

**ARIZONA DEPARTMENT OF TRANSPORTATION  
INTERMODAL TRANSPORTATION DIVISION  
ROADWAY ENGINEERING GROUP  
ROADWAY DESIGN**

**SANTA MARIA BRIDGE  
096 YV 010 F0584 01C  
096-A(200)T**

**FINAL EARTHWORK REPORT**



Prepared By: ARIZONA DEPARTMENT OF  
TRANSPORTATION  
ROADWAY DESIGN

3/24/2026

**SUMMARY OF (UNADJUSTED) EARTHWORK**

Earthwork Section	ROADWAY SEQ. 1		ROADWAY SEQ. 2		ROADWAY SEQ. 3		Remarks
	Cut (Exc)	Fill (Emb)	Cut (Exc)	Fill (Emb)	Cut (Exc)	Fill (Emb)	
SR 96 Roadway Ex/Backfill			22746	13424	8883	74	No GC for SQ3, exst rd/widening already compacted, GC assumed to be evenly split between north and south sides
SR 96 Ground Compaction				243			
Temporary Widening Ex/Backfill	3041	3362					
Temporary Widening Ground Compaction		70					
<b>Structural Ex/Backfill</b>			960	400			

**EARTHWORK CALCULATION**

Earthwork Section	Phase 1		Phase 2		Phase 3		Remarks
	Exc(+)	Emb(-)	Exc(+)	Emb(-)	Exc(+)	Emb(-)	
SR 96 Roadway Ex/Backfill			22746	13424	8883	74	
SR 96 Ground Compaction				243			
Temporary Widening Ex/Backfill	3041	3362					
Temporary Widening Ground Compaction		70					
Structural Ex/Backfill			960	400			
<b>Swell</b>	354		801		1409		
<b>Borrow (in place)</b>	37						
<b>Waste</b>				10040		10218	
Balance Calculation	3,432	(3,432)	24,507	(24,507)	10,291	(10,292)	
Check Balance		(0)		0		(0)	

**Adjustment Notes:**

- Quantity for information purposes only. Payment for Riprap/Pipe Excavation Shall be incidental to other items.
- Structural backfill material is assumed to be imported.

**EARTHWORK FACTORS**

14+72.47 to 26+20.82	5%	Swell
30+29.23 to 42+57.26	15%	Swell

## EARTHWORK CALCULATIONS

### Temporary Widening South of Bridge

Station	Cut			Fill		
	Factor	Area SF	Volume CF	Factor	Area SF	Volume CF
End Area Vc End Area Volume Report						
13+10.66	1.00	22.488	0	1.00	0	0
13+20.00	1.00	30.894	249.336	1.00	0	0
13+30.00	1.00	41.883	363.885	1.00	0	0
13+40.00	1.00	46.208	440.456	1.00	0.005	0.024
13+50.00	1.00	58.949	525.786	1.00	0.263	1.338
13+60.00	1.00	72.985	659.668	1.00	0.725	4.938
13+70.00	1.00	85.368	791.766	1.00	1.305	10.149
13+80.00	1.00	97.127	912.478	1.00	0.838	10.715
13+90.00	1.00	114.923	1060.253	1.00	0.398	6.183
14+00.00	1.00	131.569	1232.464	1.00	0.084	2.409
14+10.00	1.00	145.036	1383.029	1.00	0.674	3.787
14+20.00	1.00	155.886	1504.614	1.00	0.212	4.428
14+30.00	1.00	168.134	1620.101	1.00	0.452	3.319
14+40.00	1.00	185.259	1766.964	1.00	0.148	2.997
14+50.00	1.00	198.212	1917.355	1.00	0.175	1.613
14+60.00	1.00	196.655	1974.336	1.00	0.03	1.023
14+70.00	1.00	188.223	1924.392	1.00	0.245	1.371
14+80.00	1.00	187.906	1880.645	1.00	0.57	4.072
14+90.00	1.00	188.936	1884.207	1.00	0.996	7.83
15+00.00	1.00	195.97	1924.529	1.00	0.506	7.511
15+10.00	1.00	199.067	1975.187	1.00	0.437	4.718
15+20.00	1.00	204.305	2016.86	1.00	0.388	4.128
15+30.00	1.00	210.131	2072.182	1.00	0.352	3.7
15+40.00	1.00	204.094	2071.127	1.00	0.715	5.336
15+50.00	1.00	180.383	1922.387	1.00	1.003	8.592
15+60.00	1.00	189.796	1850.895	1.00	1.229	11.157
15+70.00	1.00	201.397	1955.963	1.00	1.474	13.513
15+80.00	1.00	212.686	2070.415	1.00	1.505	14.893
15+90.00	1.00	212.534	2126.103	1.00	1.29	13.975
16+00.00	1.00	205.765	2091.495	1.00	1.044	11.67
16+10.00	1.00	193.254	1995.093	1.00	0.623	8.335
16+20.00	1.00	184.089	1886.713	1.00	0.136	3.796
16+30.00	1.00	179.133	1816.107	1.00	0	0.679
16+40.00	1.00	192.673	1859.027	1.00	0	0
16+50.00	1.00	205.195	1989.34	1.00	0	0

**EARTHWORK CALCULATIONS**

16+60.00	1.00	226.157	2156.763	1.00	0	0
16+70.00	1.00	255.888	2410.226	1.00	0	0
16+80.00	1.00	264.831	2603.595	1.00	0	0
16+90.00	1.00	245.327	2550.79	1.00	0.04	0.198
17+00.00	1.00	184.295	2148.109	1.00	0.369	2.042
17+10.00	1.00	159.496	1718.957	1.00	0.992	6.803
17+20.00	1.00	107.207	1333.519	1.00	0.581	7.864
17+30.00	1.00	50.113	786.602	1.00	1.815	11.979
17+40.00	1.00	10.739	304.26	1.00	5.763	37.887
17+50.00	1.00	2.825	67.818	1.00	98.426	520.941
17+60.00	1.00	3.154	29.891	1.00	103.603	1010.144
17+70.00	1.00	2.749	29.514	1.00	128.065	1158.341
17+80.00	1.00	3.321	30.353	1.00	130.116	1290.906
17+90.00	1.00	2.336	28.287	1.00	145.396	1377.561
18+00.00	1.00	1.768	20.521	1.00	159.89	1526.427
18+10.00	1.00	1.637	17.023	1.00	178.393	1691.411
18+20.00	1.00	1.413	15.249	1.00	180.776	1795.845
18+30.00	1.00	1.26	13.369	1.00	175.856	1783.161
18+40.00	1.00	1.659	14.598	1.00	170.709	1732.827
18+50.00	1.00	2.259	19.589	1.00	171.349	1710.29
18+60.00	1.00	3.075	26.67	1.00	171.043	1711.96
18+70.00	1.00	3.949	35.121	1.00	148.314	1596.787
18+80.00	1.00	4.963	44.56	1.00	135.751	1420.325
18+90.00	1.00	3.911	44.371	1.00	135.183	1354.67
19+00.00	1.00	2.958	34.347	1.00	126.545	1308.64
19+10.00	1.00	3.081	30.194	1.00	132.708	1296.264
19+20.00	1.00	3.464	32.722	1.00	124.404	1285.558
19+30.00	1.00	3.935	36.995	1.00	83.597	1040.002
19+40.00	1.00	4.507	42.212	1.00	49.311	664.541
19+50.00	1.00	5.713	51.1	1.00	34.646	419.786
19+60.00	1.00	5.749	57.31	1.00	39.088	368.671
19+70.00	1.00	5.769	57.593	1.00	44.033	415.604
19+80.00	1.00	6.571	61.7	1.00	42.096	430.641
19+90.00	1.00	7.66	71.152	1.00	29.432	357.64
19+95.00	1.00	0	19.15	1.00	0	73.581

