

49	2.10108	540.367	33.8206	Bedrock (Tvb) TP-5 @ 2.5'	755	41	644.332	604.713	-172.886	0	-172.886	258.793	258.793
50	2.10108	180.717	34.084	Bedrock (Tvb) TP-5 @ 2.5'	755	41	544.282	510.815	-280.902	0	-280.902	87.3821	87.3821

◆ SecAA Static Circular - SecAA Seismic Circular Shear Pin

Global Minimum Query (bishop simplified) - Safety Factor: 1.01704

Slice Number	Width [ft]	Weight [lbs]	Angle of Slice Base [deg]	Base Material	Base Cohesion [psf]	Base Friction Angle [deg]	Shear Stress [psf]	Shear Strength [psf]	Base Normal Stress [psf]	Pore Pressure [psf]	Effective Normal Stress [psf]	Base Vertical Stress [psf]	Effective Vertical Stress [psf]
1	2.12596	5533.11	21.6306	Bedrock (Tvb) TP-5 @ 2.5'	360	32	1569.4	1596.14	1978.23	0	1978.23	2600.57	2600.57
2	2.12596	6258.49	21.8674	Bedrock (Tvb) TP-5 @ 2.5'	360	32	1733.74	1763.28	2245.71	0	2245.71	2941.53	2941.53
3	2.12596	6602.69	22.1047	Bedrock (Tvb) TP-5 @ 2.5'	360	32	1809.17	1840	2368.5	0	2368.5	3103.3	3103.3
4	2.12596	6867.01	22.3423	Bedrock (Tvb) TP-5 @ 2.5'	360	32	1865.82	1897.61	2460.69	0	2460.69	3227.52	3227.52
5	2.12596	7128.68	22.5804	Bedrock (Tvb) TP-5 @ 2.5'	360	32	1921.56	1954.3	2551.41	0	2551.41	3350.5	3350.5
6	2.12596	7499.41	22.8188	Bedrock (Tvb) TP-5 @ 2.5'	360	32	1803.51	1834.24	2359.28	0	2359.28	3118.1	3118.1
7	2.12596	7288.59	23.0577	Bedrock (Tvb) TP-5 @ 2.5'	360	32	2167.97	2204.91	2952.48	0	2952.48	3875.3	3875.3
8	2.12596	7054.45	23.297	Bedrock (Tvb) TP-5 @ 2.5'	360	32	2109.28	2145.22	2856.95	0	2856.95	3765.22	3765.22
9	2.12596	6817.6	23.5367	Bedrock (Tvb) TP-5 @ 2.5'	360	32	2050.22	2085.16	2760.84	0	2760.84	3653.86	3653.86
10	2.12596	6578.03	23.7769	Bedrock (Tvb) TP-5 @ 2.5'	360	32	1990.81	2024.73	2664.13	0	2664.13	3541.23	3541.23
11	2.12596	6335.71	24.0175	Bedrock (Tvb) TP-5 @ 2.5'	360	32	1515.78	1541.61	1890.97	0	1890.97	2566.39	2566.39
12	2.12596	6090.64	24.2586	Bedrock (Tvb) TP-5 @ 2.5'	360	32	1870.9	1902.78	2468.97	0	2468.97	3312.08	3312.08
13	2.12596	5842.8	24.5001	Bedrock (Tvb) TP-5 @ 2.5'	360	32	1810.41	1841.26	2370.51	0	2370.51	3195.57	3195.57
14	2.12596	5592.17	24.7421	Bedrock (Tvb) TP-5 @ 2.5'	360	32	1749.56	1779.37	2271.47	0	2271.47	3077.74	3077.74
15	2.12596	5338.74	24.9845	Bedrock (Tvb) TP-5 @ 2.5'	360	32	1688.36	1717.13	2171.86	0	2171.86	2958.6	2958.6
16	2.12596	5082.49	25.2275	Bedrock (Tvb) TP-5 @ 2.5'	360	32	1626.8	1654.52	2071.66	0	2071.66	2838.13	2838.13
17	2.12596	4823.4	25.4709	Bedrock (Tvb) TP-5 @ 2.5'	360	32	1564.88	1591.55	1970.9	0	1970.9	2716.33	2716.33
18	2.12596	8890.52	25.7148	Bedrock (Tvb) TP-5 @ 2.5'	360	32	1824.91	1856.01	2394.11	0	2394.11	3272.96	3272.96
19	2.12596	9211.64	25.9593	Bedrock (Tvb) TP-5 @ 2.5'	360	32	2319.88	2359.41	3199.73	0	3199.73	4329.17	4329.17
20	2.12596	9306.06	26.2042	Bedrock (Tvb) TP-5 @ 2.5'	360	32	2335.01	2374.8	3224.35	0	3224.35	4373.52	4373.52
21	2.12596	9376.02	26.4496	Bedrock (Tvb) TP-5 @ 2.5'	360	32	2344.61	2384.56	3239.96	0	3239.96	4406.37	4406.37
22	2.12596	9280.05	26.6956	Bedrock (Tvb) TP-5 @ 2.5'	360	32	2317.51	2357	3195.87	0	3195.87	4361.23	4361.23

23	2.12596	8930.46	26.9421	Bedrock (Tvb) TP-5 360 @ 2.5'	32	2234.71	2272.79	3061.1	0	3061.1	4196.89	4196.89
24	2.12596	8562.46	27.1891	Bedrock (Tvb) TP-5 360 @ 2.5'	32	2148.24	2184.85	2920.37	0	2920.37	4023.9	4023.9
25	2.12596	8280.04	27.4367	Bedrock (Tvb) TP-5 360 @ 2.5'	32	2080.92	2116.38	2810.8	0	2810.8	3891.14	3891.14
26	2.12596	7994.61	27.6849	Bedrock (Tvb) TP-5 360 @ 2.5'	32	2013.25	2047.56	2700.65	0	2700.65	3756.96	3756.96
27	2.12596	7706.15	27.9336	Bedrock (Tvb) TP-5 360 @ 2.5'	32	1945.23	1978.38	2589.95	0	2589.95	3621.36	3621.36
28	2.12596	7414.65	28.1829	Bedrock (Tvb) TP-5 360 @ 2.5'	32	1876.87	1908.85	2478.68	0	2478.68	3484.33	3484.33
29	2.12596	7120.09	28.4327	Bedrock (Tvb) TP-5 360 @ 2.5'	32	1808.16	1838.97	2366.86	0	2366.86	3345.86	3345.86
30	2.12596	6822.44	28.6832	Bedrock (Tvb) TP-5 360 @ 2.5'	32	1739.12	1768.75	2254.47	0	2254.47	3205.95	3205.95
31	2.12596	6521.67	28.9343	Bedrock (Tvb) TP-5 360 @ 2.5'	32	1669.72	1698.17	2141.53	0	2141.53	3064.56	3064.56
32	2.12596	6217.78	29.1859	Bedrock (Tvb) TP-5 360 @ 2.5'	32	1599.99	1627.25	2028.03	0	2028.03	2921.72	2921.72
33	2.12596	5910.73	29.4382	Bedrock (Tvb) TP-5 360 @ 2.5'	32	1529.92	1555.99	1913.98	0	1913.98	2777.39	2777.39
34	2.12596	5600.5	29.6911	Bedrock (Tvb) TP-5 360 @ 2.5'	32	1459.51	1484.38	1799.38	0	1799.38	2631.57	2631.57
35	2.12596	5287.06	29.9447	Bedrock (Tvb) TP-5 360 @ 2.5'	32	1388.76	1412.42	1684.23	0	1684.23	2484.24	2484.24
36	2.12596	4970.4	30.1989	Bedrock (Tvb) TP-5 360 @ 2.5'	32	1317.68	1340.13	1568.53	0	1568.53	2335.41	2335.41
37	2.12596	4650.49	30.4538	Bedrock (Tvb) TP-5 360 @ 2.5'	32	1246.26	1267.49	1452.29	0	1452.29	2185.04	2185.04
38	2.12596	4327.3	30.7093	Bedrock (Tvb) TP-5 360 @ 2.5'	32	1174.5	1194.52	1335.51	0	1335.51	2033.14	2033.14
39	2.12596	4000.8	30.9655	Bedrock (Tvb) TP-5 360 @ 2.5'	32	1102.42	1121.2	1218.18	0	1218.18	1879.68	1879.68
40	2.12596	3670.98	31.2224	Bedrock (Tvb) TP-5 360 @ 2.5'	32	1030	1047.56	1100.32	0	1100.32	1724.66	1724.66
41	2.12596	3337.79	31.48	Bedrock (Tvb) TP-5 360 @ 2.5'	32	957.259	973.571	981.919	0	981.919	1568.07	1568.07
42	2.12596	3001.22	31.7383	Bedrock (Tvb) TP-5 360 @ 2.5'	32	884.185	899.252	862.984	0	862.984	1409.88	1409.88
43	2.12596	2661.24	31.9973	Bedrock (Tvb) TP-5 360 @ 2.5'	32	810.785	824.601	743.517	0	743.517	1250.1	1250.1
44	2.12596	2317.82	32.2571	Bedrock (Tvb) TP-5 755 @ 2.5'	41	1086.28	1104.79	402.385	0	402.385	1087.96	1087.96
45	2.12596	1970.92	32.5176	Bedrock (Tvb) TP-5 755 @ 2.5'	41	992.268	1009.18	292.397	0	292.397	924.969	924.969
46	2.12596	1620.52	32.7789	Bedrock (Tvb) TP-5 755 @ 2.5'	41	897.985	913.287	182.088	0	182.088	760.331	760.331
47	2.12596	1266.59	33.0409	Bedrock (Tvb) TP-5 755 @ 2.5'	41	803.432	817.123	71.4642	0	71.4642	594.035	594.035

48	2.12596	909.091	33.3037	Bedrock (Tvb) TP-5 @ 2.5'	755	41	708.613	720.688	-39.4711	0	-39.4711	426.067	426.067
49	2.12596	547.997	33.5673	Bedrock (Tvb) TP-5 @ 2.5'	755	41	613.531	623.986	-150.714	0	-150.714	256.411	256.411
50	2.12596	183.273	33.8318	Bedrock (Tvb) TP-5 @ 2.5'	755	41	518.19	527.02	-262.261	0	-262.261	85.053	85.053

Global Minimum Query (janbu simplified) - Safety Factor: 1.00452

Slice Number	Width [ft]	Weight [lbs]	Angle of Slice Base [deg]	Base Material	Base Cohesion [psf]	Base Friction Angle [deg]	Shear Stress [psf]	Shear Strength [psf]	Base Normal Stress [psf]	Pore Pressure [psf]	Effective Normal Stress [psf]	Base Vertical Stress [psf]	Effective Vertical Stress [psf]
1	2.15141	5605.8	21.3233	Bedrock (Tvb) TP-5 @ 2.5'	360	32	1591.13	1598.32	1981.73	0	1981.73	2602.83	2602.83
2	2.15141	6347.76	21.5613	Bedrock (Tvb) TP-5 @ 2.5'	360	32	1759.36	1767.31	2252.17	0	2252.17	2947.37	2947.37
3	2.15141	6698.55	21.7997	Bedrock (Tvb) TP-5 @ 2.5'	360	32	1836.26	1844.56	2375.8	0	2375.8	3110.24	3110.24
4	2.15141	6972.7	22.0385	Bedrock (Tvb) TP-5 @ 2.5'	360	32	1895.09	1903.66	2470.37	0	2470.37	3237.52	3237.52
5	2.15141	7246.72	22.2777	Bedrock (Tvb) TP-5 @ 2.5'	360	32	1953.59	1962.42	2564.4	0	2564.4	3364.74	3364.74
6	2.15141	7612.72	22.5173	Bedrock (Tvb) TP-5 @ 2.5'	360	32	1855.03	1863.41	2405.96	0	2405.96	3174.99	3174.99
7	2.15141	7380.72	22.7573	Bedrock (Tvb) TP-5 @ 2.5'	360	32	2196.58	2206.51	2955.04	0	2955.04	3876.47	3876.47
8	2.15141	7144.4	22.9978	Bedrock (Tvb) TP-5 @ 2.5'	360	32	2137.22	2146.88	2859.6	0	2859.6	3766.7	3766.7
9	2.15141	6905.3	23.2387	Bedrock (Tvb) TP-5 @ 2.5'	360	32	2077.48	2086.87	2763.56	0	2763.56	3655.63	3655.63
10	2.15141	6663.42	23.48	Bedrock (Tvb) TP-5 @ 2.5'	360	32	2017.36	2026.48	2666.93	0	2666.93	3543.27	3543.27
11	2.15141	6418.72	23.7217	Bedrock (Tvb) TP-5 @ 2.5'	360	32	1546.21	1553.2	1909.52	0	1909.52	2588.96	2588.96
12	2.15141	6171.21	23.9639	Bedrock (Tvb) TP-5 @ 2.5'	360	32	1896.04	1904.61	2471.89	0	2471.89	3314.63	3314.63
13	2.15141	5920.85	24.2066	Bedrock (Tvb) TP-5 @ 2.5'	360	32	1834.83	1843.12	2373.49	0	2373.49	3198.35	3198.35
14	2.15141	5667.64	24.4497	Bedrock (Tvb) TP-5 @ 2.5'	360	32	1773.25	1781.27	2274.5	0	2274.5	3080.74	3080.74
15	2.15141	5411.56	24.6933	Bedrock (Tvb) TP-5 @ 2.5'	360	32	1711.3	1719.04	2174.92	0	2174.92	2961.8	2961.8
16	2.15141	5152.6	24.9374	Bedrock (Tvb) TP-5 @ 2.5'	360	32	1649.01	1656.46	2074.77	0	2074.77	2841.52	2841.52
17	2.15141	5564.12	25.182	Bedrock (Tvb) TP-5 @ 2.5'	360	32	1271.31	1277.06	1467.6	0	1467.6	2065.35	2065.35
18	2.15141	9310.07	25.427	Bedrock (Tvb) TP-5 @ 2.5'	360	32	2351.67	2362.3	3204.35	0	3204.35	4322.37	4322.37
19	2.15141	9413.19	25.6726	Bedrock (Tvb) TP-5 @ 2.5'	360	32	2368.65	2379.36	3231.65	0	3231.65	4370.21	4370.21
20	2.15141	9513.35	25.9186	Bedrock (Tvb) TP-5 @ 2.5'	360	32	2384.85	2395.63	3257.69	0	3257.69	4416.67	4416.67
21	2.15141	9557.68	26.1652	Bedrock (Tvb) TP-5 @ 2.5'	360	32	2388.58	2399.38	3263.68	0	3263.68	4437.21	4437.21
22	2.15141	9439.29	26.4123	Bedrock (Tvb) TP-5 @ 2.5'	360	32	2356.35	2367	3211.87	0	3211.87	4382.2	4382.2
23	2.15141	8980.56	26.6599	Bedrock (Tvb) TP-5 @ 2.5'	360	32	2249.33	2259.5	3039.84	0	3039.84	4169.16	4169.16

24	2.15141	8675.82	26.9081	Bedrock (Tvb) TP-5 360 @ 2.5'	32	2176.63	2186.47	2922.97	0	2922.97	4027.62	4027.62
25	2.15141	8390.06	27.1568	Bedrock (Tvb) TP-5 360 @ 2.5'	32	2108.43	2117.96	2813.33	0	2813.33	3894.9	3894.9
26	2.15141	8101.22	27.406	Bedrock (Tvb) TP-5 360 @ 2.5'	32	2039.87	2049.09	2703.11	0	2703.11	3760.76	3760.76
27	2.15141	7809.28	27.6559	Bedrock (Tvb) TP-5 360 @ 2.5'	32	1970.96	1979.87	2592.33	0	2592.33	3625.17	3625.17
28	2.15141	7514.23	27.9063	Bedrock (Tvb) TP-5 360 @ 2.5'	32	1901.69	1910.29	2480.98	0	2480.98	3488.15	3488.15
29	2.15141	7216.05	28.1572	Bedrock (Tvb) TP-5 360 @ 2.5'	32	1832.08	1840.36	2369.07	0	2369.07	3349.67	3349.67
30	2.15141	6914.7	28.4088	Bedrock (Tvb) TP-5 360 @ 2.5'	32	1762.12	1770.08	2256.6	0	2256.6	3209.72	3209.72
31	2.15141	6610.17	28.661	Bedrock (Tvb) TP-5 360 @ 2.5'	32	1691.8	1699.45	2143.56	0	2143.56	3068.3	3068.3
32	2.15141	6302.43	28.9138	Bedrock (Tvb) TP-5 360 @ 2.5'	32	1621.14	1628.47	2029.97	0	2029.97	2925.39	2925.39
33	2.15141	5991.47	29.1672	Bedrock (Tvb) TP-5 360 @ 2.5'	32	1550.13	1557.14	1915.82	0	1915.82	2780.99	2780.99
34	2.15141	5677.25	29.4212	Bedrock (Tvb) TP-5 360 @ 2.5'	32	1478.78	1485.46	1801.11	0	1801.11	2635.08	2635.08
35	2.15141	5359.76	29.6758	Bedrock (Tvb) TP-5 360 @ 2.5'	32	1407.08	1413.44	1685.85	0	1685.85	2487.65	2487.65
36	2.15141	5038.96	29.9311	Bedrock (Tvb) TP-5 360 @ 2.5'	32	1335.04	1341.07	1570.04	0	1570.04	2338.69	2338.69
37	2.15141	4714.84	30.1871	Bedrock (Tvb) TP-5 360 @ 2.5'	32	1262.66	1268.36	1453.69	0	1453.69	2188.19	2188.19
38	2.15141	4387.37	30.4437	Bedrock (Tvb) TP-5 360 @ 2.5'	32	1189.94	1195.31	1336.78	0	1336.78	2036.14	2036.14
39	2.15141	4056.51	30.701	Bedrock (Tvb) TP-5 360 @ 2.5'	32	1116.88	1121.92	1219.33	0	1219.33	1882.51	1882.51
40	2.15141	3722.25	30.959	Bedrock (Tvb) TP-5 360 @ 2.5'	32	1043.48	1048.2	1101.34	0	1101.34	1727.31	1727.31
41	2.15141	3384.55	31.2177	Bedrock (Tvb) TP-5 360 @ 2.5'	32	969.746	974.129	982.811	0	982.811	1570.52	1570.52
42	2.15141	3043.4	31.4771	Bedrock (Tvb) TP-5 360 @ 2.5'	32	895.679	899.727	863.745	0	863.745	1412.13	1412.13
43	2.15141	2698.75	31.7373	Bedrock (Tvb) TP-5 360 @ 2.5'	32	821.279	824.991	744.143	0	744.143	1252.11	1252.11
44	2.15141	2350.58	31.9981	Bedrock (Tvb) TP-5 360 @ 2.5'	32	746.548	749.922	624.007	0	624.007	1090.47	1090.47
45	2.15141	1998.86	32.2597	Bedrock (Tvb) TP-5 755 @ 2.5'	41	1004.47	1009.01	292.211	0	292.211	926.225	926.225
46	2.15141	1643.56	32.5221	Bedrock (Tvb) TP-5 755 @ 2.5'	41	908.917	913.025	181.787	0	181.787	761.323	761.323
47	2.15141	1284.64	32.7852	Bedrock (Tvb) TP-5 755 @ 2.5'	41	813.086	816.761	71.0482	0	71.0482	594.749	594.749
48	2.15141	922.086	33.0491	Bedrock (Tvb) TP-5 755 @ 2.5'	41	716.985	720.226	-40.0028	0	-40.0028	426.487	426.487

