

EARTHWORK SUMMARY

Final Earthwork Report

**WICKENBURG RANCH WAY TO VISTA ROYALE
KINGMAN – WICKENBURG HIGHWAY
PROJECT NO. 093 YV 189 F0738 01C
FEDERAL AID NO. 093-B(230)T
MP 193.0 to MP 194.2**

**PREPARED BY
STANLEY CONSULTANTS INC.
June, 2026**

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EARTHWORK FACTORS

Wickenburg Ranch Way to Vista Royale

Station	Shrink	Ground Compaction
Wickenburg Ranch Way	10%	0.1 Ft
Matthie Ranch Road	10%	0.1 Ft
US 93 (Stockpile Excavation)	35%	0.2 Ft
US 93	17.5%	0.2 Ft
SR 89	17.5%	0.2 Ft

Earthwork Factors per Final Materials Design Report.

For this "Earthwork Package", shrinkage of all the excavated quantities will be in accordance with the above table.

EARTHWORK SUMMARY CALCULATIONS

	EARTHWORK QUANTITIES MP 193.0 to MP 194.2 (All quantities shown in cubic yards)																	Totals CY	Notes
	Shrink Factor	Phase 1				Phase 2			Phase 3		Phase 4A		Phase 4B		Phase 5				
		Mainline (US 93/SR 89) Roundabouts	Southbound US 93 Borrow Pit	Crossroads	Detours	Mainline	Crossroads	Detours	Mainline Roundabouts	Detours	Mainline Roundabouts	Detours	Mainline NB US 93	Detours	Mainline NB/SB US 93	Detours			
Roadway Excavation (See Note 3)		2,409	0	92,239	1,770	107,456	0	306	16,995	2	2,664	1,590	300	231	1,081	156	227,199	See Exhibit A for Common Excavation	
Cut Volumes from OpenRoads Model																			
Wickenburg Ranch Way	10%			86,838															
Matthie Ranch Road	10%			5,445															
SR 89 Perm Paving	17.5%	2,409				1,852					3,533								
US 93 Perm Paving (Begin to 2160+00)	17.5%					29,941			16,405				300		1,081				
US 93 Perm Paving (NB and SB ALG's)	17.5%					39,941			4,662										
Temp Detour Paving	17.5%				1,770			306		2		1,590		231		156			
US 93 Stockpile Excavation (2112 to 2125)	35.0%					40,137													
AC Pavement Removal (See Note 2)		0	0	44	0	4,415	0	0	4,072	0	869		0		0		9,400		
Drainage Excavation		0	0	22,656	0	685	0	0	492	0	238		0		0		24,071	See Exhibit A for Drainage Excavation	
WRW Crown Ditch	10%			1,938															
WRW/MRR Basin	10%			20,634															
Detail DV - Intercepted Drainage	10%			15															
Detail DR - Riprap Basin	Varies			69		85					6								
SR 89 to US 93 Ditch	17.5%								492										
Inlet Grading	17.5%										232								
Outlet Grading	17.5%					600													
Pipe Excavation		0	0	910	0	720	0	0	0	0	508		0		0		2,138	See Exhibit C for Pipe Excavation	
New Pipe	Varies			910		711					447								
Pipe Extension	17.5%					9					61								
Structural Excavation		0		0	0	177	0	0	0	0	0		0		0		177	See Exhibit A for Structural Excavation	
Riprap Excavation		0		74	0	26	0	0	0	12	6		0		0		118	See Exhibit A for Riprap Excavation	
Total Excavation Available		2,409	0	115,879	1,770	109,064	0	306	17,487	14	3,416	1,590	300	231	1,081	156	253,703		
Shrink (10%)				11,588													11,588		
Shrink (17.5%)		422			310	12,062		54	3,062		598	278	53	40	189	27	17,095		
Shrink (35%)						14,048											14,048		
Roadway Embankment		483		44,610	2,392	53,300		1,615	13,140	131	460						116,131	See Exhibit A for Common Embankment	
Fill Volumes from OpenRoads Model																			
Wickenburg Ranch Way				14,212															
Matthie Ranch Road				28,744															
SR 89 Perm Paving		483				1,961					460								
US 93 Perm Paving (Begin to 2160+00)						51,339			12,785										
US 93 Perm Paving (NB and SB ALG's)									355										
Temp Detour Paving					2,392			1,615		131									
WRW Terminus Embankment				1,654															
Berm Embankment				3,025					0								3,025	See Exhibit A for Berm Embankment	
MRR Berm				2,936															
Pipe Berms				89															
Pipe Trench Backfill				0		150					123						273	See Exhibit C for Pipe Trench Backfill	
New Pipe						150					123								
Pipe Extension																			
Ground Compaction		0	0	620	0	750	0	0	428	0	19		0		0		1,817	See Exhibit B for Ground Compaction	
Total Embankment Required		483	0	48,255	2,392	54,200	0	1,615	13,568	131	602		0		0		121,246		
Haul Out - See Note 1		56,608				27,391			739		3,528		438		1,021		89,725		
Pipe Backfill <i>NI</i>				800		500												See Exhibit C for Pipe Backfill	
Pipe Bedding <i>NI</i>				618		357												See Exhibit C for Pipe Bedding	
Structure Backfill <i>NI</i>						385												See Exhibit A for Structure Backfill	

Note 1: Haul out is excavated material with adjustment for shrink.
Note 2: AC Pavement removal subtracted from cut volumes and not included in Roadway Excavation.
Note 3: Roadway Excavation does not include AC Removal volume. Cut volumes adjusted to remove AC Pavment Removal volume.

Excavation Reduction for Pavement Removal							
Phase	Begin Station	End Station	AC Pavement Removal Area (SF)	AC Pavement Removal Area (SY)	Exst AC Thickness (In)	AC Pavement Removal Volume	NOTES (Existing Pavement Thickness Source)
Phase 1							
Wick Ranch Wy			0 SF	0 SY	4 in	0 CY	Wickenburg Ranch Permit 2014
Matt Ranch Rd			3,543 SF	394 SY	4 in	44 CY	Wickenburg Ranch Permit 2014
SR 89			0 SF	0 SY	6.5 in	0 CY	Record Drawings H813601C
Phase 2							
US 93	2109+75.28	2125+00.00	34,337 SF	3,815 SY	7.5 in	795 CY	Wickenburg Ranch Permit 2014
US 93	2125+00.00	End	141,551 SF	15,728 SY	7.5 in	3,277 CY	Wickenburg Ranch Permit 2014
SR 89			17,106 SF	1,901 SY	6.5 in	343 CY	Record Drawings H813601C
Phase 3							
US 93	2109+75.28	2125+00.00	34,337 SF	3,815 SY	7.5 in	795 CY	Wickenburg Ranch Permit 2014
US 93	2125+00.00	End	141,551 SF	15,728 SY	7.5 in	3,277 CY	Wickenburg Ranch Permit 2014
SR 89			0,000 SF	0,000 SY	6.5 in	000 CY	Record Drawings H813601C
Phase 4A							
SR 89			43,325 SF	4,814 SY	6.5 in	869 CY	Record Drawings H813601C
Phase 4B							
SR 89			0 SF	0 SY	6.5 in	0 CY	Record Drawings H813601C
Phase 5							
US 93			0 SF	0 SY	7.5 in	0 CY	Wickenburg Ranch Permit 2014
			Total Volume (Rounded)			9,400 CY	

BACK UP CALCULATIONS

EXHIBIT A

COMMON EXCAVATION & COMMON EMBANKMENT

Description: The “Common Excavation” and “Common Embankment” quantities are derived from the roadway cross-sections using the average end area method. The “Common Excavation” quantity is included in the “Total Excavation”. The “Common Embankment” quantity is included in the “Total Embankment”.

End Area Volume Report

Report Created: Monday, May 4, 2026
Time: 2:29:52 PM

Section Set Name: Wickenburg Ranch Way
Alignment Name: Wickenburg Ranch Way
Input Grid Factor: Note: All units in this report are in feet, square feet and cubic yards unless specified

Baseline Station	----- Station Quantities -----								Mass Ordinate
	----- Cut -----				----- Fill -----				
	Facto	Area	Volume	Adjuste	Facto	Area	Volume	Adjuste	
55+75.00	1	0	0	0	1	707.44	0	0	0
56+00.00	1	0	0	0	1	1004.5	792.56	792.56	-792.56
57+00.00	1	0	0	0	1	1398.6	4450.2	4450.2	-5242.8
58+00.00	1	0	0	0	1	1195	4803	4803	-10046
59+00.00	1	0	0	0	1	395.71	2945.7	2945.7	-12991
60+00.00	1	83.08	153.85	153.85	1	131.34	976.02	976.02	-13814
61+00.00	1	181.59	490.12	490.12	1	0	243.22	243.22	-13567
62+00.00	1	1128	2425.2	2425.2	1	0	0	0	-11142
63+00.00	1	2723.4	7132.17	7132.2	1	0	0	0	-4009.4
63+34.02	1	3035.4	8715.06	8715.1	1	0	0	0	0
64+00.00	1	3640.4	11784.78	11785	1	0	0	0	7775.42
65+00.00	1	3897.9	13959.78	13960	1	0	0	0	21735.2
66+00.00	1	2817.7	12436.21	12436	1	0	0	0	34171.4
67+00.00	1	1790.1	8533.01	8533	1	0	0	0	42704.4
68+00.00	1	965.72	5103.41	5103.4	1	0	0	0	47807.8
69+00.00	1	471.22	2660.99	2661	1	0	0	0	50468.8
70+00.00	1	364.63	1547.88	1547.9	1	0	0	0	52016.7
71+00.00	1	581.6	1752.28	1752.3	1	0	0	0	53769
72+00.00	1	1086.2	3088.59	3088.6	1	0	0	0	56857.6
73+00.00	1	1586.6	4949.61	4949.6	1	0	0	0	61807.2
74+00.00	1	2081	6791.7	6791.7	1	0	0	0	68598.9
75+00.00	1	68.1	3979.75	3979.8	1	0	0	0	72578.6
75+23.64	1	42.48	48.41	48.41	1	2.2	0.96	0.96	72626.1
Grand Total:			86837.75	86838			14212	14212	

End Area Volume Report

Report Created: Monday, May 4, 2026
Time: 2:34:49 PM

cross Section Set Name: Matthie Ranch Rd

Alignment Name: Matthie Ranch Rd

Input Grid Factor: Note: feet and cubic yards unless specified otherwise.

