

Global Minimum Support Data

◆ Walls 1 and 2 - Static

Method: spencer

Number of Supports: 16

Mirafi 5XT

Support Type: Geosynthetic

Start (x, y)	Length (ft)	L Inside SS (ft)	L Outside SS (ft)	Li (ft)	Lo (ft)	Force (lb)
5.93332, 9.16545	18	2.99159	15.0084	2.99159	15.0084	2471.93
6.11455, 11.157	18	7.94193	10.0581	7.94193	10.0581	2471.93
6.29626, 13.1539	18	11.8606	6.13936	11.8606	6.13936	2471.93
6.47956, 15.1682	18	15.1609	2.8391	15.1609	2.8391	2471.93
6.65944, 17.1448	18	17.9551	0.0449389	17.9551	0.0449389	211.014
6.84283, 19.1601	18	Not Effective	Not Effective	Not Effective	Not Effective	0
7.024, 21.151	18	Not Effective	Not Effective	Not Effective	Not Effective	0
7.20556, 23.1462	18	Not Effective	Not Effective	Not Effective	Not Effective	0
20.6605, 28.1454	14.5	Not Effective	Not Effective	Not Effective	Not Effective	0
20.8437, 30.1582	14.5	Not Effective	Not Effective	Not Effective	Not Effective	0
21.0263, 32.1654	14.5	Not Effective	Not Effective	Not Effective	Not Effective	0
21.2066, 34.1462	14.5	Not Effective	Not Effective	Not Effective	Not Effective	0
21.3903, 36.1651	14.5	Not Effective	Not Effective	Not Effective	Not Effective	0
21.5717, 38.1583	14.5	Not Effective	Not Effective	Not Effective	Not Effective	0
21.7532, 40.153	14.5	Not Effective	Not Effective	Not Effective	Not Effective	0
21.9349, 42.1503	14.5	Not Effective	Not Effective	Not Effective	Not Effective	0

◆ Walls 1 and 2 - Seismic

Method: spencer

Number of Supports: 16

Mirafi 5XT

Support Type: Geosynthetic

Start (x, y)	Length (ft)	L Inside SS (ft)	L Outside SS (ft)	Li (ft)	Lo (ft)	Force (lb)
5.93332, 9.16545	18	2.947	15.053	2.947	15.053	2471.93
6.11455, 11.157	18	7.72477	10.2752	7.72477	10.2752	2471.93
6.29626, 13.1539	18	11.6699	6.33012	11.6699	6.33012	2471.93
6.47956, 15.1682	18	15.0737	2.92631	15.0737	2.92631	2471.93
6.65944, 17.1448	18	Not Effective	Not Effective	Not Effective	Not Effective	0
6.84283, 19.1601	18	Not Effective	Not Effective	Not Effective	Not Effective	0
7.024, 21.151	18	Not Effective	Not Effective	Not Effective	Not Effective	0
7.20556, 23.1462	18	Not Effective	Not Effective	Not Effective	Not Effective	0
20.6605, 28.1454	14.5	Not Effective	Not Effective	Not Effective	Not Effective	0
20.8437, 30.1582	14.5	Not Effective	Not Effective	Not Effective	Not Effective	0
21.0263, 32.1654	14.5	Not Effective	Not Effective	Not Effective	Not Effective	0
21.2066, 34.1462	14.5	Not Effective	Not Effective	Not Effective	Not Effective	0
21.3903, 36.1651	14.5	Not Effective	Not Effective	Not Effective	Not Effective	0
21.5717, 38.1583	14.5	Not Effective	Not Effective	Not Effective	Not Effective	0
21.7532, 40.153	14.5	Not Effective	Not Effective	Not Effective	Not Effective	0
21.9349, 42.1503	14.5	Not Effective	Not Effective	Not Effective	Not Effective	0

◆ Wall 3 - Static

No Supports Present

◆ Wall 3 - Seismic

No Supports Present

◆ Walls 4 and 5 - Static**Method: spencer**

Number of Supports: 4

Mirafi 8XT

Support Type: Geosynthetic

Start (x, y)	Length (ft)	L Inside SS (ft)	L Outside SS (ft)	Li (ft)	Lo (ft)	Force (lb)
19.4984, 15.5094	10	9.99688	0.00312399	9.99688	0.00312399	4.55936
19.6789, 17.4952	10	Not Effective	Not Effective	Not Effective	Not Effective	0
19.8615, 19.5035	10	Not Effective	Not Effective	Not Effective	Not Effective	0
20.0431, 21.5006	10	Not Effective	Not Effective	Not Effective	Not Effective	0

Walls 4 and 5 - Seismic**Method: spencer**

Number of Supports: 4

Mirafi 8XT

Support Type: Geosynthetic

Start (x, y)	Length (ft)	L Inside SS (ft)	L Outside SS (ft)	Li (ft)	Lo (ft)	Force (lb)
19.4984, 15.5094	10	9.99925	0.000750774	9.99925	0.000750774	1.09573
19.6789, 17.4952	10	Not Effective	Not Effective	Not Effective	Not Effective	0
19.8615, 19.5035	10	Not Effective	Not Effective	Not Effective	Not Effective	0
20.0431, 21.5006	10	Not Effective	Not Effective	Not Effective	Not Effective	0

Wall 6 - Static**Method: spencer**

Number of Supports: 8

Mirafi 5XT

Support Type: Geosynthetic

Start (x, y)	Length (ft)	L Inside SS (ft)	L Outside SS (ft)	Li (ft)	Lo (ft)	Force (lb)
24.1307, 8.49571	16.5	13.317	3.18296	13.317	3.18296	2471.93
24.3126, 10.4968	16.5	16.5	6.54661e-06	16.5	6.54661e-06	0.0193518
24.4948, 12.5009	16.5	Not Effective	Not Effective	Not Effective	Not Effective	0
24.6772, 14.5076	16.5	Not Effective	Not Effective	Not Effective	Not Effective	0

Mirafi 8XT

Support Type: Geosynthetic

Start (x, y)	Length (ft)	L Inside SS (ft)	L Outside SS (ft)	Li (ft)	Lo (ft)	Force (lb)
34.0675, 18.787	10.5	Not Effective	Not Effective	Not Effective	Not Effective	0
34.2499, 20.7938	10.5	Not Effective	Not Effective	Not Effective	Not Effective	0
34.4339, 22.8184	10.5	Not Effective	Not Effective	Not Effective	Not Effective	0
34.614, 24.7989	10.5	Not Effective	Not Effective	Not Effective	Not Effective	0

◆ Wall 6 - Seismic**Method: spencer**

Number of Supports: 8

Mirafi 5XT

Support Type: Geosynthetic

Start (x, y)	Length (ft)	L Inside SS (ft)	L Outside SS (ft)	Li (ft)	Lo (ft)	Force (lb)
24.1307, 8.49571	16.5	12.7536	3.74639	12.7536	3.74639	2471.93
24.3126, 10.4968	16.5	16.4924	0.00763046	16.4924	0.00763046	22.5556
24.4948, 12.5009	16.5	Not Effective	Not Effective	Not Effective	Not Effective	0
24.6772, 14.5076	16.5	Not Effective	Not Effective	Not Effective	Not Effective	0

Mirafi 8XT

Support Type: Geosynthetic

Start (x, y)	Length (ft)	L Inside SS (ft)	L Outside SS (ft)	Li (ft)	Lo (ft)	Force (lb)
34.0675, 18.787	10.5	Not Effective	Not Effective	Not Effective	Not Effective	0
34.2499, 20.7938	10.5	Not Effective	Not Effective	Not Effective	Not Effective	0
34.4339, 22.8184	10.5	Not Effective	Not Effective	Not Effective	Not Effective	0
34.614, 24.7989	10.5	Not Effective	Not Effective	Not Effective	Not Effective	0

◆ Wall 7 - Static**Method: spencer**

Number of Supports: 5

Mirafi 8XT

Support Type: Geosynthetic

Start (x, y)	Length (ft)	L Inside SS (ft)	L Outside SS (ft)	Li (ft)	Lo (ft)	Force (lb)
3.08538, 9.54609	11.5	11.4984	0.00163147	11.4984	0.00163147	3.14204
3.26762, 11.5488	11.5	Not Effective	Not Effective	Not Effective	Not Effective	0
3.45053, 13.5588	11.5	Not Effective	Not Effective	Not Effective	Not Effective	0
3.63063, 15.5379	11.5	Not Effective	Not Effective	Not Effective	Not Effective	0
3.81326, 17.5448	11.5	Not Effective	Not Effective	Not Effective	Not Effective	0

◆ Wall 7 - Seismic**Method: spencer**

Number of Supports: 5

Mirafi 8XT

Support Type: Geosynthetic

Start (x, y)	Length (ft)	L Inside SS (ft)	L Outside SS (ft)	Li (ft)	Lo (ft)	Force (lb)
3.08538, 9.54609	11.5	0.593968	10.906	0.593968	10.906	325.413
3.26762, 11.5488	11.5	6.07294	5.42706	6.07294	5.42706	5227.34
3.45053, 13.5588	11.5	9.78809	1.71191	9.78809	1.71191	2184.94
3.63063, 15.5379	11.5	Not Effective	Not Effective	Not Effective	Not Effective	0
3.81326, 17.5448	11.5	Not Effective	Not Effective	Not Effective	Not Effective	0

◆ Wall 8 - Static

No Supports Present

◆ Wall 8 - Seismic

No Supports Present

◆ Walla 9a and 9b - Static**Method: spencer**

Number of Supports: 14

Mirafi 8XT

Support Type: Geosynthetic

Start (x, y)	Length (ft)	L Inside SS (ft)	L Outside SS (ft)	Li (ft)	Lo (ft)	Force (lb)
1.22956, 3.9772	19.5	15.9308	3.56915	15.9308	3.56915	5227.34
1.59385, 7.98032	19.5	Not Effective	Not Effective	Not Effective	Not Effective	0
1.41028, 5.96312	19.5	19.4998	0.000183307	19.4998	0.000183307	0.971589
1.77407, 9.96078	19.5	Not Effective	Not Effective	Not Effective	Not Effective	0
1.95654, 11.9659	19.5	Not Effective	Not Effective	Not Effective	Not Effective	0
2.13949, 13.9763	19.5	Not Effective	Not Effective	Not Effective	Not Effective	0
2.32124, 15.9736	19.5	Not Effective	Not Effective	Not Effective	Not Effective	0
13.7524, 22.7066	13.5	Not Effective	Not Effective	Not Effective	Not Effective	0
13.9342, 24.7047	13.5	Not Effective	Not Effective	Not Effective	Not Effective	0
14.1158, 26.7003	13.5	Not Effective	Not Effective	Not Effective	Not Effective	0
14.2985, 28.7089	13.5	Not Effective	Not Effective	Not Effective	Not Effective	0
14.4794, 30.6968	13.5	Not Effective	Not Effective	Not Effective	Not Effective	0
14.6624, 32.7083	13.5	Not Effective	Not Effective	Not Effective	Not Effective	0
14.8444, 34.7088	13.5	Not Effective	Not Effective	Not Effective	Not Effective	0

◆ **Walls 9a and 9b - Seismic****Method: spencer**

Number of Supports: 14

Mirafi 8XT

Support Type: Geosynthetic

Start (x, y)	Length (ft)	L Inside SS (ft)	L Outside SS (ft)	Li (ft)	Lo (ft)	Force (lb)
1.22956, 3.9772	19.5	15.4826	4.01744	15.4826	4.01744	5227.34
1.59385, 7.98032	19.5	Not Effective	Not Effective	Not Effective	Not Effective	0
1.41028, 5.96312	19.5	19.5	3.86279e-05	19.5	3.86279e-05	0.20474
1.77407, 9.96078	19.5	Not Effective	Not Effective	Not Effective	Not Effective	0
1.95654, 11.9659	19.5	Not Effective	Not Effective	Not Effective	Not Effective	0
2.13949, 13.9763	19.5	Not Effective	Not Effective	Not Effective	Not Effective	0
2.32124, 15.9736	19.5	Not Effective	Not Effective	Not Effective	Not Effective	0
13.7524, 22.7066	13.5	Not Effective	Not Effective	Not Effective	Not Effective	0
13.9342, 24.7047	13.5	Not Effective	Not Effective	Not Effective	Not Effective	0
14.1158, 26.7003	13.5	Not Effective	Not Effective	Not Effective	Not Effective	0
14.2985, 28.7089	13.5	Not Effective	Not Effective	Not Effective	Not Effective	0
14.4794, 30.6968	13.5	Not Effective	Not Effective	Not Effective	Not Effective	0
14.6624, 32.7083	13.5	Not Effective	Not Effective	Not Effective	Not Effective	0
14.8444, 34.7088	13.5	Not Effective	Not Effective	Not Effective	Not Effective	0