**End Area Volume Report**

<b>Grand Total:</b>	<b>70659.39</b>	<b>29587.50</b>
<b>CUYD:</b>	<b>2617.01</b>	<b>1095.83</b>
<b>GC/2 (for swell calcs)</b>		<b>35.02</b>
<b>Swell: 5%</b>		<b>53.85</b>

# EARTHWORK CALCULATIONS

## Temporary Widening North of Bridge

Station	Cut			Fill			Mass Ordinate CF
	Factor	Area SF	Volume CF	Factor	Area SF	Volume CF	
End Area Vc End Area Volume Report							
39+00.00	1.00	203.235	0	1.00	1.067	0	58320.91
39+10.00	1.00	199.446	2013.404	1.00	1.209	11.379	60322.93
39+20.00	1.00	170.004	1847.247	1.00	1.007	11.079	62159.10
39+30.00	1.00	144.084	1570.437	1.00	0.684	8.451	63721.09
39+40.00	1.00	118.904	1314.938	1.00	0.379	5.316	65030.71
39+50.00	1.00	91.743	1053.235	1.00	0.663	5.214	66078.73
39+60.00	1.00	61.046	763.944	1.00	0.991	8.271	66834.40
39+70.00	1.00	30.363	457.046	1.00	1.298	11.445	67280.00
39+80.00	1.00	14.524	224.436	1.00	1.043	11.706	67492.73
39+90.00	1.00	12.901	137.126	1.00	0	5.216	67624.64
40+00.00	1.00	19.326	161.139	1.00	0	0	67785.78
40+10.00	1.00	19.336	193.311	1.00	0	0	67979.09
40+20.00	1.00	19.115	192.255	1.00	0	0.001	68171.35
40+30.00	1.00	13.354	162.349	1.00	0	0.001	68333.70
40+40.00	1.00	8.39	108.72	1.00	0.717	3.585	68438.83
40+50.00	1.00	2.851	56.2	1.00	63.154	319.355	68175.68
40+60.00	1.00	3.01	29.301	1.00	113.365	882.595	67322.38
40+70.00	1.00	2.955	29.821	1.00	121.25	1173.075	66179.13
40+80.00	1.00	2.271	26.126	1.00	152.801	1370.254	64835.00
40+90.00	1.00	1.704	19.873	1.00	188.44	1706.205	63148.67
41+00.00	1.00	0.947	13.255	1.00	216.07	2022.553	61139.37
41+10.00	1.00	0.844	8.953	1.00	249.542	2328.062	58820.26
41+20.00	1.00	0.931	8.874	1.00	268.687	2591.145	56237.99
41+30.00	1.00	0.977	9.541	1.00	281.031	2748.59	53498.94
41+40.00	1.00	1.035	10.058	1.00	273.78	2774.057	50734.94
41+50.00	1.00	1.015	10.246	1.00	291.128	2824.543	47920.64
41+60.00	1.00	1.235	11.247	1.00	294.624	2928.759	45003.13
41+70.00	1.00	1.402	13.186	1.00	285.403	2900.132	42116.19
41+80.00	1.00	1.977	16.9	1.00	289.804	2876.035	39257.05
41+90.00	1.00	2.698	23.378	1.00	284.209	2870.067	36410.36
42+00.00	1.00	3.216	29.572	1.00	280.48	2823.446	33616.49
42+10.00	1.00	3.718	34.671	1.00	258.54	2695.103	30956.05
42+20.00	1.00	4.031	38.746	1.00	242.141	2503.406	28491.39
42+30.00	1.00	4.545	42.879	1.00	218.585	2303.631	26230.64
42+40.00	1.00	5.102	48.232	1.00	196.741	2076.632	24202.24

**EARTHWORK CALCULATIONS**

42+50.00	1.00	5.323	52.124	1.00	196.581	1966.611	22287.75
42+60.00	1.00	5.331	53.268	1.00	193.657	1951.193	20389.83
42+70.00	1.00	4.831	50.809	1.00	191.725	1926.909	18513.73
42+80.00	1.00	4.314	45.725	1.00	189.108	1904.162	16655.29
42+90.00	1.00	2.46	33.871	1.00	181.693	1854.007	14835.16
43+00.00	1.00	2.302	23.814	1.00	155.902	1687.976	13171.00
43+10.00	1.00	2.605	24.538	1.00	131.497	1436.993	11758.54
43+20.00	1.00	3.961	32.828	1.00	112.524	1220.105	10571.26
43+30.00	1.00	1.198	25.79	1.00	186.718	1496.211	9100.84
43+40.00	1.00	5.206	32.02	1.00	0.153	934.354	8198.51
43+50.00	1.00	6.467	58.366	1.00	0.029	0.908	8255.97
43+60.00	1.00	6.969	67.18	1.00	0.108	0.683	8322.46
43+70.00	1.00	6.221	65.949	1.00	0	0.54	8387.87
43+80.00	1.00	5.506	58.632	1.00	0	0	8446.51
43+90.00	1.00	4.639	50.725	1.00	0	0	8497.23
44+00.00	1.00	4.027	43.331	1.00	0	0	8540.56
44+09.30	1.00	3.601	35.47	1.00	0	0	8576.03

**End Area Volume Report**

<b>Grand Total:</b>	<b>11435.09</b>	<b>61179.96</b>
<b>CUYD:</b>	<b>423.52</b>	<b>2265.92</b>
<b>GC/2 (for swell calcs)</b>		<b>35.02</b>
<b>Swell: 15%</b>		<b>300.12</b>

**End Area Volume Report**

	<b>Cut</b>	<b>Fill</b>
<b>Grand Total:</b>	<b>3040.54</b>	<b>3361.76</b>
<b>Swell:</b>		<b>353.97</b>