Baseline Station	----- Station Quantities -----									
	----- Cut -----				----- Fill -----				Mass	
	Facto	Area	Volume	Adjuste	Facto	Area	Volume	Adjuste	Ordinate	
1+00.00	1	0		0	0	1	981.1	0	0	0
2+00.00	1	0.05		0.1	0.1	1	898.1	3480.04	3480.04	-3480
3+00.00	1	0		0.1	0.1	1	745.7	3043.98	3043.98	-6523.8
4+00.00	1	0		0	0	1	628.1	2543.96	2543.96	-9067.8
5+00.00	1	0		0	0	1	443.5	1984.46	1984.46	-11052
6+00.00	1	0		0	0	1	327.7	1428.26	1428.26	-12481
7+00.00	1	0		0	0	1	314.1	1188.62	1188.62	-13669
8+00.00	1	0		0	0	1	305.5	1147.54	1147.54	-14817
9+00.00	1	0		0	0	1	260.8	1048.71	1048.71	-15865
10+00.00	1	16.11		29.83	29.83	1	187.6	830.22	830.22	-16666
11+00.00	1	0.27		30.33	30.33	1	283.9	873.04	873.04	-17508
12+00.00	1	13.33		25.18	25.18	1	248.6	986.1	986.1	-18469
13+00.00	1	0.83		26.21	26.21	1	227	880.72	880.72	-19324
14+00.00	1	4.46		9.78	9.78	1	224.7	836.43	836.43	-20151
15+00.00	1	14.43		34.98	34.98	1	137.4	670.61	670.61	-20786
16+00.00	1	0		26.73	26.73	1	271.9	758	758	-21517
17+00.00	1	0		0	0	1	279.8	1021.69	1021.69	-22539
18+00.00	1	8.03		14.87	14.87	1	168.9	831.06	831.06	-23355
19+00.00	1	3.2		20.8	20.8	1	157.6	604.72	604.72	-23939
20+00.00	1	14.64		33.04	33.04	1	95.15	468.08	468.08	-24374
21+00.00	1	50.61		120.83	120.83	1	47.3	263.8	263.8	-24517
22+00.00	1	284.5		620.54	620.54	1	0	87.6	87.6	-23984
23+00.00	1	187.7		874.35	874.35	1	0	0	0	-23110
24+00.00	1	97.59		528.25	528.25	1	23.97	44.4	44.4	-22626
25+00.00	1	9.22		197.81	197.81	1	92.93	216.5	216.5	-22645
26+00.00	1	1.2		19.3	19.3	1	165.4	478.46	478.46	-23104
27+00.00	1	0		2.22	2.22	1	187.3	653.26	653.26	-23755
28+00.00	1	0		0	0	1	164.5	651.44	651.44	-24406
29+00.00	1	29.65		54.9	54.9	1	14.22	330.87	330.87	-24682
30+00.00	1	46.31		140.65	140.65	1	17.91	59.49	59.49	-24601
31+00.00	1	18.77		120.52	120.52	1	101.2	220.51	220.51	-24701
32+00.00	1	20.66		73.02	73.02	1	71.39	319.55	319.55	-24948
33+00.00	1	12.13		60.72	60.72	1	95.57	309.19	309.19	-25196
34+00.00	1	30.27		78.52	78.52	1	16.74	207.98	207.98	-25326
35+00.00	1	24.4		101.24	101.24	1	5.85	41.83	41.83	-25266
36+00.00	1	92.62		216.71	216.71	1	3.02	16.42	16.42	-25066
37+00.00	1	199.6		541.23	541.23	1	0.08	5.73	5.73	-24531
38+00.00	1	33.6		431.93	431.93	1	1.2	2.37	2.37	-24101
39+00.00	1	4.52		70.6	70.6	1	30.39	58.51	58.51	-24089
40+00.00	1	28.62		61.38	61.38	1	14.43	83.02	83.02	-24110
41+00.00	1	76.59		194.84	194.84	1	6.44	38.65	38.65	-23954
42+00.00	1	108.1		342.06	342.06	1	3.38	18.17	18.17	-23630
43+00.00	1	76.06		341.07	341.07	1	1.79	9.57	9.57	-23299

Grand Total:

5444.66 5444.7

28743.6 28743.6

End Area Volume Report

Report Created: Tuesday, April 21, 2026
Time: 2:05:42 PM

ross Section Set Name: SR 89 Perm Phase 1
Alignment Name: EEOP1
Input Grid Factor: Note: All units in this report are in feet, square feet
and cubic yards unless specified otherwise.

Baseline Station	----- Station Quantities -----									
	----- Cut -----					----- Fill -----				Mass
	Facto	Area	Volume		Adjuste	Facto	Area	Volum	Adjuste	Ordinat
0+00.00	1	10.58	0	0	0	1	10.6	0	0	0
1+00.00	1	33.56	81.73	81.73	1	0.02	19.62	19.62	62.12	
2+00.00	1	113.8	272.95	272.95	1	0	0.03	0.03	335.04	
3+00.00	1	80.31	359.53	359.53	1	0	0	0	694.57	
4+00.00	1	17.9	181.88	181.88	1	1.8	3.33	3.33	873.11	
5+00.00	1	3.02	38.74	38.74	1	23.5	46.77	46.77	865.08	
6+00.00	1	27.51	56.53	56.53	1	0	43.44	43.44	878.17	
7+00.00	1	67.29	175.55	175.55	1	0	0	0	1053.7	
8+00.00	1	91.06	293.25	293.25	1	0	0	0	1347	
9+00.00	1	52.93	266.66	266.66	1	0.8	1.48	1.48	1612.2	
10+00.00	1	0.48	98.91	98.91	1	91.2	170.37	170.37	1540.7	
11+00.00	1	101.5	188.9	188.9	1	8.93	185.43	185.43	1544.2	
11+78.07	1	171	394.01	394.01	1	0	12.91	12.91	1925.3	
Grand Total:			2408.64	2408.6			483.38	483.38		

End Area Volume Report

Report Created: Tuesday, April 7, 2026
Time: 2:11:41 PM

ross Section Set Name: SR 89 Perm Paving Phase 2
Alignment Name: SR 89 Bypass
Input Grid Factor: **Note:** All units in this report are in feet, square feet
and cubic yards unless specified otherwise.

Baseline Station	----- Station Quantities -----									
	----- Cut -----					----- Fill -----				
	Facto	Area	Volume	Adjuste	Facto	Area	Volum	Adjuste	Mass	Ordinat
111+00.00	1	513	0	0	1	145	0	0	0	
112+00.00	1	1.73	953.15	953.15	1	122.7	495.85	495.85	457.3	
113+00.00	1	0.73	4.55	4.55	1	24.71	273.01	273.01	188.84	
114+00.00	1	28.04	53.27	53.27	1	17.52	78.2	78.2	163.92	
115+00.00	1	20.38	89.67	89.67	1	4.48	40.73	40.73	212.86	
116+00.00	1	48.4	127.36	127.36	1	0.35	8.93	8.93	331.29	
117+00.00	1	37.53	159.12	159.12	1	0.31	1.22	1.22	489.19	
118+00.00	1	34.34	133.09	133.09	1	0.03	0.64	0.64	621.65	
119+00.00	1	29.92	119	119	1	22.57	41.85	41.85	698.79	
120+00.00	1	13.06	79.6	79.6	1	95.14	217.98	217.98	560.41	
121+00.00	1	10.06	42.82	42.82	1	60.47	288.16	288.16	315.07	
122+00.00	1	8.21	33.84	33.84	1	27.67	163.21	163.21	185.7	
123+00.00	1	7.47	29.03	29.03	1	8.97	67.84	67.84	146.89	
124+00.00	1	3.58	20.45	20.45	1	6.9	29.38	29.38	137.95	
124+55.96	1	1.77	13.08	13.08	1	75.87	154.97	154.97	0	
125+00.00	1	0.36	7.28	7.28	1	130.2	253.81	253.81	-108.58	
Grand Total:			1852.25	1852.3			1960.8	1960.8		

End Area Volume Report

Report Created: Tuesday, April 21, 2026
Time: 2:00:19 PM

ross Section Set Name: SR 89 Bypass
Alignment Name: SR 89
Input Grid Factor: Note: All units in this report are in feet, square feet
and cubic yards unless specified otherwise.