◆ **Walls 9a and 10 - Static****Method: spencer**

Number of Supports: 12

Mirafi 5XT

Support Type: Geosynthetic

Start (x, y)	Length (ft)	L Inside SS (ft)	L Outside SS (ft)	Li (ft)	Lo (ft)	Force (lb)
15.418, 5.1557	18	13.9462	4.05378	13.9462	4.05378	2471.93
15.5991, 7.14598	18	Not Effective	Not Effective	Not Effective	Not Effective	0
15.7814, 9.1499	18	Not Effective	Not Effective	Not Effective	Not Effective	0
15.9621, 11.1356	18	Not Effective	Not Effective	Not Effective	Not Effective	0
16.1434, 13.1278	18	Not Effective	Not Effective	Not Effective	Not Effective	0

Mirafi 8XT

Support Type: Geosynthetic

Start (x, y)	Length (ft)	L Inside SS (ft)	L Outside SS (ft)	Li (ft)	Lo (ft)	Force (lb)
31.487, 16.9036	13.5	Not Effective	Not Effective	Not Effective	Not Effective	0
31.6693, 18.9075	13.5	Not Effective	Not Effective	Not Effective	Not Effective	0
31.8503, 20.8961	13.5	Not Effective	Not Effective	Not Effective	Not Effective	0
32.0326, 22.8996	13.5	Not Effective	Not Effective	Not Effective	Not Effective	0
32.2153, 24.9082	13.5	Not Effective	Not Effective	Not Effective	Not Effective	0
32.3978, 26.9142	13.5	Not Effective	Not Effective	Not Effective	Not Effective	0
32.5794, 28.9095	13.5	Not Effective	Not Effective	Not Effective	Not Effective	0

 Walls 9a and 10 - Seismic
Method: spencer

Number of Supports: 12

Mirafi 5XT

Support Type: Geosynthetic

Start (x, y)	Length (ft)	L Inside SS (ft)	L Outside SS (ft)	Li (ft)	Lo (ft)	Force (lb)
15.418, 5.1557	18	13.6519	4.34807	13.6519	4.34807	2471.93
15.5991, 7.14598	18	Not Effective	Not Effective	Not Effective	Not Effective	0
15.7814, 9.1499	18	Not Effective	Not Effective	Not Effective	Not Effective	0
15.9621, 11.1356	18	Not Effective	Not Effective	Not Effective	Not Effective	0
16.1434, 13.1278	18	Not Effective	Not Effective	Not Effective	Not Effective	0

Mirafi 8XT

Support Type: Geosynthetic

Start (x, y)	Length (ft)	L Inside SS (ft)	L Outside SS (ft)	Li (ft)	Lo (ft)	Force (lb)
31.487, 16.9036	13.5	Not Effective	Not Effective	Not Effective	Not Effective	0
31.6693, 18.9075	13.5	Not Effective	Not Effective	Not Effective	Not Effective	0
31.8503, 20.8961	13.5	Not Effective	Not Effective	Not Effective	Not Effective	0
32.0326, 22.8996	13.5	Not Effective	Not Effective	Not Effective	Not Effective	0
32.2153, 24.9082	13.5	Not Effective	Not Effective	Not Effective	Not Effective	0
32.3978, 26.9142	13.5	Not Effective	Not Effective	Not Effective	Not Effective	0
32.5794, 28.9095	13.5	Not Effective	Not Effective	Not Effective	Not Effective	0

◆ Wall 11 - Static**Method: spencer**

Number of Supports: 11

Mirafi 5XT

Support Type: Geosynthetic

Start (x, y)	Length (ft)	L Inside SS (ft)	L Outside SS (ft)	Li (ft)	Lo (ft)	Force (lb)
13.7918, 3.90297	23.5	0.941575	22.5584	0.941575	22.5584	789.855
13.9739, 5.90919	23.5	5.18038	18.3196	5.18038	18.3196	2471.93
14.1551, 7.89507	23.5	8.92261	14.5774	8.92261	14.5774	2471.93
14.3372, 9.90063	23.5	12.3421	11.1579	12.3421	11.1579	2471.93
14.5199, 11.9044	23.5	15.4667	8.03326	15.4667	8.03326	2471.93
14.7007, 13.8909	23.5	18.3212	5.17881	18.3212	5.17881	2471.93
14.8853, 15.919	23.5	21.0242	2.47581	21.0242	2.47581	2471.93
15.0665, 17.9103	23.5	23.4955	0.00450641	23.4955	0.00450641	6.56166
15.2485, 19.9107	23.5	Not Effective	Not Effective	Not Effective	Not Effective	0
15.4299, 21.9055	23.5	Not Effective	Not Effective	Not Effective	Not Effective	0
15.6123, 23.9087	23.5	Not Effective	Not Effective	Not Effective	Not Effective	0

◆ Wall 11 - Seismic**Method: spencer**

Number of Supports: 11

Mirafi 5XT

Support Type: Geosynthetic

Start (x, y)	Length (ft)	L Inside SS (ft)	L Outside SS (ft)	Li (ft)	Lo (ft)	Force (lb)
13.7918, 3.90297	23.5	1.17464	22.3254	1.17464	22.3254	1277.12
13.9739, 5.90919	23.5	6.05878	17.4412	6.05878	17.4412	2471.93
14.1551, 7.89507	23.5	10.2846	13.2154	10.2846	13.2154	2471.93
14.3372, 9.90063	23.5	14.0996	9.40043	14.0996	9.40043	2471.93
14.5199, 11.9044	23.5	17.5496	5.95045	17.5496	5.95045	2471.93
14.7007, 13.8909	23.5	20.6849	2.81514	20.6849	2.81514	2471.93
14.8853, 15.919	23.5	Not Effective	Not Effective	Not Effective	Not Effective	0
15.0665, 17.9103	23.5	Not Effective	Not Effective	Not Effective	Not Effective	0
15.2485, 19.9107	23.5	Not Effective	Not Effective	Not Effective	Not Effective	0
15.4299, 21.9055	23.5	Not Effective	Not Effective	Not Effective	Not Effective	0
15.6123, 23.9087	23.5	Not Effective	Not Effective	Not Effective	Not Effective	0

Slice Data

◆ Walls 1 and 2 - Static

Global Minimum Query (spencer) - Safety Factor: 1.53562

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	0.771563	382.321	15.9238	Verti-Block	3000	0	1953.61	3000	1125.27	0	1125.27	1682.64	1682.64
2	0.771563	1146.45	16.6848	Verti-Block	3000	0	1953.61	3000	1907.1	0	1907.1	2492.65	2492.65
3	0.771563	1678.45	17.449	Verti-Block	3000	0	1953.61	3000	2429.92	0	2429.92	3043.98	3043.98
4	0.771563	1676.73	18.2163	Verti-Block	3000	0	1953.61	3000	3325.37	0	3325.37	3968.3	3968.3
5	0.819736	1755.04	19.0112	Reinforced Fill	135	38	1135.85	1744.23	2059.71	0	2059.71	2451.07	2451.07
6	0.819736	1726.6	19.8341	Reinforced Fill	135	38	1099.44	1688.32	1988.16	0	1988.16	2384.72	2384.72
7	0.819736	1696.86	20.6614	Reinforced Fill	135	38	1063.32	1632.85	1917.16	0	1917.16	2318.13	2318.13
8	0.819736	1665.78	21.4931	Reinforced Fill	135	38	1027.47	1577.8	1846.7	0	1846.7	2251.29	2251.29
9	0.819736	1633.34	22.3296	Reinforced Fill	135	38	991.88	1523.15	1776.74	0	1776.74	2184.14	2184.14
10	0.819736	1599.52	23.1712	Reinforced Fill	135	38	956.532	1468.87	1707.28	0	1707.28	2116.68	2116.68
11	0.819736	1564.3	24.0181	Reinforced Fill	135	38	1344.43	2064.53	2469.69	0	2469.69	3068.78	3068.78
12	0.819736	1527.65	24.8706	Reinforced Fill	135	38	886.534	1361.38	1569.69	0	1569.69	1980.65	1980.65
13	0.819736	1489.53	25.729	Reinforced Fill	135	38	851.858	1308.13	1501.54	0	1501.54	1912.04	1912.04
14	0.819736	1449.91	26.5937	Reinforced Fill	135	38	817.39	1255.2	1433.79	0	1433.79	1843	1843
15	0.819736	1408.77	27.465	Reinforced Fill	135	38	783.117	1202.57	1366.43	0	1366.43	1773.48	1773.48
16	0.819736	1366.07	28.3432	Reinforced Fill	135	38	1101.46	1691.42	1992.13	0	1992.13	2586.27	2586.27
17	0.819736	1321.76	29.2287	Reinforced Fill	135	38	715.145	1098.19	1232.83	0	1232.83	1632.98	1632.98
18	0.819736	1280.16	30.122	Reinforced Fill	135	38	683.444	1049.51	1170.52	0	1170.52	1567.05	1567.05
19	0.819736	1521.19	31.0234	Reinforced Fill	135	38	780.545	1198.62	1361.38	0	1361.38	1830.81	1830.81
20	0.819736	2341.02	31.9334	Reinforced Fill	135	38	1431.38	2198.06	2640.6	0	2640.6	3532.71	3532.71
21	0.819736	2961.68	32.8525	Reinforced Fill	135	38	1379.91	2119.02	2539.42	0	2539.42	3430.51	3430.51

22	0.819736	2949.77	33.7813	Reinforced Fill	135	38	1348.8	2071.24	2478.28	0	2478.28	3380.58	3380.58
23	0.819736	2892.01	34.7202	Reinforced Fill	135	38	1298.9	1994.61	2380.2	0	2380.2	3280.28	3280.28
24	0.819736	2831.84	35.67	Reinforced Fill	135	38	1270.72	1951.35	2324.82	0	2324.82	3236.92	3236.92
25	0.819736	2783.68	36.6312	Reinforced Fill	135	38	1205.34	1850.94	2196.31	0	2196.31	3092.49	3092.49
26	0.819736	2742.75	37.6045	Reinforced Fill	135	38	1165.28	1789.43	2117.58	0	2117.58	3015.11	3015.11
27	0.819736	2699.62	38.5907	Reinforced Fill	135	38	1125.14	1727.78	2038.67	0	2038.67	2936.55	2936.55
28	0.833719	2699.06	39.5994	Mass Wasting Colluvium	100	38	1062.45	1631.52	1960.26	0	1960.26	2839.17	2839.17
29	0.833719	2649.2	40.6316	Mass Wasting Colluvium	100	38	1021.45	1568.56	1879.67	0	1879.67	2756.14	2756.14
30	0.833719	2583.15	41.68	Mass Wasting Colluvium	100	38	975.534	1498.05	1789.43	0	1789.43	2657.99	2657.99
31	0.833719	2507.47	42.7458	Mass Wasting Colluvium	100	38	927.345	1424.05	1694.7	0	1694.7	2551.8	2551.8
32	0.833719	2428.89	43.8303	Mass Wasting Colluvium	100	38	879.352	1350.35	1600.37	0	1600.37	2444.53	2444.53
33	0.833719	2347.25	44.9348	Mass Wasting Colluvium	100	38	831.553	1276.95	1506.42	0	1506.42	2336.09	2336.09
34	0.833719	2262.36	46.0611	Mass Wasting Colluvium	100	38	783.944	1203.84	1412.84	0	1412.84	2226.38	2226.38
35	0.833719	2174.02	47.2108	Mass Wasting Colluvium	100	38	736.517	1131.01	1319.64	0	1319.64	2115.3	2115.3
36	0.833719	2082.02	48.3861	Mass Wasting Colluvium	100	38	689.279	1058.47	1226.78	0	1226.78	2002.76	2002.76
37	0.833719	1986.08	49.5891	Mass Wasting Colluvium	100	38	642.226	986.215	1134.3	0	1134.3	1888.62	1888.62
38	0.833719	1885.92	50.8226	Mass Wasting Colluvium	100	38	595.363	914.251	1042.19	0	1042.19	1772.77	1772.77
39	0.833719	1781.19	52.0897	Mass Wasting Colluvium	100	38	548.696	842.588	950.473	0	950.473	1655.04	1655.04
40	0.833719	1671.49	53.3938	Mass Wasting Colluvium	100	38	502.238	771.247	859.157	0	859.157	1535.27	1535.27
41	0.833719	1556.36	54.7393	Mass Wasting Colluvium	100	38	456.01	700.258	768.294	0	768.294	1413.28	1413.28
42	0.833719	1435.24	56.1311	Mass Wasting Colluvium	100	38	410.039	629.664	677.937	0	677.937	1288.85	1288.85
43	0.833719	1307.45	57.5753	Mass Wasting Colluvium	100	38	364.37	559.534	588.177	0	588.177	1161.78	1161.78
44	0.833719	1172.16	59.0793	Mass Wasting Colluvium	100	38	319.068	489.967	499.135	0	499.135	1031.82	1031.82
45	0.833719	1028.36	60.6526	Mass Wasting Colluvium	100	38	274.232	421.116	411.01	0	411.01	898.74	898.74
46	0.833719	874.728	62.3071	Mass Wasting Colluvium	100	38	230.017	353.218	324.105	0	324.105	762.354	762.354