# EARTHWORK CALCULATIONS

SR 96 South of Bridge, Lt Slope

Station	Cut			Fill			Mass Ordinate CY
	Factor	Area SF	Volume CY	Factor	Area SF	Volume CY	
End Area Vc End Area Volume Report							
14+45.01	1.00	214.565	0	1.00	0	0	0.00
14+50.00	1.00	211.789	1063.753	1.00	0	0	1063.75
14+60.00	1.00	206.69	2092.394	1.00	0	0	3156.15
14+70.00	1.00	202.702	2046.959	1.00	0	0	5203.11
14+80.00	1.00	201.701	2022.012	1.00	0	0	7225.12
14+90.00	1.00	204.186	2029.433	1.00	0	0	9254.55
15+00.00	1.00	208.206	2061.961	1.00	0	0	11316.51
15+10.00	1.00	212.408	2103.071	1.00	0	0	13419.58
15+20.00	1.00	213.964	2131.86	1.00	0	0	15551.44
15+30.00	1.00	209.002	2114.832	1.00	0	0	17666.28
15+40.00	1.00	207.586	2082.944	1.00	0	0	19749.22
15+50.00	1.00	205.019	2063.029	1.00	0	0	21812.25
15+60.00	1.00	207.258	2061.386	1.00	0	0	23873.64
15+70.00	1.00	205.35	2063.037	1.00	0	0	25936.67
15+80.00	1.00	205.47	2054.099	1.00	0	0	27990.77
15+90.00	1.00	204.658	2050.642	1.00	0	0	30041.41
16+00.00	1.00	209.899	2072.787	1.00	0	0	32114.20
16+10.00	1.00	215.601	2127.5	1.00	0	0	34241.70
16+20.00	1.00	221.29	2184.456	1.00	0	0	36426.16
16+30.00	1.00	230.57	2259.304	1.00	0	0	38685.46
16+40.00	1.00	241.882	2362.263	1.00	0	0	41047.73
16+50.00	1.00	254.146	2480.143	1.00	0	0	43527.87
16+60.00	1.00	263.25	2586.981	1.00	0	0	46114.85
16+70.00	1.00	263.92	2635.849	1.00	0	0	48750.70
16+80.00	1.00	258.92	2614.2	1.00	0	0	51364.90
16+90.00	1.00	213.681	2363.006	1.00	0	0	53727.91
17+00.00	1.00	174.101	1938.91	1.00	0	0	55666.82
17+10.00	1.00	128.412	1512.563	1.00	0	0	57179.38
17+20.00	1.00	77.23	1028.21	1.00	0	0	58207.59
17+30.00	1.00	45.074	611.524	1.00	0.527	2.635	58816.48
17+40.00	1.00	14.991	300.329	1.00	5.797	31.619	59085.19
17+50.00	1.00	6.555	107.731	1.00	52.287	290.416	58902.50
17+60.00	1.00	4.338	54.463	1.00	168.496	1103.911	57853.05
17+70.00	1.00	3.127	37.323	1.00	266.689	2175.924	55714.45
17+80.00	1.00	2.097	26.12	1.00	366.326	3165.077	52575.50

## EARTHWORK CALCULATIONS

17+90.00	1.00	1.213	16.551	1.00	389.249	3777.877	48814.17
18+00.00	1.00	0.406	8.095	1.00	413.736	4014.924	44807.34
18+10.00	1.00	0.481	4.437	1.00	435.951	4248.434	40563.35
18+20.00	1.00	0.62	5.509	1.00	433.203	4345.771	36223.08
18+30.00	1.00	0.63	6.249	1.00	422.371	4277.871	31951.46
18+40.00	1.00	0.62	6.245	1.00	412.712	4175.413	27782.29
18+50.00	1.00	0.546	5.826	1.00	406.437	4095.745	23692.37
18+60.00	1.00	0.427	4.862	1.00	402.394	4044.155	19653.08
18+70.00	1.00	0.389	4.079	1.00	404.952	4036.729	15620.43
18+80.00	1.00	0.373	3.809	1.00	423.468	4142.101	11482.14
18+90.00	1.00	0.33	3.516	1.00	444.897	4341.825	7143.83
19+00.00	1.00	0.53	4.302	1.00	452.897	4488.967	2659.16
19+05.80	1.00	0.507	4.766	1.00	459.611	4545.754	0.00
19+10.00	1.00	0.49	5.101	1.00	464.465	4586.81	-1922.55
19+20.00	1.00	0.494	4.919	1.00	473.216	4688.409	-6606.03
19+30.00	1.00	0.96	7.27	1.00	478.655	4759.354	-11358.12
19+40.00	1.00	1.874	14.171	1.00	473.352	4760.031	-16103.98
19+50.00	1.00	2.76	23.17	1.00	452.09	4627.207	-20708.02
19+60.00	1.00	3.573	31.668	1.00	427.125	4396.073	-25072.42
19+70.00	1.00	4.186	38.798	1.00	404.421	4157.73	-29191.36
19+80.00	1.00	4.798	44.92	1.00	372.932	3886.766	-33033.20
19+90.00	1.00	4.86	48.286	1.00	350.614	3617.729	-36602.64
20+00.00	1.00	4.881	48.704	1.00	345.371	3479.923	-40033.86
20+10.00	1.00	4.927	49.041	1.00	347.114	3462.427	-43447.25
20+20.00	1.00	4.531	47.289	1.00	352.418	3497.66	-46897.62
20+30.00	1.00	3.723	41.268	1.00	361.733	3570.752	-50427.10
20+40.00	1.00	2.82	32.715	1.00	369.269	3655.01	-54049.40
20+50.00	1.00	1.999	24.095	1.00	376.666	3729.676	-57754.98
20+60.00	1.00	1.286	16.423	1.00	378.079	3773.728	-61512.29
20+70.00	1.00	0.791	10.381	1.00	379.497	3787.882	-65289.79
20+80.00	1.00	0.632	7.11	1.00	375.898	3776.975	-69059.65
20+90.00	1.00	0.491	5.613	1.00	370.799	3733.484	-72787.52
21+00.00	1.00	0.367	4.288	1.00	372.145	3714.718	-76497.95
21+10.00	1.00	1.19	7.781	1.00	257.558	3148.512	-79638.68
21+20.00	1.00	0.226	7.08	1.00	268.991	2632.745	-82264.35
21+30.00	1.00	0.194	2.103	1.00	279.816	2744.038	-85006.28
21+40.00	1.00	0.187	1.903	1.00	285.475	2826.458	-87830.84
21+50.00	1.00	0.034	1.1	1.00	289.73	2876.027	-90705.76
21+60.00	1.00	0	0.168	1.00	291.236	2904.83	-93610.43
21+70.00	1.00	0	0	1.00	299.535	2953.858	-96564.28
21+80.00	1.00	0	0	1.00	307.81	3036.728	-99601.01
21+90.00	1.00	0	0	1.00	316.349	3120.794	-102721.8