Baseline Station	----- Station Quantities -----								Mass Ordinat
	----- Cut -----				----- Fill -----				
	Facto	Area	Volume	Adjuste	Facto	Area	Volum	Adjuste	
111+00.00	1	511.5	0	0	1	148.4	0	0	0
112+00.00	1	75.41	1086.9	1086.9	1	124.9	506.08	506.08	580.82
113+00.00	1	67.06	263.85	263.85	1	26.5	280.32	280.32	564.35
114+00.00	1	82.4	276.79	276.79	1	44.08	130.7	130.7	710.43
115+00.00	1	46.65	238.99	238.99	1	48.97	172.32	172.32	777.09
116+00.00	1	107.3	285.16	285.16	1	0.35	91.33	91.33	970.93
117+00.00	1	145.1	467.51	467.51	1	0.31	1.22	1.22	1437.2
118+00.00	1	196.5	632.65	632.65	1	0.03	0.64	0.64	2069.2
119+00.00	1	107.3	562.55	562.55	1	22.57	41.85	41.85	2589.9
120+00.00	1	38.6	270.13	270.13	1	150.4	320.23	320.23	2539.8
121+00.00	1	51.32	166.52	166.52	1	60.47	390.41	390.41	2315.9
122+00.00	1	71.88	228.14	228.14	1	27.67	163.21	163.21	2380.9
123+00.00	1	119.1	353.61	353.61	1	8.98	67.86	67.86	2666.6
124+00.00	1	87.4	382.35	382.35	1	7.04	29.67	29.67	3019.3
125+00.00	1	10.63	181.54	181.54	1	134.8	262.58	262.58	2938.3
126+00.00	1	61.93	134.38	134.38	1	31.21	307.33	307.33	2765.3
127+00.00	1	193.6	473.21	473.21	1	12.31	80.59	80.59	3157.9
128+00.00	1	150.8	637.74	637.74	1	9.38	40.17	40.17	3755.5
129+00.00	1	193.6	637.68	637.68	1	0	17.38	17.38	4375.8
130+00.00	1	38.21	429.24	429.24	1	0	0	0	4805
130+87.63	1	14.33	85.27	85.27	1	0	0	0	4890.3
Grand Total:			7794.2	7794.2			2903.9	2903.9	

End Area Volume Report

Report Created: Wednesday, April 22, 2026
Time: 3:28:54 PM

Section Set Name: US 93

Alignment Name: US 93 Med

Input Grid Factor:

Note: All units in this report are in feet, square
feet and cubic yards unless specified

Baseline Station	----- Station Quantities -----								Mass Ordinat
	----- Cut -----				----- Fill -----				
	Facto	Area	Volume	Adjuste	Facto	Area	Volume	Adjuste	
2109+75.28	1	121.48	0	0	1	13.27	0	0	0
2110+00.00	1	137.78	118.68	118.68	1	3.79	7.81	7.81	110.88
2111+00.00	1	224.07	670.1	670.1	1	0.16	7.31	7.31	773.66
2112+00.00	1	626.06	1574.32	1574.3	1	0.02	0.32	0.32	2347.7
2113+00.00	1	1395.2	3743.05	3743.1	1	0	0.03	0.03	6090.7
2114+00.00	1	1223.7	4849.83	4849.8	1	0	0	0	10941
2115+00.00	1	1131.4	4361.3	4361.3	1	0	0	0	15302
2116+00.00	1	1166.6	4255.52	4255.5	1	0	0	0	19557
2117+00.00	1	1073	4147.34	4147.3	1	0.02	0.05	0.05	23705
2118+00.00	1	1000.1	3838.94	3838.9	1	0.12	0.27	0.27	27543
2119+00.00	1	1087	3865	3865	1	1.28	2.59	2.59	31406
2120+00.00	1	1095.8	4042.33	4042.3	1	0	2.37	2.37	35446
2121+00.00	1	1030.7	3937.95	3938	1	0.26	0.49	0.49	39383
2122+00.00	1	747.36	3292.66	3292.7	1	45.29	84.36	84.36	42591
2123+00.00	1	922.48	3092.31	3092.3	1	237.08	522.9	522.9	45161
2124+00.00	1	848.65	3279.88	3279.9	1	116.84	655.41	655.41	47785
2125+00.00	1	85.2	1729.35	1729.4	1	205.29	596.55	596.55	48918
2126+00.00	1	56.45	262.31	262.31	1	594.36	1480.9	1480.9	47700
2127+00.00	1	155.06	391.69	391.69	1	514.99	2054.4	2054.4	46037
2128+00.00	1	114.91	499.95	499.95	1	532.24	1939.3	1939.3	44598
2129+00.00	1	55.39	315.37	315.37	1	545.19	1995.3	1995.3	42918
2130+00.00	1	0	102.58	102.58	1	430.62	1807.1	1807.1	41213
2131+00.00	1	0	0	0	1	393.19	1525.6	1525.6	39688
2132+00.00	1	0	0	0	1	219.93	1135.4	1135.4	38552
2133+00.00	1	0	0	0	1	246.94	864.57	864.57	37688
2134+00.00	1	10.84	20.07	20.07	1	151.75	738.32	738.32	36969
2135+00.00	1	30.75	77.01	77.01	1	91.68	450.8	450.8	36596
2136+00.00	1	76.74	199.05	199.05	1	108.27	370.28	370.28	36424
2137+00.00	1	120.87	365.95	365.95	1	145.5	469.95	469.95	36320
2138+00.00	1	175.77	549.35	549.35	1	133.51	516.68	516.68	36353
2139+00.00	1	177.91	654.97	654.97	1	135.08	497.38	497.38	36511
2140+00.00	1	206.47	711.81	711.81	1	95.87	427.68	427.68	36795
2141+00.00	1	215.35	781.14	781.14	1	70.52	308.13	308.13	37268
2142+00.00	1	146.99	671	671	1	123.22	358.78	358.78	37580
2143+00.00	1	96.93	451.7	451.7	1	160.11	524.68	524.68	37507
2144+00.00	1	73.11	314.88	314.88	1	167.29	606.29	606.29	37216
2145+00.00	1	61	248.35	248.35	1	175.91	635.56	635.56	36828
2146+00.00	1	57.28	219.04	219.04	1	177.79	655	655	36392
2147+00.00	1	152.53	388.54	388.54	1	157.45	620.81	620.81	36160
2148+00.00	1	172.7	602.27	602.27	1	529.94	1273	1273	35489
2148+32.52	1	320.15	296.81	296.81	1	504.79	623.14	623.14	35163
2148+64.23	1	655.89	573.16	573.16	1	748.37	735.89	735.89	35000
2149+00.00	1	1355	1331.99	1332	1	1414.6	1432.8	1432.8	34900
2149+35.73	1	1660.3	1995.09	1995.1	1	1689.6	2054	2054	34841
2150+00.00	1	879.97	3023.41	3023.4	1	827.91	2996.3	2996.3	34868
2150+07.23	1	1003.7	252.2	252.2	1	625.55	194.6	194.6	34925
2150+51.94	1	1222.5	1843.18	1843.2	1	383.22	835.22	835.22	35933
2151+00.00	1	577.31	1601.84	1601.8	1	126.55	453.69	453.69	37082
2152+00.00	1	1743.7	4298.17	4298.2	1	20.13	271.61	271.61	41108
2153+00.00	1	1199.2	5449.83	5449.8	1	19.02	72.5	72.5	46485
2154+00.00	1	41.63	2297.85	2297.9	1	1721.5	3223.1	3223.1	45560
2155+00.00	1	51.86	173.14	173.14	1	2324.8	7493.1	7493.1	38240
2156+00.00	1	156	384.93	384.93	1	2555.1	9036.9	9036.9	29588
2157+00.00	1	173.37	609.95	609.95	1	1522.2	7550.5	7550.5	22648
2158+00.00	1	183.84	661.51	661.51	1	731.53	4173.5	4173.5	19136
2159+00.00	1	247.79	799.32	799.32	1	62.74	1470.9	1470.9	18464
2160+00.00	1	976.19	2266.63	2266.6	1	0	116.19	116.19	20615

Grand Total:

86485

65870

Beg to 2112+00 2363.1
2112+00 to 2125+00 48435

End Area Volume Report

Report Created: Tuesday, April 21, 2026
Time: 1:34:56 PM

Section Set Name: SB US 93
Alignment Name: US 93 SB
Input Grid Factor: Note: All units in this report are in feet, square feet and cubic yards unless specified

Baseline Station	----- Station Quantities -----								Mass Ordinat
	----- Cut -----				----- Fill -----				
	Facto	Area	Volume	Adjuste	Facto	Area	Volum	Adjuste	
178+50.15	1	1014.5	0	0	1	0	0	0	0
179+00.00	1	1269.5	2108.47	2108.5	1	0.06	0.05	0.05	2108.4
180+00.00	1	1199.4	4572.01	4572	1	0	0.1	0.1	6680.3
181+00.00	1	1615.9	5213.51	5213.5	1	0	0	0	11894
182+00.00	1	762.88	4405.19	4405.2	1	0.37	0.68	0.68	16298
183+00.00	1	826.41	2943.14	2943.1	1	0	0.68	0.68	19241
184+00.00	1	1222.3	3793.87	3793.9	1	0	0	0	23035
185+00.00	1	567.88	3315.11	3315.1	1	0.45	0.84	0.84	26349
186+00.00	1	690.95	2331.17	2331.2	1	0	0.84	0.84	28679
187+00.00	1	1307.3	3700.39	3700.4	1	0	0	0	32380
188+00.00	1	1585.9	5357.73	5357.7	1	0	0	0	37737
189+00.00	1	1037.1	4857.4	4857.4	1	0	0	0	42595
190+00.00	1	45.53	2004.83	2004.8	1	190.4	352.5	352.5	44247
Grand Total:			44602.82	44603			355.69	355.69	