47	0.833719	709.536	64.0585	Mass Wasting Colluvium	100	38	186.67	286.654	238.906	0	238.906	622.631	622.631
48	0.833719	530.448	65.9283	Mass Wasting Colluvium	100	38	144.603	222.056	156.224	0	156.224	479.919	479.919
49	0.833719	334.141	67.9471	Mass Wasting Colluvium	100	38	104.542	160.537	77.4844	0	77.4844	335.549	335.549
50	0.833719	115.595	70.1612	Mass Wasting Colluvium	100	38	47.675	73.2107	-34.2887	0	-34.2887	97.8529	97.8529

Walls 1 and 2 - Seismic

Global Minimum Query (spencer) - Safety Factor: 1.0838

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	0.773519	383.178	17.5099	Verti-Block	3000	0	2768.04	3000	2113.99	0	2113.99	2987.28	2987.28
2	0.773519	1149.1	18.1401	Verti-Block	3000	0	2768.04	3000	2566.86	0	2566.86	3473.74	3473.74
3	0.773519	1683.4	18.7923	Verti-Block	3000	0	2768.04	3000	2857.68	0	2857.68	3799.58	3799.58
4	0.773519	1680.34	19.447	Verti-Block	3000	0	2768.04	3000	4921.54	0	4921.54	5898.88	5898.88
5	0.896876	1915.9	20.157	Reinforced Fill	135	38	1581.46	1713.99	2021.01	0	2021.01	2601.53	2601.53
6	0.896876	1879.73	20.9229	Reinforced Fill	135	38	1502.93	1628.88	1912.07	0	1912.07	2486.68	2486.68
7	0.896876	1842.08	21.6928	Reinforced Fill	135	38	1427.92	1547.58	1808.02	0	1808.02	2376.05	2376.05
8	0.896876	1802.92	22.4668	Reinforced Fill	135	38	1356.19	1469.84	1708.53	0	1708.53	2269.36	2269.36
9	0.896876	1762.23	23.2452	Reinforced Fill	135	38	1287.53	1395.43	1613.28	0	1613.28	2166.32	2166.32
10	0.896876	1719.99	24.0281	Reinforced Fill	135	38	3213.66	3482.97	4285.2	0	4285.2	5717.91	5717.91
11	0.896876	1676.15	24.8159	Reinforced Fill	135	38	1158.61	1255.7	1434.43	0	1434.43	1970.17	1970.17
12	0.896876	1630.7	25.6086	Reinforced Fill	135	38	1097.97	1189.98	1350.32	0	1350.32	1876.58	1876.58
13	0.896876	1583.6	26.4067	Reinforced Fill	135	38	1039.66	1126.79	1269.43	0	1269.43	1785.67	1785.67
14	0.896876	1534.82	27.2103	Reinforced Fill	135	38	983.538	1065.96	1191.58	0	1191.58	1697.27	1697.27
15	0.896876	1484.33	28.0198	Reinforced Fill	135	38	2554.28	2768.33	3370.51	0	3370.51	4729.78	4729.78
16	0.896876	1432.08	28.8354	Reinforced Fill	135	38	877.286	950.803	1044.18	0	1044.18	1527.18	1527.18
17	0.896876	1384.15	29.6574	Reinforced Fill	135	38	829.8	899.337	978.307	0	978.307	1450.8	1450.8
18	0.896876	1888.14	30.4863	Reinforced Fill	135	38	1036.55	1123.41	1265.11	0	1265.11	1875.35	1875.35
19	0.896876	2885.84	31.3222	Reinforced Fill	135	38	2828.44	3065.46	3750.82	0	3750.82	5472.03	5472.03
20	0.896876	3256.22	32.1656	Reinforced Fill	135	38	1565.13	1696.29	1998.36	0	1998.36	2982.66	2982.66
21	0.896876	3193.99	33.017	Reinforced Fill	135	38	1493.85	1619.03	1899.47	0	1899.47	2870.22	2870.22
22	0.896876	3124.13	33.8766	Reinforced Fill	135	38	1422.56	1541.77	1800.58	0	1800.58	2755.66	2755.66
23	0.896876	3064.98	34.745	Reinforced Fill	135	38	1358.53	1472.37	1711.76	0	1711.76	2654.02	2654.02

24	0.896876	3020.26	35.6226	Reinforced Fill	135	38	1302.6	1411.76	1634.18	0	1634.18	2567.53	2567.53
25	0.896876	2974.01	36.5099	Reinforced Fill	135	38	1248.27	1352.88	1558.82	0	1558.82	2482.83	2482.83
26	0.889453	2901.43	37.4038	Mass Wasting Colluvium	100	38	1155.49	1252.32	1474.9	0	1474.9	2358.46	2358.46
27	0.889453	2850.38	38.3047	Mass Wasting Colluvium	100	38	1104.25	1196.79	1403.83	0	1403.83	2276.06	2276.06
28	0.889453	2780.27	39.2169	Mass Wasting Colluvium	100	38	1048.51	1136.38	1326.51	0	1326.51	2182.18	2182.18
29	0.889453	2701.5	40.1412	Mass Wasting Colluvium	100	38	992.178	1075.32	1248.35	0	1248.35	2085.07	2085.07
30	0.889453	2620.1	41.0782	Mass Wasting Colluvium	100	38	937.305	1015.85	1172.24	0	1172.24	1989.28	1989.28
31	0.889453	2535.94	42.0288	Mass Wasting Colluvium	100	38	883.849	957.916	1098.08	0	1098.08	1894.7	1894.7
32	0.889453	2448.9	42.9939	Mass Wasting Colluvium	100	38	831.768	901.47	1025.84	0	1025.84	1801.31	1801.31
33	0.889453	2358.85	43.9743	Mass Wasting Colluvium	100	38	781.028	846.478	955.452	0	955.452	1709	1709
34	0.889453	2265.63	44.9712	Mass Wasting Colluvium	100	38	731.599	792.907	886.884	0	886.884	1617.75	1617.75
35	0.889453	2169.08	45.9857	Mass Wasting Colluvium	100	38	683.46	740.734	820.1	0	820.1	1527.49	1527.49
36	0.889453	2069.01	47.0193	Mass Wasting Colluvium	100	38	636.596	689.943	755.092	0	755.092	1438.22	1438.22
37	0.889453	1965.22	48.0732	Mass Wasting Colluvium	100	38	590.994	640.519	691.832	0	691.832	1349.89	1349.89
38	0.889453	1857.48	49.1492	Mass Wasting Colluvium	100	38	546.643	592.452	630.309	0	630.309	1262.47	1262.47
39	0.889453	1745.51	50.2491	Mass Wasting Colluvium	100	38	503.535	545.731	570.51	0	570.51	1175.92	1175.92
40	0.889453	1629.03	51.375	Mass Wasting Colluvium	100	38	461.658	500.345	512.419	0	512.419	1090.21	1090.21
41	0.889453	1507.7	52.5294	Mass Wasting Colluvium	100	38	420.994	456.273	456.008	0	456.008	1005.24	1005.24
42	0.889453	1381.11	53.7149	Mass Wasting Colluvium	100	38	381.509	413.479	401.234	0	401.234	920.879	920.879
43	0.889453	1248.83	54.9349	Mass Wasting Colluvium	100	38	343.149	371.905	348.023	0	348.023	836.908	836.908
44	0.889453	1110.32	56.1932	Mass Wasting Colluvium	100	38	305.827	331.455	296.248	0	296.248	752.969	752.969
45	0.889453	964.936	57.4942	Mass Wasting Colluvium	100	38	269.398	291.974	245.716	0	245.716	668.493	668.493
46	0.889453	811.931	58.8435	Mass Wasting Colluvium	100	38	233.643	253.222	196.115	0	196.115	582.566	582.566
47	0.889453	650.376	60.2475	Mass Wasting Colluvium	100	38	198.21	214.82	146.964	0	146.964	493.725	493.725
48	0.889453	479.122	61.7148	Mass Wasting Colluvium	100	38	162.566	176.189	97.5173	0	97.5173	399.621	399.621

49	0.889453	296.713	63.2556	Mass Wasting Colluvium	100	38	125.879	136.427	46.6248	0	46.6248	296.424	296.424
50	0.889453	101.258	64.8839	Mass Wasting Colluvium	100	38	55.8624	60.5437	-50.5016	0	-50.5016	68.6645	68.6645

◆ Wall 3 - Static

Global Minimum Query (spencer) - Safety Factor: 2.66584

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	0.239097	2.18679	-32.5191	Mass Wasting Colluvium	100	38	58.8488	156.882	72.8048	0	72.8048	35.2865	35.2865
2	0.239097	6.39072	-30.4588	Mass Wasting Colluvium	100	38	65.481	174.562	95.435	0	95.435	56.927	56.927
3	0.239097	10.2657	-28.4414	Mass Wasting Colluvium	100	38	71.0586	189.431	114.466	0	114.466	75.9789	75.9789
4	0.239097	13.8308	-26.4617	Mass Wasting Colluvium	100	38	75.7577	201.958	130.501	0	130.501	92.7923	92.7923
5	0.239097	17.1024	-24.5156	Mass Wasting Colluvium	100	38	79.7103	212.495	143.987	0	143.987	107.635	107.635
6	0.239097	20.0944	-22.5992	Mass Wasting Colluvium	100	38	83.017	221.31	155.269	0	155.269	120.714	120.714
7	0.239097	22.8189	-20.7092	Mass Wasting Colluvium	100	38	85.7561	228.612	164.616	0	164.616	132.196	132.196
8	0.239097	25.2862	-18.8425	Mass Wasting Colluvium	100	38	87.991	234.57	172.241	0	172.241	142.214	142.214
9	0.239097	27.5051	-16.9963	Mass Wasting Colluvium	100	38	89.7717	239.317	178.318	0	178.318	150.878	150.878
10	0.239097	29.4834	-15.1682	Mass Wasting Colluvium	100	38	91.1398	242.964	182.986	0	182.986	158.278	158.278
11	0.239097	31.2277	-13.3558	Mass Wasting Colluvium	100	38	92.1297	245.603	186.364	0	186.364	164.491	164.491
12	0.239097	32.7434	-11.5568	Mass Wasting Colluvium	100	38	92.77	247.31	188.549	0	188.549	169.579	169.579
13	0.239097	34.0354	-9.76943	Mass Wasting Colluvium	100	38	93.0855	248.151	189.624	0	189.624	173.597	173.597
14	0.239097	35.1076	-7.99157	Mass Wasting Colluvium	100	38	93.096	248.179	189.66	0	189.66	176.591	176.591
15	0.239097	35.963	-6.22144	Mass Wasting Colluvium	100	38	92.8199	247.443	188.718	0	188.718	178.599	178.599
16	0.239097	36.6043	-4.45725	Mass Wasting Colluvium	100	38	92.2722	245.983	186.849	0	186.849	179.657	179.657
17	0.239097	37.1809	-2.69729	Mass Wasting Colluvium	100	38	91.6668	244.369	184.785	0	184.785	180.466	180.466
18	0.239097	38.5868	-0.939881	Mass Wasting Colluvium	100	38	92.1965	245.781	186.592	0	186.592	185.079	185.079
19	0.239097	39.0518	0.816647	Mass Wasting Colluvium	100	38	91.4759	243.86	184.133	0	184.133	185.437	185.437
20	0.239097	38.8487	2.57394	Mass Wasting Colluvium	100	38	89.918	239.707	178.816	0	178.816	182.859	182.859
21	0.239097	70.3348	4.33367	Mass Wasting Colluvium	100	38	128.532	342.645	310.572	0	310.572	320.312	320.312
22	0.239097	144.792	6.0975	Mass Wasting Colluvium	100	38	219.3	584.62	620.284	0	620.284	643.71	643.71

