.000	20.18	8.18	8.18	1.000	0.00	0.00	0.00	688.64
105+70.000	1.000	0.00	3.74	3.74	1.000	0.00	0.00	0.00	692.38
Grand Total:			720.71	720.71			28.33	28.33	

Site 2 Earthwork Quantity Backup

Site 2 cross sections overlap because of the curve. Therefore, the end area volume method is inaccurate.

The method for obtaining cut and fill volumes was by using the "create cut fill volumes" function. This created volumes for cut and fill by comparing the existing surface to the proposed terrain model, generated by the corridor.