49	2.15141	555.851	33.3138	Bedrock (Tvb) TP-5 @ 2.5'	755	41	620.618	623.423	-151.362	0	-151.362	256.522	256.522
50	2.15141	185.905	33.5793	Bedrock (Tvb) TP-5 @ 2.5'	755	41	523.988	526.356	-263.025	0	-263.025	84.8383	84.8383

◆ SecAA Static Circular - SecAA Static Block

Global Minimum Query (bishop simplified) - Safety Factor: 1.79894

Slice Number	Width [ft]	Weight [lbs]	Angle of Slice Base [deg]	Base Material	Base Cohesion [psf]	Base Friction Angle [deg]	Shear Stress [psf]	Shear Strength [psf]	Base Normal Stress [psf]	Pore Pressure [psf]	Effective Normal Stress [psf]	Base Vertical Stress [psf]	Effective Vertical Stress [psf]
1	1.14671	79.5545	-45	Bedrock (Tvb) TP-5 @ 2.5'	755	41	876.685	1577.1	945.719	0	945.719	69.0344	69.0344
2	1.14671	318.936	-45	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1071.81	1928.13	1349.53	0	1349.53	277.716	277.716
3	1.39234	3887.78	37.9499	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1284.93	2311.51	1790.55	0	1790.55	2792.64	2792.64
4	1.39234	4131.34	37.9499	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1346.33	2421.96	1917.62	0	1917.62	2967.59	2967.59
5	1.39234	4328.47	37.9499	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1396.02	2511.36	2020.46	0	2020.46	3109.19	3109.19
6	1.39234	4367.78	37.9499	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1405.93	2529.18	2040.96	0	2040.96	3137.42	3137.42
7	1.39234	4394.05	37.9499	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1412.55	2541.1	2054.68	0	2054.68	3156.3	3156.3
8	1.39234	4420.33	37.9499	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1419.18	2553.02	2068.38	0	2068.38	3175.17	3175.17
9	1.39234	4446.6	37.9499	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1425.8	2564.93	2082.09	0	2082.09	3194.04	3194.04
10	1.39234	4532.33	37.9499	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1489.6	2679.7	2214.11	0	2214.11	3375.82	3375.82
11	1.39234	4559.51	37.9499	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1612.21	2900.27	2467.85	0	2467.85	3725.18	3725.18
12	1.39234	4376.57	37.9499	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1566.09	2817.31	2372.42	0	2372.42	3593.78	3593.78
13	1.39234	4193.63	37.9499	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1519.98	2734.35	2276.98	0	2276.98	3462.38	3462.38
14	1.39234	4010.69	37.9499	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1473.86	2651.39	2181.54	0	2181.54	3330.98	3330.98
15	1.39234	3827.75	37.9499	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1427.75	2568.43	2086.11	0	2086.11	3199.58	3199.58
16	1.39234	3644.81	37.9499	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1381.62	2485.46	1990.67	0	1990.67	3068.17	3068.17
17	1.39234	3461.88	37.9499	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1335.51	2402.5	1895.23	0	1895.23	2936.77	2936.77
18	1.39234	3278.94	37.9499	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1289.39	2319.54	1799.8	0	1799.8	2805.37	2805.37
19	1.39234	3096	37.9499	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1243.28	2236.58	1704.36	0	1704.36	2673.97	2673.97
20	1.39234	2913.06	37.9499	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1197.16	2153.62	1608.92	0	1608.92	2542.56	2542.56
21	1.39234	2730.12	37.9499	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1151.04	2070.65	1513.49	0	1513.49	2411.16	2411.16
22	1.39234	2547.18	37.9499	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1104.92	1987.69	1418.05	0	1418.05	2279.76	2279.76

23	1.39234	2364.25	37.9499	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1058.81	1904.73	1322.61	0	1322.61	2148.35	2148.35
24	1.39234	2181.31	37.9499	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1012.69	1821.77	1227.18	0	1227.18	2016.95	2016.95
25	1.39234	1998.37	37.9499	Bedrock (Tvb) TP-5 @ 2.5'	755	41	966.572	1738.8	1131.74	0	1131.74	1885.54	1885.54
26	1.39234	1815.43	37.9499	Bedrock (Tvb) TP-5 @ 2.5'	755	41	920.455	1655.84	1036.3	0	1036.3	1754.14	1754.14
27	1.39234	1632.49	37.9499	Bedrock (Tvb) TP-5 @ 2.5'	755	41	874.338	1572.88	940.865	0	940.865	1622.74	1622.74
28	1.39234	1461.56	37.9499	Bedrock (Tvb) TP-5 @ 2.5'	755	41	827.382	1488.41	843.692	0	843.692	1488.95	1488.95
29	1.39234	4173.02	37.9499	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1356.83	2440.86	1939.36	0	1939.36	2997.53	2997.53
30	1.39234	4190.21	37.9499	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1361.17	2448.66	1948.33	0	1948.33	3009.87	3009.87
31	1.38947	4128.32	45	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1251.09	2250.64	1720.54	0	1720.54	2971.63	2971.63
32	1.38947	4049.4	45	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1232.59	2217.35	1682.24	0	1682.24	2914.83	2914.83
33	1.38947	3970.48	45	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1214.08	2184.06	1643.94	0	1643.94	2858.02	2858.02
34	1.38947	3873	45	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1191.22	2142.94	1596.64	0	1596.64	2787.86	2787.86
35	1.38947	3707.22	45	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1152.35	2073	1516.18	0	1516.18	2668.53	2668.53
36	1.38947	3535.09	45	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1111.98	2000.39	1432.65	0	1432.65	2544.63	2544.63
37	1.38947	3172.57	45	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1026.97	1847.45	1256.72	0	1256.72	2283.69	2283.69
38	1.38947	2920.07	45	Bedrock (Tvb) TP-5 @ 2.5'	755	41	967.757	1740.94	1134.19	0	1134.19	2101.95	2101.95
39	1.38947	2686.46	45	Bedrock (Tvb) TP-5 @ 2.5'	755	41	912.976	1642.39	1020.83	0	1020.83	1933.8	1933.8
40	1.38947	2452.86	45	Bedrock (Tvb) TP-5 @ 2.5'	755	41	858.195	1543.84	907.458	0	907.458	1765.65	1765.65
41	1.38947	2219.25	45	Bedrock (Tvb) TP-5 @ 2.5'	755	41	803.414	1445.29	794.094	0	794.094	1597.51	1597.51
42	1.38947	1985.65	45	Bedrock (Tvb) TP-5 @ 2.5'	755	41	748.633	1346.75	680.726	0	680.726	1429.36	1429.36
43	1.38947	1752.04	45	Bedrock (Tvb) TP-5 @ 2.5'	755	41	693.852	1248.2	567.362	0	567.362	1261.21	1261.21
44	1.38947	1518.44	45	Bedrock (Tvb) TP-5 @ 2.5'	755	41	639.071	1149.65	453.994	0	453.994	1093.07	1093.07
45	1.38947	1284.83	45	Bedrock (Tvb) TP-5 @ 2.5'	755	41	584.29	1051.1	340.628	0	340.628	924.918	924.918
46	1.38947	1051.23	45	Bedrock (Tvb) TP-5 @ 2.5'	755	41	529.51	952.556	227.262	0	227.262	756.771	756.771
47	1.38947	817.62	45	Bedrock (Tvb) TP-5 @ 2.5'	755	41	474.728	854.008	113.896	0	113.896	588.624	588.624

48	1.38947	584.014	45	Bedrock (Tvb) TP-5 @ 2.5'	755	41	419.948	755.46	0.529591	0	0.529591	420.477	420.477
49	1.38947	350.408	45	Bedrock (Tvb) TP-5 @ 2.5'	755	41	365.167	656.913	-112.836	0	-112.836	252.33	252.33
50	1.38947	116.803	45	Bedrock (Tvb) TP-5 @ 2.5'	755	41	310.386	558.365	-226.202	0	-226.202	84.1832	84.1832

Global Minimum Query (janbu simplified) - Safety Factor: 1.80336

Slice Number	Width [ft]	Weight [lbs]	Angle of Slice Base [deg]	Base Material	Base Cohesion [psf]	Base Friction Angle [deg]	Shear Stress [psf]	Shear Strength [psf]	Base Normal Stress [psf]	Pore Pressure [psf]	Effective Normal Stress [psf]	Base Vertical Stress [psf]	Effective Vertical Stress [psf]
1	1.14671	79.5545	-45	Bedrock (Tvb) TP-5 @ 2.5'	755	41	872.022	1572.57	940.502	0	940.502	68.4806	68.4806
2	1.14671	318.936	-45	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1066.11	1922.58	1343.15	0	1343.15	277.045	277.045
3	1.39234	3887.78	37.9499	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1282.86	2313.46	1792.8	0	1792.8	2793.28	2793.28
4	1.39234	4131.34	37.9499	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1344.16	2424.01	1919.97	0	1919.97	2968.25	2968.25
5	1.39234	4328.47	37.9499	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1393.78	2513.48	2022.9	0	2022.9	3109.88	3109.88
6	1.39234	4367.78	37.9499	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1403.67	2531.32	2043.42	0	2043.42	3138.11	3138.11
7	1.39234	4394.05	37.9499	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1410.28	2543.25	2057.15	0	2057.15	3157	3157
8	1.39234	4420.33	37.9499	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1416.89	2555.17	2070.86	0	2070.86	3175.87	3175.87
9	1.39234	4446.6	37.9499	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1423.51	2567.1	2084.58	0	2084.58	3194.75	3194.75
10	1.39234	4532.33	37.9499	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1487.2	2681.96	2216.72	0	2216.72	3376.56	3376.56
11	1.39234	4559.51	37.9499	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1609.62	2902.73	2470.67	0	2470.67	3725.98	3725.98
12	1.39234	4376.57	37.9499	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1563.58	2819.69	2375.16	0	2375.16	3594.56	3594.56
13	1.39234	4193.63	37.9499	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1517.53	2736.66	2279.64	0	2279.64	3463.13	3463.13
14	1.39234	4010.69	37.9499	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1471.49	2653.63	2184.12	0	2184.12	3331.7	3331.7
15	1.39234	3827.75	37.9499	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1425.45	2570.6	2088.61	0	2088.61	3200.28	3200.28
16	1.39234	3644.81	37.9499	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1379.4	2487.56	1993.09	0	1993.09	3068.85	3068.85
17	1.39234	3461.88	37.9499	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1333.36	2404.53	1897.57	0	1897.57	2937.43	2937.43
18	1.39234	3278.94	37.9499	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1287.32	2321.5	1802.05	0	1802.05	2806	2806
19	1.39234	3096	37.9499	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1241.28	2238.47	1706.53	0	1706.53	2674.58	2674.58
20	1.39234	2913.06	37.9499	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1195.24	2155.44	1611.02	0	1611.02	2543.16	2543.16
21	1.39234	2730.12	37.9499	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1149.19	2072.4	1515.5	0	1515.5	2411.72	2411.72
22	1.39234	2547.18	37.9499	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1103.15	1989.37	1419.98	0	1419.98	2280.3	2280.3
23	1.39234	2364.25	37.9499	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1057.1	1906.34	1324.46	0	1324.46	2148.88	2148.88

24	1.39234	2181.31	37.9499	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1011.06	1823.31	1228.95	0	1228.95	2017.45	2017.45
25	1.39234	1998.37	37.9499	Bedrock (Tvb) TP-5 @ 2.5'	755	41	965.018	1740.27	1133.43	0	1133.43	1886.02	1886.02
26	1.39234	1815.43	37.9499	Bedrock (Tvb) TP-5 @ 2.5'	755	41	918.975	1657.24	1037.91	0	1037.91	1754.6	1754.6
27	1.39234	1632.49	37.9499	Bedrock (Tvb) TP-5 @ 2.5'	755	41	872.932	1574.21	942.395	0	942.395	1623.17	1623.17
28	1.39234	1461.56	37.9499	Bedrock (Tvb) TP-5 @ 2.5'	755	41	826.052	1489.67	845.142	0	845.142	1489.36	1489.36
29	1.39234	4173.02	37.9499	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1354.65	2442.92	1941.74	0	1941.74	2998.2	2998.2
30	1.39234	4190.21	37.9499	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1358.98	2450.73	1950.71	0	1950.71	3010.55	3010.55
31	1.38947	4128.32	45	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1249.28	2252.91	1723.14	0	1723.14	2972.43	2972.43
32	1.38947	4049.4	45	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1230.8	2219.58	1684.8	0	1684.8	2915.61	2915.61
33	1.38947	3970.48	45	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1212.32	2186.25	1646.47	0	1646.47	2858.79	2858.79
34	1.38947	3873	45	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1189.5	2145.09	1599.12	0	1599.12	2788.62	2788.62
35	1.38947	3707.22	45	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1150.68	2075.09	1518.59	0	1518.59	2669.27	2669.27
36	1.38947	3535.09	45	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1110.37	2002.4	1434.97	0	1434.97	2545.34	2545.34
37	1.38947	3172.57	45	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1025.48	1849.31	1258.86	0	1258.86	2284.34	2284.34
38	1.38947	2920.07	45	Bedrock (Tvb) TP-5 @ 2.5'	755	41	966.356	1742.69	1136.21	0	1136.21	2102.56	2102.56
39	1.38947	2686.46	45	Bedrock (Tvb) TP-5 @ 2.5'	755	41	911.654	1644.04	1022.72	0	1022.72	1934.38	1934.38
40	1.38947	2452.86	45	Bedrock (Tvb) TP-5 @ 2.5'	755	41	856.953	1545.39	909.244	0	909.244	1766.2	1766.2
41	1.38947	2219.25	45	Bedrock (Tvb) TP-5 @ 2.5'	755	41	802.251	1446.75	795.763	0	795.763	1598.01	1598.01
42	1.38947	1985.65	45	Bedrock (Tvb) TP-5 @ 2.5'	755	41	747.55	1348.1	682.283	0	682.283	1429.83	1429.83
43	1.38947	1752.04	45	Bedrock (Tvb) TP-5 @ 2.5'	755	41	692.848	1249.45	568.802	0	568.802	1261.65	1261.65
44	1.38947	1518.44	45	Bedrock (Tvb) TP-5 @ 2.5'	755	41	638.146	1150.81	455.324	0	455.324	1093.47	1093.47
45	1.38947	1284.83	45	Bedrock (Tvb) TP-5 @ 2.5'	755	41	583.445	1052.16	341.844	0	341.844	925.289	925.289
46	1.38947	1051.23	45	Bedrock (Tvb) TP-5 @ 2.5'	755	41	528.743	953.514	228.364	0	228.364	757.107	757.107
47	1.38947	817.62	45	Bedrock (Tvb) TP-5 @ 2.5'	755	41	474.041	854.867	114.884	0	114.884	588.925	588.925
48	1.38947	584.014	45	Bedrock (Tvb) TP-5 @ 2.5'	755	41	419.34	756.22	1.40393	0	1.40393	420.744	420.744

49	1.38947	350.408	45	Bedrock (Tvb) TP-5 @ 2.5'	755	41	364.638	657.574	-112.076	0	-112.076	252.562	252.562
50	1.38947	116.803	45	Bedrock (Tvb) TP-5 @ 2.5'	755	41	309.936	558.927	-225.557	0	-225.557	84.3799	84.3799

◆ SecAA Static Circular - SecAA Seismic Block

Global Minimum Query (bishop simplified) - Safety Factor: 1.28316

Slice Number	Width [ft]	Weight [lbs]	Angle of Slice Base [deg]	Base Material	Base Cohesion [psf]	Base Friction Angle [deg]	Shear Stress [psf]	Shear Strength [psf]	Base Normal Stress [psf]	Pore Pressure [psf]	Effective Normal Stress [psf]	Base Vertical Stress [psf]	Effective Vertical Stress [psf]
1	1.43396	124.403	-45	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1997.89	2563.61	2080.57	0	2080.57	82.6844	82.6844
2	1.38389	3490.07	37.709	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1508.43	1935.56	1358.08	0	1358.08	2524.31	2524.31
3	1.38389	3927.69	37.709	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1649.12	2116.09	1565.76	0	1565.76	2840.76	2840.76
4	1.38389	4136.59	37.709	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1716.29	2202.27	1664.89	0	1664.89	2991.82	2991.82
5	1.38389	4185.18	37.709	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1731.9	2222.31	1687.95	0	1687.95	3026.95	3026.95
6	1.38389	4212.7	37.709	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1740.76	2233.67	1701.01	0	1701.01	3046.86	3046.86
7	1.38389	4240.22	37.709	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1749.6	2245.02	1714.07	0	1714.07	3066.76	3066.76
8	1.38389	4267.74	37.709	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1758.45	2256.37	1727.13	0	1727.13	3086.65	3086.65
9	1.38389	4331.38	37.709	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1806.4	2317.9	1797.91	0	1797.91	3194.5	3194.5
10	1.38389	4410.56	37.709	Bedrock (Tvb) TP-5 @ 2.5'	755	41	2004.57	2572.18	2090.43	0	2090.43	3640.24	3640.24
11	1.38389	4231.39	37.709	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1946.97	2498.28	2005.41	0	2005.41	3510.69	3510.69
12	1.38389	4052.23	37.709	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1889.37	2424.37	1920.39	0	1920.39	3381.14	3381.14
13	1.38389	3873.07	37.709	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1831.77	2350.46	1835.37	0	1835.37	3251.58	3251.58
14	1.38389	3693.91	37.709	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1774.17	2276.55	1750.34	0	1750.34	3122.03	3122.03
15	1.38389	3514.75	37.709	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1716.57	2202.64	1665.32	0	1665.32	2992.47	2992.47
16	1.38389	3335.59	37.709	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1658.98	2128.74	1580.31	0	1580.31	2862.93	2862.93
17	1.38389	3156.43	37.709	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1601.38	2054.83	1495.28	0	1495.28	2733.37	2733.37
18	1.38389	2977.27	37.709	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1543.78	1980.92	1410.26	0	1410.26	2603.82	2603.82
19	1.38389	2798.11	37.709	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1486.18	1907.01	1325.24	0	1325.24	2474.26	2474.26
20	1.38389	2618.95	37.709	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1428.58	1833.1	1240.22	0	1240.22	2344.71	2344.71
21	1.38389	2439.79	37.709	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1370.99	1759.2	1155.19	0	1155.19	2215.16	2215.16
22	1.38389	2260.63	37.709	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1313.39	1685.29	1070.17	0	1070.17	2085.61	2085.61