## EARTHWORK CALCULATIONS

22+00.00	1.00	0	0	1.00	327.112	3217.303	-105939.1
22+10.00	1.00	0	0	1.00	324.328	3257.2	-109196.3
22+20.00	1.00	0	0	1.00	319.124	3217.259	-112413.5
22+30.00	1.00	0	0	1.00	314.956	3170.398	-115583.9
22+40.00	1.00	0	0	1.00	314.238	3145.971	-118729.9
22+50.00	1.00	0	0	1.00	309.298	3117.681	-121847.6
22+60.00	1.00	0	0	1.00	306.623	3079.604	-124927.2
22+70.00	1.00	0	0	1.00	306.65	3066.362	-127993.5
22+80.00	1.00	0	0	1.00	307.377	3070.135	-131063.7
22+90.00	1.00	0	0	1.00	308.953	3081.649	-134145.3
23+00.00	1.00	0	0	1.00	310.378	3096.65	-137242.0
23+10.00	1.00	0	0	1.00	310.429	3104.035	-140346.0
23+20.00	1.00	0	0	1.00	308.333	3093.811	-143439.8
23+30.00	1.00	0	0	1.00	311.566	3099.494	-146539.3
23+40.00	1.00	0	0	1.00	314.372	3129.693	-149669.0
23+50.00	1.00	0	0	1.00	316.886	3156.293	-152825.3
23+60.00	1.00	0	0	1.00	322.937	3199.115	-156024.4
23+70.00	1.00	0	0	1.00	330.135	3265.362	-159289.8
23+80.00	1.00	0	0	1.00	338.79	3344.626	-162634.4
23+90.00	1.00	0	0	1.00	342.946	3408.678	-166043.1
24+00.00	1.00	0	0	1.00	344.432	3436.889	-169480.0
24+10.00	1.00	0	0	1.00	331.939	3381.853	-172861.8
24+20.00	1.00	0	0	1.00	317.85	3248.945	-176110.8
24+30.00	1.00	0	0	1.00	314.958	3164.043	-179274.8
24+40.00	1.00	0	0	1.00	313.877	3144.175	-182419.0
24+50.00	1.00	0	0	1.00	312.998	3134.372	-185553.4
24+60.00	1.00	0	0	1.00	312.851	3129.242	-188682.6
24+70.00	1.00	0	0	1.00	320.684	3167.674	-191850.3
24+80.00	1.00	0	0	1.00	333.523	3271.036	-195121.3
24+90.00	1.00	0	0	1.00	347.995	3407.588	-198528.9
25+00.00	1.00	0	0	1.00	356.065	3520.299	-202049.2
25+10.00	1.00	0	0	1.00	361.691	3588.779	-205638.0
25+20.00	1.00	0	0	1.00	366.832	3642.612	-209280.6
25+30.00	1.00	0	0	1.00	369.381	3681.065	-212961.7
25+40.00	1.00	0	0	1.00	373.457	3714.191	-216675.8
25+50.00	1.00	0	0	1.00	376.519	3749.88	-220425.7
25+60.00	1.00	0	0	1.00	372.947	3747.329	-224173.1
25+70.00	1.00	0	0	1.00	392.929	3829.377	-228002.4
25+80.00	1.00	0	0	1.00	414.497	4037.128	-232039.6
25+90.00	1.00	0	0	1.00	449.227	4318.619	-236358.2
26+00.00	1.00	0	0	1.00	485.791	4675.091	-241033.3
26+10.00	1.00	0	0	1.00	524.933	5053.623	-246086.9

**EARTHWORK CALCULATIONS**

26+20.00	1.00	0	0	1.00	594.714	5598.238	-251685.1
26+22.06	1.00	0	0	1.00	0	612.556	-252297.7

<b>Grand Total:</b>	<b>59948.69</b>	<b>316787.41</b>
<b>CUYD:</b>	<b>2220.32</b>	<b>11732.87</b>
<b>GC/2 (for swell calcs)</b>		<b>121.36</b>
<b>Swell: 5%</b>		<b>564.49</b>

**EARTHWORK CALCULATIONS**

SR 96 North of Bridge, Lt Slope

Station	Cut			Fill			Mass Ordinate CY
	Factor	Area SF	Volume CY	Factor	Area SF	Volume CY	
End Area Vc End Area Volume Report							
30+26.56	1.00	0.061	0	1.00	608.974	0	-252297.7
30+30.00	1.00	0.256	0.546	1.00	570.91	2029.401	-254326.5
30+40.00	1.00	0	1.281	1.00	476.325	5236.174	-259561.4
30+50.00	1.00	0	0	1.00	349.964	4131.442	-263692.9
30+60.00	1.00	0	0	1.00	227.415	2886.895	-266579.8
30+70.00	1.00	0	0	1.00	152.153	1897.839	-268477.6
30+80.00	1.00	3.198	15.988	1.00	77.192	1146.722	-269608.3
30+90.00	1.00	16.991	100.941	1.00	29.527	533.594	-270041.0
31+00.00	1.00	43.978	304.841	1.00	8.022	187.747	-269923.9
31+10.00	1.00	64.54	542.588	1.00	0	40.112	-269421.4
31+20.00	1.00	82.903	737.213	1.00	0	0	-268684.2
31+30.00	1.00	103.432	931.677	1.00	0.014	0.072	-267752.6
31+40.00	1.00	128.947	1161.897	1.00	0	0.072	-266590.8
31+50.00	1.00	132.93	1309.384	1.00	0	0	-265281.4
31+60.00	1.00	127.524	1302.272	1.00	0	0	-263979.1
31+70.00	1.00	129.271	1283.977	1.00	0	0	-262695.2
31+80.00	1.00	124.894	1270.824	1.00	0	0	-261424.3
31+90.00	1.00	115.73	1203.121	1.00	0	0	-260221.2
32+00.00	1.00	111.479	1136.047	1.00	0	0	-259085.2
32+10.00	1.00	104.118	1077.987	1.00	0	0	-258007.2
32+20.00	1.00	108.669	1063.937	1.00	0	0	-256943.2
32+30.00	1.00	148.464	1285.665	1.00	0	0	-255657.6
32+40.00	1.00	144.266	1463.651	1.00	0	0	-254193.9
32+50.00	1.00	140.834	1425.5	1.00	0	0	-252768.4
32+60.00	1.00	136.415	1386.247	1.00	0	0	-251382.2
32+70.00	1.00	129.456	1329.355	1.00	0	0	-250052.8
32+80.00	1.00	126.651	1280.532	1.00	0	0	-248772.3
32+90.00	1.00	94.666	1106.586	1.00	0	0	-247665.7
33+00.00	1.00	95.005	948.358	1.00	0	0	-246717.3
33+10.00	1.00	82.621	888.134	1.00	0	0	-245829.2
33+20.00	1.00	91.707	871.64	1.00	0	0	-244957.6
33+30.00	1.00	111.243	1014.746	1.00	0	0	-243942.8
33+40.00	1.00	128.566	1199.041	1.00	0	0	-242743.8
33+50.00	1.00	128.922	1287.438	1.00	0	0	-241456.3