Phase 4B Perm Paving						
Beg Sta	End Sta	Length (Ft)	Avg Area (SqFt)	Volume (CuFt)	Volume (CuYd)	Notes
2140+20.00	2141+00.00	80	101	8080	300	No fill within Sta range; Subtract cut from Phase 3

Phase 5 Perm Paving						
Beg Sta	End Sta	Length (Ft)	Avg Area (SqFt)	Volume (CuFt)	Volume (CuYd)	Notes
2109+75.00	2114+27.00	452	28	12656	469	No fill within Sta range; Subtract cut from Phase 2
2110+60.00	2115+06.00	446	37	16502	612	No fill within Sta range; Subtract cut from Phase 3

End Area Volume Report

Report Created: Tuesday, April 28, 2026
Time: 9:05:48 AM

ross Section Set Name: US93 Temp Paving 1
Alignment Name: US 93_F0125
Input Grid Factor: Note: All units in this report are in feet, square feet
and cubic yards unless specified otherwise.

Baseline Station	----- Station Quantities -----									
	----- Cut -----					----- Fill -----				Mass
	Facto	Area	Volume	Adjuste	Facto	Area	Volum	Adjuste	Ordinat	
2113+88.85	1	0.58	0	0	1	0	0	0	0	0
2114+00.00	1	1.78	0.49	0.49	1	0.5	0.1	0.1	0.38	
2115+00.00	1	5.1	12.74	12.74	1	3	6.48	6.48	6.64	
2115+71.36	1	4.86	16.69	16.69	1	9.35	21.54	21.54	0	
2116+00.00	1	4.76	18.27	18.27	1	11.9	27.58	27.58	-2.67	
2117+00.00	1	4.35	16.87	16.87	1	9.06	38.81	38.81	-24.61	
2118+00.00	1	4.83	16.98	16.98	1	8.16	31.9	31.9	-39.52	
2119+00.00	1	4.07	16.47	16.47	1	11.3	36.1	36.1	-59.15	
2120+00.00	1	4.4	15.68	15.68	1	11.5	42.23	42.23	-85.7	
2121+00.00	1	6.92	20.95	20.95	1	8.69	37.33	37.33	-102.08	
2122+00.00	1	5.98	23.89	23.89	1	18.4	50.07	50.07	-128.27	
2123+00.00	1	5.46	21.18	21.18	1	77.3	177.15	177.15	-284.24	
2124+00.00	1	3.5	16.58	16.58	1	10.7	162.97	162.97	-430.62	
2125+00.00	1	4.05	13.98	13.98	1	2.03	23.55	23.55	-440.18	
2126+00.00	1	3.37	13.74	13.74	1	1.06	5.71	5.71	-432.16	
2127+00.00	1	3.59	12.88	12.88	1	0.03	2.01	2.01	-421.29	
2128+00.00	1	2.86	11.94	11.94	1	0.01	0.07	0.07	-409.42	
2128+83.65	1	2.09	7.66	7.66	1	0.01	0.03	0.03	-401.79	
Grand Total:			240.3	240.3			642.09	642.09		

End Area Volume Report

Report Created: Tuesday, April 21, 2026
Time: 12:57:32 PM

ross Section Set Name: US93 Temp Paving 2
Alignment Name: US 93_F0125
Input Grid Factor: Note: All units in this report are in feet, square feet
and cubic yards unless specified otherwise.

Baseline Station	----- Station Quantities -----								Mass Ordinat
	----- Cut -----				----- Fill -----				
	Facto	Area	Volume	Adjuste	Facto	Area	Volum	Adjuste	
2132+47.73	1	0.4	0	0	1	0	0	0	0
2133+00.00	1	2.86	3.15	3.15	1	0.14	0.14	0.14	3.01
2134+00.00	1	2.9	10.66	10.66	1	0.63	1.42	1.42	12.25
2135+00.00	1	4.12	12.99	12.99	1	2.49	5.77	5.77	19.47
2136+00.00	1	4.38	15.74	15.74	1	6.42	16.51	16.51	18.7
2136+54.66	1	3.76	14.85	14.85	1	13.7	33.9	33.9	0
2137+00.00	1	3.24	14.12	14.12	1	19.7	48.33	48.33	-15.51
2138+00.00	1	6.56	18.15	18.15	1	13.4	61.24	61.24	-58.6
2139+00.00	1	4.92	21.27	21.27	1	14.3	51.31	51.31	-88.65
2140+00.00	1	6.68	21.49	21.49	1	5.98	37.59	37.59	-104.74
2140+30.00	1	15.56	12.36	12.36	1	0.01	3.33	3.33	-95.72
Grand Total:			129.93	129.93			225.64	225.64	

End Area Volume Report

Report Created: Tuesday, April 21, 2026
Time: 1:02:32 PM

ross Section Set Name: US93 Temp Paving 3
Alignment Name: US 93_F0125
Input Grid Factor: Note: All units in this report are in feet, square feet
and cubic yards unless specified otherwise.

Baseline Station	----- Station Quantities -----									
	----- Cut -----					----- Fill -----				Mass
	Facto	Area	Volume	Adjuste	Facto	Area	Volum	Adjuste	Ordinat	
2140+91.06	1	9.18	0	0	1	0.78	0	0	0	0
2141+00.00	1	6.76	2.64	2.64	1	3.47	0.7	0.7	1.94	
2141+11.39	1	6.35	4.44	4.44	1	4.86	4.66	4.66	0	
2142+00.00	1	3.21	18.47	18.47	1	15.7	35.46	35.46	-15.06	
2143+00.00	1	4.02	13.4	13.4	1	12.6	52.35	52.35	-54	
2144+00.00	1	4.52	15.83	15.83	1	8.48	39.01	39.01	-77.19	
2145+00.00	1	3.49	14.84	14.84	1	9.89	34.02	34.02	-96.36	
2146+00.00	1	2.28	10.7	10.7	1	1.88	21.79	21.79	-107.45	
2146+10.85	1	0	0.46	0.46	1	0.21	0.42	0.42	-107.41	
Grand Total:			76.34	76.34			183.75	183.75		

End Area Volume Report

Report Created: Tuesday, April 21, 2026
Time: 1:23:20 PM

ross Section Set Name: US93 Temp Paving 4

Alignment Name: RdEoP9

Input Grid Factor: Note:

All units in this report are in feet, square feet
and cubic yards unless specified otherwise.

Baseline Station	----- Station Quantities -----									
	----- Cut -----			----- Fill -----			Mass			
	Factor	Area	Volume	Adjusted	Factor	Area	Volume	Adjusted	Ordinate	
0+00.00	1	0	0	0	1	0	0	0	0	
1+00.00	1	6.47	11.98	11.98	1	2.55	4.72	4.72	7.26	
1+66.52	1	7.14	21.18	21.18	1	12.4	26.01	26.01	0	
2+00.00	1	7.47	25.82	25.82	1	17.3	36.73	36.73	-3.65	
3+00.00	1	5.44	23.92	23.92	1	32.9	92.89	92.89	-72.62	
4+00.00	1	5.27	19.84	19.84	1	5.77	71.57	71.57	-124.35	
5+00.00	1	7.97	24.53	24.53	1	0.44	11.49	11.49	-111.31	
6+00.00	1	12.71	38.3	38.3	1	0.05	0.91	0.91	-73.92	
7+00.00	1	6.01	34.66	34.66	1	2.12	4.03	4.03	-43.29	
8+00.00	1	4.45	19.36	19.36	1	1.12	6.02	6.02	-29.95	
9+00.00	1	5.31	18.07	18.07	1	0.15	2.37	2.37	-14.25	
9+84.92	1	4.16	15.42	15.42	1	0.22	0.67	0.67	0	
9+87.71	1	4.13	15.33	15.33	1	0.23	0.62	0.62	0.47	
Grand Total:			231.8	231.8			231.33	231.33		

End Area Volume Report

Report Created: Tuesday, April 21, 2026
Time: 1:25:32 PM

ross Section Set Name: SR 89 Temp Paving 1
Alignment Name: Detour_US 93_Phase 2
Input Grid Factor: **Note:** All units in this report are in feet, square feet
and cubic yards unless specified otherwise.