23	1.38389	2081.47	37.709	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1255.79	1611.38	985.156	0	985.156	1956.06	1956.06
24	1.38389	1902.31	37.709	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1198.19	1537.47	900.131	0	900.131	1826.5	1826.5
25	1.38389	1723.14	37.709	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1140.59	1463.57	815.112	0	815.112	1696.95	1696.95
26	1.38389	1543.98	37.709	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1083	1389.66	730.087	0	730.087	1567.39	1567.39
27	1.38389	1364.82	37.709	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1025.4	1315.75	645.068	0	645.068	1437.84	1437.84
28	1.38389	3363.55	37.709	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1511.17	1939.07	1362.12	0	1362.12	2530.46	2530.46
29	1.38389	4055.71	37.709	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1690.28	2168.9	1626.51	0	1626.51	2933.33	2933.33
30	1.38389	4029.99	37.709	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1682.01	2158.29	1614.3	0	1614.3	2914.73	2914.73
31	1.38389	4004.27	37.709	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1673.75	2147.69	1602.1	0	1602.1	2896.14	2896.14
32	1.38389	3978.56	37.709	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1665.48	2137.08	1589.9	0	1589.9	2877.55	2877.55
33	1.38389	3946.73	37.709	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1655.25	2123.95	1574.79	0	1574.79	2854.53	2854.53
34	1.38389	3847.27	37.709	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1623.27	2082.92	1527.59	0	1527.59	2782.61	2782.61
35	1.38389	3729.09	37.709	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1585.28	2034.17	1471.51	0	1471.51	2697.15	2697.15
36	1.39708	3490.43	45	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1360.88	1746.23	1140.28	0	1140.28	2501.16	2501.16
37	1.39708	3188.31	45	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1273.47	1634.07	1011.25	0	1011.25	2284.72	2284.72
38	1.39708	2952.14	45	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1205.14	1546.39	910.396	0	910.396	2115.54	2115.54
39	1.39708	2715.97	45	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1136.82	1458.72	809.534	0	809.534	1946.35	1946.35
40	1.39708	2479.8	45	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1068.49	1371.04	708.677	0	708.677	1777.17	1777.17
41	1.39708	2243.63	45	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1000.16	1283.37	607.82	0	607.82	1607.98	1607.98
42	1.39708	2007.46	45	Bedrock (Tvb) TP-5 @ 2.5'	755	41	931.835	1195.69	506.957	0	506.957	1438.79	1438.79
43	1.39708	1771.28	45	Bedrock (Tvb) TP-5 @ 2.5'	755	41	863.508	1108.02	406.101	0	406.101	1269.61	1269.61
44	1.39708	1535.11	45	Bedrock (Tvb) TP-5 @ 2.5'	755	41	795.181	1020.34	305.243	0	305.243	1100.42	1100.42
45	1.39708	1298.94	45	Bedrock (Tvb) TP-5 @ 2.5'	755	41	726.853	932.669	204.384	0	204.384	931.238	931.238
46	1.39708	1062.77	45	Bedrock (Tvb) TP-5 @ 2.5'	755	41	658.526	844.994	103.526	0	103.526	762.052	762.052
47	1.39708	826.599	45	Bedrock (Tvb) TP-5 @ 2.5'	755	41	590.198	757.319	2.66764	0	2.66764	592.866	592.866

48	1.39708	590.428	45	Bedrock (Tvb) TP-5 @ 2.5'	755	41	521.871	669.644	-98.1907	0	-98.1907	423.68	423.68
49	1.39708	354.257	45	Bedrock (Tvb) TP-5 @ 2.5'	755	41	453.544	581.969	-199.049	0	-199.049	254.494	254.494
50	1.39708	118.086	45	Bedrock (Tvb) TP-5 @ 2.5'	755	41	385.216	494.294	-299.908	0	-299.908	85.3084	85.3084

Global Minimum Query (janbu simplified) - Safety Factor: 1.22886

Slice Number	Width [ft]	Weight [lbs]	Angle of Slice Base [deg]	Base Material	Base Cohesion [psf]	Base Friction Angle [deg]	Shear Stress [psf]	Shear Strength [psf]	Base Normal Stress [psf]	Pore Pressure [psf]	Effective Normal Stress [psf]	Base Vertical Stress [psf]	Effective Vertical Stress [psf]
1	1.34246	109.033	-45	Bedrock (Tvb) TP-5 @ 2.5'	755	41	2303.79	2831.04	2388.21	0	2388.21	84.4151	84.4151
2	1.47015	2880.99	32.9156	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1371.67	1685.59	1070.52	0	1070.52	1958.42	1958.42
3	1.47015	4127.86	32.9156	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1783.01	2191.07	1652.01	0	1652.01	2806.18	2806.18
4	1.47015	4405.45	32.9156	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1874.59	2303.61	1781.47	0	1781.47	2994.92	2994.92
5	1.47015	4501.4	32.9156	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1906.24	2342.5	1826.21	0	1826.21	3060.15	3060.15
6	1.47015	4565.36	32.9156	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1927.34	2368.43	1856.04	0	1856.04	3103.64	3103.64
7	1.47015	4629.33	32.9156	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1948.44	2394.36	1885.87	0	1885.87	3147.13	3147.13
8	1.47015	4693.29	32.9156	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1969.55	2420.3	1915.7	0	1915.7	3190.62	3190.62
9	1.47015	4837.61	32.9156	Bedrock (Tvb) TP-5 @ 2.5'	755	41	2101.09	2581.94	2101.66	0	2101.66	3461.72	3461.72
10	1.47015	4848.07	32.9156	Bedrock (Tvb) TP-5 @ 2.5'	755	41	2238.86	2751.24	2296.41	0	2296.41	3745.66	3745.66
11	1.47015	4678.78	32.9156	Bedrock (Tvb) TP-5 @ 2.5'	755	41	2183.01	2682.61	2217.47	0	2217.47	3630.56	3630.56
12	1.47015	4509.49	32.9156	Bedrock (Tvb) TP-5 @ 2.5'	755	41	2127.16	2613.98	2138.52	0	2138.52	3515.46	3515.46
13	1.47015	4340.2	32.9156	Bedrock (Tvb) TP-5 @ 2.5'	755	41	2071.31	2545.35	2059.57	0	2059.57	3400.36	3400.36
14	1.47015	4170.92	32.9156	Bedrock (Tvb) TP-5 @ 2.5'	755	41	2015.47	2476.73	1980.62	0	1980.62	3285.26	3285.26
15	1.47015	4001.63	32.9156	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1959.62	2408.1	1901.67	0	1901.67	3170.16	3170.16
16	1.47015	3832.34	32.9156	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1903.77	2339.47	1822.72	0	1822.72	3055.06	3055.06
17	1.47015	3663.06	32.9156	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1847.92	2270.84	1743.77	0	1743.77	2939.96	2939.96
18	1.47015	3493.77	32.9156	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1792.08	2202.21	1664.82	0	1664.82	2824.86	2824.86
19	1.47015	3324.48	32.9156	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1736.23	2133.58	1585.88	0	1585.88	2709.76	2709.76
20	1.47015	3155.19	32.9156	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1680.38	2064.95	1506.93	0	1506.93	2594.66	2594.66
21	1.47015	2985.91	32.9156	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1624.53	1996.32	1427.98	0	1427.98	2479.56	2479.56
22	1.47015	2816.62	32.9156	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1568.68	1927.69	1349.03	0	1349.03	2364.46	2364.46
23	1.47015	2647.33	32.9156	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1512.84	1859.07	1270.08	0	1270.08	2249.37	2249.37

24	1.47015	2478.05	32.9156	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1456.99	1790.44	1191.14	0	1191.14	2134.27	2134.27
25	1.47015	2308.76	32.9156	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1401.14	1721.81	1112.19	0	1112.19	2019.17	2019.17
26	1.47015	2362.93	32.9156	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1395.57	1714.96	1104.3	0	1104.3	2007.67	2007.67
27	1.47015	5105.48	32.9156	Bedrock (Tvb) TP-5 @ 2.5'	755	41	2105.53	2587.4	2107.93	0	2107.93	3470.87	3470.87
28	1.47015	5109.36	32.9156	Bedrock (Tvb) TP-5 @ 2.5'	755	41	2106.81	2588.97	2109.74	0	2109.74	3473.51	3473.51
29	1.47015	5113.25	32.9156	Bedrock (Tvb) TP-5 @ 2.5'	755	41	2108.09	2590.55	2111.55	0	2111.55	3476.15	3476.15
30	1.45697	5025.93	45	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1788.01	2197.22	1659.09	0	1659.09	3447.1	3447.1
31	1.45697	4939.15	45	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1763.36	2166.92	1624.22	0	1624.22	3387.58	3387.58
32	1.45697	4802.37	45	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1724.48	2119.15	1569.27	0	1569.27	3293.75	3293.75
33	1.45697	4613.12	45	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1670.69	2053.05	1493.24	0	1493.24	3163.93	3163.93
34	1.45697	4345.36	45	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1594.6	1959.54	1385.66	0	1385.66	2980.26	2980.26
35	1.45697	3981.22	45	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1491.11	1832.36	1239.36	0	1239.36	2730.47	2730.47
36	1.45697	3724.36	45	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1418.11	1742.66	1136.17	0	1136.17	2554.28	2554.28
37	1.45697	3467.51	45	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1345.11	1652.95	1032.98	0	1032.98	2378.09	2378.09
38	1.45697	3210.66	45	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1272.11	1563.25	929.782	0	929.782	2201.89	2201.89
39	1.45697	2953.81	45	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1199.11	1473.54	826.592	0	826.592	2025.71	2025.71
40	1.45697	2696.95	45	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1126.12	1383.84	723.396	0	723.396	1849.51	1849.51
41	1.45697	2440.1	45	Bedrock (Tvb) TP-5 @ 2.5'	755	41	1053.12	1294.13	620.201	0	620.201	1673.32	1673.32
42	1.45697	2183.25	45	Bedrock (Tvb) TP-5 @ 2.5'	755	41	980.12	1204.43	517.011	0	517.011	1497.13	1497.13
43	1.45697	1926.4	45	Bedrock (Tvb) TP-5 @ 2.5'	755	41	907.121	1114.72	413.816	0	413.816	1320.94	1320.94
44	1.45697	1669.54	45	Bedrock (Tvb) TP-5 @ 2.5'	755	41	834.123	1025.02	310.623	0	310.623	1144.75	1144.75
45	1.45697	1412.69	45	Bedrock (Tvb) TP-5 @ 2.5'	755	41	761.125	935.316	207.43	0	207.43	968.555	968.555
46	1.45697	1155.84	45	Bedrock (Tvb) TP-5 @ 2.5'	755	41	688.127	845.611	104.236	0	104.236	792.363	792.363
47	1.45697	898.984	45	Bedrock (Tvb) TP-5 @ 2.5'	755	41	615.128	755.907	1.04299	0	1.04299	616.171	616.171
48	1.45697	642.132	45	Bedrock (Tvb) TP-5 @ 2.5'	755	41	542.13	666.202	-102.15	0	-102.15	439.98	439.98

49	1.45697	385.279	45	Bedrock (Tvb) TP-5 @ 2.5'	755	41	469.132	576.497	-205.344	0	-205.344	263.788	263.788
50	1.45697	128.426	45	Bedrock (Tvb) TP-5 @ 2.5'	755	41	396.134	486.793	-308.537	0	-308.537	87.597	87.597

◆ SecAA Seismic Circular FS=1.0

Global Minimum Query (bishop simplified) - Safety Factor: 1.01464

Slice Number	Width [ft]	Weight [lbs]	Angle of Slice Base [deg]	Base Material	Base Cohesion [psf]	Base Friction Angle [deg]	Shear Stress [psf]	Shear Strength [psf]	Base Normal Stress [psf]	Pore Pressure [psf]	Effective Normal Stress [psf]	Base Vertical Stress [psf]	Effective Vertical Stress [psf]
1	2.35412	6190.63	19.0769	Bedrock (Tvb) TP-5 @ 2.5'	755	41	2310.65	2344.48	1828.49	0	1828.49	2627.58	2627.58
2	2.35412	7065.25	19.3136	Bedrock (Tvb) TP-5 @ 2.5'	755	41	2548.23	2585.54	2105.79	0	2105.79	2998.85	2998.85
3	2.35412	7476.83	19.5606	Bedrock (Tvb) TP-5 @ 2.5'	755	41	2654.86	2693.73	2230.25	0	2230.25	3173.55	3173.55
4	2.35412	7835.01	19.808	Bedrock (Tvb) TP-5 @ 2.5'	755	41	2745.94	2786.14	2336.55	0	2336.55	3325.58	3325.58
5	2.35412	8300.96	20.0557	Bedrock (Tvb) TP-5 @ 2.5'	360	32	2154.88	2186.43	2922.9	0	2922.9	3709.59	3709.59
6	2.35412	8369.3	20.3038	Bedrock (Tvb) TP-5 @ 2.5'	360	32	2296.7	2330.32	3153.16	0	3153.16	4002.91	4002.91
7	2.35412	8119.54	20.5524	Bedrock (Tvb) TP-5 @ 2.5'	360	32	2237.95	2270.71	3057.78	0	3057.78	3896.85	3896.85
8	2.35412	7866.46	20.8013	Bedrock (Tvb) TP-5 @ 2.5'	360	32	2178.76	2210.66	2961.68	0	2961.68	3789.37	3789.37
9	2.35412	7610.05	21.0507	Bedrock (Tvb) TP-5 @ 2.5'	360	32	2119.15	2150.17	2864.87	0	2864.87	3680.48	3680.48
10	2.35412	7350.28	21.3005	Bedrock (Tvb) TP-5 @ 2.5'	360	32	2059.08	2089.23	2767.35	0	2767.35	3570.17	3570.17
11	2.35412	7087.14	21.5507	Bedrock (Tvb) TP-5 @ 2.5'	360	32	1998.59	2027.85	2669.12	0	2669.12	3458.43	3458.43
12	2.35412	6820.61	21.8013	Bedrock (Tvb) TP-5 @ 2.5'	360	32	1937.66	1966.03	2570.19	0	2570.19	3345.25	3345.25
13	2.35412	6550.68	22.0524	Bedrock (Tvb) TP-5 @ 2.5'	360	32	1876.3	1903.77	2470.55	0	2470.55	3230.62	3230.62
14	2.35412	6277.33	22.3039	Bedrock (Tvb) TP-5 @ 2.5'	360	32	1814.52	1841.08	2370.22	0	2370.22	3114.55	3114.55
15	2.35412	6000.53	22.5559	Bedrock (Tvb) TP-5 @ 2.5'	360	32	1752.3	1777.95	2269.19	0	2269.19	2997.01	2997.01
16	2.35412	8724.68	22.8083	Bedrock (Tvb) TP-5 @ 2.5'	360	32	2176.59	2208.46	2958.16	0	2958.16	3873.48	3873.48
17	2.35412	10787.1	23.0612	Bedrock (Tvb) TP-5 @ 2.5'	360	32	2515.48	2552.31	3508.43	0	3508.43	4579.36	4579.36
18	2.35412	10943.9	23.3146	Bedrock (Tvb) TP-5 @ 2.5'	360	32	2541.46	2578.67	3550.61	0	3550.61	4645.9	4645.9
19	2.35412	11071.6	23.5684	Bedrock (Tvb) TP-5 @ 2.5'	360	32	2561.28	2598.78	3582.79	0	3582.79	4700.11	4700.11
20	2.35412	10996.2	23.8228	Bedrock (Tvb) TP-5 @ 2.5'	360	32	2539.2	2576.37	3546.94	0	3546.94	4668.06	4668.06
21	2.35412	10557.4	24.0776	Bedrock (Tvb) TP-5 @ 2.5'	360	32	2442.68	2478.44	3390.21	0	3390.21	4481.73	4481.73
22	2.35412	10203.1	24.333	Bedrock (Tvb) TP-5 @ 2.5'	360	32	2363.91	2398.52	3262.32	0	3262.32	4331.31	4331.31

23	2.35412	9898.07	24.5889	Bedrock (Tvb) TP-5 @ 2.5'	360	32	2295.56	2329.17	3151.33	0	3151.33	4201.78	4201.78
24	2.35412	9589.4	24.8453	Bedrock (Tvb) TP-5 @ 2.5'	360	32	2226.79	2259.39	3039.65	0	3039.65	4070.71	4070.71
25	2.35412	9277.08	25.1022	Bedrock (Tvb) TP-5 @ 2.5'	360	32	2157.59	2189.18	2927.31	0	2927.31	3938.1	3938.1
26	2.35412	8961.09	25.3597	Bedrock (Tvb) TP-5 @ 2.5'	360	32	2087.98	2118.55	2814.28	0	2814.28	3803.92	3803.92
27	2.35412	8641.4	25.6177	Bedrock (Tvb) TP-5 @ 2.5'	360	32	2017.97	2047.51	2700.57	0	2700.57	3668.19	3668.19
28	2.35412	8318	25.8763	Bedrock (Tvb) TP-5 @ 2.5'	360	32	1947.53	1976.04	2586.2	0	2586.2	3530.87	3530.87
29	2.35412	7990.86	26.1354	Bedrock (Tvb) TP-5 @ 2.5'	360	32	1876.68	1904.15	2471.15	0	2471.15	3391.97	3391.97
30	2.35412	7659.95	26.3952	Bedrock (Tvb) TP-5 @ 2.5'	360	32	1805.41	1831.84	2355.44	0	2355.44	3251.46	3251.46
31	2.35412	7325.24	26.6555	Bedrock (Tvb) TP-5 @ 2.5'	360	32	1733.74	1759.12	2239.06	0	2239.06	3109.35	3109.35
32	2.35412	6986.72	26.9164	Bedrock (Tvb) TP-5 @ 2.5'	360	32	1661.66	1685.99	2122.02	0	2122.02	2965.63	2965.63
33	2.35412	6644.35	27.1779	Bedrock (Tvb) TP-5 @ 2.5'	360	32	1589.17	1612.44	2004.32	0	2004.32	2820.27	2820.27
34	2.35412	6298.11	27.44	Bedrock (Tvb) TP-5 @ 2.5'	360	32	1516.28	1538.48	1885.96	0	1885.96	2673.27	2673.27
35	2.35412	5947.97	27.7028	Bedrock (Tvb) TP-5 @ 2.5'	360	32	1442.97	1464.1	1766.94	0	1766.94	2524.6	2524.6
36	2.35412	5593.9	27.9661	Bedrock (Tvb) TP-5 @ 2.5'	360	32	1369.27	1389.32	1647.26	0	1647.26	2374.28	2374.28
37	2.35412	5235.88	28.2302	Bedrock (Tvb) TP-5 @ 2.5'	360	32	1295.18	1314.14	1526.94	0	1526.94	2222.28	2222.28
38	2.35412	4873.87	28.4948	Bedrock (Tvb) TP-5 @ 2.5'	360	32	1220.67	1238.54	1405.97	0	1405.97	2068.6	2068.6
39	2.35412	4507.84	28.7602	Bedrock (Tvb) TP-5 @ 2.5'	360	32	1145.77	1162.55	1284.34	0	1284.34	1913.2	1913.2
40	2.35412	4137.77	29.0262	Bedrock (Tvb) TP-5 @ 2.5'	360	32	1070.47	1086.15	1162.08	0	1162.08	1756.09	1756.09
41	2.35412	3763.62	29.2929	Bedrock (Tvb) TP-5 @ 2.5'	360	32	994.781	1009.35	1039.17	0	1039.17	1597.25	1597.25
42	2.35412	3385.36	29.5603	Bedrock (Tvb) TP-5 @ 2.5'	360	32	918.694	932.144	915.621	0	915.621	1436.67	1436.67
43	2.35412	3002.96	29.8285	Bedrock (Tvb) TP-5 @ 2.5'	360	32	842.215	854.545	791.44	0	791.44	1274.34	1274.34
44	2.35412	2616.38	30.0973	Bedrock (Tvb) TP-5 @ 2.5'	360	32	765.345	776.55	666.618	0	666.618	1110.22	1110.22
45	2.35412	2225.6	30.3669	Bedrock (Tvb) TP-5 @ 2.5'	360	32	688.086	698.16	541.169	0	541.169	944.332	944.332
46	2.35412	1830.57	30.6372	Bedrock (Tvb) TP-5 @ 2.5'	360	32	610.441	619.378	415.093	0	415.093	776.642	776.642
47	2.35412	1431.26	30.9083	Bedrock (Tvb) TP-5 @ 2.5'	360	32	532.411	540.205	288.388	0	288.388	607.133	607.133