**EARTHWORK CALCULATIONS**

33+60.00	1.00	137.604	1332.63	1.00	0	0 -240123.7
33+70.00	1.00	131.471	1345.375	1.00	0	0 -238778.3
33+80.00	1.00	131.535	1315.029	1.00	0	0 -237463.3
33+90.00	1.00	111.881	1217.08	1.00	0	0 -236246.2
34+00.00	1.00	125.69	1187.855	1.00	0	0 -235058.4
34+10.00	1.00	146.404	1360.467	1.00	0	0 -233697.9
34+20.00	1.00	177.954	1621.789	1.00	0	0 -232076.1
34+30.00	1.00	220.328	1991.413	1.00	0	0 -230084.7
34+40.00	1.00	261.372	2408.501	1.00	0	0 -227676.2
34+50.00	1.00	308.845	2851.083	1.00	0	0 -224825.1
34+60.00	1.00	354.773	3318.087	1.00	0	0 -221507.0
34+70.00	1.00	347.439	3511.056	1.00	0	0 -217996.0
34+80.00	1.00	408.629	3780.336	1.00	0	0 -214215.6
34+90.00	1.00	464.305	4364.669	1.00	0	0 -209851.0
35+00.00	1.00	523.968	4941.367	1.00	0	0 -204909.6
35+10.00	1.00	581.641	5528.046	1.00	0	0 -199381.6
35+20.00	1.00	687.472	6345.564	1.00	0	0 -193036.0
35+30.00	1.00	743.318	7153.951	1.00	0	0 -185882.0
35+40.00	1.00	792.294	7678.061	1.00	0	0 -178204.0
35+50.00	1.00	847.925	8201.092	1.00	0	0 -170002.9
35+60.00	1.00	939.387	8936.559	1.00	0	0 -161066.3
35+70.00	1.00	1029.649	9845.182	1.00	0	0 -151221.2
35+80.00	1.00	1124.227	10769.38	1.00	0	0 -140451.8
35+90.00	1.00	1172.903	11485.651	1.00	0	0 -128966.1
36+00.00	1.00	1244.662	12087.829	1.00	0	0 -116878.3
36+10.00	1.00	1313.016	12788.392	1.00	0	0 -104089.9
36+20.00	1.00	1374.677	13438.465	1.00	0	0 -90651.48
36+30.00	1.00	1360.036	13673.563	1.00	0	0 -76977.92
36+40.00	1.00	1336.253	13481.443	1.00	0	0 -63496.47
36+50.00	1.00	1311.776	13240.146	1.00	0	0 -50256.33
36+60.00	1.00	1268.301	12900.385	1.00	0	0 -37355.94
36+70.00	1.00	1198.709	12335.047	1.00	0	0 -25020.90
36+80.00	1.00	1134.433	11665.706	1.00	0	0 -13355.19
36+90.00	1.00	1063.686	10990.591	1.00	0	0 -2364.60
36+92.25	1.00	1058.753	10886.472	1.00	0	0 0.00
37+00.00	1.00	1041.727	10527.062	1.00	0	0 8162.46
37+10.00	1.00	990.06	10158.935	1.00	0	0 18321.40
37+20.00	1.00	925.648	9578.541	1.00	0	0 27899.94
37+30.00	1.00	853.459	8895.534	1.00	0	0 36795.47
37+40.00	1.00	782.212	8178.356	1.00	0	0 44973.83
37+50.00	1.00	675.791	7290.017	1.00	0	0 52263.85
37+60.00	1.00	660.576	6681.834	1.00	0	0 58945.68

**EARTHWORK CALCULATIONS**

37+70.00	1.00	704.906	6827.411	1.00	0	0	65773.09
37+80.00	1.00	740.273	7225.896	1.00	0	0	72998.99
37+90.00	1.00	750.309	7452.908	1.00	0	0	80451.90
38+00.00	1.00	763.457	7568.828	1.00	0	0	88020.72
38+10.00	1.00	813.883	7886.702	1.00	0	0	95907.43
38+20.00	1.00	886.348	8501.159	1.00	0	0	104408.58
38+30.00	1.00	936.621	9114.846	1.00	0	0	113523.43
38+40.00	1.00	976.903	9567.617	1.00	0	0	123091.05
38+50.00	1.00	1013.897	9953.997	1.00	0	0	133045.04
38+60.00	1.00	1012.662	10132.792	1.00	0	0	143177.84
38+70.00	1.00	1021.272	10169.67	1.00	0	0	153347.51
38+80.00	1.00	1017.576	10194.241	1.00	0	0	163541.75
38+90.00	1.00	996.017	10067.965	1.00	0	0	173609.71
39+00.00	1.00	982.774	9893.954	1.00	0	0	183503.67
39+10.00	1.00	934.16	9584.67	1.00	0	0	193088.34
39+20.00	1.00	872.46	9033.101	1.00	0	0	202121.44
39+30.00	1.00	810.803	8416.315	1.00	0	0	210537.75
39+40.00	1.00	768.034	7894.186	1.00	0	0	218431.94
39+50.00	1.00	734.072	7510.533	1.00	0	0	225942.47
39+60.00	1.00	671.829	7029.506	1.00	0	0	232971.98
39+70.00	1.00	608.181	6400.05	1.00	0	0	239372.03
39+80.00	1.00	559.58	5838.805	1.00	0	0	245210.83
39+90.00	1.00	494.119	5268.494	1.00	0	0	250479.33
40+00.00	1.00	429.267	4616.93	1.00	0	0	255096.26
40+10.00	1.00	376.274	4027.707	1.00	0	0	259123.96
40+20.00	1.00	316.737	3465.057	1.00	0	0	262589.02
40+30.00	1.00	236.886	2768.113	1.00	0	0	265357.13
40+40.00	1.00	168.526	2027.059	1.00	0	0	267384.19
40+50.00	1.00	110.767	1396.468	1.00	0	0	268780.66
40+60.00	1.00	47.16	789.638	1.00	0	0	269570.30
40+70.00	1.00	15.439	312.996	1.00	1.558	7.79	269875.50
40+80.00	1.00	12.087	137.629	1.00	2.702	21.301	269991.83
40+90.00	1.00	10.961	115.241	1.00	1.27	19.863	270087.21
41+00.00	1.00	9.423	101.922	1.00	2.495	18.828	270170.30
41+10.00	1.00	9.949	96.861	1.00	5.559	40.273	270226.89
41+20.00	1.00	10.47	102.094	1.00	62.793	341.763	269987.22
41+30.00	1.00	11.065	107.676	1.00	86.341	745.671	269349.23
41+40.00	1.00	11.79	114.277	1.00	112.169	992.551	268470.95
41+50.00	1.00	12.856	123.23	1.00	127.026	1195.977	267398.21
41+60.00	1.00	14.144	134.999	1.00	152.13	1395.783	266137.42
41+70.00	1.00	15.659	149.012	1.00	179.19	1656.6	264629.84
41+80.00	1.00	17.213	164.358	1.00	197.046	1881.178	262913.02

**EARTHWORK CALCULATIONS**

41+90.00	1.00	18.914	180.636	1.00	227.061	2120.533	260973.12
42+00.00	1.00	20.312	196.133	1.00	256.981	2420.207	258749.05
42+10.00	1.00	21.806	210.591	1.00	291.139	2740.602	256219.03
42+20.00	1.00	23.113	224.593	1.00	280.316	2857.275	253586.35
42+30.00	1.00	23.405	232.589	1.00	280.753	2805.343	251013.60
42+40.00	1.00	23.873	236.391	1.00	262.514	2716.332	248533.66
42+50.00	1.00	23.651	237.623	1.00	255.487	2590.004	246181.28
42+57.73	1.00	23.457	182.073	1.00	5.588	1009.057	245354.29