23	0.239097	211.837	7.86716	Mass Wasting Colluvium	100	38	297.91	794.18	888.51	0	888.51	929.675	929.675
24	0.239097	222.407	9.64442	Mass Wasting Colluvium	100	38	305.893	815.461	915.748	0	915.748	967.73	967.73
25	0.239097	221.131	11.4311	Mass Wasting Colluvium	100	38	299.522	798.479	894.013	0	894.013	954.576	954.576
26	0.239097	219.631	13.2291	Mass Wasting Colluvium	100	38	293.016	781.134	871.81	0	871.81	940.694	940.694
27	0.239097	217.903	15.0406	Mass Wasting Colluvium	100	38	286.365	763.402	849.115	0	849.115	926.064	926.064
28	0.25962	234.219	16.9467	Gravel	0	40	259.776	692.52	825.314	0	825.314	904.472	904.472
29	0.25962	231.27	18.9517	Gravel	0	40	251.501	670.461	799.023	0	799.023	885.385	885.385
30	0.25962	227.963	20.9812	Gravel	0	40	242.989	647.769	771.981	0	771.981	865.165	865.165
31	0.25962	224.284	23.0387	Gravel	0	40	234.227	624.413	744.146	0	744.146	843.756	843.756
32	0.25962	220.215	25.1281	Gravel	0	40	225.204	600.358	715.479	0	715.479	821.107	821.107
33	0.232011	193.234	27.1389	Reinforced Fill	135	38	250.079	666.67	680.507	0	680.507	808.693	808.693
34	0.232011	189.783	29.0714	Reinforced Fill	135	38	242.197	645.658	653.612	0	653.612	788.259	788.259
35	0.232011	186.043	31.0409	Reinforced Fill	135	38	234.088	624.042	625.947	0	625.947	766.83	766.83
36	0.174516	137.3	32.798	Mass Wasting Colluvium	100	38	214.87	572.81	605.17	0	605.17	743.634	743.634
37	0.249154	191.763	34.6733	Reinforced Fill	135	38	218.956	583.702	574.312	0	574.312	725.773	725.773
38	0.249154	186.387	36.9308	Reinforced Fill	135	38	209.46	558.388	541.912	0	541.912	699.356	699.356
39	0.249154	180.544	39.2575	Reinforced Fill	135	38	199.617	532.146	508.324	0	508.324	671.461	671.461
40	0.249154	174.185	41.6643	Reinforced Fill	135	38	189.391	504.887	473.432	0	473.432	641.962	641.962
41	0.249154	167.253	44.165	Reinforced Fill	135	38	178.742	476.498	437.098	0	437.098	610.705	610.705
42	0.249154	159.672	46.7771	Reinforced Fill	135	38	167.618	446.843	399.141	0	399.141	577.493	577.493
43	0.249154	151.345	49.5232	Reinforced Fill	135	38	155.954	415.749	359.342	0	359.342	542.091	542.091
44	0.249154	142.137	52.434	Reinforced Fill	135	38	143.665	382.989	317.413	0	317.413	504.195	504.195
45	0.249154	131.865	55.553	Reinforced Fill	135	38	130.637	348.258	272.958	0	272.958	463.413	463.413
46	0.249154	120.249	58.9451	Reinforced Fill	135	38	116.705	311.116	225.418	0	225.418	419.226	419.226
47	0.249154	106.842	62.7158	Reinforced Fill	135	38	101.615	270.89	173.931	0	173.931	370.94	370.94
48	0.249154	90.8205	67.0609	Reinforced Fill	135	38	84.928	226.404	116.992	0	116.992	317.663	317.663
49	0.249154	70.2465	72.4445	Reinforced Fill	135	38	65.6669	175.058	51.2713	0	51.2713	258.838	258.838
50	0.249154	29.2366	82.7398	Reinforced Fill	135	38	35.0277	93.3782	-53.2733	0	-53.2733	221.676	221.676

◆ Wall 3 - Seismic

Global Minimum Query (spencer) - Safety Factor: 1.93173

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	0.316944	2.59043	-23.2576	Mass Wasting Colluvium	100	38	156.308	301.945	258.478	0	258.478	191.298	191.298
2	0.316944	7.55988	-21.5398	Mass Wasting Colluvium	100	38	161.626	312.217	271.626	0	271.626	207.83	207.83
3	0.316944	12.1138	-19.8421	Mass Wasting Colluvium	100	38	164.243	317.274	278.098	0	278.098	218.831	218.831
4	0.316944	16.266	-18.1623	Mass Wasting Colluvium	100	38	165.007	318.749	279.986	0	279.986	225.854	225.854
5	0.316944	20.0284	-16.4986	Mass Wasting Colluvium	100	38	164.472	317.715	278.663	0	278.663	229.948	229.948
6	0.316944	23.4116	-14.8491	Mass Wasting Colluvium	100	38	163.009	314.889	275.045	0	275.045	231.827	231.827
7	0.316944	26.4246	-13.2122	Mass Wasting Colluvium	100	38	160.868	310.754	269.752	0	269.752	231.985	231.985
8	0.316944	29.0753	-11.5861	Mass Wasting Colluvium	100	38	158.221	305.64	263.208	0	263.208	230.769	230.769
9	0.316944	31.3704	-9.96942	Mass Wasting Colluvium	100	38	155.185	299.776	255.702	0	255.702	228.424	228.424
10	0.316944	33.3156	-8.36075	Mass Wasting Colluvium	100	38	151.844	293.321	247.439	0	247.439	225.123	225.123
11	0.316944	34.9157	-6.75869	Mass Wasting Colluvium	100	38	148.254	286.386	238.564	0	238.564	220.994	220.994
12	0.316944	36.1745	-5.16193	Mass Wasting Colluvium	100	38	144.458	279.053	229.177	0	229.177	216.127	216.127
13	0.316944	37.0949	-3.56919	Mass Wasting Colluvium	100	38	140.484	271.377	219.353	0	219.353	210.59	210.59
14	0.299493	36.742	-2.02292	Gravel	0	40	69.5625	134.376	160.144	0	160.144	157.686	157.686
15	0.299493	38.0704	-0.521892	Gravel	0	40	68.8098	132.922	158.41	0	158.41	157.783	157.783
16	0.299493	40.5833	0.978782	Gravel	0	40	70.1666	135.543	161.534	0	161.534	162.733	162.733
17	0.299493	121.351	2.48013	Gravel	0	40	201.059	388.392	462.869	0	462.869	471.577	471.577
18	0.299493	235.68	3.98318	Gravel	0	40	374.79	723.994	862.822	0	862.822	888.919	888.919
19	0.299493	269.574	5.48899	Gravel	0	40	412.032	795.935	948.557	0	948.557	988.151	988.151
20	0.299493	268.249	6.99861	Gravel	0	40	394.559	762.181	908.334	0	908.334	956.77	956.77
21	0.299493	266.599	8.51313	Gravel	0	40	377.763	729.736	869.667	0	869.667	926.212	926.212
22	0.299493	264.622	10.0337	Gravel	0	40	361.557	698.43	832.356	0	832.356	896.328	896.328
23	0.299493	262.312	11.5614	Gravel	0	40	345.865	668.118	796.233	0	796.233	866.986	866.986
24	0.299493	259.665	13.0975	Gravel	0	40	330.623	638.675	761.144	0	761.144	838.067	838.067
25	0.299493	256.674	14.6433	Gravel	0	40	315.775	609.992	726.961	0	726.961	809.468	809.468
26	0.299493	253.333	16.2	Gravel	0	40	301.272	581.977	693.572	0	693.572	781.1	781.1
27	0.238083	198.911	17.6071	Reinforced Fill	135	38	346.523	669.389	683.988	0	683.988	793.959	793.959
28	0.238083	196.669	18.8631	Reinforced Fill	135	38	335.995	649.052	657.956	0	657.956	772.751	772.751
29	0.285828	232.905	20.2566	Mass Wasting Colluvium	100	38	304.105	587.449	623.905	0	623.905	736.135	736.135
30	0.285828	229.136	21.7909	Mass Wasting Colluvium	100	38	292.102	564.262	594.227	0	594.227	711.005	711.005

31	0.285828	225.061	23.3419	Mass Wasting Colluvium	100	38	280.259	541.385	564.948	0	564.948	685.89	685.89
32	0.318057	245.254	25.001	Reinforced Fill	135	38	287.563	555.495	538.209	0	538.209	672.308	672.308
33	0.318057	239.361	26.7726	Reinforced Fill	135	38	274.421	530.108	505.715	0	505.715	644.17	644.17
34	0.318057	232.993	28.5723	Reinforced Fill	135	38	261.415	504.984	473.557	0	473.557	615.921	615.921
35	0.318057	226.127	30.4034	Reinforced Fill	135	38	248.525	480.084	441.686	0	441.686	587.515	587.515
36	0.318057	218.732	32.2695	Reinforced Fill	135	38	235.732	455.371	410.056	0	410.056	558.904	558.904
37	0.318057	210.779	34.175	Reinforced Fill	135	38	223.019	430.813	378.624	0	378.624	530.045	530.045
38	0.318057	202.228	36.1245	Reinforced Fill	135	38	210.371	406.38	347.351	0	347.351	500.894	500.894
39	0.318057	193.035	38.1238	Reinforced Fill	135	38	197.774	382.046	316.203	0	316.203	471.41	471.41
40	0.318057	183.146	40.1795	Reinforced Fill	135	38	185.214	357.784	285.152	0	285.152	441.557	441.557
41	0.318057	172.497	42.2997	Reinforced Fill	135	38	172.681	333.573	254.161	0	254.161	411.287	411.287
42	0.318057	161.011	44.494	Reinforced Fill	135	38	160.162	309.39	223.21	0	223.21	380.568	380.568
43	0.318057	148.59	46.7745	Reinforced Fill	135	38	147.651	285.222	192.275	0	192.275	349.367	349.367
44	0.320929	136.265	49.1675	Mass Wasting Colluvium	100	38	118.496	228.902	164.987	0	164.987	302.108	302.108
45	0.320929	121.29	51.6943	Mass Wasting Colluvium	100	38	106.139	205.031	134.434	0	134.434	268.801	268.801
46	0.320929	104.844	54.3716	Mass Wasting Colluvium	100	38	93.8064	181.209	103.942	0	103.942	234.833	234.833
47	0.320929	86.6188	57.2376	Mass Wasting Colluvium	100	38	81.556	157.544	73.6532	0	73.6532	200.386	200.386
48	0.320929	66.1603	60.3486	Mass Wasting Colluvium	100	38	69.5422	134.337	43.949	0	43.949	166.11	166.11
49	0.320929	42.7488	63.7948	Mass Wasting Colluvium	100	38	58.1964	112.42	15.8966	0	15.8966	134.14	134.14
50	0.320929	15.0964	67.7382	Mass Wasting Colluvium	100	38	48.6805	94.0376	-7.63152	0	-7.63152	111.29	111.29

Walls 4 and 5 - Static

Global Minimum Query (spencer) - Safety Factor: 1.91101

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	0.631053	5.35709	-12.6371	Mass Wasting Colluvium	100	38	80.6428	154.109	69.2567	0	69.2567	51.1761	51.1761
2	0.631053	15.4371	-11.1811	Mass Wasting Colluvium	100	38	89.0039	170.087	89.7077	0	89.7077	72.115	72.115
3	0.631053	24.2581	-9.73245	Mass Wasting Colluvium	100	38	95.6435	182.776	105.948	0	105.948	89.5435	89.5435
4	0.631053	31.8377	-8.29004	Mass Wasting Colluvium	100	38	100.731	192.498	118.392	0	118.392	103.715	103.715
5	0.631053	38.1907	-6.85292	Mass Wasting Colluvium	100	38	104.412	199.533	127.397	0	127.397	114.849	114.849
6	0.631053	43.3293	-5.42011	Mass Wasting Colluvium	100	38	106.814	204.123	133.272	0	133.272	123.137	123.137
7	0.631053	47.2633	-3.9907	Mass Wasting Colluvium	100	38	108.047	206.478	136.286	0	136.286	128.748	128.748
8	0.588012	47.8507	-2.61238	Gravel	0	40	47.1336	90.0727	107.344	0	107.344	105.194	105.194
9	0.588012	244.018	-1.2842	Gravel	0	40	234.216	447.589	533.416	0	533.416	528.166	528.166
10	0.588012	507.13	0.043289	Gravel	0	40	474.561	906.89	1080.79	0	1080.79	1081.15	1081.15
11	0.588012	508.114	1.3708	Gravel	0	40	463.782	886.292	1056.24	0	1056.24	1067.34	1067.34
12	0.588012	506.455	2.69905	Gravel	0	40	451.082	862.022	1027.32	0	1027.32	1048.58	1048.58
13	0.588012	503.711	4.02875	Gravel	0	40	437.945	836.917	997.398	0	997.398	1028.24	1028.24
14	0.588012	499.867	5.36063	Gravel	0	40	424.383	811	966.513	0	966.513	1006.33	1006.33
15	0.640598	538.824	6.75528	Mass Wasting Colluvium	100	38	437.731	836.509	942.69	0	942.69	994.539	994.539
16	0.640598	532.354	8.21385	Mass Wasting Colluvium	100	38	423.481	809.277	907.833	0	907.833	968.962	968.962
17	0.640598	524.601	9.67782	Mass Wasting Colluvium	100	38	408.905	781.422	872.18	0	872.18	941.913	941.913
18	0.640598	515.55	11.1482	Mass Wasting Colluvium	100	38	394.015	752.967	835.76	0	835.76	913.407	913.407
19	0.640598	505.182	12.626	Mass Wasting Colluvium	100	38	378.822	723.932	798.596	0	798.596	883.454	883.454
20	0.650029	500.643	14.1235	Reinforced Fill	135	38	383.139	732.183	764.358	0	764.358	860.763	860.763
21	0.650029	487.166	15.6419	Reinforced Fill	135	38	366.894	701.138	724.625	0	724.625	827.353	827.353
22	0.583965	424.985	17.0933	Mass Wasting Colluvium	100	38	331.776	634.027	683.523	0	683.523	785.548	785.548
23	0.583965	413.951	18.4778	Mass Wasting Colluvium	100	38	318.252	608.183	650.444	0	650.444	756.793	756.793
24	0.583965	416.119	19.8736	Mass Wasting Colluvium	100	38	313.357	598.828	638.471	0	638.471	751.742	751.742
25	0.583965	724.084	21.2817	Mass Wasting Colluvium	100	38	494.652	945.285	1081.91	0	1081.91	1274.59	1274.59
26	0.583965	1061.3	22.7035	Mass Wasting Colluvium	100	38	685.276	1309.57	1548.18	0	1548.18	1834.89	1834.89