48	2.35412	1027.63	31.1801	Bedrock (Tvb) TP-5 @ 2.5'	360	32	453.996	460.642	161.061	0	161.061	435.795	435.795
49	2.35412	619.656	31.4527	Bedrock (Tvb) TP-5 @ 2.5'	360	32	375.199	380.692	33.1146	0	33.1146	262.612	262.612
50	2.35412	207.287	31.7262	Bedrock (Tvb) TP-5 @ 2.5'	360	32	296.023	300.357	-95.4484	0	-95.4484	87.5662	87.5662

Global Minimum Query (janbu simplified) - Safety Factor: 1.00051

Slice Number	Width [ft]	Weight [lbs]	Angle of Slice Base [deg]	Base Material	Base Cohesion [psf]	Base Friction Angle [deg]	Shear Stress [psf]	Shear Strength [psf]	Base Normal Stress [psf]	Pore Pressure [psf]	Effective Normal Stress [psf]	Base Vertical Stress [psf]	Effective Vertical Stress [psf]
1	2.35412	6190.63	19.0769	Bedrock (Tvb) TP-5 @ 2.5'	755	41	2336.89	2338.08	1821.12	0	1821.12	2629.29	2629.29
2	2.35412	7065.25	19.3136	Bedrock (Tvb) TP-5 @ 2.5'	755	41	2577.1	2578.41	2097.6	0	2097.6	3000.77	3000.77
3	2.35412	7476.83	19.5606	Bedrock (Tvb) TP-5 @ 2.5'	755	41	2684.86	2686.23	2221.62	0	2221.62	3175.58	3175.58
4	2.35412	7835.01	19.808	Bedrock (Tvb) TP-5 @ 2.5'	755	41	2776.87	2778.29	2327.53	0	2327.53	3327.7	3327.7
5	2.35412	8300.96	20.0557	Bedrock (Tvb) TP-5 @ 2.5'	360	32	2180.52	2181.63	2915.22	0	2915.22	3711.27	3711.27
6	2.35412	8369.3	20.3038	Bedrock (Tvb) TP-5 @ 2.5'	360	32	2323.96	2325.15	3144.9	0	3144.9	4004.74	4004.74
7	2.35412	8119.54	20.5524	Bedrock (Tvb) TP-5 @ 2.5'	360	32	2264.47	2265.62	3049.63	0	3049.63	3898.64	3898.64
8	2.35412	7866.46	20.8013	Bedrock (Tvb) TP-5 @ 2.5'	360	32	2204.53	2205.65	2953.67	0	2953.67	3791.15	3791.15
9	2.35412	7610.05	21.0507	Bedrock (Tvb) TP-5 @ 2.5'	360	32	2144.16	2145.25	2856.99	0	2856.99	3682.23	3682.23
10	2.35412	7350.28	21.3005	Bedrock (Tvb) TP-5 @ 2.5'	360	32	2083.34	2084.4	2759.61	0	2759.61	3571.89	3571.89
11	2.35412	7087.14	21.5507	Bedrock (Tvb) TP-5 @ 2.5'	360	32	2022.08	2023.11	2661.54	0	2661.54	3460.12	3460.12
12	2.35412	6820.61	21.8013	Bedrock (Tvb) TP-5 @ 2.5'	360	32	1960.39	1961.39	2562.76	0	2562.76	3346.91	3346.91
13	2.35412	6550.68	22.0524	Bedrock (Tvb) TP-5 @ 2.5'	360	32	1898.26	1899.23	2463.29	0	2463.29	3232.25	3232.25
14	2.35412	6277.33	22.3039	Bedrock (Tvb) TP-5 @ 2.5'	360	32	1835.7	1836.64	2363.12	0	2363.12	3116.14	3116.14
15	2.35412	6000.53	22.5559	Bedrock (Tvb) TP-5 @ 2.5'	360	32	1772.72	1773.62	2262.26	0	2262.26	2998.57	2998.57
16	2.35412	8724.68	22.8083	Bedrock (Tvb) TP-5 @ 2.5'	360	32	2201.91	2203.03	2949.47	0	2949.47	3875.44	3875.44
17	2.35412	10787.1	23.0612	Bedrock (Tvb) TP-5 @ 2.5'	360	32	2544.68	2545.98	3498.3	0	3498.3	4581.66	4581.66
18	2.35412	10943.9	23.3146	Bedrock (Tvb) TP-5 @ 2.5'	360	32	2570.9	2572.21	3540.27	0	3540.27	4648.25	4648.25
19	2.35412	11071.6	23.5684	Bedrock (Tvb) TP-5 @ 2.5'	360	32	2590.88	2592.2	3572.27	0	3572.27	4702.5	4702.5
20	2.35412	10996.2	23.8228	Bedrock (Tvb) TP-5 @ 2.5'	360	32	2568.49	2569.8	3536.41	0	3536.41	4670.47	4670.47
21	2.35412	10557.4	24.0776	Bedrock (Tvb) TP-5 @ 2.5'	360	32	2470.79	2472.05	3379.99	0	3379.99	4484.07	4484.07
22	2.35412	10203.1	24.333	Bedrock (Tvb) TP-5 @ 2.5'	360	32	2391.06	2392.28	3252.33	0	3252.33	4333.6	4333.6
23	2.35412	9898.07	24.5889	Bedrock (Tvb) TP-5 @ 2.5'	360	32	2321.87	2323.05	3141.54	0	3141.54	4204.03	4204.03

24	2.35412	9589.4	24.8453	Bedrock (Tvb) TP-5 @ 2.5'	360	32	2252.25	2253.4	3030.07	0	3030.07	4072.92	4072.92
25	2.35412	9277.08	25.1022	Bedrock (Tvb) TP-5 @ 2.5'	360	32	2182.22	2183.33	2917.93	0	2917.93	3940.26	3940.26
26	2.35412	8961.09	25.3597	Bedrock (Tvb) TP-5 @ 2.5'	360	32	2111.76	2112.84	2805.13	0	2805.13	3806.05	3806.05
27	2.35412	8641.4	25.6177	Bedrock (Tvb) TP-5 @ 2.5'	360	32	2040.89	2041.93	2691.65	0	2691.65	3670.26	3670.26
28	2.35412	8318	25.8763	Bedrock (Tvb) TP-5 @ 2.5'	360	32	1969.61	1970.61	2577.51	0	2577.51	3532.89	3532.89
29	2.35412	7990.86	26.1354	Bedrock (Tvb) TP-5 @ 2.5'	360	32	1897.9	1898.87	2462.71	0	2462.71	3393.94	3393.94
30	2.35412	7659.95	26.3952	Bedrock (Tvb) TP-5 @ 2.5'	360	32	1825.79	1826.72	2347.25	0	2347.25	3253.38	3253.38
31	2.35412	7325.24	26.6555	Bedrock (Tvb) TP-5 @ 2.5'	360	32	1753.27	1754.16	2231.12	0	2231.12	3111.22	3111.22
32	2.35412	6986.72	26.9164	Bedrock (Tvb) TP-5 @ 2.5'	360	32	1680.33	1681.19	2114.35	0	2114.35	2967.43	2967.43
33	2.35412	6644.35	27.1779	Bedrock (Tvb) TP-5 @ 2.5'	360	32	1606.99	1607.81	1996.92	0	1996.92	2822.01	2822.01
34	2.35412	6298.11	27.44	Bedrock (Tvb) TP-5 @ 2.5'	360	32	1533.25	1534.03	1878.84	0	1878.84	2674.95	2674.95
35	2.35412	5947.97	27.7028	Bedrock (Tvb) TP-5 @ 2.5'	360	32	1459.09	1459.83	1760.1	0	1760.1	2526.23	2526.23
36	2.35412	5593.9	27.9661	Bedrock (Tvb) TP-5 @ 2.5'	360	32	1384.53	1385.24	1640.72	0	1640.72	2375.84	2375.84
37	2.35412	5235.88	28.2302	Bedrock (Tvb) TP-5 @ 2.5'	360	32	1309.57	1310.24	1520.7	0	1520.7	2223.77	2223.77
38	2.35412	4873.87	28.4948	Bedrock (Tvb) TP-5 @ 2.5'	360	32	1234.21	1234.84	1400.04	0	1400.04	2070.02	2070.02
39	2.35412	4507.84	28.7602	Bedrock (Tvb) TP-5 @ 2.5'	360	32	1158.45	1159.04	1278.73	0	1278.73	1914.55	1914.55
40	2.35412	4137.77	29.0262	Bedrock (Tvb) TP-5 @ 2.5'	360	32	1082.29	1082.84	1156.79	0	1156.79	1757.37	1757.37
41	2.35412	3763.62	29.2929	Bedrock (Tvb) TP-5 @ 2.5'	360	32	1005.74	1006.25	1034.22	0	1034.22	1598.45	1598.45
42	2.35412	3385.36	29.5603	Bedrock (Tvb) TP-5 @ 2.5'	360	32	928.79	929.264	911.013	0	911.013	1437.79	1437.79
43	2.35412	3002.96	29.8285	Bedrock (Tvb) TP-5 @ 2.5'	360	32	851.45	851.884	787.18	0	787.18	1275.37	1275.37
44	2.35412	2616.38	30.0973	Bedrock (Tvb) TP-5 @ 2.5'	360	32	773.717	774.112	662.718	0	662.718	1111.18	1111.18
45	2.35412	2225.6	30.3669	Bedrock (Tvb) TP-5 @ 2.5'	360	32	695.596	695.951	537.636	0	537.636	945.199	945.199
46	2.35412	1830.57	30.6372	Bedrock (Tvb) TP-5 @ 2.5'	360	32	617.087	617.402	411.931	0	411.931	777.416	777.416
47	2.35412	1431.26	30.9083	Bedrock (Tvb) TP-5 @ 2.5'	360	32	538.194	538.468	285.609	0	285.609	607.816	607.816
48	2.35412	1027.63	31.1801	Bedrock (Tvb) TP-5 @ 2.5'	360	32	458.916	459.15	158.673	0	158.673	436.384	436.384

49	2.35412	619.656	31.4527	Bedrock (Tvb) TP-5 @ 2.5'	360	32	379.256	379.449	31.1254	0	31.1254	263.104	263.104
50	2.35412	207.287	31.7262	Bedrock (Tvb) TP-5 @ 2.5'	360	32	299.216	299.369	-97.0299	0	-97.0299	87.9587	87.9587

Entity Information

◆ SecAA_Static_Circular

Shared Entities

Type	Coordinates (x,y)
External Boundary	0, 510 0, 500 135, 500 135, 565.9 60.8, 565.9 60.8, 567 57, 566 49.6, 561.1 49.5, 544 24.1, 544 24, 542.6 16.6, 536 13.3, 530 13.3, 510

Scenario-based Entities

Type	Coordinates (x,y)	Master Scenario	SecAA_Seismic_Circular	SecAA_Seismic_Circular_Shear Pin	SecAA_Static_Block	SecAA_Seismic_Block
Distributed Load	0, 510 11, 510	Constant DistributionOrientation: VerticalMagnitude: 300 lbs/ft2Creates Excess Pore Pressure: No	Constant DistributionOrientation: VerticalMagnitude: 300 lbs/ft2Creates Excess Pore Pressure: No	Constant DistributionOrientation: VerticalMagnitude: 300 lbs/ft2Creates Excess Pore Pressure: No	Constant DistributionOrientation: VerticalMagnitude: 300 lbs/ft2Creates Excess Pore Pressure: No	Constant DistributionOrientation: VerticalMagnitude: 300 lbs/ft2Creates Excess Pore Pressure: No
Distributed Load	24.1, 544 49.5, 544	Constant DistributionOrientation: VerticalMagnitude: 450 lbs/ft2Creates Excess Pore Pressure: No	Constant DistributionOrientation: VerticalMagnitude: 450 lbs/ft2Creates Excess Pore Pressure: No	Constant DistributionOrientation: VerticalMagnitude: 450 lbs/ft2Creates Excess Pore Pressure: No	Constant DistributionOrientation: VerticalMagnitude: 450 lbs/ft2Creates Excess Pore Pressure: No	Constant DistributionOrientation: VerticalMagnitude: 450 lbs/ft2Creates Excess Pore Pressure: No
Block Search Window	2.712, 504.273 25.37, 504.273 25.37, 508.882 2.616, 508.882					

Block Search Window	52.925, 534.228 84.319, 558.043 81.439, 561.59 50.332, 537.684					
Distributed Load	0, 510 11, 510					Constant Distribution Orientation: Vertical Magnitude: 300 lbs/ft ² Create s Excess Pore Pressure: No
Block Search Window	2.712, 504.273 25.37, 504.273 25.37, 508.882 2.616, 508.882					
Block Search Window	52.925, 534.228 84.319, 558.043 81.439, 561.59 50.332, 537.684					

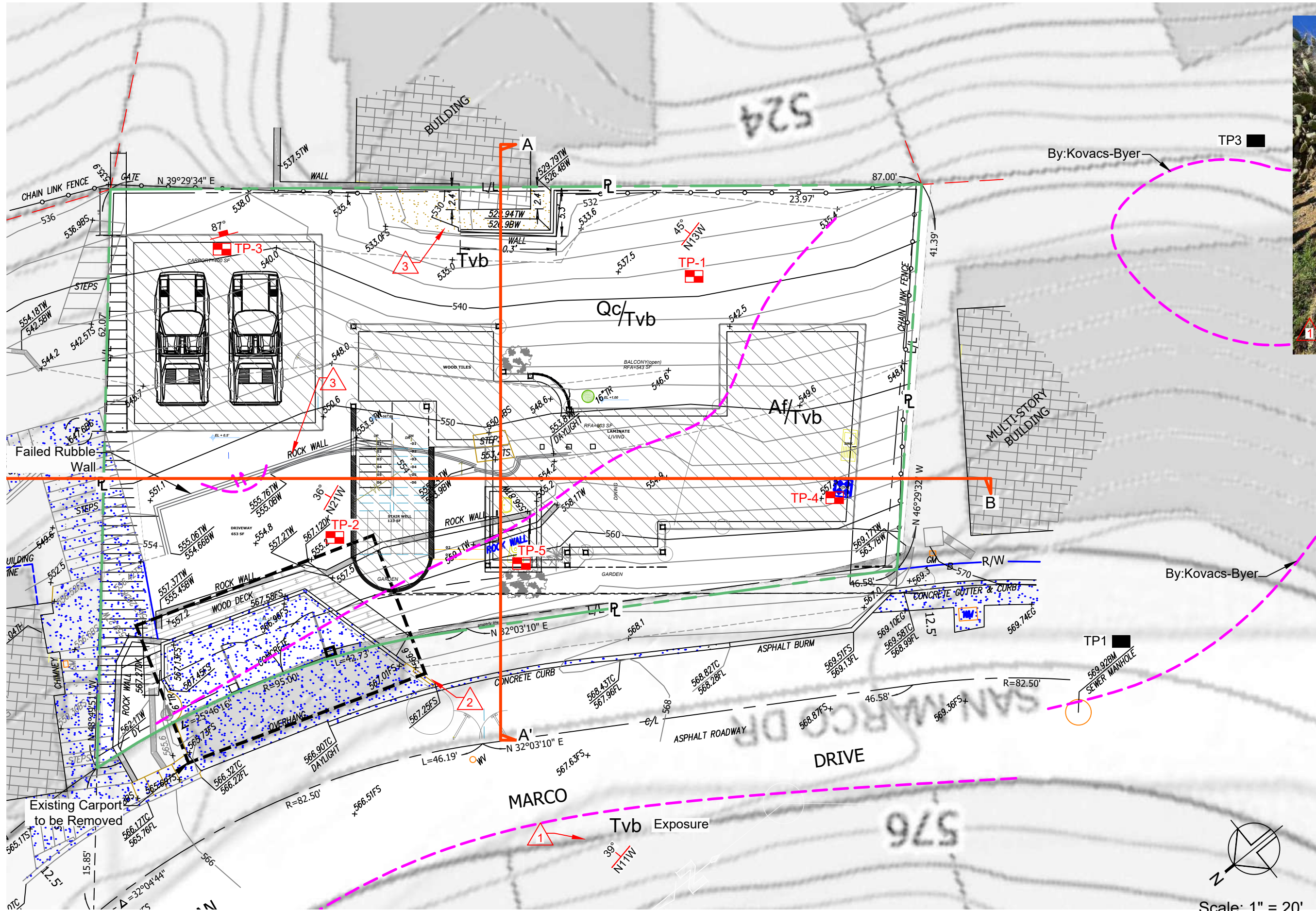
◆ **SecAA Seismic Circular FS=1.0**

Shared Entities

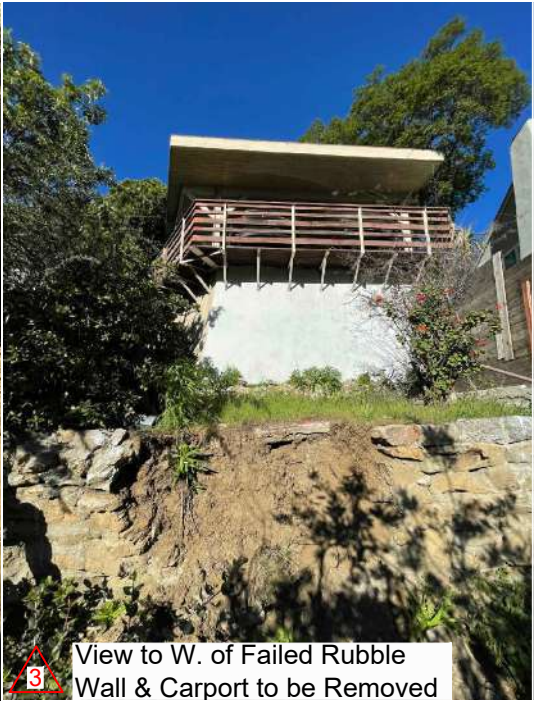
Type	Coordinates (x,y)
External Boundary	0, 510 0, 500 200, 500 200, 565.9 60.8, 565.9 60.8, 567 57, 566 49.6, 561.1 49.5, 544 24.1, 544 24, 542.6 16.6, 536 13.3, 530 13.3, 510

Scenario-based Entities

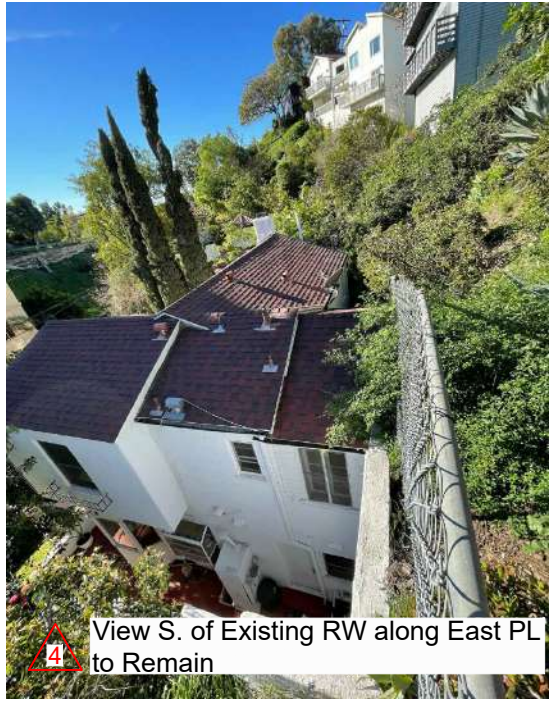
Type	Coordinates (x,y)	Master Scenario
Distributed Load	0, 510 11, 510	Constant DistributionOrientation: VerticalMagnitude: 300 lbs/ft2Creates Excess Pore Pressure: No
Distributed Load	24.1, 544 49.5, 544	Constant DistributionOrientation: VerticalMagnitude: 450 lbs/ft2Creates Excess Pore Pressure: No