**End Area Volume Report**

<b>Grand Total:</b>	<b>554205.50</b>	<b>45667.00</b>
<b>CUYD:</b>	<b>20526.13</b>	<b>1691.37</b>
<b>GC/2 (for swell calcs)</b>		<b>121.36</b>
<b>Swell: 15%</b>		<b>236.44</b>

<b>Totals</b>	<b>Cut</b>	<b>Fill</b>
<b>Total:</b>	<b>22746.45</b>	<b>13424.24</b>
<b>Swell:</b>		<b>800.93</b>

## EARTHWORK CALCULATIONS

SR 96 South of Bridge, Rt Slope

Station	Cut			Fill		
	Factor	Area SF	Volume CY	Factor	Area SF	Volume CY
End Area Vc End Area Volume Report						
14+45.01	1.00	20.116	0	1.00	0	0
14+50.00	1.00	19.353	98.475	1.00	0	0
14+60.00	1.00	18.684	190.188	1.00	0	0
14+70.00	1.00	18.788	187.363	1.00	0	0
14+80.00	1.00	18.856	188.223	1.00	0	0
14+90.00	1.00	17.991	184.235	1.00	0	0
15+00.00	1.00	17.095	175.431	1.00	0	0
15+10.00	1.00	16.16	166.278	1.00	0	0
15+20.00	1.00	15.192	156.761	1.00	0	0
15+30.00	1.00	14.273	147.323	1.00	0	0
15+40.00	1.00	14.515	143.938	1.00	0	0
15+50.00	1.00	15.347	149.309	1.00	0	0
15+60.00	1.00	16.01	156.782	1.00	0	0
15+70.00	1.00	16.315	161.624	1.00	0	0
15+80.00	1.00	16.476	163.955	1.00	0	0
15+90.00	1.00	15.152	158.137	1.00	0	0
16+00.00	1.00	13.849	145.006	1.00	0	0
16+10.00	1.00	12.432	131.407	1.00	0	0
16+20.00	1.00	10.991	117.116	1.00	0	0
16+30.00	1.00	10.016	105.035	1.00	0.115	0.575
16+40.00	1.00	10.588	103.018	1.00	0.052	0.837
16+50.00	1.00	11.19	108.888	1.00	0.003	0.276
16+60.00	1.00	11.85	115.201	1.00	0	0.014
16+70.00	1.00	12.294	120.719	1.00	0	0
16+80.00	1.00	12.544	124.185	1.00	0	0
16+90.00	1.00	12.843	126.933	1.00	0	0
17+00.00	1.00	12.823	128.33	1.00	0	0
17+10.00	1.00	11.228	120.252	1.00	0.003	0.015
17+20.00	1.00	9.258	102.426	1.00	0.307	1.551
17+30.00	1.00	7.669	84.634	1.00	1.043	6.751
17+40.00	1.00	4.099	58.841	1.00	8.068	45.556
17+50.00	1.00	14.178	91.387	1.00	11.8	99.343
17+60.00	1.00	2.311	82.448	1.00	21.28	165.403
17+70.00	1.00	2.034	21.724	1.00	17.045	191.628
17+80.00	1.00	1.844	19.39	1.00	13.878	154.617

**EARTHWORK CALCULATIONS**

17+90.00	1.00	2.595	22.198	1.00	12.357	131.176
18+00.00	1.00	4.232	34.136	1.00	11.374	118.655
18+10.00	1.00	8.15	61.909	1.00	8.815	100.947
18+20.00	1.00	13.338	107.436	1.00	6.34	75.774
18+30.00	1.00	17.621	154.793	1.00	5.115	57.271
18+40.00	1.00	15.509	165.651	1.00	6.972	60.434
18+50.00	1.00	13.599	145.542	1.00	8.723	78.475
18+60.00	1.00	12.393	129.958	1.00	10.028	93.753
18+70.00	1.00	9.422	109.072	1.00	11.427	107.273
18+80.00	1.00	7.806	86.138	1.00	12.524	119.754
18+90.00	1.00	10.682	92.437	1.00	9.518	110.212
19+00.00	1.00	13.198	119.399	1.00	7.187	83.524
19+10.00	1.00	14.975	140.864	1.00	5.645	64.158
19+20.00	1.00	16.574	157.745	1.00	4.424	50.344
19+30.00	1.00	31.912	242.431	1.00	0.703	25.635
19+40.00	1.00	7.496	197.04	1.00	0.185	4.44
19+50.00	1.00	9.642	85.689	1.00	0.096	1.405
19+60.00	1.00	11.644	106.43	1.00	0.138	1.174
19+70.00	1.00	13.231	124.376	1.00	0.199	1.686
19+80.00	1.00	14.395	138.129	1.00	0.238	2.183
19+90.00	1.00	15.226	148.102	1.00	0.277	2.572
20+00.00	1.00	22.475	188.505	1.00	0	1.383
20+10.00	1.00	22.72	225.978	1.00	0	0
20+20.00	1.00	25.007	238.636	1.00	0	0
20+30.00	1.00	59.604	423.054	1.00	0.04	0.202
20+40.00	1.00	64.331	619.675	1.00	0.033	0.366
20+50.00	1.00	68.271	663.007	1.00	0.029	0.307
20+60.00	1.00	72.65	704.602	1.00	0.03	0.295
20+70.00	1.00	80.391	765.202	1.00	0.032	0.314
20+80.00	1.00	86.373	833.819	1.00	0.03	0.31
20+90.00	1.00	89.621	879.97	1.00	0.028	0.287
21+00.00	1.00	96.387	930.04	1.00	0.024	0.26
21+10.00	1.00	107.693	1020.401	1.00	0.02	0.223
21+20.00	1.00	118.343	1130.178	1.00	0.019	0.2
21+30.00	1.00	131.383	1248.627	1.00	0.019	0.191
21+40.00	1.00	143.978	1376.802	1.00	0.018	0.186
21+50.00	1.00	150.473	1472.253	1.00	0.019	0.188
21+60.00	1.00	154.222	1523.473	1.00	0.02	0.196
21+70.00	1.00	152.465	1533.434	1.00	0.019	0.197
21+80.00	1.00	149.201	1508.333	1.00	0.019	0.192
21+90.00	1.00	147.094	1481.479	1.00	0.018	0.187
22+00.00	1.00	143.683	1453.889	1.00	0.018	0.182