27	0.583965	1070.65	24.1402	Mass Wasting Colluvium	100	38	676.25	1292.32	1526.1	0	1526.1	1829.17	1829.17
28	0.583965	1051.68	25.5933	Mass Wasting Colluvium	100	38	651.012	1244.09	1464.37	0	1464.37	1776.19	1776.19
29	0.583965	1031.43	27.0642	Mass Wasting Colluvium	100	38	625.68	1195.68	1402.4	0	1402.4	1722.09	1722.09
30	0.583965	1009.25	28.5547	Mass Wasting Colluvium	100	38	599.913	1146.44	1339.38	0	1339.38	1665.85	1665.85
31	0.583965	982.566	30.0667	Mass Wasting Colluvium	100	38	572.391	1093.84	1272.06	0	1272.06	1603.42	1603.42
32	0.583965	958.046	31.6021	Mass Wasting Colluvium	100	38	546.708	1044.76	1209.24	0	1209.24	1545.61	1545.61
33	0.583965	932.087	33.1633	Mass Wasting Colluvium	100	38	520.931	995.505	1146.19	0	1146.19	1486.6	1486.6
34	0.583965	904.521	34.7529	Mass Wasting Colluvium	100	38	495.004	945.958	1082.78	0	1082.78	1426.21	1426.21
35	0.583965	875.254	36.3736	Mass Wasting Colluvium	100	38	468.916	896.103	1018.97	0	1018.97	1364.35	1364.35
36	0.583965	844.181	38.029	Mass Wasting Colluvium	100	38	442.656	845.92	954.735	0	954.735	1300.94	1300.94
37	0.583965	811.178	39.7227	Mass Wasting Colluvium	100	38	416.213	795.388	890.056	0	890.056	1235.88	1235.88
38	0.583965	776.101	41.4591	Mass Wasting Colluvium	100	38	389.576	744.483	824.901	0	824.901	1169.07	1169.07
39	0.583965	738.782	43.2433	Mass Wasting Colluvium	100	38	362.73	693.181	759.238	0	759.238	1100.38	1100.38
40	0.607045	725.775	45.1191	Reinforced Fill	135	38	350.91	670.593	685.527	0	685.527	1037.9	1037.9
41	0.607045	679.782	47.0966	Reinforced Fill	135	38	322.262	615.846	615.454	0	615.454	962.208	962.208
42	0.579297	602.759	49.1017	Mass Wasting Colluvium	100	38	278.731	532.658	553.776	0	553.776	875.572	875.572
43	0.579297	554.522	51.1425	Mass Wasting Colluvium	100	38	251.106	479.866	486.206	0	486.206	797.878	797.878
44	0.579297	502.538	53.2782	Mass Wasting Colluvium	100	38	223.189	426.516	417.921	0	417.921	717.115	717.115
45	0.579297	446.22	55.5269	Mass Wasting Colluvium	100	38	194.951	372.554	348.853	0	348.853	632.795	632.795
46	0.579297	384.78	57.913	Mass Wasting Colluvium	100	38	166.358	317.911	278.913	0	278.913	544.243	544.243
47	0.579297	317.119	60.4705	Mass Wasting Colluvium	100	38	137.358	262.492	207.98	0	207.98	450.468	450.468
48	0.579297	241.626	63.2499	Mass Wasting Colluvium	100	38	107.88	206.159	135.878	0	135.878	349.907	349.907
49	0.579297	155.741	66.3315	Mass Wasting Colluvium	100	38	77.8091	148.694	62.3253	0	62.3253	239.845	239.845
50	0.579297	54.9017	69.8596	Mass Wasting Colluvium	100	38	48.5957	92.8669	-9.13002	0	-9.13002	123.374	123.374

Walls 4 and 5 - Seismic

Global Minimum Query (spencer) - Safety Factor: 1.36227

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	0.73515	8.07122	-13.9772	Mass Wasting Colluvium	100	38	221.092	301.187	257.508	0	257.508	202.477	202.477
2	0.73515	23.4006	-12.6167	Mass Wasting Colluvium	100	38	237.283	323.243	285.739	0	285.739	232.628	232.628
3	0.73515	37.1166	-11.2633	Mass Wasting Colluvium	100	38	247.706	337.442	303.911	0	303.911	254.58	254.58
4	0.73515	49.2434	-9.91625	Mass Wasting Colluvium	100	38	253.665	345.56	314.303	0	314.303	269.957	269.957
5	0.73515	59.8017	-8.57473	Mass Wasting Colluvium	100	38	256.128	348.915	318.597	0	318.597	279.976	279.976
6	0.73515	68.8094	-7.23794	Mass Wasting Colluvium	100	38	255.819	348.494	318.057	0	318.057	285.568	285.568
7	0.73515	76.2816	-5.9051	Mass Wasting Colluvium	100	38	253.283	345.04	313.636	0	313.636	287.439	287.439
8	0.73515	82.2305	-4.57546	Mass Wasting Colluvium	100	38	248.939	339.122	306.062	0	306.062	286.14	286.14
9	0.73515	86.6659	-3.24828	Mass Wasting Colluvium	100	38	243.107	331.178	295.894	0	295.894	282.097	282.097
10	0.73515	89.5949	-1.92285	Mass Wasting Colluvium	100	38	236.038	321.547	283.567	0	283.567	275.643	275.643
11	0.73515	91.0222	-0.598453	Mass Wasting Colluvium	100	38	227.925	310.496	269.423	0	269.423	267.042	267.042
12	0.73515	90.9503	0.725628	Mass Wasting Colluvium	100	38	218.926	298.236	253.73	0	253.73	256.503	256.503
13	0.73515	89.5624	2.0501	Mass Wasting Colluvium	100	38	209.351	285.193	237.036	0	237.036	244.53	244.53
14	0.698607	86.7485	3.34268	Gravel	0	40	100.39	136.758	162.983	0	162.983	168.846	168.846
15	0.698607	376.937	4.60396	Gravel	0	40	417.298	568.473	677.48	0	677.48	711.084	711.084
16	0.698607	621.446	5.86748	Gravel	0	40	659.183	897.985	1070.18	0	1070.18	1137.92	1137.92
17	0.698607	613.938	7.13388	Gravel	0	40	624.828	851.185	1014.4	0	1014.4	1092.6	1092.6
18	0.698607	604.948	8.40379	Gravel	0	40	591.475	805.749	960.254	0	960.254	1047.64	1047.64
19	0.698607	594.461	9.67788	Gravel	0	40	559.007	761.518	907.542	0	907.542	1002.87	1002.87
20	0.784703	653.956	11.036	Mass Wasting Colluvium	100	38	575.914	784.55	876.184	0	876.184	988.506	988.506
21	0.784703	638.574	12.4796	Mass Wasting Colluvium	100	38	544.552	741.827	821.501	0	821.501	942.022	942.022
22	0.784703	621.233	13.9314	Mass Wasting Colluvium	100	38	513.89	700.057	768.038	0	768.038	895.512	895.512
23	0.73101	561.391	15.342	Reinforced Fill	135	38	517.314	704.722	729.211	0	729.211	871.141	871.141
24	0.73101	542.968	16.7119	Reinforced Fill	135	38	489.186	666.404	680.166	0	680.166	827.04	827.04
25	0.73101	522.867	18.0917	Reinforced Fill	135	38	461.518	628.712	631.923	0	631.923	782.697	782.697
26	0.735282	503.917	19.4866	Mass Wasting Colluvium	100	38	403.543	549.735	575.634	0	575.634	718.43	718.43

27	0.735282	484.616	20.8977	Mass Wasting Colluvium	100	38	379.828	517.428	534.284	0	534.284	679.308	679.308
28	0.735282	720.484	22.3221	Mass Wasting Colluvium	100	38	506.961	690.618	755.955	0	755.955	964.104	964.104
29	0.735282	1275.66	23.7613	Mass Wasting Colluvium	100	38	806.494	1098.66	1278.23	0	1278.23	1633.29	1633.29
30	0.735282	1307.1	25.2166	Mass Wasting Colluvium	100	38	798.601	1087.91	1264.46	0	1264.46	1640.54	1640.54
31	0.735282	1275.51	26.6896	Mass Wasting Colluvium	100	38	756.904	1031.11	1191.76	0	1191.76	1572.27	1572.27
32	0.735282	1241.59	28.1818	Mass Wasting Colluvium	100	38	715.808	975.124	1120.11	0	1120.11	1503.63	1503.63
33	0.735282	1200.76	29.6952	Mass Wasting Colluvium	100	38	673.044	916.867	1045.54	0	1045.54	1429.36	1429.36
34	0.735282	1162.26	31.2318	Mass Wasting Colluvium	100	38	633.264	862.676	976.181	0	976.181	1360.18	1360.18
35	0.735282	1121.69	32.7938	Mass Wasting Colluvium	100	38	594.21	809.475	908.086	0	908.086	1290.94	1290.94
36	0.735282	1078.6	34.3837	Mass Wasting Colluvium	100	38	555.678	756.984	840.901	0	840.901	1221.15	1221.15
37	0.735282	1032.83	36.0045	Mass Wasting Colluvium	100	38	517.635	705.159	774.569	0	774.569	1150.71	1150.71
38	0.735282	984.22	37.6594	Mass Wasting Colluvium	100	38	480.055	653.964	709.04	0	709.04	1079.53	1079.53
39	0.735282	932.585	39.352	Mass Wasting Colluvium	100	38	442.914	603.368	644.282	0	644.282	1007.47	1007.47
40	0.701319	838.443	41.0457	Reinforced Fill	135	38	431.319	587.573	579.267	0	579.267	954.811	954.811
41	0.701319	785.475	42.743	Reinforced Fill	135	38	396.4	540.004	518.381	0	518.381	884.72	884.72
42	0.734815	762.544	44.5311	Mass Wasting Colluvium	100	38	337.329	459.533	460.182	0	460.182	792.035	792.035
43	0.734815	696.629	46.4192	Mass Wasting Colluvium	100	38	301.855	411.208	398.328	0	398.328	715.52	715.52
44	0.734815	626.128	48.3753	Mass Wasting Colluvium	100	38	266.822	363.483	337.243	0	337.243	637.51	637.51
45	0.734815	550.494	50.4098	Mass Wasting Colluvium	100	38	232.264	316.406	276.987	0	276.987	557.844	557.844
46	0.734815	469.043	52.536	Mass Wasting Colluvium	100	38	198.238	270.053	217.659	0	217.659	476.343	476.343
47	0.734815	380.891	54.771	Mass Wasting Colluvium	100	38	164.831	224.545	159.411	0	159.411	392.824	392.824
48	0.734815	284.863	57.1377	Mass Wasting Colluvium	100	38	132.188	180.076	102.493	0	102.493	307.12	307.12
49	0.734815	179.344	59.6675	Mass Wasting Colluvium	100	38	100.543	136.966	47.315	0	47.315	219.15	219.15
50	0.734815	61.9873	62.4065	Mass Wasting Colluvium	100	38	71.2552	97.0689	-3.75167	0	-3.75167	132.585	132.585

Wall 6 - Static

Global Minimum Query (spencer) - Safety Factor: 2.02319

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	0.800274	14.2468	-20.3426	Mass Wasting Colluvium	100	38	93.7612	189.697	114.806	0	114.806	80.0439	80.0439
2	0.800274	41.5128	-18.7168	Mass Wasting Colluvium	100	38	114.918	232.5	169.592	0	169.592	130.657	130.657
3	0.800274	66.3582	-17.1065	Mass Wasting Colluvium	100	38	132.141	267.346	214.193	0	214.193	173.525	173.525
4	0.800274	88.8484	-15.5101	Mass Wasting Colluvium	100	38	146.045	295.477	250.199	0	250.199	209.669	209.669
5	0.800274	109.04	-13.9259	Mass Wasting Colluvium	100	38	157.11	317.863	278.852	0	278.852	239.896	239.896
6	0.800274	126.983	-12.3525	Mass Wasting Colluvium	100	38	165.717	335.277	301.14	0	301.14	264.849	264.849
7	0.800274	142.721	-10.7885	Mass Wasting Colluvium	100	38	172.173	348.338	317.858	0	317.858	285.05	285.05
8	0.800274	156.289	-9.23268	Mass Wasting Colluvium	100	38	176.728	357.554	329.654	0	329.654	300.927	300.927
9	0.800274	167.72	-7.68365	Mass Wasting Colluvium	100	38	179.587	363.339	337.058	0	337.058	312.829	312.829
10	0.800274	177.038	-6.14025	Mass Wasting Colluvium	100	38	180.923	366.041	340.518	0	340.518	321.054	321.054
11	0.800274	184.265	-4.60132	Mass Wasting Colluvium	100	38	180.878	365.951	340.402	0	340.402	325.845	325.845
12	0.800274	189.415	-3.06571	Mass Wasting Colluvium	100	38	179.576	363.316	337.029	0	337.029	327.411	327.411
13	0.800274	193.685	-1.53231	Mass Wasting Colluvium	100	38	177.833	359.79	332.517	0	332.517	327.76	327.76
14	0.800274	237.857	0	Mass Wasting Colluvium	100	38	199.6	403.829	388.883	0	388.883	388.883	388.883
15	0.800274	867.309	1.53231	Mass Wasting Colluvium	100	38	554.337	1121.53	1307.5	0	1307.5	1322.32	1322.32
16	0.800274	1179.75	3.06571	Mass Wasting Colluvium	100	38	714.313	1445.19	1721.75	0	1721.75	1760.01	1760.01
17	0.800274	1174.6	4.60132	Mass Wasting Colluvium	100	38	693.978	1404.05	1669.12	0	1669.12	1724.97	1724.97
18	0.800274	1167.38	6.14025	Mass Wasting Colluvium	100	38	673.456	1362.53	1615.97	0	1615.97	1688.42	1688.42
19	0.800274	1153.11	7.68365	Mass Wasting Colluvium	100	38	650.181	1315.44	1555.69	0	1555.69	1643.41	1643.41
20	0.800274	1140.63	9.23268	Mass Wasting Colluvium	100	38	628.76	1272.1	1500.21	0	1500.21	1602.42	1602.42
21	0.800274	1127.06	10.7885	Mass Wasting Colluvium	100	38	607.639	1229.37	1445.52	0	1445.52	1561.31	1561.31
22	0.800274	1111.32	12.3525	Mass Wasting Colluvium	100	38	586.262	1186.12	1390.17	0	1390.17	1518.56	1518.56