Baseline Station	----- Station Quantities -----									
	----- Cut -----					----- Fill -----				Mass
	Facto	Area	Volume	Adjuste	Facto	Area	Volum	Adjuste		Ordinat
224+16.84	1	0.97	0	0	1	0.08	0	0		0
225+00.00	1	4.19	7.95	7.95	1	14.95	23.15	23.15		-15.2
226+00.00	1	6.06	18.99	18.99	1	3.55	34.26	34.26		-30.48
227+00.00	1	4.75	20.03	20.03	1	12.84	30.36	30.36		-40.8
228+00.00	1	5.79	19.54	19.54	1	9.24	40.9	40.9		-62.16
229+00.00	1	5.28	20.5	20.5	1	3.85	24.25	24.25		-65.91
230+00.00	1	4.82	18.7	18.7	1	4.77	15.96	15.96		-63.17
231+00.00	1	10.25	27.91	27.91	1	0.41	9.59	9.59		-44.85
232+00.00	1	10.46	38.36	38.36	1	0.21	1.15	1.15		-7.64
232+26.05	1	9.59	36.84	36.84	1	0.55	1.68	1.68		0
233+00.00	1	7.1	32.52	32.52	1	1.52	3.2	3.2		21.68
234+00.00	1	7.9	27.77	27.77	1	1.29	5.2	5.2		44.25
235+00.00	1	7.19	27.94	27.94	1	5.19	12	12		60.2
236+00.00	1	7.51	27.22	27.22	1	0.64	10.8	10.8		76.62
237+00.00	1	38.77	85.7	85.7	1	0.24	1.62	1.62		160.71
238+00.00	1	67.59	196.98	196.98	1	0	0.44	0.44		357.25
239+00.00	1	79.44	272.28	272.28	1	0	0	0		629.53
240+00.00	1	11.68	168.74	168.74	1	0.58	1.08	1.08		797.19
241+00.00	1	10.77	41.58	41.58	1	90.95	169.5	169.5		669.26
242+00.00	1	5.91	30.89	30.89	1	178.1	498.15	498.15		202
242+63.37	1	0.48	9.43	9.43	1	14.35	249.07	249.07		0
242+68.92	1	0	7.55	7.55	1	0	227.24	227.24		-17.7
Grand Total:			1091.16	1091.2			1108.9	1108.9		

End Area Volume Report

Report Created: Tuesday, April 7, 2026
Time: 2:06:28 PM

Section Set Name: US 93 Perm Paving Phase 2

Alignment Name: US 93_F0125

Input Grid Factor: Note: feet and cubic yards unless specified otherwise.

Baseline Station	----- Station Quantities -----										Mass Ordinat
	----- Cut -----					----- Fill -----					
	Facto	Area	Volume	Adjusted	Facto	Area	Volume	Adjuste			
2109+75.28	1	2497	0	0	1	3.03	0	0	0	0	
2110+00.00	1	76.59	1178.16	1178.16	1	1.05	1.87	1.87	1176.3		
2111+00.00	1	81.26	292.33	292.33	1	0.39	2.66	2.66	1466		
2112+00.00	1	368.1	832.08	832.08	1	0.03	0.78	0.78	2297.3		
2113+00.00	1	1119	2752.89	2752.89	1	0	0.06	0.06	5050.1		
2114+00.00	1	1028	3975.85	3975.85	1	0	0	0	9026		
2115+00.00	1	940.3	3645.82	3645.82	1	0	0	0	12672		
2116+00.00	1	1043	3672.58	3672.58	1	0	0	0	16344		
2117+00.00	1	967.4	3722.84	3722.84	1	0.02	0.05	0.05	20067		
2118+00.00	1	892.2	3443.66	3443.66	1	0.12	0.27	0.27	23511		
2119+00.00	1	906.7	3331.19	3331.19	1	1.28	2.59	2.59	26839		
2120+00.00	1	909.1	3362.65	3362.65	1	0	2.37	2.37	30199		
2121+00.00	1	938.8	3422.13	3422.13	1	0	0	0	33622		
2122+00.00	1	709.7	3052.76	3052.76	1	3.73	6.9	6.9	36667		
2123+00.00	1	899.1	2979.14	2979.14	1	4.05	14.4	14.4	39632		
2124+00.00	1	839.7	3219.83	3219.83	1	10.98	27.84	27.84	42824		
2125+00.00	1	63.65	1672.8	1672.8	1	26.7	69.79	69.79	44427		
2126+00.00	1	56.45	222.41	222.41	1	327.4	655.79	655.79	43994		
2127+00.00	1	155.1	391.69	391.69	1	251.6	1072.2	1072.2	43313		
2128+00.00	1	114.9	499.95	499.95	1	259.8	946.96	946.96	42866		
2129+00.00	1	55.39	315.37	315.37	1	272.2	985.11	985.11	42196		
2130+00.00	1	0	102.58	102.58	1	211.6	895.77	895.77	41403		
2131+00.00	1	0	0	0	1	162.9	693.49	693.49	40710		
2132+00.00	1	0	0	0	1	95.39	478.38	478.38	40231		
2133+00.00	1	0	0	0	1	73.76	313.24	313.24	39918		
2134+00.00	1	10.84	20.07	20.07	1	55.88	240.07	240.07	39698		
2135+00.00	1	27.32	70.67	70.67	1	61.92	218.15	218.15	39551		
2136+00.00	1	43.31	130.81	130.81	1	77.51	258.21	258.21	39423		
2137+00.00	1	58.81	189.13	189.13	1	110.4	347.97	347.97	39264		
2138+00.00	1	78.14	253.61	253.61	1	102.5	394.28	394.28	39124		
2139+00.00	1	88.89	309.31	309.31	1	99.59	374.28	374.28	39059		
2140+00.00	1	105.8	360.58	360.58	1	62.95	301	301	39118		
2141+00.00	1	129.3	435.49	435.49	1	68.48	243.39	243.39	39311		
2142+00.00	1	37.67	309.28	309.28	1	115.8	341.31	341.31	39278		
2143+00.00	1	32.99	130.85	130.85	1	157.9	506.87	506.87	38902		
2144+00.00	1	28.14	113.21	113.21	1	166.1	600.03	600.03	38416		
2145+00.00	1	39.7	125.64	125.64	1	169.8	622.12	622.12	37919		
2146+00.00	1	44.22	155.42	155.42	1	124.5	544.96	544.96	37530		
2147+00.00	1	139.7	340.62	340.62	1	157.5	522.05	522.05	37348		
2148+00.00	1	157.2	549.91	549.91	1	529.9	1272.8	1272.8	36625		
2149+00.00	1	1291	2681.79	2681.79	1	1064	2952	2952	36355		
2150+00.00	1	410.8	3151.37	3151.37	1	549.1	2987.6	2987.6	36519		
2151+00.00	1	525.2	1733.38	1733.38	1	88.8	1181.4	1181.4	37071		
2152+00.00	1	1721	4160.37	4160.37	1	11.54	185.81	185.81	41045		
2153+00.00	1	1149	5315.95	5315.95	1	19	56.56	56.56	46305		
2154+00.00	1	0	2128.19	2128.19	1	1720	3220.4	3220.4	45213		
2155+00.00	1	0	0	0	1	2311	7464.9	7464.9	37748		
2156+00.00	1	0	0	0	1	2499	8907.6	8907.6	28840		
2157+00.00	1	0	0	0	1	1504	7413.8	7413.8	21426		
2158+00.00	1	0	0	0	1	705.2	4091.9	4091.9	17335		
2159+00.00	1	46	85.19	85.19	1	61.63	1420.1	1420.1	16000		
2160+00.00	1	788	1544.39	1544.39	1	0	114.13	114.13	17430		
2161+00.00	1	1129	3549.56	3549.56	1	0	0	0	20979		
2162+00.00	1	597.5	3196.75	3196.75	1	0	0	0	24176		
2163+00.00	1	716.3	2432.83	2432.83	1	0	0	0	26609		
2164+00.00	1	760.7	2735.05	2735.05	1	0	0	0	29344		
2165+00.00	1	1113	3470.61	3470.61	1	0.01	0.01	0.01	32815		
2166+00.00	1	1096	4091.68	4091.68	1	0	0.01	0.01	36906		
2167+00.00	1	433.9	2833.16	2833.16	1	0	0	0	39740		
2168+00.00	1	1107	2852.87	2852.87	1	0	0	0	42592		
2169+00.00	1	1440	4716.28	4716.28	1	0	0	0	47309		
2170+00.00	1	1491	5427.32	5427.32	1	0.08	0.15	0.15	52736		
2171+00.00	1	642.8	3950.76	3950.76	1	0	0.15	0.15	56686		
2171+57.45	1	0	683.85	683.85	1	0	0	0	57370		

	Beg to 2160+00	70383.94	2125+00 to 2160+00	52954.06
	NB US 93	39940.72	NB US 93	0.32
Grand Total:	110325.19	110325	52977	52954

End Area Volume Report

Report Created: Tuesday, February 24, 2026
Time: 8:56:06 AM

Loss Section Set Name: US 93 Phase 2 Temp paving 1
Alignment Name: US 93_F0125
Input Grid Factor: Note: feet and cubic yards unless specified otherwise.

