



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Dr. Ref.		
Made by	Date	Checked
MP		

Name	Location		Z [Level] [mm]	Z [mm]	Stresses		
	X [m]	Y [m]			Calc Level [mOD]	Vert Stress [kN/m ²]	Sum Princ [kN/m ²]
-10.00000	-20.00000	19.50000	0.16868	19.083	0.0	0.0	0.0
-9.00000	-20.00000	19.50000	0.17053	19.083	0.0	0.0	0.0
-8.00000	-20.00000	19.50000	0.17216	19.083	0.0	0.0	0.0
-7.00000	-20.00000	19.50000	0.17358	19.083	0.0	0.0	0.0
-6.00000	-20.00000	19.50000	0.17479	19.083	0.0	0.0	0.0
-5.00000	-20.00000	19.50000	0.17580	19.083	0.0	0.0	0.0
-4.00000	-20.00000	19.50000	0.17660	19.083	0.0	0.0	0.0
-3.00000	-20.00000	19.50000	0.17722	19.083	0.0	0.0	0.0
-2.00000	-20.00000	19.50000	0.17767	19.083	0.0	0.0	0.0
-1.00000	-20.00000	19.50000	0.17797	19.083	0.0	0.0	0.0
0.00000	-20.00000	19.50000	0.17815	19.083	0.0	0.0	0.0
1.00000	-20.00000	19.50000	0.17822	19.083	0.0	0.0	0.0
2.00000	-20.00000	19.50000	0.17821	19.083	0.0	0.0	0.0
3.00000	-20.00000	19.50000	0.17815	19.083	0.0	0.0	0.0
4.00000	-20.00000	19.50000	0.17806	19.083	0.0	0.0	0.0
5.00000	-20.00000	19.50000	0.17797	19.083	0.0	0.0	0.0
6.00000	-20.00000	19.50000	0.17788	19.083	0.0	0.0	0.0
7.00000	-20.00000	19.50000	0.17782	19.083	0.0	0.0	0.0
8.00000	-20.00000	19.50000	0.17780	19.083	0.0	0.0	0.0
9.00000	-20.00000	19.50000	0.17782	19.083	0.0	0.0	0.0
10.00000	-20.00000	19.50000	0.17790	19.083	0.0	0.0	0.0
11.00000	-20.00000	19.50000	0.17803	19.083	0.0	0.0	0.0
12.00000	-20.00000	19.50000	0.17822	19.083	0.0	0.0	0.0
13.00000	-20.00000	19.50000	0.17845	19.083	0.0	0.0	0.0
14.00000	-20.00000	19.50000	0.17873	19.083	0.0	0.0	0.0
15.00000	-20.00000	19.50000	0.17905	19.083	0.0	0.0	0.0
16.00000	-20.00000	19.50000	0.17938	19.083	0.0	0.0	0.0
17.00000	-20.00000	19.50000	0.17973	19.083	0.0	0.0	0.0
18.00000	-20.00000	19.50000	0.18008	19.083	0.0	0.0	0.0
19.00000	-20.00000	19.50000	0.18042	19.083	0.0	0.0	0.0
20.00000	-20.00000	19.50000	0.18072	19.083	0.0	0.0	0.0
21.00000	-20.00000	19.50000	0.18099	19.083	0.0	0.0	0.0
22.00000	-20.00000	19.50000	0.18120	19.083	0.0	0.0	0.0
23.00000	-20.00000	19.50000	0.18135	19.083	0.0	0.0	0.0
24.00000	-20.00000	19.50000	0.18142	19.083	0.0	0.0	0.0
25.00000	-20.00000	19.50000	0.18141	19.083	0.0	0.0	0.0
26.00000	-20.00000	19.50000	0.18130	19.083	0.0	0.0	0.0
27.00000	-20.00000	19.50000	0.18108	19.083	0.0	0.0	0.0
28.00000	-20.00000	19.50000	0.18076	19.083	0.0	0.0	0.0
29.00000	-20.00000	19.50000	0.18032	19.083	0.0	0.0	0.0
30.00000	-20.00000	19.50000	0.17975	19.083	0.0	0.0	0.0
31.00000	-20.00000	19.50000	0.17906	19.083	0.0	0.0	0.0
32.00000	-20.00000	19.50000	0.17823	19.083	0.0	0.0	0.0
33.00000	-20.00000	19.50000	0.17726	19.083	0.0	0.0	0.0
34.00000	-20.00000	19.50000	0.17614	19.083	0.0	0.0	0.0
35.00000	-20.00000	19.50000	0.17487	19.083	0.0	0.0	0.0