23	0.800274	1093.38	13.9259	Mass Wasting Colluvium	100	38	564.623	1142.34	1334.14	0	1334.14	1474.14	1474.14
24	0.800274	1073.19	15.5101	Mass Wasting Colluvium	100	38	542.715	1098.01	1277.41	0	1277.41	1428.02	1428.02
25	0.800274	1050.7	17.1065	Mass Wasting Colluvium	100	38	520.524	1053.12	1219.93	0	1219.93	1380.13	1380.13
26	0.800274	1030.56	18.7168	Mass Wasting Colluvium	100	38	500.097	1011.79	1167.04	0	1167.04	1336.48	1336.48
27	0.800274	1338.46	20.3426	Mass Wasting Colluvium	100	38	619.705	1253.78	1476.78	0	1476.78	1706.54	1706.54
28	0.75992	1828.86	21.9438	Reinforced Fill	135	38	867.363	1754.84	2073.3	0	2073.3	2422.74	2422.74
29	0.75992	1832.1	23.5213	Reinforced Fill	135	38	849.673	1719.05	2027.49	0	2027.49	2397.32	2397.32
30	0.75992	1800.78	25.1179	Reinforced Fill	135	38	817.704	1654.37	1944.71	0	1944.71	2328.07	2328.07
31	0.75992	1765.82	26.7358	Reinforced Fill	135	38	892.427	1805.55	2138.22	0	2138.22	2587.76	2587.76
32	0.75992	1733.32	28.377	Reinforced Fill	135	38	754.101	1525.69	1780	0	1780	2187.35	2187.35
33	0.75992	1721.76	30.044	Reinforced Fill	135	38	731.978	1480.93	1722.71	0	1722.71	2146.06	2146.06
34	0.75992	1708.28	31.7396	Reinforced Fill	135	38	709.345	1435.14	1664.1	0	1664.1	2102.88	2102.88
35	0.75992	1688.83	33.4669	Reinforced Fill	135	38	684.716	1385.31	1600.33	0	1600.33	2052.96	2052.96
36	0.823612	1780.98	35.3049	Mass Wasting Colluvium	100	38	634.132	1282.97	1514.13	0	1514.13	1963.2	1963.2
37	0.823612	1721.19	37.2615	Mass Wasting Colluvium	100	38	596.612	1207.06	1416.98	0	1416.98	1870.84	1870.84
38	0.823612	1656.95	39.2704	Mass Wasting Colluvium	100	38	558.633	1130.22	1318.61	0	1318.61	1775.37	1775.37
39	0.823612	1587.87	41.3387	Mass Wasting Colluvium	100	38	520.143	1052.35	1218.95	0	1218.95	1676.53	1676.53
40	0.823612	1513.48	43.4752	Mass Wasting Colluvium	100	38	481.109	973.375	1117.87	0	1117.87	1574.03	1574.03
41	0.823612	1433.19	45.6902	Mass Wasting Colluvium	100	38	441.483	893.204	1015.26	0	1015.26	1467.51	1467.51
42	0.823612	1346.3	47.997	Mass Wasting Colluvium	100	38	401.216	811.737	910.979	0	910.979	1356.53	1356.53
43	0.823612	1251.89	50.4123	Mass Wasting Colluvium	100	38	360.258	728.87	804.918	0	804.918	1240.59	1240.59
44	0.823612	1148.74	52.9582	Mass Wasting Colluvium	100	38	318.549	644.486	696.91	0	696.91	1119	1119
45	0.823612	1035.22	55.6648	Mass Wasting Colluvium	100	38	276.033	558.468	586.812	0	586.812	990.929	990.929
46	0.823612	909.025	58.5748	Mass Wasting Colluvium	100	38	232.651	470.697	474.471	0	474.471	855.238	855.238
47	0.823612	766.657	61.7529	Mass Wasting Colluvium	100	38	188.361	381.091	359.78	0	359.78	710.38	710.38

48	0.823612	602.388	65.3062	Mass Wasting Colluvium	100	38	143.185	289.69	242.792	0	242.792	554.187	554.187
49	0.823612	405.37	69.4387	Mass Wasting Colluvium	100	38	97.3828	197.024	124.185	0	124.185	383.801	383.801
50	0.823612	148.433	74.6664	Mass Wasting Colluvium	100	38	48.5317	98.1889	-2.31807	0	-2.31807	174.677	174.677

Wall 6 - Seismic

Global Minimum Query (spencer) - Safety Factor: 1.471

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	0.847396	12.8329	-16.5863	Mass Wasting Colluvium	100	38	308.566	453.9	452.971	0	452.971	361.065	361.065
2	0.847396	37.2972	-15.1078	Mass Wasting Colluvium	100	38	332.916	489.72	498.819	0	498.819	408.943	408.943
3	0.847396	59.3835	-13.6395	Mass Wasting Colluvium	100	38	345.047	507.564	521.658	0	521.658	437.93	437.93
4	0.847396	79.1381	-12.1804	Mass Wasting Colluvium	100	38	348.982	513.352	529.065	0	529.065	453.738	453.738
5	0.847396	96.6016	-10.7292	Mass Wasting Colluvium	100	38	347.366	510.976	526.025	0	526.025	460.206	460.206
6	0.847396	111.809	-9.28499	Mass Wasting Colluvium	100	38	341.956	503.018	515.839	0	515.839	459.933	459.933
7	0.847396	124.791	-7.84669	Mass Wasting Colluvium	100	38	333.923	491.2	500.712	0	500.712	454.693	454.693
8	0.847396	135.571	-6.41335	Mass Wasting Colluvium	100	38	324.05	476.678	482.127	0	482.127	445.702	445.702
9	0.847396	144.171	-4.98403	Mass Wasting Colluvium	100	38	312.872	460.235	461.08	0	461.08	433.795	433.795
10	0.847396	150.608	-3.55782	Mass Wasting Colluvium	100	38	300.748	442.401	438.253	0	438.253	419.554	419.554
11	0.847396	154.892	-2.13381	Mass Wasting Colluvium	100	38	287.925	423.537	414.108	0	414.108	403.38	403.38
12	0.847396	157.548	-0.711125	Mass Wasting Colluvium	100	38	275.059	404.612	389.886	0	389.886	386.472	386.472
13	0.847396	185.473	0.711125	Mass Wasting Colluvium	100	38	286.221	421.031	410.9	0	410.9	414.453	414.453
14	0.847396	833.291	2.13381	Mass Wasting Colluvium	100	38	818.96	1204.69	1413.94	0	1413.94	1444.46	1444.46
15	0.847396	1199.26	3.55782	Mass Wasting Colluvium	100	38	1069.56	1573.32	1885.76	0	1885.76	1952.26	1952.26
16	0.847396	1192.82	4.98403	Mass Wasting Colluvium	100	38	1012.14	1488.86	1777.66	0	1777.66	1865.93	1865.93
17	0.847396	1183.98	6.41335	Mass Wasting Colluvium	100	38	958.226	1409.55	1676.15	0	1676.15	1783.86	1783.86
18	0.847396	1167.41	7.84669	Mass Wasting Colluvium	100	38	903.678	1329.31	1573.44	0	1573.44	1697.98	1697.98
19	0.847396	1154.11	9.28499	Mass Wasting Colluvium	100	38	855.785	1258.86	1483.28	0	1483.28	1623.19	1623.19
20	0.847396	1138.9	10.7292	Mass Wasting Colluvium	100	38	810.449	1192.17	1397.92	0	1397.92	1551.48	1551.48
21	0.847396	1121.44	12.1804	Mass Wasting Colluvium	100	38	767.145	1128.47	1316.39	0	1316.39	1481.97	1481.97
22	0.847396	1101.68	13.6395	Mass Wasting Colluvium	100	38	725.608	1067.37	1238.17	0	1238.17	1414.24	1414.24

23	0.847396	1079.59	15.1078	Mass Wasting Colluvium	100	38	685.626	1008.56	1162.89	0	1162.89	1347.99	1347.99
24	0.847396	1057.3	16.5863	Mass Wasting Colluvium	100	38	648.163	953.448	1092.36	0	1092.36	1285.42	1285.42
25	0.802254	1072.49	18.0362	Reinforced Fill	135	38	693.789	1020.56	1133.47	0	1133.47	1359.38	1359.38
26	0.802254	1734.9	19.4581	Reinforced Fill	135	38	1013.74	1491.21	1735.86	0	1735.86	2094.01	2094.01
27	0.802254	1912.39	20.8927	Reinforced Fill	135	38	1067.69	1570.57	1837.46	0	1837.46	2245.01	2245.01
28	0.802254	1881.78	22.3411	Reinforced Fill	135	38	1016.59	1495.4	1741.24	0	1741.24	2159.02	2159.02
29	0.802254	1848.59	23.8047	Reinforced Fill	135	38	1558.09	2291.95	2760.77	0	2760.77	3448.12	3448.12
30	0.802254	1812.82	25.285	Reinforced Fill	135	38	918.328	1350.86	1556.23	0	1556.23	1990.03	1990.03
31	0.802254	1803.04	26.7836	Reinforced Fill	135	38	883.338	1299.39	1490.35	0	1490.35	1936.24	1936.24
32	0.802254	1793.95	28.3023	Reinforced Fill	135	38	849.932	1250.25	1427.45	0	1427.45	1885.13	1885.13
33	0.802254	1779.08	29.843	Reinforced Fill	135	38	815.35	1199.38	1362.35	0	1362.35	1830.12	1830.12
34	0.876682	1896.88	31.4817	Mass Wasting Colluvium	100	38	747.496	1099.57	1279.39	0	1279.39	1737.13	1737.13
35	0.876682	1838.44	33.2238	Mass Wasting Colluvium	100	38	695.823	1023.55	1182.09	0	1182.09	1637.84	1637.84
36	0.876682	1775.94	35.0012	Mass Wasting Colluvium	100	38	648.665	954.186	1093.31	0	1093.31	1547.53	1547.53
37	0.876682	1709.13	36.8183	Mass Wasting Colluvium	100	38	602.368	886.083	1006.14	0	1006.14	1457.07	1457.07
38	0.876682	1637.69	38.6796	Mass Wasting Colluvium	100	38	556.863	819.145	920.463	0	920.463	1366.27	1366.27
39	0.876682	1561.27	40.5907	Mass Wasting Colluvium	100	38	512.093	753.289	836.172	0	836.172	1274.94	1274.94
40	0.876682	1479.41	42.5582	Mass Wasting Colluvium	100	38	468.012	688.446	753.176	0	753.176	1182.91	1182.91
41	0.876682	1391.61	44.59	Mass Wasting Colluvium	100	38	424.585	624.564	671.412	0	671.412	1089.96	1089.96
42	0.876682	1297.22	46.6956	Mass Wasting Colluvium	100	38	381.791	561.614	590.838	0	590.838	995.923	995.923
43	0.876682	1195.46	48.887	Mass Wasting Colluvium	100	38	339.623	499.586	511.446	0	511.446	900.586	900.586
44	0.876682	1085.31	51.1794	Mass Wasting Colluvium	100	38	298.099	438.503	433.264	0	433.264	803.752	803.752
45	0.876682	965.464	53.5925	Mass Wasting Colluvium	100	38	257.258	378.427	356.371	0	356.371	705.211	705.211
46	0.876682	834.171	56.1528	Mass Wasting Colluvium	100	38	217.175	319.465	280.903	0	280.903	604.738	604.738
47	0.876682	688.971	58.8979	Mass Wasting Colluvium	100	38	177.952	261.768	207.054	0	207.054	502.025	502.025

48	0.876682	526.229	61.8833	Mass Wasting Colluvium	100	38	139.687	205.479	135.008	0	135.008	396.434	396.434
49	0.876682	340.132	65.1984	Mass Wasting Colluvium	100	38	102.288	150.465	64.5929	0	64.5929	285.948	285.948
50	0.876682	120.17	69.006	Mass Wasting Colluvium	100	38	65.7076	96.6559	-4.28032	0	-4.28032	166.948	166.948