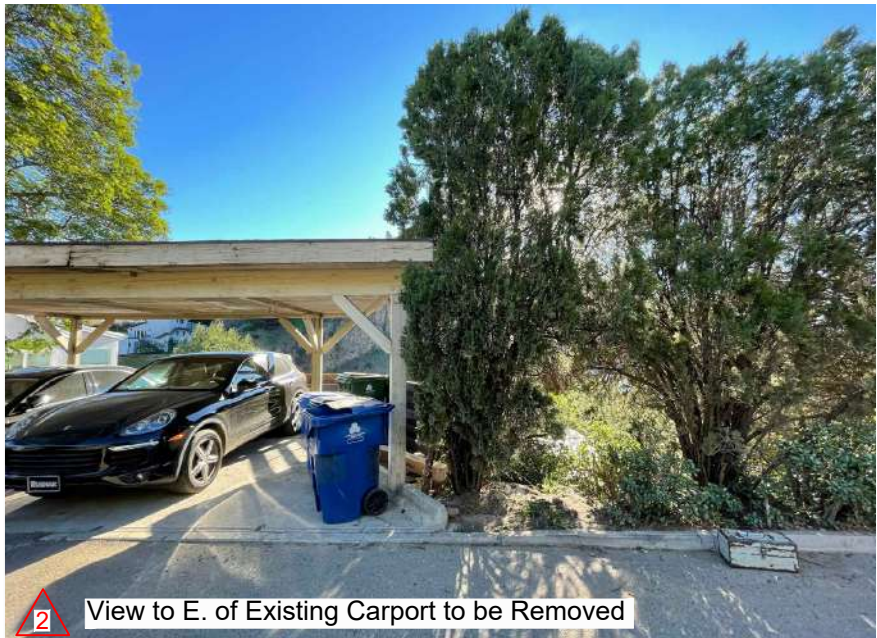
1 Exposed Bedded Volcanic Bedrock, West Side of San Marco Road Across from Site



3 View to W. of Failed Rubble Wall & Carport to be Removed



4 View S. of Existing RW along East PL to Remain

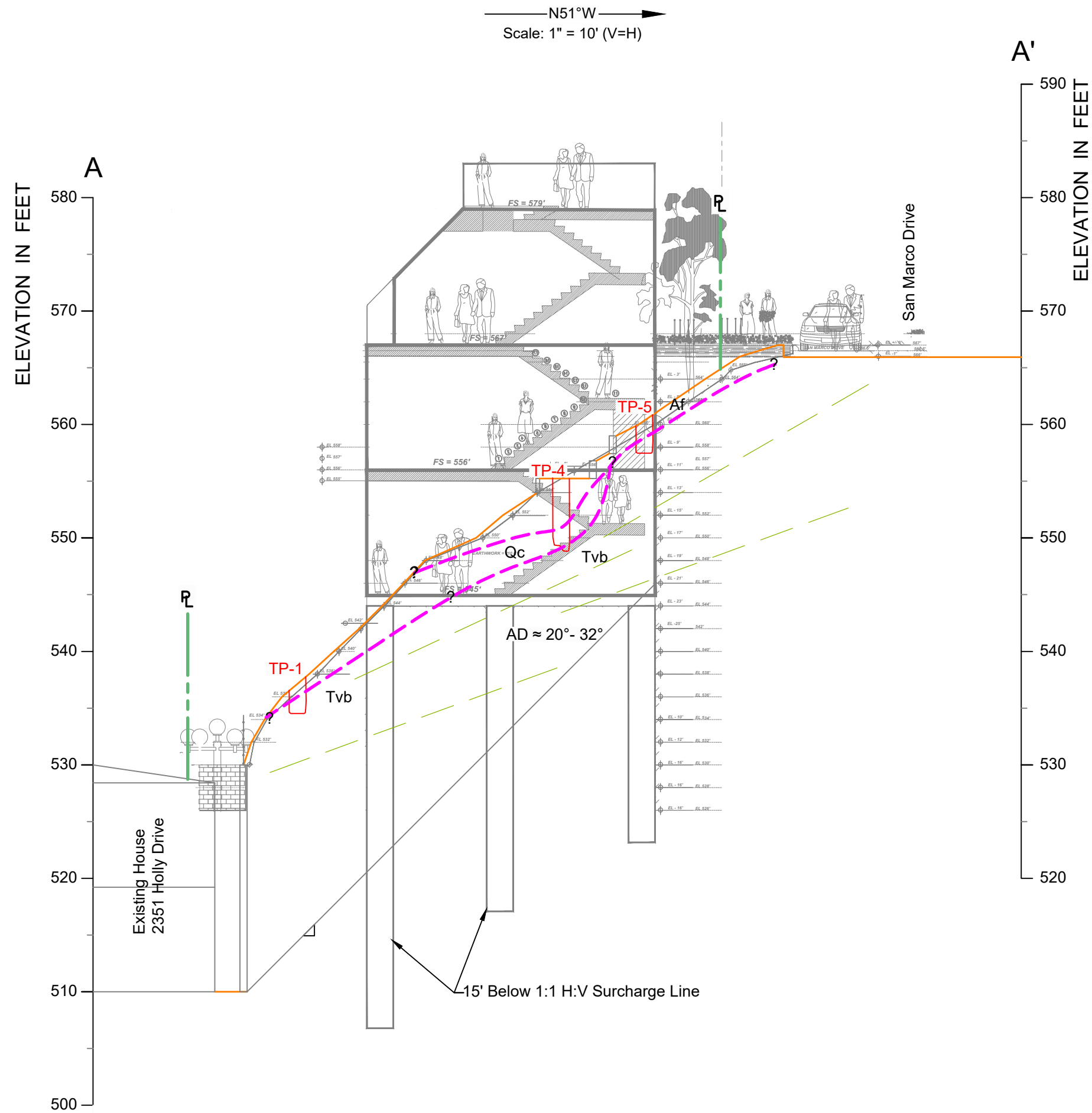


2 View to E. of Existing Carport to be Removed

- LEGEND:**
- Af = Artificial Fill
 - Qc = Colluvium
 - Tvb = Bedrock
 - TP-5 = Location & Number of Test Pit
 - TP3 = Location & Number of Test Pit (By: Kovacs-Byer & Associates, Inc.)
 - 20° N30W = Strike & Dip of Bedding
 - 20° = Strike & Dip of Joint

Note:
Site plan prepared by using plan provided by:
-Mfredeluces Company, Date: 01-13-2020
-Topographic Lines outside subject property are based on Navigate LA Map.

GEOLOGIC MAP & SITE PLAN		PROJECT No: 22-307-22	
DESCRIPTION: Proposed Single Family Residence		DATE:	03 / 14 / 2022
FOR: Black Whale Properties, LLC		DRAWN BY:	TG
ADDRESS: 2360 San Marco Drive, Los Angeles, CA 90068		CHECKED BY:	SM
 Applied Earth Sciences		DRAWING No: 1	
GEOTECHNICAL . GEOLOGY . ENVIRONMENTAL ENGINEERING CONSULTANTS		www.aessoil.com (818) 552-6000	

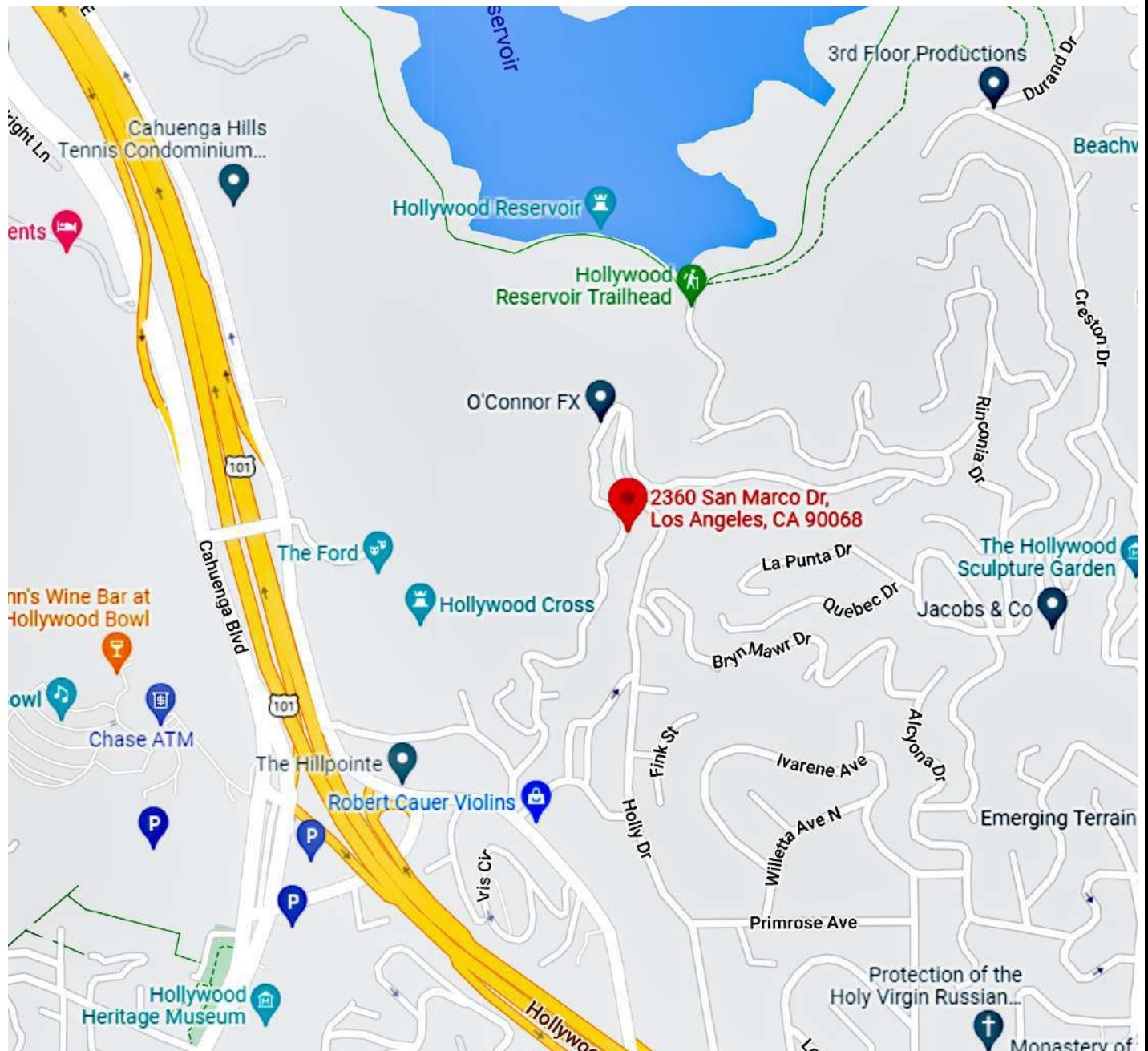


LEGEND:
Af = Artificial Fill
Qc = Colluvium
Tvb = Bedrock

TP-5  = Location & Number of Test Pit
 = Geological Contact
Approximately Located

GEOLOGIC CROSS SECTION A-A'

DESCRIPTION: Proposed Single Family Residence FOR: Black Whale Properties, LLC ADDRESS: 2360 San Marco Drive, Los Angeles, CA 90068	PROJECT No:	22-307-22
	DATE:	03 / 14 / 2022
	DRAWN BY:	TG
	CHECKED BY:	SM
 GEOTECHNICAL · GEOLOGY · ENVIRONMENTAL ENGINEERING CONSULTANTS www.aessoil.com (818) 552-6000	DRAWING No:	2



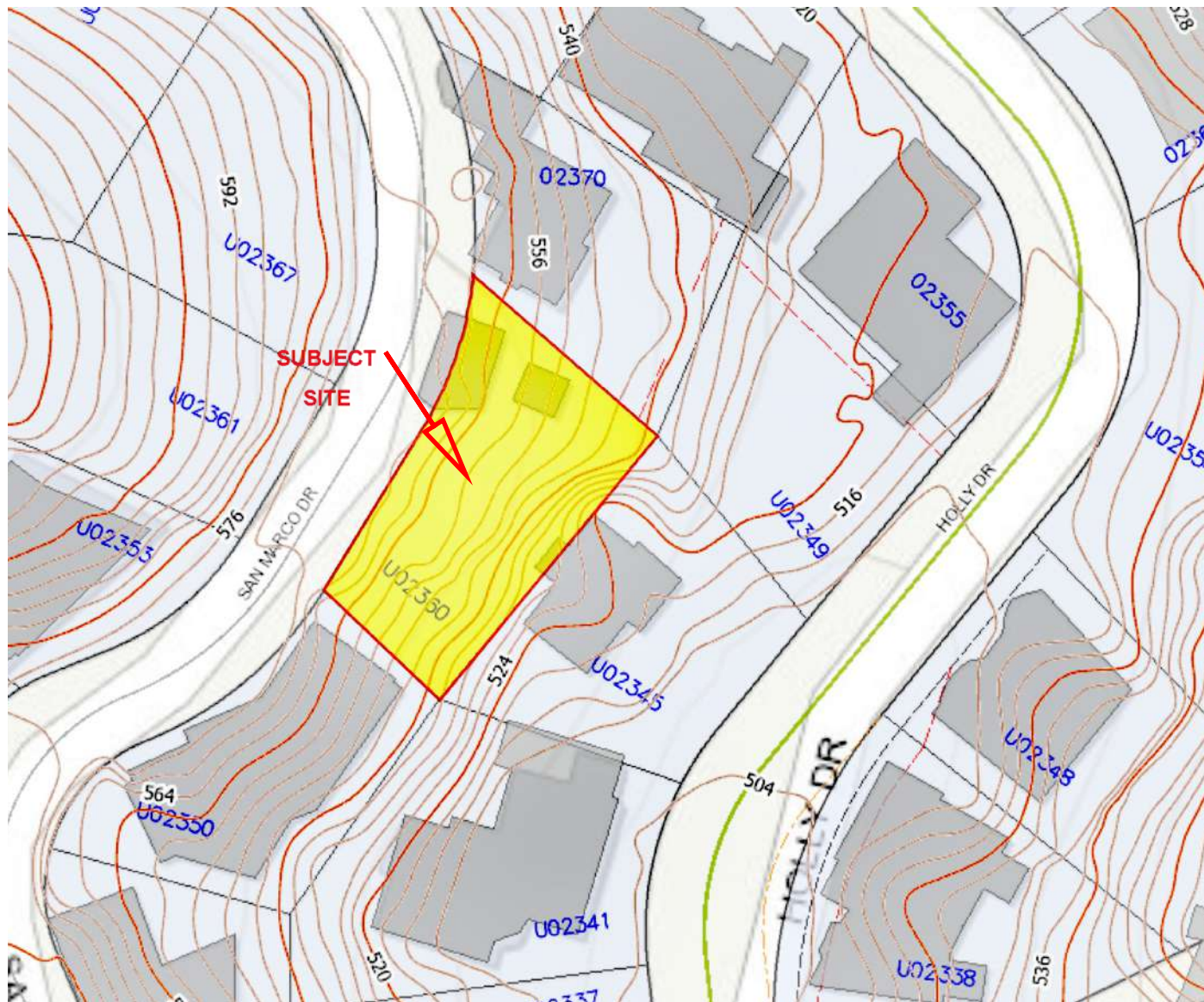
Reference: Portion of Google Maps

SITE VICINITY MAP

Proposed Single Family Residence

2360 San Marco Drive, Los Angeles, CA 90068

FOR	DATE	PROJECT No.
Black Whale Properties, LLC	03 / 14 / 2022	22-307-22
 APPLIED EARTH SCIENCES GEOTECHNICAL . GEOLOGY . ENVIRONMENTAL ENGINEERING CONSULTANTS		FIGURE No.
		1



Reference: Navigate LA Map

REGIONAL TOPOGRAPHIC MAP

Proposed Single Family Residence

2360 San Marco Drive, Los Angeles, CA 90068

FOR

Black Whale Properties, LLC

DATE

03 / 14 / 2022

PROJECT No.

22-307-22

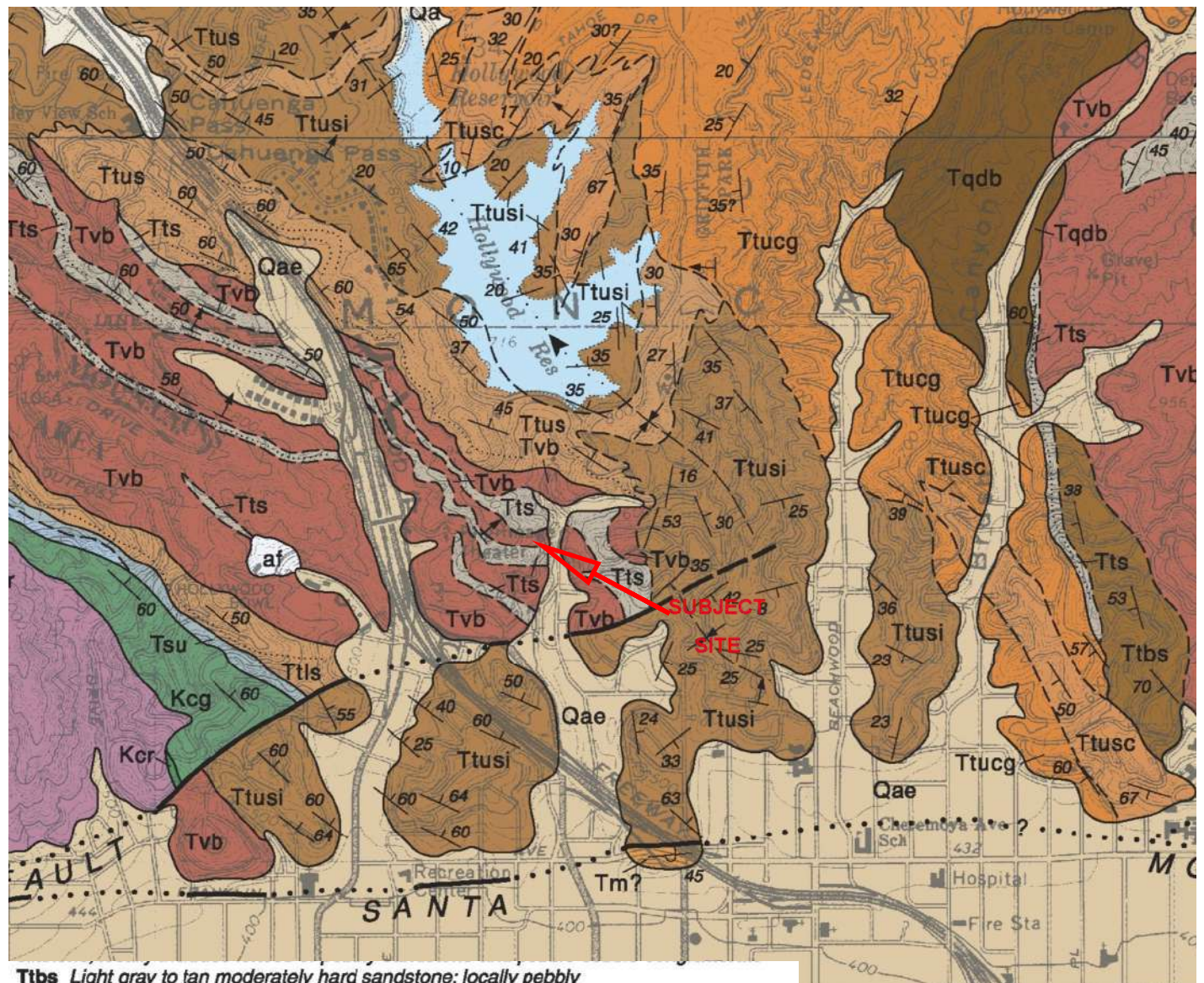


APPLIED EARTH SCIENCES

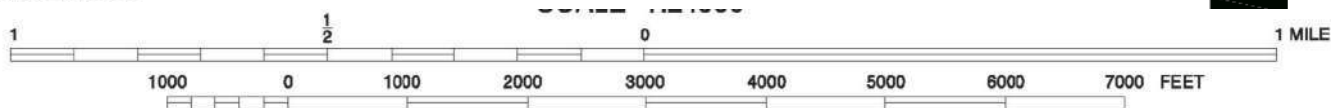
GEOTECHNICAL . GEOLOGY . ENVIRONMENTAL ENGINEERING CONSULTANTS

FIGURE No.