36.00000	-20.00000	19.50000	0.17345	19.083	0.0	0.0	0.0
37.00000	-20.00000	19.50000	0.17187	19.083	0.0	0.0	0.0
38.00000	-20.00000	19.50000	0.17013	19.083	0.0	0.0	0.0
39.00000	-20.00000	19.50000	0.16824	19.083	0.0	0.0	0.0
40.00000	-20.00000	19.50000	0.16619	19.083	0.0	0.0	0.0
41.00000	-20.00000	19.50000	0.16399	19.083	0.0	0.0	0.0
42.00000	-20.00000	19.50000	0.16165	19.083	0.0	0.0	0.0
43.00000	-20.00000	19.50000	0.15916	19.083	0.0	0.0	0.0
44.00000	-20.00000	19.50000	0.15655	19.083	0.0	0.0	0.0
45.00000	-20.00000	19.50000	0.15382	19.083	0.0	0.0	0.0
46.00000	-20.00000	19.50000	0.15099	19.083	0.0	0.0	0.0
47.00000	-20.00000	19.50000	0.14806	19.083	0.0	0.0	0.0
48.00000	-20.00000	19.50000	0.14505	19.083	0.0	0.0	0.0
49.00000	-20.00000	19.50000	0.14197	19.083	0.0	0.0	0.0
50.00000	-20.00000	19.50000	0.13883	19.083	0.0	0.0	0.0
51.00000	-20.00000	19.50000	0.13565	19.083	0.0	0.0	0.0
52.00000	-20.00000	19.50000	0.13245	19.083	0.0	0.0	0.0
53.00000	-20.00000	19.50000	0.12922	19.083	0.0	0.0	0.0
54.00000	-20.00000	19.50000	0.12599	19.083	0.0	0.0	0.0
55.00000	-20.00000	19.50000	0.12276	19.083	0.0	0.0	0.0
-25.00000	-19.00000	19.50000	0.12757	19.083	0.0	0.0	0.0
-24.00000	-19.00000	19.50000	0.13098	19.083	0.0	0.0	0.0
-23.00000	-19.00000	19.50000	0.13439	19.083	0.0	0.0	0.0
-22.00000	-19.00000	19.50000	0.13779	19.083	0.0	0.0	0.0
-21.00000	-19.00000	19.50000	0.14116	19.083	0.0	0.0	0.0
-20.00000	-19.00000	19.50000	0.14447	19.083	0.0	0.0	0.0
-19.00000	-19.00000	19.50000	0.14773	19.083	0.0	0.0	0.0
-18.00000	-19.00000	19.50000	0.15090	19.083	0.0	0.0	0.0
-17.00000	-19.00000	19.50000	0.15397	19.083	0.0	0.0	0.0
-16.00000	-19.00000	19.50000	0.15691	19.083	0.0	0.0	0.0
-15.00000	-19.00000	19.50000	0.15971	19.083	0.0	0.0	0.0
-14.00000	-19.00000	19.50000	0.16234	19.083	0.0	0.0	0.0
-13.00000	-19.00000	19.50000	0.16479	19.083	0.0	0.0	0.0
-12.00000	-19.00000	19.50000	0.16704	19.083	0.0	0.0	0.0
-11.00000	-19.00000	19.50000	0.16906	19.083	0.0	0.0	0.0
-10.00000	-19.00000	19.50000	0.17085	19.083	0.0	0.0	0.0
-9.00000	-19.00000	19.50000	0.17239	19.083	0.0	0.0	0.0
-8.00000	-19.00000	19.50000	0.17368	19.083	0.0	0.0	0.0
-7.00000	-19.00000	19.50000	0.17471	19.083	0.0	0.0	0.0
-6.00000	-19.00000	19.50000	0.17548	19.083	0.0	0.0	0.0
-5.00000	-19.00000	19.50000	0.17601	19.083	0.0	0.0	0.0
-4.00000	-19.00000	19.50000	0.17630	19.083	0.0	0.0	0.0
-3.00000	-19.00000	19.50000	0.17638	19.083	0.0	0.0	0.0
-2.00000	-19.00000	19.50000	0.17627	19.083	0.0	0.0	0.0
-1.00000	-19.00000	19.50000	0.17599	19.083	0.0	0.0	0.0
0.00000	-19.00000	19.50000	0.17558	19.083	0.0	0.0	0.0
1.00000	-19.00000	19.50000	0.17507	19.083	0.0	0.0	0.0
2.00000	-19.00000	19.50000	0.17450	19.083	0.0	0.0	0.0
3.00000	-19.00000	19.50000	0.17389	19.083	0.0	0.0	0.0