Wall 7 - Static

Global Minimum Query (spencer) - Safety Factor: 2.6509

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	0.489799	6.15957	-23.167	Mass Wasting Colluvium	100	38	60.6775	160.85	77.8844	0	77.8844	51.9193	51.9193
2	0.489799	17.9362	-21.3172	Mass Wasting Colluvium	100	38	70.8178	187.731	112.29	0	112.29	84.6552	84.6552
3	0.489799	28.6478	-19.4904	Mass Wasting Colluvium	100	38	79.1561	209.835	140.582	0	140.582	112.566	112.566
4	0.489799	38.3317	-17.684	Mass Wasting Colluvium	100	38	85.9614	227.875	163.672	0	163.672	136.265	136.265
5	0.489799	47.0201	-15.8956	Mass Wasting Colluvium	100	38	91.4444	242.41	182.277	0	182.277	156.236	156.236
6	0.489799	54.741	-14.123	Mass Wasting Colluvium	100	38	95.7735	253.886	196.966	0	196.966	172.868	172.868
7	0.489799	61.518	-12.3641	Mass Wasting Colluvium	100	38	99.0837	262.661	208.197	0	208.197	186.477	186.477
8	0.425327	60.1574	-10.7314	Gravel	0	40	61.5666	163.207	194.503	0	194.503	182.835	182.835
9	0.425327	68.4667	-9.22187	Gravel	0	40	68.1995	180.79	215.458	0	215.458	204.385	204.385
10	0.455398	253.61	-7.66587	Mass Wasting Colluvium	100	38	256.174	679.092	741.202	0	741.202	706.722	706.722
11	0.455398	530.028	-6.06257	Mass Wasting Colluvium	100	38	473.877	1256.2	1479.87	0	1479.87	1429.54	1429.54
12	0.455398	770.063	-4.46402	Mass Wasting Colluvium	100	38	652.235	1729.01	2085.04	0	2085.04	2034.12	2034.12
13	0.455398	804.367	-2.86896	Mass Wasting Colluvium	100	38	663.669	1759.32	2123.83	0	2123.83	2090.57	2090.57
14	0.455398	805.268	-1.27611	Mass Wasting Colluvium	100	38	649.485	1721.72	2075.71	0	2075.71	2061.24	2061.24
15	0.455398	805.477	0.315743	Mass Wasting Colluvium	100	38	635.46	1684.54	2028.12	0	2028.12	2031.62	2031.62
16	0.455398	804.994	1.90784	Mass Wasting Colluvium	100	38	621.547	1647.66	1980.92	0	1980.92	2001.62	2001.62
17	0.455398	802.812	3.50142	Mass Wasting Colluvium	100	38	607.005	1609.11	1931.58	0	1931.58	1968.72	1968.72
18	0.455398	798.534	5.09772	Mass Wasting Colluvium	100	38	591.576	1568.21	1879.22	0	1879.22	1931.99	1931.99
19	0.455398	795.96	6.69799	Mass Wasting Colluvium	100	38	577.853	1531.83	1832.65	0	1832.65	1900.51	1900.51
20	0.455398	792.682	8.30354	Mass Wasting Colluvium	100	38	564.118	1495.42	1786.05	0	1786.05	1868.38	1868.38
21	0.455398	788.691	9.91569	Mass Wasting Colluvium	100	38	550.349	1458.92	1739.33	0	1739.33	1835.54	1835.54
22	0.455398	783.976	11.5358	Mass Wasting Colluvium	100	38	536.523	1422.27	1692.43	0	1692.43	1801.93	1801.93
23	0.455398	778.526	13.1654	Mass Wasting Colluvium	100	38	522.619	1385.41	1645.25	0	1645.25	1767.5	1767.5

24	0.455398	772.326	14.8058	Mass Wasting Colluvium	100	38	508.623	1348.31	1597.76	0	1597.76	1732.2	1732.2
25	0.455398	765.361	16.4588	Mass Wasting Colluvium	100	38	494.511	1310.9	1549.88	0	1549.88	1695.98	1695.98
26	0.455398	757.612	18.126	Mass Wasting Colluvium	100	38	480.271	1273.15	1501.56	0	1501.56	1658.77	1658.77
27	0.455398	749.056	19.8093	Mass Wasting Colluvium	100	38	465.88	1235	1452.74	0	1452.74	1620.55	1620.55
28	0.455398	739.67	21.5106	Mass Wasting Colluvium	100	38	451.326	1196.42	1403.36	0	1403.36	1581.24	1581.24
29	0.455398	729.424	23.232	Mass Wasting Colluvium	100	38	436.595	1157.37	1353.38	0	1353.38	1540.79	1540.79
30	0.495788	781.409	25.0545	Reinforced Fill	135	38	434.037	1150.59	1299.9	0	1299.9	1502.8	1502.8
31	0.495788	767.005	26.9832	Reinforced Fill	135	38	417.407	1106.51	1243.47	0	1243.47	1456	1456
32	0.495788	751.339	28.9455	Reinforced Fill	135	38	400.502	1061.69	1186.11	0	1186.11	1407.62	1407.62
33	0.495788	734.34	30.9459	Reinforced Fill	135	38	383.3	1016.09	1127.74	0	1127.74	1357.56	1357.56
34	0.495788	715.923	32.989	Reinforced Fill	135	38	365.838	969.801	1068.5	0	1068.5	1305.98	1305.98
35	0.445709	626.664	34.9726	Mass Wasting Colluvium	100	38	336.428	891.836	1013.5	0	1013.5	1248.83	1248.83
36	0.445709	609.378	36.8971	Mass Wasting Colluvium	100	38	320.18	848.765	958.376	0	958.376	1198.75	1198.75
37	0.445709	590.822	38.8715	Mass Wasting Colluvium	100	38	303.61	804.839	902.152	0	902.152	1146.89	1146.89
38	0.445709	570.888	40.9025	Mass Wasting Colluvium	100	38	286.692	759.991	844.75	0	844.75	1093.11	1093.11
39	0.445709	549.448	42.998	Mass Wasting Colluvium	100	38	269.399	714.151	786.078	0	786.078	1037.28	1037.28
40	0.445709	526.344	45.1678	Mass Wasting Colluvium	100	38	251.702	667.236	726.03	0	726.03	979.21	979.21
41	0.445709	501.382	47.4239	Mass Wasting Colluvium	100	38	233.564	619.154	664.488	0	664.488	918.699	918.699
42	0.445709	474.313	49.7815	Mass Wasting Colluvium	100	38	214.945	569.798	601.313	0	601.313	855.5	855.5
43	0.445709	444.818	52.2604	Mass Wasting Colluvium	100	38	195.797	519.039	536.345	0	536.345	789.316	789.316
44	0.445709	412.467	54.8873	Mass Wasting Colluvium	100	38	176.062	466.723	469.384	0	469.384	719.777	719.777
45	0.445709	376.661	57.6992	Mass Wasting Colluvium	100	38	155.667	412.657	400.182	0	400.182	646.415	646.415
46	0.445709	336.522	60.7512	Mass Wasting Colluvium	100	38	134.514	356.582	328.411	0	328.411	568.614	568.614
47	0.445709	290.657	64.1308	Mass Wasting Colluvium	100	38	112.458	298.116	253.577	0	253.577	485.493	485.493
48	0.445709	236.582	67.9954	Mass Wasting Colluvium	100	38	89.2354	236.554	174.781	0	174.781	395.595	395.595

49	0.445709	168.833	72.6938	Mass Wasting Colluvium	100	38	64.0968	169.914	89.4861	0	89.4861	295.198	295.198
50	0.445709	65.2893	79.6539	Mass Wasting Colluvium	100	38	32.6018	86.4241	-17.3764	0	-17.3764	161.202	161.202

◆ Wall 7 - Seismic

Global Minimum Query (spencer) - Safety Factor: 2.65735

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	0.38538	95.6265	14.3333	Verti-Block	3000	0	1128.94	3000	1110.57	0	1110.57	1399.04	1399.04
2	0.38538	286.78	14.9303	Verti-Block	3000	0	1128.94	3000	1629.16	0	1629.16	1930.19	1930.19
3	0.38538	475.447	15.529	Verti-Block	3000	0	1128.94	3000	1536.98	0	1536.98	1850.68	1850.68
4	0.38538	540.651	16.1294	Verti-Block	3000	0	1128.94	3000	1589.75	0	1589.75	1916.23	1916.23
5	0.38538	535.395	16.7316	Verti-Block	3000	0	1128.94	3000	1555.78	0	1555.78	1895.16	1895.16
6	0.38538	529.934	17.3358	Verti-Block	3000	0	1128.94	3000	1522.08	0	1522.08	1874.48	1874.48
7	0.38538	524.267	17.9419	Verti-Block	3000	0	1128.94	3000	1488.63	0	1488.63	1854.18	1854.18
8	0.38538	518.392	18.5501	Verti-Block	3000	0	1128.94	3000	1455.43	0	1455.43	1834.26	1834.26
9	0.388546	516.488	19.163	Reinforced Fill	135	38	287.086	762.889	803.661	0	803.661	903.428	903.428
10	0.388546	510.082	19.7807	Reinforced Fill	135	38	280.032	744.142	779.667	0	779.667	880.378	880.378
11	0.388546	503.456	20.4008	Reinforced Fill	135	38	273.084	725.68	756.036	0	756.036	857.6	857.6
12	0.388546	496.605	21.0235	Reinforced Fill	135	38	266.239	707.49	732.754	0	732.754	835.079	835.079
13	0.388546	489.529	21.6487	Reinforced Fill	135	38	259.492	689.56	709.804	0	709.804	812.799	812.799
14	0.388546	482.223	22.2767	Reinforced Fill	135	38	252.838	671.878	687.173	0	687.173	790.749	790.749
15	0.388546	474.685	22.9074	Reinforced Fill	135	38	246.274	654.436	664.848	0	664.848	768.916	768.916
16	0.388546	466.911	23.5412	Reinforced Fill	135	38	239.796	637.222	642.815	0	642.815	747.286	747.286
17	0.388546	458.898	24.178	Reinforced Fill	135	38	1568.28	4167.47	5161.33	0	5161.33	5865.42	5865.42
18	0.388546	450.642	24.818	Reinforced Fill	135	38	227.086	603.448	599.585	0	599.585	704.601	704.601
19	0.388546	442.14	25.4613	Reinforced Fill	135	38	220.848	586.871	578.367	0	578.367	683.524	683.524
20	0.388546	433.388	26.1081	Reinforced Fill	135	38	214.684	570.49	557.401	0	557.401	662.611	662.611
21	0.388546	424.382	26.7585	Reinforced Fill	135	38	208.591	554.3	536.68	0	536.68	641.857	641.857
22	0.388546	415.117	27.4126	Reinforced Fill	135	38	202.568	538.294	516.194	0	516.194	621.251	621.251
23	0.388546	405.588	28.0706	Reinforced Fill	135	38	196.612	522.466	495.933	0	495.933	600.784	600.784
24	0.388546	395.792	28.7327	Reinforced Fill	135	38	190.72	506.81	475.895	0	475.895	580.452	580.452

25	0.388546	385.722	29.399	Reinforced Fill	135	38	184.892	491.322	456.07	0	456.07	560.247	560.247
26	0.388546	375.374	30.0697	Reinforced Fill	135	38	179.125	475.997	436.455	0	436.455	540.163	540.163
27	0.388546	364.742	30.7449	Reinforced Fill	135	38	613.152	1629.36	1912.69	0	1912.69	2277.4	2277.4
28	0.388546	353.82	31.425	Reinforced Fill	135	38	167.768	445.819	397.83	0	397.83	500.337	500.337
29	0.388546	342.601	32.11	Reinforced Fill	135	38	162.176	430.959	378.81	0	378.81	480.582	480.582
30	0.388546	331.079	32.8002	Reinforced Fill	135	38	156.64	416.247	359.979	0	359.979	460.927	460.927
31	0.388546	319.247	33.4958	Reinforced Fill	135	38	151.158	401.681	341.335	0	341.335	441.369	441.369
32	0.408273	322.356	34.2149	Mass Wasting Colluvium	100	38	130.717	347.362	316.608	0	316.608	405.493	405.493
33	0.408273	308.563	34.9583	Mass Wasting Colluvium	100	38	125.146	332.558	297.66	0	297.66	385.153	385.153
34	0.408273	294.382	35.7084	Mass Wasting Colluvium	100	38	119.633	317.906	278.908	0	278.908	364.899	364.899
35	0.408273	279.802	36.4657	Mass Wasting Colluvium	100	38	114.175	303.404	260.346	0	260.346	344.725	344.725
36	0.408273	264.811	37.2304	Mass Wasting Colluvium	100	38	108.774	289.051	241.976	0	241.976	324.631	324.631
37	0.392773	240.218	37.9882	Reinforced Fill	135	38	118.043	313.682	228.702	0	228.702	320.888	320.888
38	0.392773	225.563	38.739	Reinforced Fill	135	38	112.884	299.971	211.152	0	211.152	301.715	301.715
39	0.392773	210.508	39.4979	Reinforced Fill	135	38	107.775	286.397	193.78	0	193.78	282.616	282.616
40	0.398371	197.703	40.2706	Mass Wasting Colluvium	100	38	88.3768	234.848	172.597	0	172.597	247.468	247.468
41	0.398371	181.342	41.0578	Mass Wasting Colluvium	100	38	83.3714	221.547	155.573	0	155.573	228.194	228.194
42	0.398371	164.518	41.8546	Mass Wasting Colluvium	100	38	78.4199	208.389	138.732	0	138.732	208.982	208.982
43	0.398371	147.213	42.6614	Mass Wasting Colluvium	100	38	73.523	195.376	122.076	0	122.076	189.83	189.83
44	0.398371	129.409	43.4788	Mass Wasting Colluvium	100	38	68.6814	182.511	105.609	0	105.609	170.737	170.737
45	0.398371	111.085	44.3075	Mass Wasting Colluvium	100	38	63.896	169.794	89.3322	0	89.3322	151.702	151.702
46	0.398371	92.2194	45.148	Mass Wasting Colluvium	100	38	59.168	157.23	73.2512	0	73.2512	132.726	132.726
47	0.398371	72.7874	46.0011	Mass Wasting Colluvium	100	38	54.499	144.823	57.3708	0	57.3708	113.808	113.808
48	0.398371	52.7629	46.8675	Mass Wasting Colluvium	100	38	49.8862	132.565	41.6814	0	41.6814	94.9304	94.9304
49	0.398371	32.1169	47.7482	Mass Wasting Colluvium	100	38	45.2856	120.34	26.0335	0	26.0335	75.8859	75.8859