2



Ttbs Light gray to tan moderately hard sandstone; locally pebbly
Tts Dark gray sandstone of basaltic grains (basaltic graywacke of Neuerburg 1953)
Tvb Basaltic volcanic rocks: dark gray to black, fine grained, massive to locally vesicular and/or pillowed; composed of mafic minerals (augite and olivine) and plagioclase feldspar; somewhat incoherent where weathered; may be in part intrusive; probably correlative with Conejo Volcanics of Yerkes and Campbell 1979; **Ttsi** and **Tvb** overlie granitic basement in Griffith Park area



Reference: Dibblee Geologic Map of the Hollywood Quadrangle

REGIONAL GEOLOGIC MAP

Proposed Single Family Residence

2360 San Marco Drive, Los Angeles, CA 90068

FOR

Black Whale Properties, LLC

DATE

03 / 14 / 2022

PROJECT No.

22-307-22

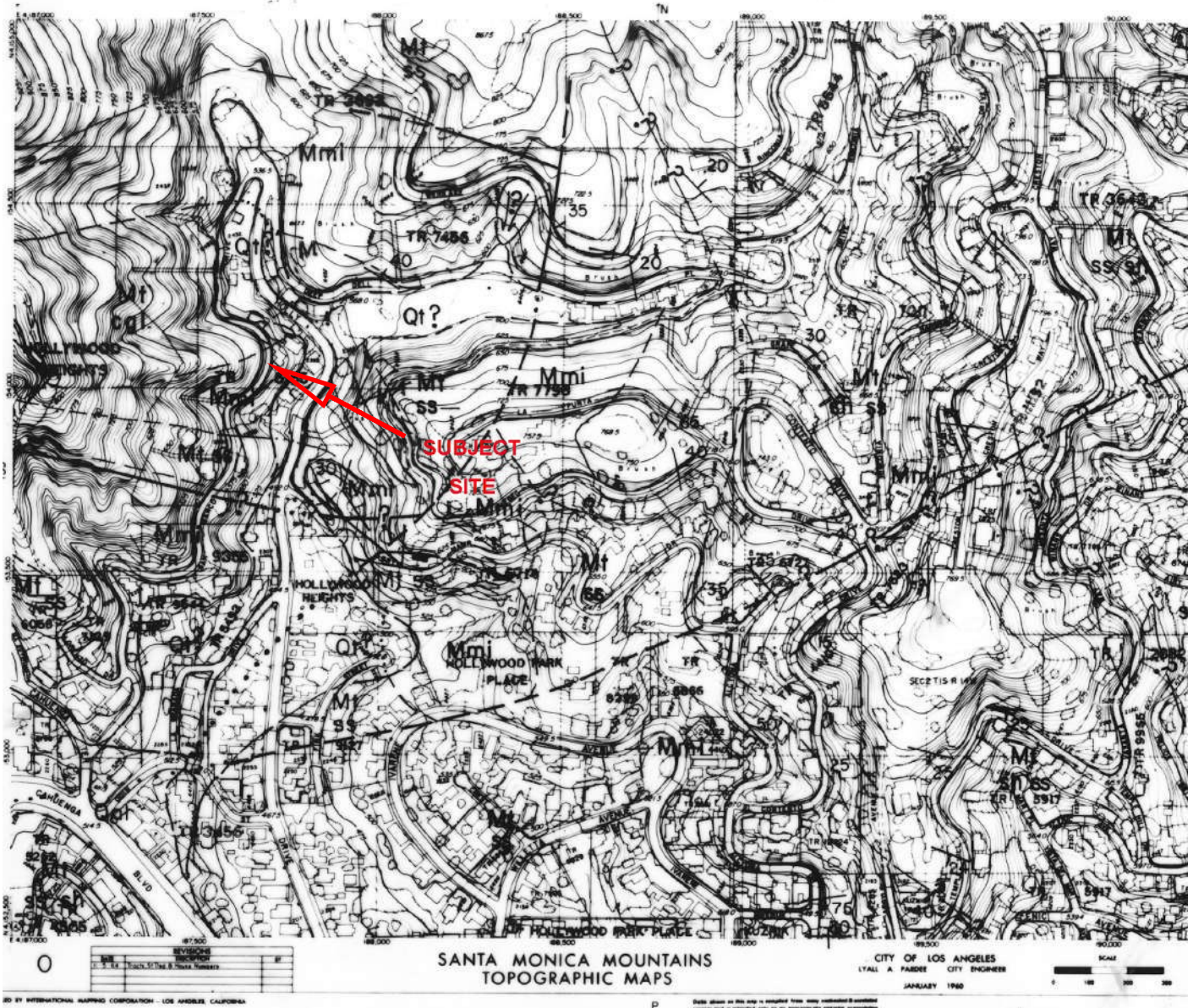


APPLIED EARTH SCIENCES

GEOTECHNICAL . GEOLOGY . ENVIRONMENTAL ENGINEERING CONSULTANTS

FIGURE No.

3



RELIMINARY GEOLOGIC MAPS



Santa Monica Mountains Topographic Maps Sheet No. O

LA PRELIMINARY GEOLOGIC MAP

Proposed Single Family Residence

2360 San Marco Drive, Los Angeles, CA 90068

FOR	DATE	PROJECT No.
Black Whale Properties, LLC	03 / 14 / 2022	22-307-22
 APPLIED EARTH SCIENCES GEOTECHNICAL . GEOLOGY . ENVIRONMENTAL ENGINEERING CONSULTANTS		FIGURE No.
		4

APPENDIX I

METHOD OF FIELD EXPLORATION

In order to define the subsurface conditions, five test pits were excavated at the site. The approximate locations of the test pits are shown on the enclosed Geologic Map & Site Plan; Drawing No. 1. The test pits were excavated with hand tools.

Continuous logs of the subsurface conditions, as encountered in the test pits were recorded during the field work and are presented on Figure Nos. I-1 through I-5 within this Appendix. These figures also show the number and approximate depths of each of the recovered soil and rock samples.

Relatively undisturbed samples of the subsurface materials were obtained by driving a steel sampler with successive drops of a 50-pound metal weight free-falling a vertical distance of about 30 inches. The number of blows required for one foot of sampler penetration was recorded at the time of drilling and are shown on the log of exploratory borings. The relatively undisturbed soil samples were retained in brass liner rings 2.5 inches in diameter and 1.0 inch in height.

Field investigation for this project was performed on February 12, 2022. The materials excavated from the test pits were placed back and compacted upon completion of the field work. Such material may settle. The owner should periodically inspect these areas and notify this office if the settlement creates a hazard to persons or property.

Date: February 14, 2022

Project No: 22-307-22

Figure No. I-1

EXPLORATORY TEST PIT NO. 1

PROJECT: 2360 San Marco Drive, LA

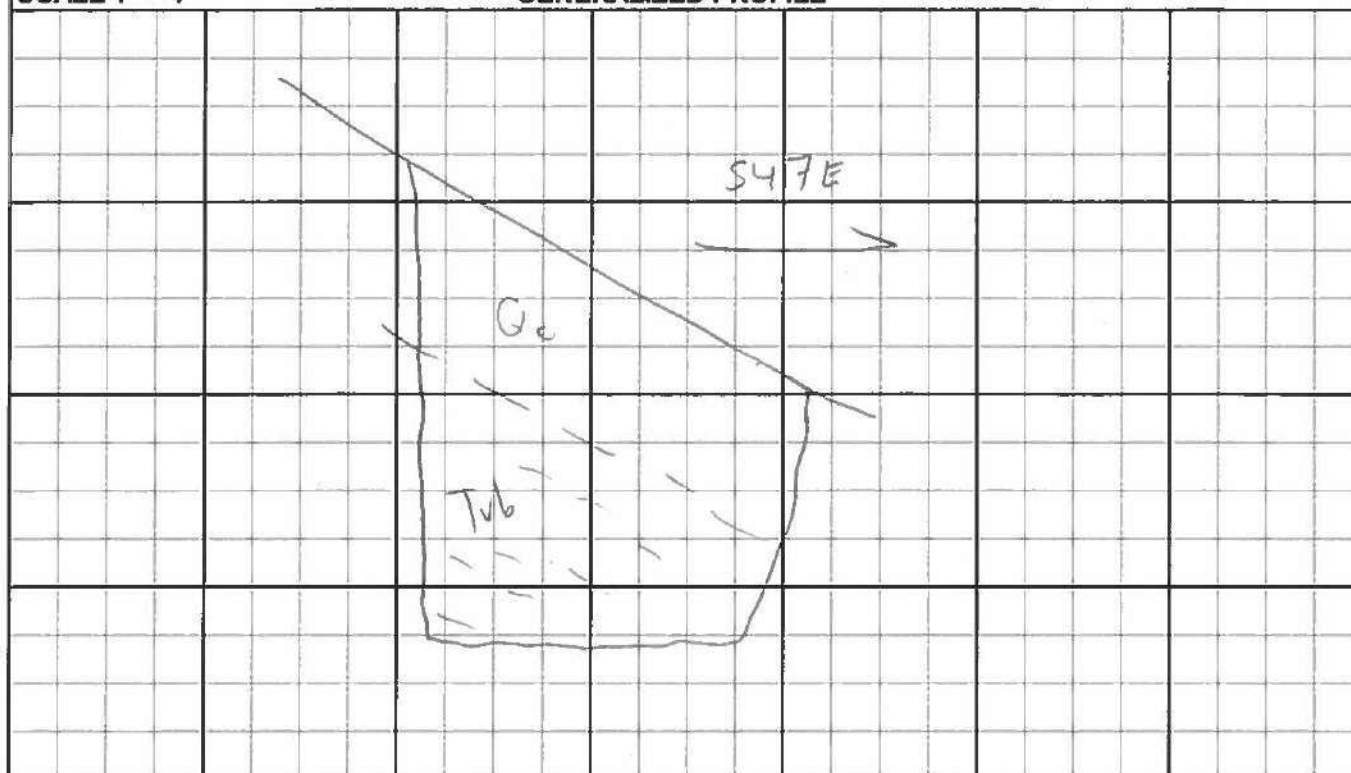
PROJECT TYPE: New SFR

DATE LOGGED: February 12, 2022

LOGGED BY: S. Minas

DRY DENSITY (PCF)	FIELD MOISTURE (% DRY WEIGHT)	ATTITUDE	BLOWS PER FOOT	MATERIAL TYPE	MATERIAL DESCRIPTION
80	19			Soil (Qc)	earth cover 0' - 1': Colluvium, slough and mixed slopewash hillslope soil, slightly moist, light brown to orange brown, gravelly silt (ML-GM), creep-prone, roots, loose
132	8	N13W 45NE bed.		Bedrock (Tvb)	1' - 2.5': Volcaniclastic Bedrock, basalt, orange to reddish brown, damp, dense, relict bedding, weathered. End of Test Pit at 2.5'. No Water, No Caving. Test Pit backfilled to surface after logging.

SCALE 1" = 1'

GENERALIZED PROFILE**Applied Earth Sciences**

Date: February 14, 2022

Project No: 22-307-22

Figure No. I-2

EXPLORATORY TEST PIT NO. 2

PROJECT: 2360 San Marco Drive, LA

PROJECT TYPE: New SFR

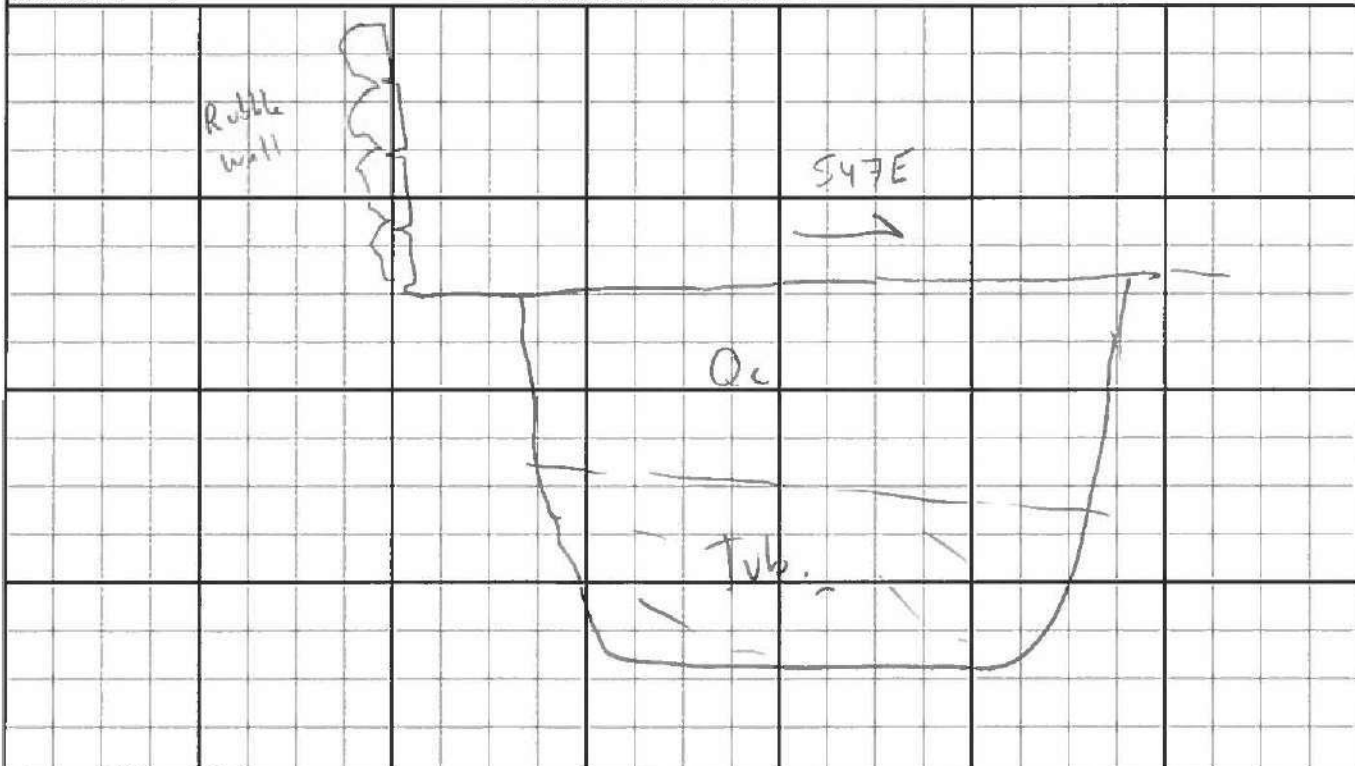
DATE LOGGED: February 12, 2022

LOGGED BY: S. Minas

DRY DENSITY (PCF)	FIELD MOISTURE (% DRY WEIGHT)	ATTITUDE	BLOWS PER FOOT	MATERIAL TYPE	MATERIAL DESCRIPTION
111	11	N21W 36NE bed.		Soil (Qc) Bedrock (Tvb)	earth cover 0' - 1': Colluvium, slough and mixed slopewash hillslope soil, slightly moist, light brown to orange brown, gravelly silt (ML-GM), roots 1' - 2': Volcaniclastic Bedrock, basalt, orange to reddish brown, damp, tight, dense, relict bedding, weathered, fractured. Test pit excavated just below rock-rubble wall End of Test Pit at 2'. No Water, No Caving. Test Pit backfilled to surface after logging.

SCALE 1" = 1'

GENERALIZED PROFILE



Date: February 14, 2022

Project No: 22-307-22

Figure No. I-3

EXPLORATORY TEST PIT NO. 3

PROJECT: 2360 San Marco Drive, LA

PROJECT TYPE: New SFR

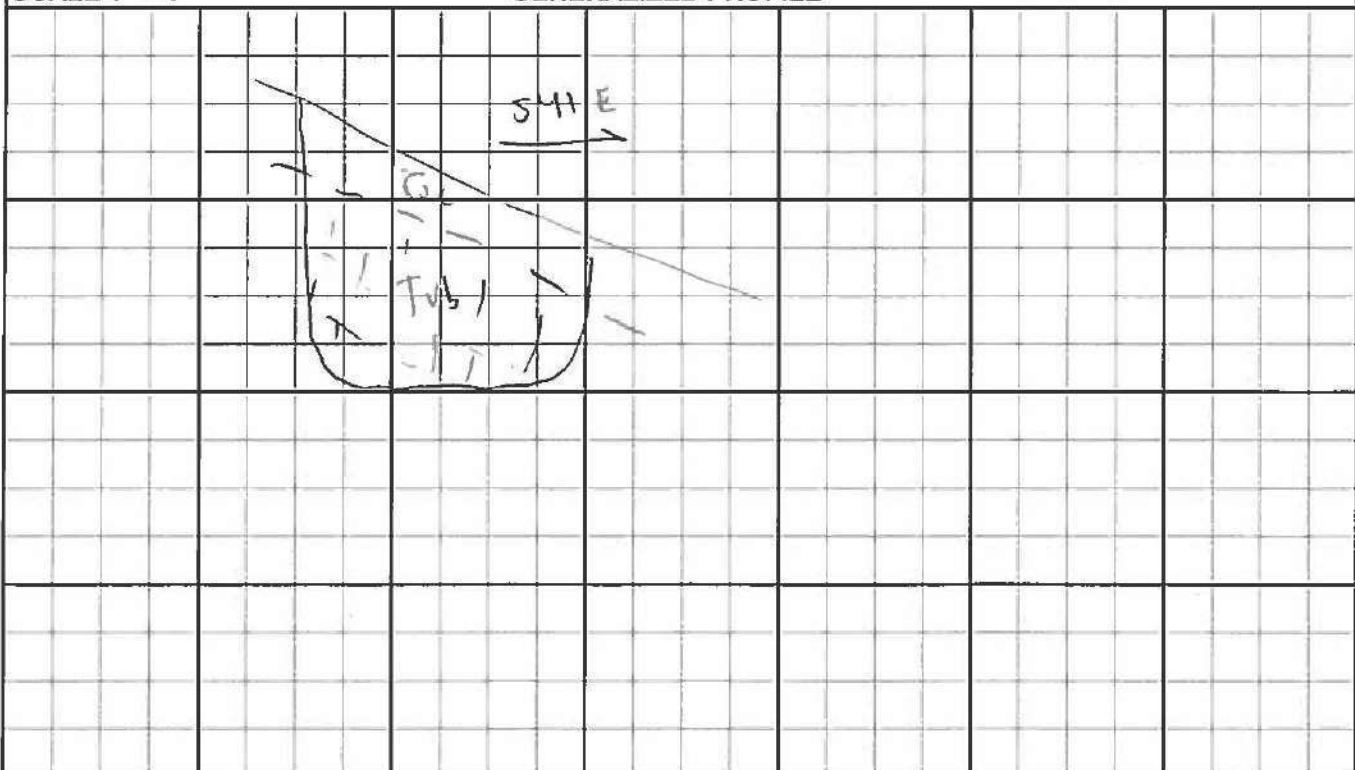
DATE LOGGED: February 12, 2022

LOGGED BY: S. Minas

DRY DENSITY (PCF)	FIELD MOISTURE (% DRY WEIGHT)	ATTITUDE	BLOWS PER FOOT	MATERIAL TYPE	MATERIAL DESCRIPTION
		N24E 87 fract.		Soil (Qc)	earth cover 0' - 6": Colluvium, slough and mixed slopewash hillslope soil, slightly moist, light brown to orange brown, gravelly silt (ML-GM), roots
				Bedrock (Tvb)	0.5' - 1.5': Volcaniclastic Bedrock, basalt, orange to reddish brown, damp, tight, dense, relict bedding, weathered, fractured. Blocky fracture
					Test pit excavated 10' west of property line retaining wall
					End of Test Pit at 1.5'. No Water, No Caving. Test Pit backfilled to surface after logging.