**EARTHWORK CALCULATIONS**

22+10.00	1.00	142.227	1429.554	1.00	0.018	0.179
22+20.00	1.00	141.555	1418.911	1.00	0.017	0.175
22+30.00	1.00	140.247	1409.01	1.00	0.017	0.172
22+40.00	1.00	145.918	1430.825	1.00	0.017	0.169
22+50.00	1.00	152.373	1491.454	1.00	0.017	0.171
22+60.00	1.00	158.971	1556.719	1.00	0.018	0.176
22+70.00	1.00	165.548	1622.592	1.00	0.018	0.181
22+80.00	1.00	169.832	1676.899	1.00	0.018	0.184
22+90.00	1.00	171.93	1708.81	1.00	0.018	0.182
23+00.00	1.00	173.706	1728.179	1.00	0.017	0.176
23+10.00	1.00	175.429	1745.676	1.00	0.017	0.17
23+20.00	1.00	179.711	1775.698	1.00	0.016	0.164
23+30.00	1.00	182.575	1811.43	1.00	0.017	0.163
23+40.00	1.00	183.412	1829.936	1.00	0.017	0.169
23+50.00	1.00	185.517	1844.645	1.00	0.018	0.177
23+60.00	1.00	190.101	1878.09	1.00	0.021	0.197
23+70.00	1.00	197.829	1939.65	1.00	0.025	0.232
23+80.00	1.00	196.885	1973.569	1.00	0.078	0.515
23+90.00	1.00	191.037	1939.609	1.00	0.077	0.776
24+00.00	1.00	191.908	1914.726	1.00	0.07	0.738
24+10.00	1.00	189.536	1907.218	1.00	0.022	0.462
24+20.00	1.00	183.03	1862.828	1.00	0.02	0.208
24+30.00	1.00	175.818	1794.239	1.00	0.018	0.188
24+40.00	1.00	171.739	1737.783	1.00	0.019	0.185
24+50.00	1.00	181.667	1767.03	1.00	0.021	0.201
24+60.00	1.00	189.506	1855.863	1.00	0.101	0.613
24+70.00	1.00	189.229	1893.673	1.00	0.117	1.094
24+80.00	1.00	202.821	1960.25	1.00	0.053	0.851
24+90.00	1.00	207.504	2051.625	1.00	0.024	0.382
25+00.00	1.00	203.356	2054.298	1.00	0.024	0.239
25+10.00	1.00	199.009	2011.821	1.00	0.024	0.243
25+20.00	1.00	193.647	1963.279	1.00	0.024	0.244
25+30.00	1.00	188.877	1912.62	1.00	0.023	0.236
25+40.00	1.00	183.639	1862.58	1.00	0.021	0.222
25+50.00	1.00	174.544	1790.916	1.00	0.02	0.209
25+60.00	1.00	171.159	1728.513	1.00	0.019	0.197
25+70.00	1.00	184.501	1778.297	1.00	0.021	0.198
25+80.00	1.00	189.264	1868.822	1.00	0	0.103
25+90.00	1.00	173.02	1811.419	1.00	0	0
26+00.00	1.00	169.919	1714.696	1.00	0	0
26+10.00	1.00	167.562	1687.406	1.00	0	0
26+20.00	1.00	0	837.81	1.00	0	0

**EARTHWORK CALCULATIONS**

26+22.06      1.00      0      0      1.00      0      0

**End Area Volume Report**

<b>Grand Total:</b>	<b>101104.76</b>	<b>1974.22</b>
<b>CUYD:</b>	<b>3744.62</b>	<b>73.12</b>
<b>Swell:</b>	<b>5%</b>	<b>1408.93</b>

## EARTHWORK CALCULATIONS

SR 96 North of Bridge, Rt Slope

Station	Cut			Fill		
	Factor	Area SF	Volume CY	Factor	Area SF	Volume CY
End Area Vc End Area Volume Report						
30+26.56	1.00	0	0	1.00	0	0
30+30.00	1.00	0	0	1.00	0	0
30+40.00	1.00	92.597	462.986	1.00	0.025	0.127
30+50.00	1.00	96.287	944.421	1.00	0.024	0.249
30+60.00	1.00	98.99	976.387	1.00	0.024	0.24
30+70.00	1.00	99.683	993.364	1.00	0.023	0.232
30+80.00	1.00	99.498	995.902	1.00	0.023	0.231
30+90.00	1.00	103.465	1014.814	1.00	0.025	0.241
31+00.00	1.00	107.159	1053.119	1.00	0.026	0.256
31+10.00	1.00	109.366	1082.622	1.00	0.028	0.274
31+20.00	1.00	115.192	1122.791	1.00	0.031	0.297
31+30.00	1.00	121.856	1185.244	1.00	0.032	0.318
31+40.00	1.00	128.337	1250.964	1.00	0.034	0.331
31+50.00	1.00	134.559	1314.478	1.00	0.035	0.346
31+60.00	1.00	138.882	1367.206	1.00	0.037	0.363
31+70.00	1.00	144.808	1418.451	1.00	0.039	0.382
31+80.00	1.00	145.708	1452.582	1.00	0.034	0.366
31+90.00	1.00	138.556	1421.322	1.00	0.033	0.338
32+00.00	1.00	136.43	1374.928	1.00	0.032	0.328
32+10.00	1.00	135.977	1362.031	1.00	0.031	0.318
32+20.00	1.00	137.139	1365.578	1.00	0.026	0.286
32+30.00	1.00	141.577	1393.58	1.00	0.021	0.235
32+40.00	1.00	146.428	1440.024	1.00	0.017	0.194
32+50.00	1.00	151.098	1487.629	1.00	0.014	0.157
32+60.00	1.00	162.231	1566.643	1.00	0.013	0.134
32+70.00	1.00	166.161	1641.961	1.00	0.013	0.13
32+80.00	1.00	129.43	1477.957	1.00	0	0.066
32+90.00	1.00	134.704	1320.667	1.00	0	0
33+00.00	1.00	140.856	1377.797	1.00	0	0
33+10.00	1.00	146.009	1434.323	1.00	0	0
33+20.00	1.00	148.573	1472.909	1.00	0	0
33+30.00	1.00	152.342	1504.577	1.00	0	0
33+40.00	1.00	156.874	1546.084	1.00	0	0
33+50.00	1.00	160.621	1587.475	1.00	0	0
33+60.00	1.00	163.787	1622.041	1.00	0	0