Baseline Station	----- Station Quantities -----									
	----- Cut -----				----- Fill -----				Mass	
	Facto	Area	Volume	Adjuste	Facto	Are	Volum	Adjuste	Ordinat	
2135+53.77	1	0	0	0	1	5.3	0	0	0	
2136+00.00	1	0	0	0	1	3.3	7.4	7.4	-7.4	
2137+00.00	1	0.5	0.92	0.92	1	1.2	8.35	8.35	-14.83	
2138+00.00	1	3.95	8.23	8.23	1	0.2	2.58	2.58	-9.18	
2138+49.73	1	5.09	13.52	13.52	1	0.1	1.5	1.5	0	
2139+00.00	1	6.24	18.87	18.87	1	0	0.41	0.41	9.28	
2140+00.00	1	9.3	28.8	28.8	1	0	0.03	0.03	38.04	
2141+00.00	1	19.76	53.83	53.83	1	0	0	0	91.87	
2142+00.00	1	20.97	75.44	75.44	1	0	0	0	167.31	
2143+00.00	1	11.24	59.66	59.66	1	0.3	0.5	0.5	226.47	
2144+00.00	1	6.4	32.67	32.67	1	1	2.39	2.39	256.75	
2145+00.00	1	4.43	20.06	20.06	1	0.4	2.66	2.66	274.15	
2145+34.10	1	3	4.7	4.7	1	0.4	0.48	0.48	278.36	
Grand Total:			303.17	303.17			24.81	24.81		

End Area Volume Report

Report Created: Tuesday, April 7, 2026
Time: 1:50:22 PM

ross Section Set Name: US 93 Phase 2 Temp Paving 2
Alignment Name: US 93_F0125
Input Grid Factor: **Note:** All units in this report are in feet, square feet
and cubic yards unless specified otherwise.

Baseline Station	----- Station Quantities -----									
	----- Cut -----					----- Fill -----				Mass
	Facto	Area	Volume	Adjuste	Facto	Area	Volum	Adjuste	Ordinat	
2145+77.75	1	0.75	0	0	1	0.68	0	0	0	0
2146+00.00	1	0.42	0.48	0.48	1	1.04	0.71	0.71	-0.23	
2147+00.00	1	0.34	1.41	1.41	1	93.34	174.79	174.79	-173.6	
2148+00.00	1	0	0.63	0.63	1	228.5	596.08	596.08	-769.05	
2149+00.00	1	0.05	0.1	0.1	1	81.85	574.79	574.79	-1343.7	
2150+00.00	1	0	0.1	0.1	1	44.34	233.67	233.67	-1577.3	
2150+12.71	1	0	0	0	1	0	10.43	10.43	-1587.8	
Grand Total:			2.73	2.73			1590.5	1590.5		

End Area Volume Report

Report Created: Tuesday, February 24, 2026
Time: 9:30:58 AM

ross Section Set Name: US 93 Phase 3 Temp Paving 1
Alignment Name: US 93_F0125
Input Grid Factor: Note: All units in this report are in feet, square feet
and cubic yards unless specified otherwise.

Baseline Station	----- Station Quantities -----									
	----- Cut -----					----- Fill -----				Mass
	Facto	Area	Volume	Adjuste	Facto	Area	Volum	Adjuste	Ordinat	
2144+17.30	1	0	0	0	1	6.36	0	0	0	0
2145+00.00	1	0.56	0.86	0.86	1	4.43	16.51	16.51	-15.66	
2146+00.00	1	0	1.04	1.04	1	15	35.92	35.92	-50.54	
2146+73.12	1	0	0	0	1	43	78.5	78.5	-129.04	
Grand Total:			1.89	1.89			130.93	130.93		

Stockpile Excavation End Area Volumes		
Sta	Area (SqFt)	End Area Volume (CY)
2112+00.00	0	0
2113+00.00	1046	1937
2114+00.00	954	3704
2115+00.00	859	3357
2116+00.00	970	3387
2117+00.00	903	3469
2118+00.00	832	3213
2119+00.00	842	3100
2120+00.00	849	3131
2121+00.00	879	3200
2122+00.00	666	2861
2123+00.00	878	2859
2124+00.00	831	3165
2125+00.00	656	2754

Total (CY) 40,137



Project: F0738 US93

Subject: Drainage & Riprap Excavation Backup

Computed: J. Lopez

Checked: Z. Zaragoza

Date: 4/30/2026

Date: 5/6/2026

Sheet	Drainage Ex (Cy)	Riprap Ex (Cy)
Detail DR: Riprap Basin	160	88
Detail DS: Basin	20,634*	-
Detail DV: Intercepted Drainage	15	18
Detail D1: Pipe 105	590*	-
Detail D22: PE2	3*	-
Detail D24: Pipe 122	223*	-
Detail D25: PE4	6*	-
D-3.04: Pipe 116	10*	-
C-3.05: SR89 - US93 Ditch	351*	-
C-3.07: SR89 - US93 Ditch	141*	12
Total=	22,133	118

*See End Area Volume Report in Exhibit A

End Area Volume Report

Report Created: Wednesday, December 10, 2025
Time: 9:49:14 AM

Cross Section: WRW Crown Ditch
Alignment: Wickenburg Ranch Way
Input Grid Factor: Note: All units in this report are in feet, square feet and cubic yards unless specified otherwise

Baseline	----- Station Quantities -----									
Station	----- Cut -----				----- Fill -----				Mass	
	Factor	Area	Volume	Adjusted	Factor	Area	Volume	Adjusted	Ordnate	
68+70.00	1	145.79	0	0	1	0	0	0	0	0
69+00.00	1	145.97	162.09	162.09	1	0	0	0	0	162.09
70+00.00	1	133.56	517.64	517.64	1	0	0	0	0	679.73
71+00.00	1	91	415.85	415.85	1	0	0	0	0	1095.58
72+00.00	1	90.78	336.62	336.62	1	0	0	0	0	1432.2
73+00.00	1	75.22	307.4	307.4	1	0	0	0	0	1739.6
74+00.00	1	18.49	173.54	173.54	1	0	0	0	0	1913.14
74+60.25	1	3.82	24.89	24.89	1	0	0	0	0	1938.03
Grand Total:			1938.03	1938.03				0	0	

End Area Volume Report

Report Created: Wednesday, February 18, 2026
Time: 3:27:23 PM

Section Set Name: Basin - Matthie Ranch Rd and Wickenburg Ranch
Alignment Name: Basin - Matthie Ranch Rd and Wickenburg Ranch
Input Grid Factor: **Note:** feet and cubic yards unless specified otherwise.

Baseline Station	----- Station Quantities -----							
	----- Cut -----				----- Fill -----			
	Facto	Area	Volume	Adjuste	Facto	Area	Volum	Adjuste
0+00.00	1	0	0	0	1	0	0	0
0+20.00	1	0	0	0	1	0	0	0
0+40.00	1	0	0	0	1	0	0	0
0+60.00	1	0	0	0	1	0	0	0
0+80.00	1	0	0	0	1	0	0	0
1+00.00	1	0	0	0	1	0	0	0
1+20.00	1	0	0	0	1	0	0	0
1+40.00	1	0	0	0	1	0	0	0
1+60.00	1	531.6	196.89	196.89	1	0	0	0
1+80.00	1	584.98	413.55	413.55	1	0	0	0
2+00.00	1	634.94	451.82	451.82	1	0	0	0
2+20.00	1	673.18	484.49	484.49	1	0	0	0
2+40.00	1	794.42	543.55	543.55	1	0	0	0
2+60.00	1	779.83	583.05	583.05	1	0	0	0
2+80.00	1	805.64	587.21	587.21	1	0	0	0
3+00.00	1	734.03	570.25	570.25	1	0	0	0
3+20.00	1	676.21	522.31	522.31	1	0	0	0
3+40.00	1	722.52	518.05	518.05	1	0	0	0
3+60.00	1	837.31	577.72	577.72	1	0	0	0
3+80.00	1	717.67	575.92	575.92	1	0	0	0
4+00.00	1	539.39	465.58	465.58	1	0	0	0
4+20.00	1	678.62	451.12	451.12	1	0	0	0
4+40.00	1	1038.4	635.92	635.92	1	0	0	0
4+60.00	1	941.41	733.25	733.25	1	0	0	0
4+80.00	1	1220.5	800.71	800.71	1	0	0	0
5+00.00	1	1370.4	959.58	959.58	1	0	0	0
5+20.00	1	1456.1	1046.83	1046.8	1	0	0	0
5+40.00	1	1546.4	1112.04	1112	1	0	0	0
5+60.00	1	1574.7	1155.95	1156	1	0	0	0
5+80.00	1	1415.1	1107.3	1107.3	1	0	0	0
6+00.00	1	1287.3	1000.86	1000.9	1	0	0	0
6+20.00	1	1144.2	900.54	900.54	1	0	0	0
6+40.00	1	995.7	792.54	792.54	1	0	0	0
6+60.00	1	904.67	703.84	703.84	1	0	0	0
6+80.00	1	1018.3	712.22	712.22	1	0	0	0
7+00.00	1	1193.4	819.14	819.14	1	0	0	0
7+20.00	1	869.48	764.02	764.02	1	0	0	0
7+40.00	1	169.71	384.88	384.88	1	0	0	0
7+60.00	1	0	62.85	62.85	1	0	0	0
7+80.00	1	0	0	0	1	0	0	0
8+00.00	1	0	0	0	1	0	0	0
8+20.00	1	0	0	0	1	0	0	0
8+22.78	1	0	0	0	1	0	0	0
Grand Total:			20634	20634			0	0

End Area Volume Report

Report Created: Wednesday, February 18, 2026
Time: 4:11:24 PM

Cross Section Set Name: 89 to 93 Ditch
Alignment Name: Basin Bottom
Input Grid Factor: Note: feet and cubic yards unless specified otherwise.