SCALE 1" = 1'

GENERALIZED PROFILE



Date: February 14, 2022

Project No: 22-307-22

Figure No. I-4

EXPLORATORY TEST PIT NO. 4

PROJECT: 2360 San Marco Drive, LA

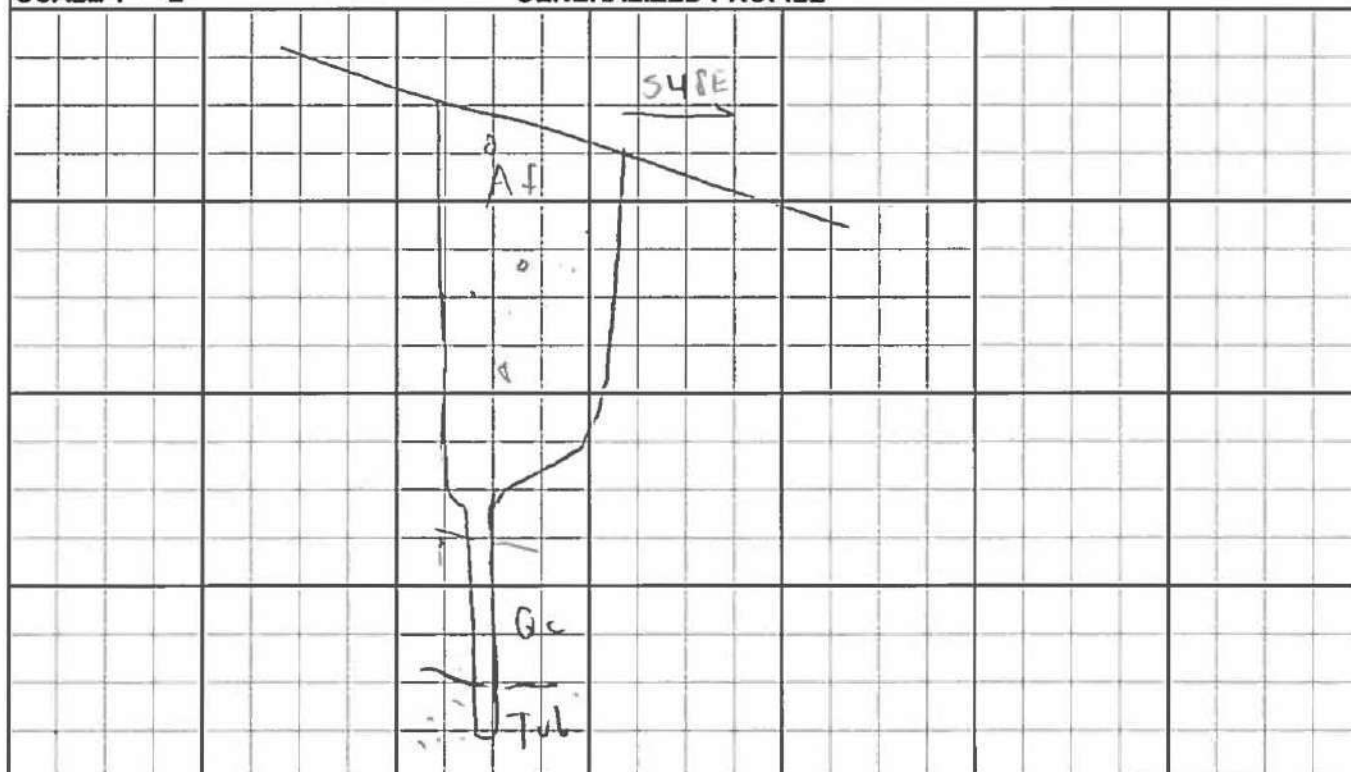
PROJECT TYPE: New SFR

DATE LOGGED: February 12, 2022

LOGGED BY: S. Minas

DRY DENSITY (PCF)	FIELD MOISTURE (% DRY WEIGHT)	ATTITUDE	BLOWS PER FOOT	MATERIAL TYPE	MATERIAL DESCRIPTION
93 @2'	17			Fill (Af)	earth cover 0' - 4.5': FILL, road fill or utility backfill along south side of property. Silty gravelly sand (SM), scattered debris
				Soil (Qc)	4.5' - 6': Colluvium, slough and mixed slopewash hillslope soil, slightly moist, light brown to orange brown, gravelly silt (ML-GM), roots
108 @6.5'	13			Bedrock (Tvb)	6' - 6.5': Volcaniclastic Bedrock, basalt, orange to reddish brown, damp, tight, medium dense, moderately to highly weathered.
					End of Test Pit at 6.5'. No Water, No Caving. Test Pit backfilled to surface after logging.

SCALE 1" = 2'

GENERALIZED PROFILE

Date: February 14, 2022

Project No: 22-307-22

Figure No. I-5

EXPLORATORY TEST PIT NO. 5

PROJECT: 2360 San Marco Drive, LA

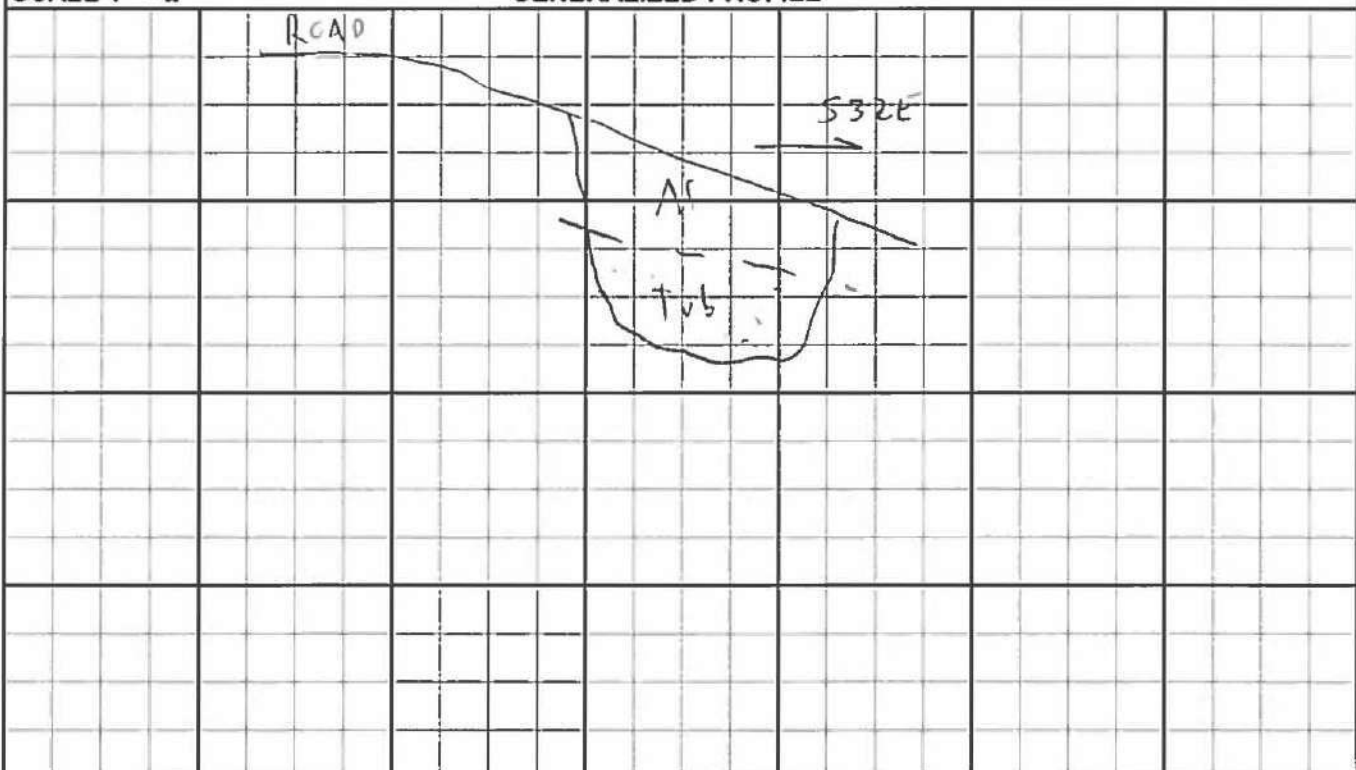
PROJECT TYPE: New SFR

DATE LOGGED: February 12, 2022

LOGGED BY: S. Minas

DRY DENSITY (PCF)	FIELD MOISTURE (% DRY WEIGHT)	ATTITUDE	BLOWS PER FOOT	MATERIAL TYPE	MATERIAL DESCRIPTION
94 @1'	14			Fill (Af)	earth cover 0' - 1.5': FILL, road spill fill. Silty gravelly sand (SM-GM), scattered debris, rock fragments, rootlets
102 @2.5'	12			Bedrock (Tvb)	1.5' - 2' 8": Volcaniclastic Bedrock, basalt, orange to reddish brown, damp, tight, medium dense, moderately to highly weathered. End of Test Pit at 2.67'. No Water, No Caving. Test Pit backfilled to surface after logging.

SCALE 1" = 2'

GENERALIZED PROFILE

MAJOR DIVISIONS			GROUP SYMBOLS	TYPICAL NAME
COARSE GRAINED SOILS (More than 50% of material is LARGER than No. 200 sieve size)	GRAVELS (More than 50% of coarse fraction is LARGER than the No. 4 sieve size)	CLEAN GRAVELS (Little or no fines)	 GW	Well graded gravels, gravel - sand mixtures, little or no fines.
			 GP	Poorly graded gravels or gravel-sand mixtures, little or no fines.
		GRAVELS WITH FINES (Appreciable amt. of fines)	 GM	Silty gravels, gravel-sand-silt mixtures.
			 GC	Clayey gravels, gravel-sand-clay mixtures.
	SANDS (More than 50% of coarse fraction is SMALLER than the No. 4 sieve size)	CLEAN SANDS (Little or no fines)	 SW	Well graded sands, gravelly sands, little or no fines.
			 SP	Poorly graded sands or gravelly sands, little or no fines.
		SANDS WITH FINES (Appreciable amt. of fines)	 SM	Silty sands, sand-silt mixtures.
			 SC	Clayey sands, sand-clay mixtures.
FINE GRAINED SOILS (More than 50% of material is SMALLER than No. 200 sieve size)	SILTS AND CLAYS (Liquid limit LESS than 50)	 ML	Organic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity.	
		 CL	Organic clay of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays.	
		 OL	Organic silts and organic silty clays of low plasticity.	
	SILTS AND CLAYS (Liquid limit GREATER than 50)	 MH	Organic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts.	
		 CH	Organic clays of high plasticity, fat clays.	
		 OH	Organic clays of medium to high plasticity, organic silts.	
		HIGHLY ORGANIC SOILS		Pt

BOUNDARY CLASSIFICATIONS: Soils possessing characteristics of two groups are designated by combinations of group symbols.

PARTICLE SIZE LIMITS

SILT OR CLAY	SAND			GRAVEL		COBBLES	BOULDERS
	FINE	MEDIUM	COARSE	FINE	COARSE		
	NO. 200	NO. 40	NO. 10	NO. 4	3/4 in.	3 in.	(12 in.)
U. S. STANDARD SIEVE SIZE							

UNIFIED SOIL CLASSIFICATION SYSTEM

PROJECT ADDRESS : 2360 San Marco Drive, Los Angeles, CA 90068

JOB No.

22-307-22



APPLIED EARTH SCIENCES
GEOTECHNICAL . GEOLOGY . ENVIRONMENTAL . ENGINEERING CONSULTANTS

www.aessoil.com
(818) 552-6000

FIGURE No.

I-6

APPENDIX II

LABORATORY TESTING PROCEDURES

MOISTURE DENSITY

The moisture-density information provides a summary of soil consistency for each stratum and can also provide a correlation between soils found on this site and other nearby sites. The dry unit weight and field moisture content were determined for each undisturbed sample, and the results are shown on the log of exploratory borings.

SHEAR AND RE-SHEAR TESTS

After the samples are pre-soaked overnight under initial confining pressure, a range of normal stresses are applied vertically, and the shear strengths are progressively determined under each load in order to determine the internal angle of friction and the cohesion of the sample. After application of each of the confining pressures, and before the shearing tests, sufficient amount of time is allowed for any excess pore pressure to dissipate. During the course of shear test, the sample is allowed to undergo volume change under a given confining pressure. Under each load, the direct shear tests are continued until the ultimate strength or about 3 percent strain (whichever is lower) is reached. The sample is then allowed to relax to remove the major portion of the viscous component of the shear strength. It should be noted that due to normal disturbance during sampling and laboratory extruding, the measured bedrock strengths are normally significantly lower than the actual values.

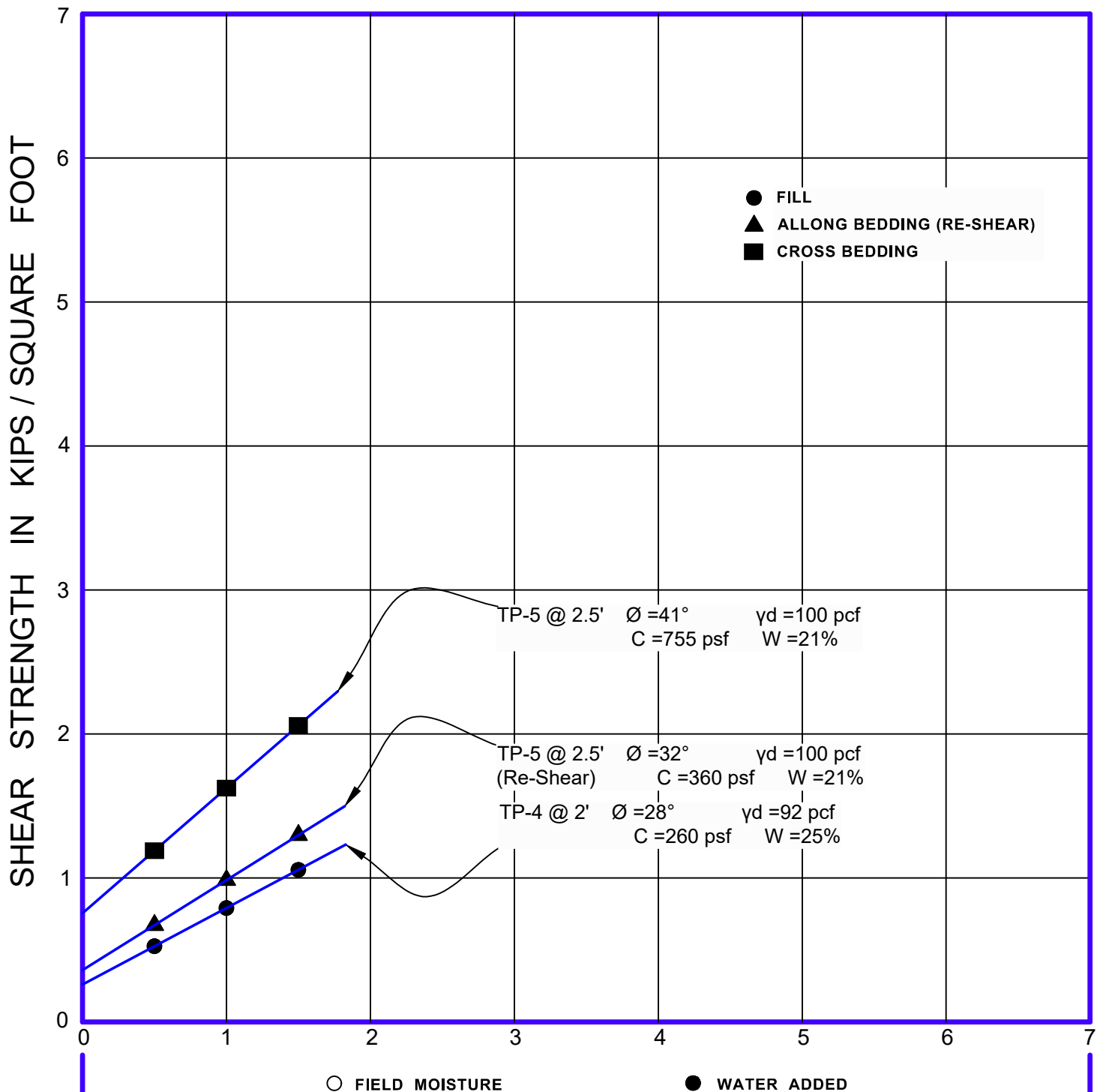
In order to determine the strength of the bedrock along bedding, foliation or joint planes or landslide debris strengths, the sample is soaked overnight under initial confining pressure. The sample is then re-sheared several times until the least strengths are obtained. During typical testing, the shearing of the samples is continued until the residual strengths are developed (the shear strengths remain constant, after the peak has been reached, or about 5 percent strain corresponding to approximately 0.100 inches of shearing deformation has occurred). At this point, the tests are stopped. The samples are then pushed back to their original position. The shear test procedure is then repeated along the previously sheared plane. This procedure is repeated several times until constant residual strengths are obtained.

CONSOLIDATION

The apparatus used for the consolidation tests is designed to receive the undisturbed brass ring of soil as it comes from the field. Loads were applied to the test specimen in several increments, and the resulting deformations were recorded at selected time intervals. Porous stones were placed in contact with the top and bottom of the specimen to permit the ready addition or release of water.

Undisturbed specimens were tested at the field and added water conditions. The test results are shown on Figure No. II-2 within this Appendix.

NORMAL STRESS IN KIPS / SQUARE FOOT



DIRECT SHEAR TESTS

PROJECT ADDRESS : 2360 San Marco Drive, Los Angeles, CA 90068

JOB No.