50	0.398371	10.8173	48.6441	Mass Wasting Colluvium	100	38	56.6799	150.618	64.7884	0	64.7884	129.179	129.179
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Wall 8 - Static

Global Minimum Query (spencer) - Safety Factor: 2.68676

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	0.273653	2.13214	-25.3858	Mass Wasting Colluvium	100	38	55.4695	149.033	62.7596	0	62.7596	36.4377	36.4377
2	0.273653	6.22741	-23.6014	Mass Wasting Colluvium	100	38	61.0968	164.152	82.1113	0	82.1113	55.4169	55.4169
3	0.273653	9.99143	-21.8411	Mass Wasting Colluvium	100	38	65.8453	176.911	98.4408	0	98.4408	72.0498	72.0498
4	0.273653	13.4367	-20.1022	Mass Wasting Colluvium	100	38	69.8308	187.619	112.147	0	112.147	86.5893	86.5893
5	0.273653	16.5743	-18.3824	Mass Wasting Colluvium	100	38	73.1461	196.526	123.548	0	123.548	99.2402	99.2402
6	0.273653	19.4137	-16.6796	Mass Wasting Colluvium	100	38	75.8665	203.835	132.903	0	132.903	110.172	110.172
7	0.273653	21.9633	-14.9919	Mass Wasting Colluvium	100	38	78.0542	209.713	140.426	0	140.426	119.524	119.524
8	0.273653	24.2301	-13.3174	Mass Wasting Colluvium	100	38	79.7604	214.297	146.294	0	146.294	127.414	127.414
9	0.273653	26.2204	-11.6544	Mass Wasting Colluvium	100	38	81.0285	217.704	150.654	0	150.654	133.941	133.941
10	0.273653	27.9395	-10.0013	Mass Wasting Colluvium	100	38	81.8942	220.03	153.631	0	153.631	139.189	139.189
11	0.273653	29.3919	-8.35659	Mass Wasting Colluvium	100	38	82.3888	221.359	155.332	0	155.332	143.23	143.23
12	0.273653	30.5812	-6.71879	Mass Wasting Colluvium	100	38	82.5388	221.762	155.849	0	155.849	146.125	146.125
13	0.273653	31.5105	-5.0865	Mass Wasting Colluvium	100	38	82.3676	221.302	155.259	0	155.259	147.928	147.928
14	0.270169	32.7153	-3.46868	Gravel	0	40	44.2853	118.984	141.799	0	141.799	139.115	139.115
15	0.270169	34.1715	-1.86398	Gravel	0	40	45.2858	121.672	145.003	0	145.003	143.53	143.53
16	0.270169	34.3564	-0.260745	Gravel	0	40	44.5968	119.821	142.798	0	142.798	142.595	142.595
17	0.270169	76.3083	1.34229	Gravel	0	40	97.0619	260.782	310.788	0	310.788	313.062	313.062
18	0.270169	171.908	2.94637	Gravel	0	40	214.342	575.885	686.313	0	686.313	697.345	697.345
19	0.270169	240.826	4.55277	Gravel	0	40	294.427	791.056	942.742	0	942.742	966.187	966.187
20	0.270169	243.056	6.16277	Gravel	0	40	291.442	783.035	933.184	0	933.184	964.653	964.653
21	0.270169	241.851	7.77768	Gravel	0	40	284.478	764.323	910.885	0	910.885	949.741	949.741
22	0.270169	240.363	9.39883	Gravel	0	40	277.385	745.267	888.176	0	888.176	934.091	934.091
23	0.270169	238.587	11.0276	Gravel	0	40	270.159	725.852	865.037	0	865.037	917.686	917.686
24	0.270169	236.52	12.6655	Gravel	0	40	262.793	706.063	841.452	0	841.452	900.508	900.508
25	0.270169	234.155	14.314	Gravel	0	40	255.284	685.886	817.408	0	817.408	882.546	882.546
26	0.270169	231.488	15.9746	Gravel	0	40	247.624	665.307	792.883	0	792.883	863.77	863.77
27	0.270169	228.51	17.6492	Gravel	0	40	239.81	644.312	767.86	0	767.86	844.159	844.159
28	0.307666	256.433	19.4581	Reinforced Fill	135	38	265.677	713.81	740.845	0	740.845	834.708	834.708
29	0.307666	252.2	21.4063	Reinforced Fill	135	38	257.11	690.792	711.383	0	711.383	812.176	812.176
30	0.299263	240.826	23.3535	Mass Wasting Colluvium	100	38	235.739	633.373	682.686	0	682.686	784.472	784.472
31	0.299263	235.965	25.3024	Mass Wasting Colluvium	100	38	227.146	610.288	653.138	0	653.138	760.521	760.521

32	0.276303	213.161	27.2058	Reinforced Fill	135	38	231.193	621.161	622.257	0	622.257	741.104	741.104
33	0.276303	208.261	29.0651	Reinforced Fill	135	38	222.775	598.544	593.307	0	593.307	717.125	717.125
34	0.276303	202.967	30.9585	Reinforced Fill	135	38	214.163	575.405	563.693	0	563.693	692.164	692.164
35	0.276303	197.257	32.8904	Reinforced Fill	135	38	205.347	551.718	533.374	0	533.374	666.17	666.17
36	0.276303	191.104	34.8653	Reinforced Fill	135	38	196.314	527.449	502.31	0	502.31	639.084	639.084
37	0.276303	184.474	36.889	Reinforced Fill	135	38	187.052	502.563	470.459	0	470.459	610.845	610.845
38	0.276303	177.332	38.968	Reinforced Fill	135	38	177.545	477.02	437.767	0	437.767	581.375	581.375
39	0.276303	169.629	41.11	Reinforced Fill	135	38	167.777	450.776	404.175	0	404.175	550.588	550.588
40	0.276303	161.312	43.3245	Reinforced Fill	135	38	157.729	423.779	369.618	0	369.618	518.382	518.382
41	0.276303	152.31	45.6231	Reinforced Fill	135	38	147.379	395.971	334.027	0	334.027	484.646	484.646
42	0.276303	142.538	48.0204	Reinforced Fill	135	38	136.702	367.285	297.312	0	297.312	449.244	449.244
43	0.276303	131.883	50.5353	Reinforced Fill	135	38	125.669	337.643	259.371	0	259.371	412.011	412.011
44	0.276303	120.198	53.193	Reinforced Fill	135	38	114.247	306.955	220.092	0	220.092	372.771	372.771
45	0.276303	107.279	56.0279	Reinforced Fill	135	38	102.398	275.118	179.343	0	179.343	331.314	331.314
46	0.276303	92.8297	59.0904	Reinforced Fill	135	38	90.0795	242.022	136.982	0	136.982	287.437	287.437
47	0.248046	69.4463	62.2674	Mass Wasting Colluvium	100	38	67.6543	181.771	104.662	0	104.662	233.347	233.347
48	0.248046	54.2742	65.6322	Mass Wasting Colluvium	100	38	55.9542	150.335	64.4265	0	64.4265	187.962	187.962
49	0.248046	36.2402	69.519	Mass Wasting Colluvium	100	38	43.9462	118.073	23.1323	0	23.1323	140.791	140.791
50	0.248046	13.1783	74.3509	Mass Wasting Colluvium	100	38	32.5572	87.4733	-16.0335	0	-16.0335	100.189	100.189

Wall 8 - Seismic

Global Minimum Query (spencer) - Safety Factor: 1.94722

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	0.299529	2.1922	-22.1582	Mass Wasting Colluvium	100	38	161.172	313.838	273.7	0	273.7	208.064	208.064
2	0.299529	6.39864	-20.515	Mass Wasting Colluvium	100	38	164.626	320.564	282.309	0	282.309	220.708	220.708
3	0.299529	10.2548	-18.8893	Mass Wasting Colluvium	100	38	165.733	322.718	285.066	0	285.066	228.358	228.358
4	0.299529	13.7712	-17.2792	Mass Wasting Colluvium	100	38	165.247	321.772	283.855	0	283.855	232.452	232.452
5	0.299529	16.9571	-15.6831	Mass Wasting Colluvium	100	38	163.669	318.699	279.922	0	279.922	233.969	233.969
6	0.299529	19.8205	-14.0994	Mass Wasting Colluvium	100	38	161.333	314.15	274.099	0	274.099	233.577	233.577
7	0.299529	22.3686	-12.5266	Mass Wasting Colluvium	100	38	158.463	308.562	266.947	0	266.947	231.74	231.74
8	0.299529	24.6074	-10.9634	Mass Wasting Colluvium	100	38	155.212	302.232	258.845	0	258.845	228.778	228.778
9	0.299529	26.5422	-9.40836	Mass Wasting Colluvium	100	38	151.684	295.362	250.051	0	250.051	224.917	224.917
10	0.299529	28.1773	-7.86032	Mass Wasting Colluvium	100	38	147.948	288.088	240.741	0	240.741	220.316	220.316
11	0.299529	29.5165	-6.31804	Mass Wasting Colluvium	100	38	144.054	280.504	231.034	0	231.034	215.085	215.085
12	0.299529	30.5626	-4.78034	Mass Wasting Colluvium	100	38	140.032	272.674	221.013	0	221.013	209.303	209.303
13	0.309808	33.5352	-3.21981	Gravel	0	40	65.0553	126.677	150.968	0	150.968	147.308	147.308
14	0.309808	34.677	-1.63537	Gravel	0	40	63.6374	123.916	147.678	0	147.678	145.861	145.861
15	0.309808	53.1814	-0.0521763	Gravel	0	40	92.5884	180.29	214.861	0	214.861	214.777	214.777
16	0.309808	165.989	1.53098	Gravel	0	40	274.847	535.188	637.813	0	637.813	645.159	645.159
17	0.309808	267.042	3.1153	Gravel	0	40	421.472	820.699	978.073	0	978.073	1001.01	1001.01
18	0.309808	274.939	4.70201	Gravel	0	40	414.429	806.984	961.725	0	961.725	995.812	995.812
19	0.309808	273.692	6.29235	Gravel	0	40	394.677	768.523	915.891	0	915.891	959.411	959.411
20	0.309808	272.08	7.88757	Gravel	0	40	375.916	731.992	872.353	0	872.353	924.433	924.433
21	0.309808	270.1	9.48898	Gravel	0	40	358.011	697.126	830.803	0	830.803	890.643	890.643
22	0.309808	267.746	11.0979	Gravel	0	40	340.845	663.7	790.969	0	790.969	857.827	857.827
23	0.309808	265.013	12.7158	Gravel	0	40	324.32	631.523	752.62	0	752.62	825.803	825.803
24	0.309808	261.895	14.344	Gravel	0	40	308.354	600.433	715.568	0	715.568	794.419	794.419
25	0.294225	245.665	15.9426	Reinforced Fill	135	38	352.241	685.89	705.105	0	705.105	805.727	805.727
26	0.294225	242.542	17.5124	Reinforced Fill	135	38	338.612	659.353	671.14	0	671.14	777.985	777.985
27	0.285888	232.382	19.0734	Mass Wasting Colluvium	100	38	304.615	593.152	631.207	0	631.207	736.531	736.531
28	0.285888	228.84	20.6265	Mass Wasting Colluvium	100	38	292.255	569.085	600.4	0	600.4	710.405	710.405
29	0.285888	224.994	22.1956	Mass Wasting Colluvium	100	38	280.127	545.469	570.175	0	570.175	684.468	684.468