Baseline Station	----- Station Quantities -----									
	----- Cut -----				----- Fill -----				Mass Ordinat	
	Facto	Area	Volume	Adjuste	Facto	Are	Volum	Adjuste		
0+00.00	1	2.43	0	0	1	0	0	0	0	0
0+50.00	1	6.63	8.39	8.39	1	0.2	0.22	0.22	8.17	
1+00.00	1	24.37	28.71	28.71	1	0	0.22	0.22	36.66	
1+50.00	1	53.57	72.17	72.17	1	0	0.01	0.01	108.82	
2+00.00	1	50.51	96.38	96.38	1	0	0.01	0.01	205.18	
2+50.00	1	27.32	72.07	72.07	1	5.2	4.79	4.79	272.46	
3+00.00	1	23.98	47.5	47.5	1	0	4.79	4.79	315.17	
3+50.00	1	2.06	24.11	24.11	1	0.3	0.26	0.26	339.01	
4+00.00	1	0.32	2.2	2.2	1	0	0.26	0.26	340.95	
4+50.00	1	1.56	1.74	1.74	1	0	0.02	0.02	342.68	
5+00.00	1	5.26	6.32	6.32	1	0	0.02	0.02	348.98	
5+50.00	1	14.49	18.29	18.29	1	0	0	0	367.26	
6+00.00	1	14.82	27.14	27.14	1	0	0	0	394.4	
6+50.00	1	10.91	23.82	23.82	1	0	0	0	418.22	
7+00.00	1	9.97	19.33	19.33	1	0	0	0	437.55	
7+50.00	1	14.69	22.84	22.84	1	0.1	0.05	0.05	460.34	
7+83.12	1	19.96	21.26	21.26	1	0	0.03	0.03	481.56	
Grand Total:			492.27	492.27			10.71	10.71		

End Area Volume Report

Report Created: Wednesday, March 25, 2026
Time: 5:04:32 PM

ross Section Set Name: DBC3
Alignment Name: DBC3
Input Grid Factor: **Note:** All units in this report are in feet, square feet
and cubic yards unless specified otherwise.

Baseline Station	----- Station Quantities -----									
	----- Cut -----					----- Fill -----				Mass
	Facto	Area	Volume	Adjuste	Facto	Are	Volum	Adjuste	Ordinat	
0+00.00	1	0		0	0	1	0	0	0	0
0+10.00	1	348.78		64.59	64.59	1	0	0	0	64.59
0+20.00	1	190.59		99.88	99.88	1	0	0	0	164.47
0+30.00	1	63.587		47.07	47.07	1	0	0	0	211.54
0+40.00	1	0		11.78	11.78	1	0	0	0	223.32
0+45.39	1	0		0	0	1	0	0	0	223.32
Grand Total:			223.32	223.32			0	0		

End Area Volume Report

Report Created: Wednesday, March 25, 2026
Time: 5:03:25 PM

ross Section Set Name: DBC5
Alignment Name: DBC5
Input Grid Factor: **Note:** All units in this report are in feet, square feet
and cubic yards unless specified otherwise.

Baseline Station	----- Station Quantities -----									
	----- Cut -----				----- Fill -----				Mass	
	Facto	Area	Volume	Adjuste	Facto	Are	Volum	Adjuste	Ordinat	
0+00.00	1	17.05		0	0	1	0	0	0	0
0+10.00	1	0		3.16	3.16	1	0	0	0	3.16
0+20.00	1	0		0	0	1	0	0	0	3.16
0+21.76	1	0		0	0	1	0	0	0	3.16
Grand Total:				3.16	3.16			0	0	

End Area Volume Report

Report Created: Wednesday, March 25, 2026
Time: 5:06:16 PM

ross Section Set Name: DBC6
Alignment Name: DBC6
Input Grid Factor: **Note:** All units in this report are in feet, square feet
and cubic yards unless specified otherwise.

Baseline Station	----- Station Quantities -----										
	----- Cut -----					----- Fill -----					Mass Ordinat
	Facto	Area	Volume	Adjuste	Facto	Are	Volum	Adjuste			
0+00.00	1	22.85	0	0	1	0	0	0	0	0	
0+10.00	1	4.94	5.15	5.15	1	0	0	0	0	5.15	
0+20.00	1	0	0.91	0.91	1	0	0	0	0	6.06	
0+30.00	1	0	0	0	1	0	0	0	0	6.06	
0+40.00	1	0	0	0	1	0	0	0	0	6.06	
0+49.06	1	0	0	0	1	0	0	0	0	6.06	
Grand Total:			6.06	6.06			0	0			

End Area Volume Report

Report Created: Wednesday, April 29, 2026
Time: 1:48:21 PM

ross Section Set Name: Pipe 116
Alignment Name: DBC
Input Grid Factor: **Note:** All units in this report are in feet, square feet
and cubic yards unless specified otherwise.

Baseline Station	----- Station Quantities -----									
	----- Cut -----					----- Fill -----				Mass
	Facto	Area	Volume	Adjuste	Facto	Area	Volum	Adjuste	Ordinat	
0+00.00	1	11.74		0	0	1	0	0	0	0
0+05.00	1	16.36		2.6	2.6	1	0	0	0	2.6
0+10.00	1	13.68		2.78	2.78	1	0	0	0	5.38
0+15.00	1	9.203		2.12	2.12	1	0.01	0	0	7.5
0+20.00	1	5.973		1.41	1.41	1	0	0	0	8.91
0+25.00	1	2.919		0.82	0.82	1	0	0	0	9.73
0+30.00	1	0		0.27	0.27	1	0	0	0	10
0+35.00	1	0		0	0	1	0	0	0	10
0+38.00	1	0		0	0	1	0	0	0	10
Grand Total:				10	10			0	0	

End Area Volume Report

Report Created: Wednesday, February 18, 2026
Time: 4:13:07 PM

ross Section Set Name: Pipe 105 Outlet
Alignment Name: Basin Bottom
Input Grid Factor: Note: All units in this report are in feet, square feet
and cubic yards unless specified otherwise.

Baseline Station	----- Station Quantities -----									
	----- Cut -----					----- Fill -----				Mass
	Facto	Area	Volume	Adjuste	Facto	Are	Volum	Adjuste	Ordinat	
0+00.00	1	114.9	0	0	1	0	0	0	0	0
0+20.00	1	97.85	78.79	78.79	1	0	0	0	0	78.79
0+40.00	1	102.7	74.26	74.26	1	0	0	0	0	153.05
0+60.00	1	93.07	72.49	72.49	1	0	0	0	0	225.54
0+80.00	1	66.55	59.12	59.12	1	0	0	0	0	284.65
1+00.00	1	62.68	47.86	47.86	1	0	0	0	0	332.52
1+20.00	1	58.28	44.8	44.8	1	0	0	0	0	377.32
1+40.00	1	62.17	44.61	44.61	1	0	0	0	0	421.93
1+60.00	1	62.41	46.14	46.14	1	0	0	0	0	468.07
1+80.00	1	67.11	47.97	47.97	1	0	0	0	0	516.04
2+00.00	1	72.31	51.63	51.63	1	0	0	0	0	567.67
2+08.60	1	69.73	22.62	22.62	1	0	0	0	0	590.29
Grand Total:			590.29	590.29			0	0		



Project: Wickenburg Ranch Way to Vista Royale
Subject: Pipe Berms
Detail: C-03.10
OpenRoads Link: [F0125_Berm](#)

Computed: J. Lopez **Date:** 2/10/2026
Checked: Z. Zaragoza **Date:** 5/6/2026

Pipe: 134
Roadway Alignment: Sta 8+53 Matthe Ranch Rd

Pipe Alg Station	Area (SF)	Area (SY)	Volume (CY)
-0+48.00	0.000	0	0
-0+46.00	0.000	0	7
-0+44.00	59.731	7	13
-0+42.00	53.176	6	12
-0+40.00	47.407	6	11
-0+38.00	41.757	5	9
-0+36.00	35.606	4	8
-0+34.00	30.803	4	7
-0+32.00	24.969	3	6
-0+30.00	19.691	3	5
-0+28.00	13.396	2	4
-0+26.00	10.180	2	3
-0+24.00	6.933	1	2
-0+22.00	3.419	1	2
-0+20.00	2.350	1	0
Total Fill:			89

REINFORCED CONCRETE BOX CULVERTS
US 93 - Wickenburg Ranch to SR 89

								Upstream		Downstream		
Culvert Number	Culvert Location	Number Barrels	Barrel Span (ft)	Barrel Height (ft)	Length (ft)	Top Slab (in)	Wall (in)	Invert Elevation	Ground Elevation	Invert Elevation	Ground Elevation	Excavation (yd^3)
BE 1	Lt	2	6	7	48	10	13	2430.88	2430.82	2430.72	2431.81	67
BE 1	Lt	2	6	7	135	10	13	2431.31	2431.50	2430.88	2430.82	110
											TOTALS	177

Standards: SD 6.02, 6.08, 6.11

Wickenburg Ranch Road Terminus Embankment					
Section	Area (SqFt)	Length (ft)	Volume (CuFt)	Volume (CuYd)	Notes
1	764.6	34	25996.4	963	Avg Xsection Area = 764.6
2	78.4	120	9408	349	Avg Xsection Area = 78.4
3	76.875	120	9225	342	Havg=6.15'; Lavg=25'

WRW Terminus Total 1654

Wickenburg Ranch Road - Matthe Ranch Road Berm Embankment					
Section	Area (SqFt)	Length (ft)	Volume (CuFt)	Volume (CuYd)	Notes
4	466.2	170	79254	2936	Avg Xsection Area = 466.2

Berm Total 2936

EXHIBIT B

GROUND COMPACTION

Description: “Ground Compaction” results in an unexcavated void that needs to be filled in with embankment material when filling on existing ground. Therefore, this quantity is added to the “Total Embankment” quantity.