22-307-22



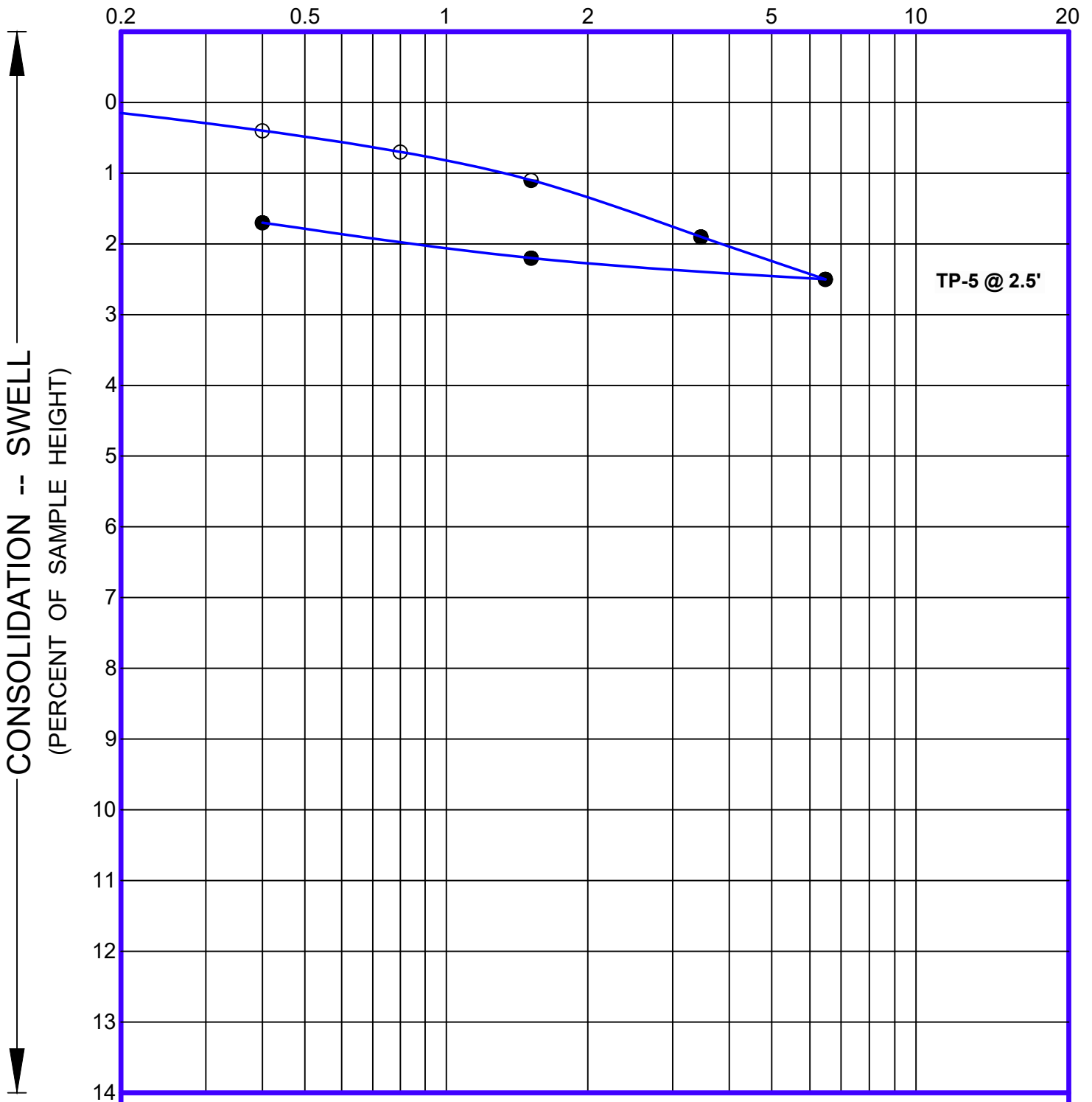
APPLIED EARTH SCIENCES
GEOTECHNICAL . GEOLOGY . ENVIRONMENTAL . ENGINEERING CONSULTANTS

www.aessoil.com
(818) 552-6000

FIGURE No.

II - 1

PRESSURE IN KIPS PER SQUARE FOOT



TP-5 @ 2.5'

○ FIELD MOISTURE



● WATER ADDED

SWELL - CONSOLIDATION TESTS

PROJECT ADDRESS : 2360 San Marco Drive, Los Angeles, CA 90068

JOB No.

22-307-22



APPLIED EARTH SCIENCES
GEOTECHNICAL . GEOLOGY . ENVIRONMENTAL . ENGINEERING CONSULTANTS

www.aessoil.com
(818) 552-6000

FIGURE No.

II - 2

Appendix III
Copies Of Prior Reports For Lot 21
(PDF Soft Copy Only)

CITY OF LOS ANGELES
CALIFORNIA

COMMISSIONERS

BENITO A. SINCLAIR
PRESIDENT
REVELACION P. ABRACOSA
VICE-PRESIDENT
RICHARD W. HARTZLER
MARCIA MARCUS
TOM WOO



TOM BRADLEY
MAYOR

DEPARTMENT OF
BUILDING AND SAFETY
407, CITY HALL
LOS ANGELES, CA 90012-4869

WARREN V. O'BRIEN
GENERAL MANAGER

TIMOTHY TAYLOR
EXECUTIVE OFFICER

GRADING CERTIFICATE

CERTIFICATE ISSUED: June 11, 1993

OWNER: Ivan Slavou
1825 Laurel Canyon Blvd.
Los Angeles, CA 90046

ADDRESS: 2350 San Marco Drive
TRACT: 5155 BLOCK: LOT: 21 CTY REF:
PERMIT NO/YEAR: LA88 17102/ LA88 12103

CUT: 12' 90 House retaining wall under driveway and by street

FILL: 12' House retaining wall under driveway by street

REMOVAL & RECOMPACTION: House retaining wall 12' deep

BEARING VALUE: Secondary fill

RETAINING WALLS: 12' high retainign wall by street

DRAINAGE DEVICES: Subdrains, Gutters

OTHER PROTECTIVE DEVICES:

DEPT. LETTERS: 5-2-89, 5-11-88

This certifies that, so far as ascertained by or made known to the undersigned, the lot address indicated above complies with the applicable requirements of Chapter 9, Article 1, of the Municipal Code. This certificate is subject to revocation whenever the work has been materially extended or altered, or when protective devices are not maintained.

NOTE: Any change of conditions must be approved by the Department of Building and Safety.

T. BURGIN
Principal Grading Inspector

FGRGC



GRADING DOCUMENT MICROFILM SHEET

LEGAL DESCRIPTION AND CORRESPONDING ADDRESS(ES)

Write a number in the first blank of the Legal Description and corresponding Address line to link up the legal(s) with the address(es) listed below. For example, if one address has two legal descriptions, write the number 1 in each of the first two legal description lines and the address line:

_____	Tract	<u>5155</u>	Blk	_____	Lot	<u>21</u>
_____	Tract	_____	Blk	_____	Lot	_____
_____	Address	<u>2350 San Marco Dr</u>			Unit	_____
_____	Address	_____			Unit	_____
_____	Address	_____			Unit	_____

DOCUMENT TYPE (Use a separate sheet for each doc type & include dates)

<u>Name</u>	<u>Document Date(s)</u>
Admin. Approval (11)	Dt _____ ENTER DATA FROM ADMN APPRVL FORM
Grdg Affidavit (14)	Dt _____ ENTER DATA FROM AFFIDAVIT FORM
<u>X</u> Grdg Compaction File (5)	Ltr <u>12-13-89</u> Rpts <u>11-29-89</u>
Grdg Dept. Letter (7)	
_____ Methane Control File	Ltr _____ Rpts _____
_____ Contaminated Soil File	Ltr _____ Rpts _____
_____ E.I.R. File	Ltr _____ Rpts _____
_____ Other _____	Ltr _____ Rpts _____
Grdg Foundation File (1)	Ltr _____ Rpts _____
Grdg Responsibility Ltr (18)	
Grdg Seismology File (6)	Ltr _____ Rpts _____
Grdg Soils/Geo File (2)	Ltr _____ Rpts _____
	Rpts _____
Grdg Storm Damage File (17)	Ltr _____ Rpts _____
Grdg Tent. Tract Doc. (51)	
Grdg Information Only (9)	
Grdg Oversized Doc (92)	X-Ref _____ Dt _____ ; X-Ref _____ Dt _____

DAFS DATABASE COMMENT

Any comment printed on the line below will be typed in the DAFS Comment field:

DOCUMENT PREPARATION AND RETENTION

Reviewed by _____ Document(s) Stored in Retention Box No. _____

CITY OF LOS ANGELES
CALIFORNIA



TOM BRADLEY
MAYOR

COMMISSIONERS

RICHARD W. HARTZLER
PRESIDENT

BENITO A. SINCLAIR
VICE-PRESIDENT

REVELACION P. ABRACOSA
MARCIA MARCUS

ICHIRO MIKE MURASE

ADVISORY BOARD MEMBERS

PATRIC D. MAYERS
PRESIDENT

ROBERT B. BURKE
VICE-PRESIDENT

IRWIN H. GOLDENBERG
DIANE MUNIZ PASILLAS

DR. DOROTHY M. TUCKER

RICHARD E. BECKER
SECRETARY

15045
DEPARTMENT OF
BUILDING AND SAFETY
411, CITY HALL
LOS ANGELES, CA 90012-4869

FRANK V. KROEGER
GENERAL MANAGER

WARREN V. O'BRIEN
EXECUTIVE OFFICER

DEPUTY GENERAL MANAGERS

K. ROBERT AYERS
ROBERT J. PICOTT
EARL SCHWARTZ
TIMOTHY TAYLOR

NAME MR. IVAN SLAVOV

ADDRESS 1825 LAUREL CANYON BLVD.

CITY LOS ANGELES ST CA ZIP 90046

TRACT: 5155

PERMIT: 88LA/2102

LOT: 21

DM #: 153-187

LOCATION: 2350 SAN MARCO DR.

Lots having compacted fill: 21

SUBJECT: SECONDARY COMPACTED FILL.

Approval is granted for the secondary compacted fill placed on the above lots as described in the compaction report prepared by

KOVACS - BYER & Assoc. INC. Report No.

KB 12163-F, dated 11-29-89.

This approval is limited exclusively to the area shown in the report and subject to the following conditions:

1. This fill may be used for the support of floor slabs and pavement. However, the fill is not approved for the support of structural footings.
2. Planting and irrigation of cut and fill slopes in hillside areas is required per Code Section 91.7007.

For compacted fill to be classified as structural fill, the soil testing laboratory responsible for controlling the placement of the fill must first certify its placement and secondly, provide the allowable vertical and lateral bearing values which the fill can safely support. Where such values exceed those permitted in Table 29-B of the Los Angeles Municipal Code, test data and calculations shall include settlement calculations.

JAMES D. KAPRIELIAN
Chief of Grading Division

cc: KOVACS/BYER & Assoc.
LA INSP - DANIELS.

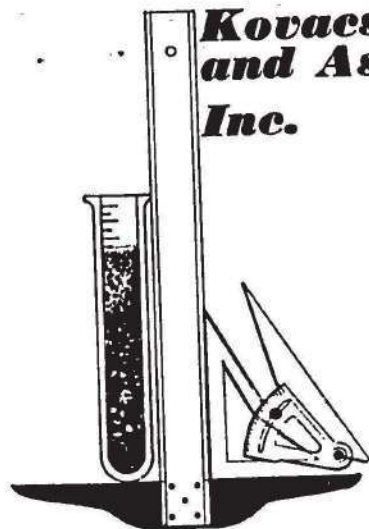
Gene N. Edwards
Grading Engineer
485-3435 - LA Office

5530070066

15045

**Kovacs-Byer
and Associates
Inc.**

November 29, 1989
KB 12163-F



Mr. Ivan Slavov
1825 Laurel Canyon Boulevard
Los Angeles, California 90046

Subject

Compaction Report
Retaining Wall Backfill
2350 San Marco Drive
Los Angeles, California

Reference: Report by Kovacs-Byer and Associates, Inc:
Preliminary Geologic and Soils Engineering
Exploration, February 22, 1988, (KB 11317-G).

Dear Mr. Slavov:

This report presents the results of our compaction testing and observations on the subject property. The purpose of the testing was to determine that the specifications required by the City of Los Angeles Building Code were met. The results of the compaction tests are shown on the attached Table I and plotted on the enclosed Plot Plan. This work was requested by the client. The fill will be used to support portions of the driveway.

The following soil type was used in the compacted fill:

Soil Type	Soil Description	Max.Dry Density Lbs./Cu. Ft.	Optimum m/c Percent	Expansion Index*
A	Silty Sand	134.0	9.0	3-Very Low

* Expansion Index as Determined by Expansion Index Method
(UBC Standard 29-2 or ASTM Equivalent)

The compaction tests were performed in accordance with ASTM D 1557-78. The field density tests were performed in accordance with ASTM D 1556. Nuclear density tests were performed in accordance with ASTM D 2922-71.

ENGINEERING GEOLOGY / SOILS & FOUNDATION ENGINEERING

11430 VENTURA BLVD., STUDIO CITY, CALIFORNIA 91604-3182 (818) 980-0825 (213) 877-2757

55300.700067

GRADING

Backfill consisted of placing approximately five feet of 3/4-inch gravel above the subdrain system and seven feet of compacted fill over the gravel. The gravel was vibrated in place using a hand type powered tamper.

Prior to placing any fill, a subdrain system was placed at the base of the retaining wall. Subdrains were surrounded with a minimum of one foot of 3/4-inch gravel. The subdrain system has been inspected and approved by a representative of this office.

Prior to placing any fill, the existing surface soils and/or loose fill were removed to the base of the wall and stock-piled for later placement in the compacted fill.

Onsite soils were placed by means of workmen in loose lifts of about six inches, moistened as required to achieve optimum moisture content by means of a water hose and compacted with a hand type power tamper.

Field density tests indicate that compacted fill was placed to 90 percent of the maximum dry density or better.

The maximum vertical depth of fill is 12 feet, located in the backfill area.

CONCLUSIONS AND RECOMMENDATIONS

Field density tests indicate that compacted fill was placed in a satisfactory manner and is suitable for support of portions of the proposed driveway.

The soils exposed at the subgrade elevation are in the very low expansion range and may be used to support portions of the driveway. The slab should be reinforced with a minimum of 6x6-10x10 or 12-W2.8 welded wire fabric.

Fill which is placed beyond the limits shown on the Plot Plan should be compacted with suitable equipment and observed by our representative. Kovacs-Byer and Associates,

ENGINEERING GEOLOGY / SOILS & FOUNDATION ENGINEERING

November 29, 1989

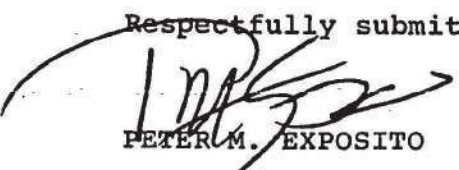
KB 12163-F

Page 3

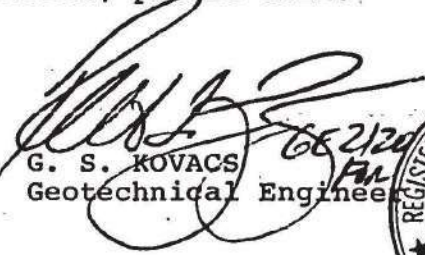
Inc. assumes no responsibility for compacted fill or earth materials placed beyond the limits shown by test elevations or the Plot Plan. Fill placed below slabs in parkways, sidewalks, driveways, in parking lots, around footings and in utility trenches are the responsibility of the contractor to place in accordance with the approved plans and specifications.

Should you have any questions, please call.

Respectfully submitted,


PETER M. EXPOSITO

PME:GSK:emb


G. S. KOVACS
Geotechnical Engineer



Enc: Plot Plan
Table I
Certification

xc: (1) Addressee
(3) City of Los Angeles Dept.
of Building & Safety,
Downtown Office

ENGINEERING GEOLOGY / SOILS & FOUNDATION ENGINEERING

11430 VENTURA BLVD., STUDIO CITY, CALIFORNIA 91604-3182 (818) 980-0825 (213) 877-2757

65800700069

Kovacs-Byer and Associates Inc.

CONSULTING ENGINEERS and GEOLOGISTS

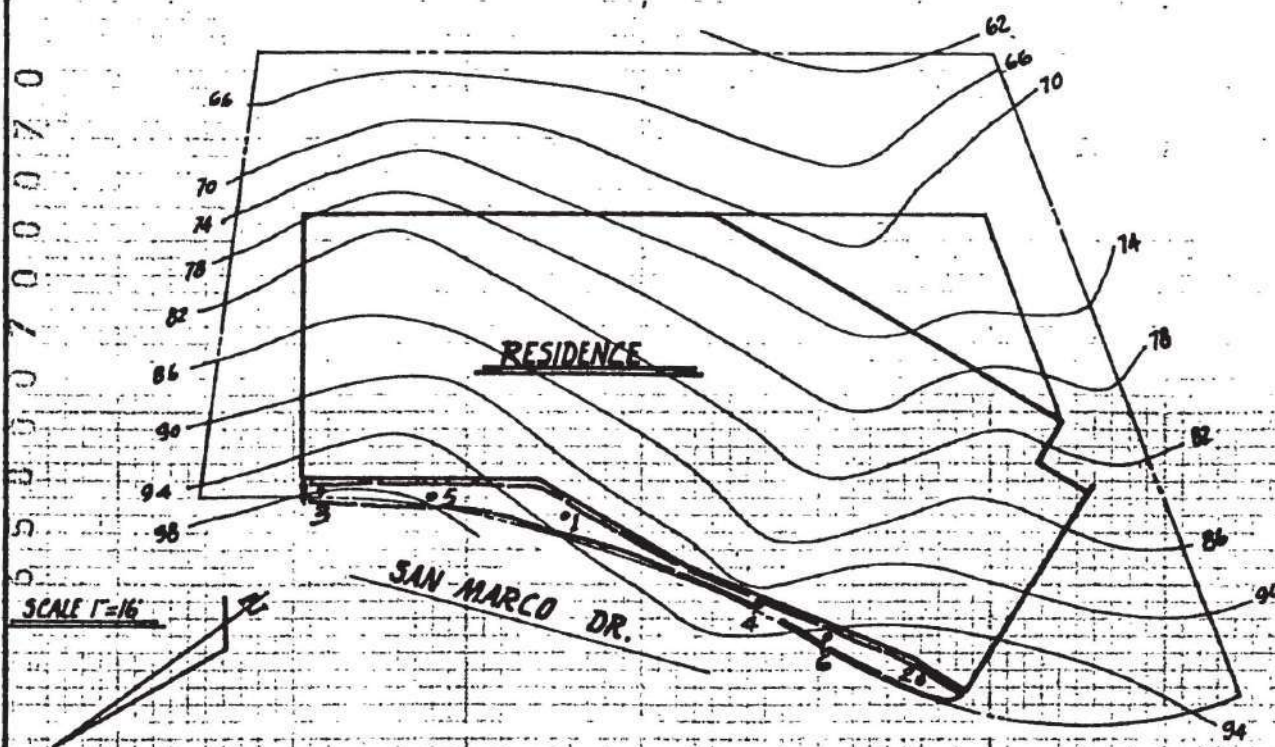
BY HR DATE _____

SUBJECT PLOT PLAN

SLAVOV

CHECKED BY _____ DATE _____

KB 12/63-F



LEGEND

• • LOCATION AND NUMBER OF FIELD DENSITY TEST.

— LIMITS OF COMPACTED FILL.

120029

REF: SITE PLAN BY AEP ARCH. (UNDATED)