**EARTHWORK CALCULATIONS**

33+70.00	1.00	169.702	1667.449	1.00	0	0
33+80.00	1.00	197.405	1835.537	1.00	0.01	0.052
33+90.00	1.00	199.219	1983.12	1.00	0.01	0.102
34+00.00	1.00	200.044	1996.318	1.00	0.01	0.098
34+10.00	1.00	203.107	2015.756	1.00	0.009	0.093
34+20.00	1.00	202.54	2028.235	1.00	0.009	0.088
34+30.00	1.00	197.364	1999.522	1.00	0.008	0.085
34+40.00	1.00	194.212	1957.88	1.00	0.008	0.083
34+50.00	1.00	192.474	1933.43	1.00	0.008	0.081
34+60.00	1.00	190.924	1916.99	1.00	0.008	0.078
34+70.00	1.00	189.57	1902.467	1.00	0.007	0.076
34+80.00	1.00	188.136	1888.53	1.00	0.007	0.075
34+90.00	1.00	186.835	1874.856	1.00	0.008	0.076
35+00.00	1.00	182.407	1846.21	1.00	0.008	0.079
35+10.00	1.00	177.718	1800.625	1.00	0.008	0.082
35+20.00	1.00	173.243	1754.804	1.00	0.009	0.084
35+30.00	1.00	169.062	1711.523	1.00	0.009	0.086
35+40.00	1.00	165.411	1672.362	1.00	0.009	0.088
35+50.00	1.00	162.118	1637.641	1.00	0.009	0.09
35+60.00	1.00	158.432	1602.746	1.00	0.009	0.091
35+70.00	1.00	153.959	1561.956	1.00	0.009	0.089
35+80.00	1.00	150.272	1521.155	1.00	0.008	0.085
35+90.00	1.00	146.936	1486.036	1.00	0.008	0.08
36+00.00	1.00	144.027	1454.812	1.00	0.007	0.076
36+10.00	1.00	141.725	1428.756	1.00	0.007	0.071
36+20.00	1.00	140.391	1410.579	1.00	0.007	0.068
36+30.00	1.00	138.938	1396.644	1.00	0.007	0.066
36+40.00	1.00	134.724	1368.31	1.00	0.007	0.065
36+50.00	1.00	130.73	1327.271	1.00	0.006	0.065
36+60.00	1.00	127.151	1289.403	1.00	0.006	0.065
36+70.00	1.00	123.366	1252.582	1.00	0.006	0.063
36+80.00	1.00	119.811	1215.884	1.00	0.006	0.062
36+90.00	1.00	116.729	1182.697	1.00	0.006	0.06
37+00.00	1.00	113.915	1153.216	1.00	0.006	0.059
37+10.00	1.00	110.73	1123.223	1.00	0.006	0.058
37+20.00	1.00	107.905	1093.176	1.00	0.006	0.056
37+30.00	1.00	105.462	1066.835	1.00	0.005	0.055
37+40.00	1.00	100.797	1031.292	1.00	0.005	0.052
37+50.00	1.00	87.247	940.215	1.00	0.009	0.071
37+60.00	1.00	75.256	812.513	1.00	0.015	0.123
37+70.00	1.00	71.524	733.901	1.00	0.014	0.149
37+80.00	1.00	67.724	696.24	1.00	0.013	0.14

**EARTHWORK CALCULATIONS**

37+90.00	1.00	64.43	660.767	1.00	0.013	0.131
38+00.00	1.00	61.524	629.77	1.00	0.013	0.128
38+10.00	1.00	58.523	600.236	1.00	0.013	0.129
38+20.00	1.00	55.761	571.419	1.00	0.013	0.129
38+30.00	1.00	53.319	545.399	1.00	0.013	0.129
38+40.00	1.00	50.956	521.374	1.00	0.012	0.126
38+50.00	1.00	48.552	497.538	1.00	0.012	0.123
38+60.00	1.00	46.448	474.996	1.00	0.012	0.118
38+70.00	1.00	44.627	455.372	1.00	0.011	0.113
38+80.00	1.00	43.79	442.084	1.00	0.01	0.106
38+90.00	1.00	43.096	434.433	1.00	0.009	0.099
39+00.00	1.00	43.366	432.315	1.00	0.039	0.243
39+10.00	1.00	39.525	414.458	1.00	0	0.196
39+20.00	1.00	55.371	474.481	1.00	0	0
39+30.00	1.00	55.535	554.529	1.00	0	0
39+40.00	1.00	54.772	551.531	1.00	0	0
39+50.00	1.00	53.612	541.917	1.00	0	0
39+60.00	1.00	52.772	531.917	1.00	0	0
39+70.00	1.00	51.801	522.864	1.00	0	0
39+80.00	1.00	47.602	497.017	1.00	0	0
39+90.00	1.00	42.964	452.833	1.00	0	0
40+00.00	1.00	38.282	406.231	1.00	0	0
40+10.00	1.00	35.138	367.1	1.00	0	0
40+20.00	1.00	32.802	339.699	1.00	0	0
40+30.00	1.00	30.687	317.445	1.00	0	0
40+40.00	1.00	28.561	296.242	1.00	0	0
40+50.00	1.00	16.185	223.731	1.00	0	0
40+60.00	1.00	75.458	458.217	1.00	0	0
40+70.00	1.00	86.042	807.503	1.00	0	0
40+80.00	1.00	93.463	897.527	1.00	0	0
40+90.00	1.00	101.712	975.874	1.00	0	0
41+00.00	1.00	110.931	1063.213	1.00	0	0
41+10.00	1.00	114.405	1126.68	1.00	0	0
41+20.00	1.00	111.889	1131.468	1.00	0	0
41+30.00	1.00	109.49	1106.895	1.00	0	0
41+40.00	1.00	107.029	1082.594	1.00	0	0
41+50.00	1.00	108.512	1077.7	1.00	0	0
41+60.00	1.00	108.249	1083.805	1.00	0	0
41+70.00	1.00	101.95	1050.996	1.00	0	0
41+80.00	1.00	95.004	984.769	1.00	0	0
41+90.00	1.00	89.193	920.987	1.00	0	0
42+00.00	1.00	85.061	871.272	1.00	0	0

**EARTHWORK CALCULATIONS**

42+10.00	1.00	81.944	835.027	1.00	0	0
42+20.00	1.00	80.609	812.766	1.00	0	0
42+30.00	1.00	79.417	800.129	1.00	0	0
42+40.00	1.00	79.603	795.098	1.00	0	0
42+50.00	1.00	83.533	815.675	1.00	0	0
42+57.73	1.00	87.597	661.417	1.00	0	0

**End Area Volume Report**

<b>Grand Total:</b>	<b>138722.86</b>	<b>11.47</b>
<b>CUYD:</b>	<b>5137.88</b>	<b>0.42</b>
<b>Swell: 15%</b>		<b>0.06</b>

**End Area Volume Report****Cut****Fill**

<b>Grand Total:</b>	<b>8882.50</b>	<b>73.54</b>
<b>Swell:</b>		<b>1408.98</b>

**GROUND COMPACTION** Temporary Widening

**Ground Compaction Factor** 0.1 ft

<b>Station</b>	<b>Fill Length Ft</b>	<b>Fill Width Ft</b>	<b>Fill Area SF</b>	<b>Fill Volume CY</b>	<b>Total Volume CY</b>
From ORD Fill Obj Properties "Planner Area" (all is outside Exst Pvmt)	0	0.00	18912.09	70.04	70.04
<b>Total Ground Compaction</b>					<b>70.0</b>

**GROUND COMPACTION** SR 96

**Ground Compaction Factor** 0.1 ft

<b>Station</b>	<b>Fill Length Ft</b>	<b>Fill Width Ft</b>	<b>Fill Area SF</b>	<b>Fill Volume CY</b>	<b>Total Volume CY</b>
From ORD Fill Obj Properties "Planner Area" (Almost all is outside Exst Pvmt)	0	0.00	65534.34	242.72	242.72
<b>Total Ground Compaction</b>					<b>242.7</b>