Ground Compaction Calculations			
	Embankment Area (SqFt)	Ground Compaction Factor (Ft)	Ground Compaction (CY)
Phase 1	167,482.7	0.1	620
Phase 2	101,279.5	0.2	750
Phase 3	57,836.4	0.2	428
Phase 4A	2,590.1	0.2	19
Phase 4B	0.0	0.2	0
Phase 5	0.0	0.2	0
Total			1817

See 100% F0125 RDWY QTY.dgn
 Model: Ground Compaction

EXHIBIT C

PIPE EXCAVATION & BACKFILL

Description: “Pipe Excavation” is the sum of the volumes of the pipe, pipe trench backfill, pipe bedding, and pipe backfill. The volume of “Pipe Excavation” is available for use as pipe trench backfill and roadway embankment. “Pipe Excavation” is also available for use as pipe backfill if the material meets the requirements for pipe backfill as specified in the Special Provisions and Standard Specifications. The “Pipe Excavation” is included in the “Total Excavation”. The “Pipe Trench Backfill” volume is the difference between the “Pipe Excavation” volume and the combined volume of the pipe, pipe bedding, and pipe backfill and is included in the “Total Embankment”. “Pipe Backfill” and “Pipe Bedding” are not included in the “Total Embankment” because the material is assumed to be from an off site source.

**US 93 - Wickenburg Ranch to SR 89
Pipe Excavation and Backfill Quantities**

Upstream Pipe Station	Ref. No.	Length	Wall Thickness (ft)	ID (in)	H1 (ft)	H2 (ft)	Havg (ft)	Pipe OD (ft)	Pipe OD Area	Trench Width (ft)	Pipe Void (cy)	Pipe Excavation (cy)	Pipe Backfill (cy)	Pipe Bedding (cy)	Trench Backfill (cy)	Comment
US 93 Sta 2120+73.60 59' Lt	100	86	0	24	4.33	4.83	4.58	2.50	4.91	3.50	16	85	17	12	40	Trench
US 93 Sta 2148+82 116.27' Rt	101	49	0	24	0	0.67	0.34	2.50	4.91	3.50	9	21	10	7	0	Trench
US 93 Sta 2120+73.60 59' Rt	102	116	0	24	2.83	2.42	2.63	2.50	4.91	3.50	21	85	23	16	25	Trench
US 93 Sta 2149+16 82.16' Lt	103	83	0	18	1.67	1.42	1.55	1.92	2.88	2.92	9	36	13	9	5	Trench
US 93 Sta 2152+07 28.03' Rt	104	136	0	18	2.27	2.67	2.47	1.92	2.88	2.92	15	72	21	14	22	Trench
US 93 Sta 2125+55.78	105	150	0.64	48	-1.69	-3.56	-2.63	5.28	21.88	10.28	122	180	147	118	0	0
US 93 Sta 2141+12.50 38' Lt	106	0	0	0	0	0	0.00	0.17	0.02	1.17	0	0	0	0	0	Trench
US 93 Sta 2141+00.86 1.06' Rt	107	0	0	0	0	0	0.00	0.17	0.02	1.17	0	0	0	0	0	Trench
US 93 Sta 2149+99 56.02' Lt	111	76	0	24	1.5	1.59	1.55	2.50	4.91	3.50	14	45	15	10	6	Trench
US 93 Sta 2150+16.55 24.68' Lt	112	32	0	24	0.44	0.81	0.63	2.50	4.91	3.50	6	15	6	4	0	Trench
US 93 Sta 2150+20.22 1.44' Lt	113	20	0	18	0	0	0.00	1.92	2.88	2.92	2	5	3	2	0	Trench
US 93 Sta 2155+90 19.92' Rt	114	44	0	24	6.77	3.4	5.09	2.50	4.91	3.50	8	46	9	6	23	Trench
US 93 Sta 2156+07 113.39' Lt	115	38	0	18	0	0	0.00	1.92	2.88	6.92	4	24	17	12	0	0
US 93 Sta 2159+86.02 27.79' Lt	116	135	0	18	2.83	3.15	2.99	1.92	2.88	2.92	14	79	22	14	29	Trench
SR 89 Sta 111+02.76, 7.36' Lt	117	120	0	18	2.91	3.07	3.60	1.92	2.88	2.92	13	78	19	12	34	Trench
SR 89 Sta 114+63 41.62' Lt	118	36	0	18	1.48	2.54	2.01	1.92	2.88	2.92	4	17	6	4	3	Trench

**US 93 - Wickenburg Ranch to SR 89
Pipe Excavation and Backfill Quantities**

Upstream Pipe Station	Ref. No.	Length	Wall Thickness (ft)	ID (in)	H1 (ft)	H2 (ft)	Havg (ft)	Pipe OD (ft)	Pipe OD Area	Trench Width (ft)	Pipe Void (cy)	Pipe Excavation (cy)	Pipe Backfill (cy)	Pipe Bedding (cy)	Trench Backfill (cy)	Comment
SR 89 Sta 117+52 18' Rt	119	70	0	18	1.4	1.32	1.36	1.92	2.88	2.92	7	29	11	8	3	Trench
SR 89 Sta 118+24.88 18' Rt	120	70	0	24	1.32	1.88	1.60	2.50	4.91	3.50	13	42	14	9	6	Trench
SR 89 Sta 118+98 18' Rt	121	69	0	24	1.88	1.33	1.61	2.50	4.91	3.50	13	41	14	9	5	Trench
SR 89 Sta 128+16.52	122	87	0.064	24	2.71	2.21	2.46	2.13	3.55	3.13	11	51	15	10	15	Trench
SR 89 Sta 112+26 18.07' Lt	128	255	0	24	3.51	1.9	2.71	2.50	4.91	3.50	46	189	51	35	57	Trench
US 93 Sta 2149+20 113.41' Rt	129	15	0	18	0	0	0.00	1.92	2.88	6.92	2	9	7	5	0	0
US 93 Sta 2149+03.49 109.87' Rt	130	13	0.064	24	0	0	0.00	2.13	3.55	7.13	2	9	6	4	0	0
Wickenburg Ranch Way Sta 57+59.04	131	486	0.064	48	-1.23	-2.88	-2.06	4.13	13.38	9.13	241	423	383	301	0	0
Matthie Ranch Rd Sta 1+88.654	132	144	0.064	36	-2.08	-0.5	-1.29	3.13	7.68	8.13	41	101	91	69	0	0
Matthie Ranch Rd Sta 3+95.95	133	102	0.064	36	-1.52	-1.58	-1.55	3.13	7.68	8.13	29	64	64	49	0	0
Matthie Ranch Rd Sta	134	180	0.064	36	0	0	0.00	3.13	7.68	8.13	51	197	113	86	0	0
Matthie Ranch Rd Sta 15+93.45	135	236	0.064	36	-2.19	-1.56	-1.88	3.13	7.68	8.13	67	125	149	113	0	0

US 93	711.0	316.0	233.0	150.0
SR 89	447.0	130.0	87.0	123.0
WRW and MRR	910.0	800.0	618.0	0.0
Totals=	2068.0	1246.0	938.0	273.0

US 93 - Wickenburg Ranch to SR 89																Design:	Date:
Pipe Extension Excavation and Backfill																Check:	Date:
Upstream Pipe Station	Ref. No	Wall Thickness (ft)	Length	ID (in)	H1 (ft)	H2 (ft)	Havg (ft)	Pipe OD (ft)	Pipe OD Area (sf)	Trench Width (ft)	Pipe Void (cy)	Pipe Excavation (cy)	Pipe Backfill (cy)	Pipe Bedding (cy)	Trench Backfill (cy)	Comment	
SR 89 Sta 114+83.22	1	0.064	31	30	-1.33	-1.48	-1.41	2.63	5.42	3.63	6.22	7	7	4	0	Trench	
SR 89 Sta 119+77.16	2	0.064	22	24	0	0	0.00	2.13	3.55	7.13	2.90	15	11	8	0	Trench	
	2	0.064	28	24	0	-0.5	-0.25	2.13	3.55	7.13	3.69	18	13	10	0		
SR 89 Sta 125+22.56	3	0.064	54	24	-0.96	-1.1	-1.03	2.13	3.55	3.13	7.11	10	9	6	0	Trench	
SR 89 Sta 130+49.38	4	0.064	20	24	0	-1	-0.50	2.13	3.55	7.13	2.63	11	10	7	0	Trench	
US 93 Med Sta 2141+01.21	5	0.064	12	24	0.52	0.6	0.56	2.13	3.55	3.13	1.58	4	2	1	0	Trench	
	5	0.064	8	30	1.27	2.46	1.87	2.63	5.42	3.63	1.61	5	2	1	0		
Totals =												70.0	54.0	37.0	0.0		

US 93	9.0	4.0	2.0	0.0
SR 89	61.0	50.0	35.0	0.0
	70.0	54.0	37.0	0.0