4.00000	-19.00000	19.50000	0.17329	19.083	0.0	0.0	0.0
5.00000	-19.00000	19.50000	0.17271	19.083	0.0	0.0	0.0
6.00000	-19.00000	19.50000	0.17219	19.083	0.0	0.0	0.0
7.00000	-19.00000	19.50000	0.17175	19.083	0.0	0.0	0.0
8.00000	-19.00000	19.50000	0.17141	19.083	0.0	0.0	0.0
9.00000	-19.00000	19.50000	0.17116	19.083	0.0	0.0	0.0
10.00000	-19.00000	19.50000	0.17104	19.083	0.0	0.0	0.0
11.00000	-19.00000	19.50000	0.17103	19.083	0.0	0.0	0.0
12.00000	-19.00000	19.50000	0.17113	19.083	0.0	0.0	0.0
13.00000	-19.00000	19.50000	0.17135	19.083	0.0	0.0	0.0
14.00000	-19.00000	19.50000	0.17166	19.083	0.0	0.0	0.0
15.00000	-19.00000	19.50000	0.17207	19.083	0.0	0.0	0.0
16.00000	-19.00000	19.50000	0.17255	19.083	0.0	0.0	0.0
17.00000	-19.00000	19.50000	0.17309	19.083	0.0	0.0	0.0
18.00000	-19.00000	19.50000	0.17367	19.083	0.0	0.0	0.0
19.00000	-19.00000	19.50000	0.17428	19.083	0.0	0.0	0.0
20.00000	-19.00000	19.50000	0.17489	19.083	0.0	0.0	0.0
21.00000	-19.00000	19.50000	0.17550	19.083	0.0	0.0	0.0
22.00000	-19.00000	19.50000	0.17607	19.083	0.0	0.0	0.0
23.00000	-19.00000	19.50000	0.17661	19.083	0.0	0.0	0.0
24.00000	-19.00000	19.50000	0.17708	19.083	0.0	0.0	0.0
25.00000	-19.00000	19.50000	0.17748	19.083	0.0	0.0	0.0
26.00000	-19.00000	19.50000	0.17780	19.083	0.0	0.0	0.0
27.00000	-19.00000	19.50000	0.17803	19.083	0.0	0.0	0.0
28.00000	-19.00000	19.50000	0.17815	19.083	0.0	0.0	0.0
29.00000	-19.00000	19.50000	0.17815	19.083	0.0	0.0	0.0
30.00000	-19.00000	19.50000	0.17803	19.083	0.0	0.0	0.0
31.00000	-19.00000	19.50000	0.17777	19.083	0.0	0.0	0.0
32.00000	-19.00000	19.50000	0.17738	19.083	0.0	0.0	0.0
33.00000	-19.00000	19.50000	0.17683	19.083	0.0	0.0	0.0
34.00000	-19.00000	19.50000	0.17612	19.083	0.0	0.0	0.0
35.00000	-19.00000	19.50000	0.17524	19.083	0.0	0.0	0.0
36.00000	-19.00000	19.50000	0.17419	19.083	0.0	0.0	0.0
37.00000	-19.00000	19.50000	0.17295	19.083	0.0	0.0	0.0
38.00000	-19.00000	19.50000	0.17154	19.083	0.0	0.0	0.0
39.00000	-19.00000	19.50000	0.16993				



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Dr. Ref.		
Made by	Date	Checked
MP		

Name	Location		Z [Level] [mm]	Z [mm]	Calc Level [mOD]	Stresses		
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
50.00000	-19.00000	19.50000	0.14177	19.083	0.0	0.0	0.0	
51.00000	-19.00000	19.50000	0.13857	19.083	0.0	0.0	0.0	
52.00000	-19.00000	19.50000	0.13533	19.083	0.0	0.0	0.0	
53.00000	-19.00000	19.50000	0.13205	19.083	0.0	0.0	0.0	
54.00000	-19.00000	19.50000	0.12876	19.083	0.0	0.0	0.0	
55.00000	-19.00000	19.50000	0.12547	19.083	0.0	0.0	0.0	
-25.00000	-18.00000	19.50000	0.13038	19.083	0.0	0.0	0.0	
-24.00000	-18.00000	19.50000	0.13387	19.083	0.0	0.0	0.0	
-23.00000	-18.00000	19.50000	0.13735	19.083	0.0	0.0	0.0	
-22.00000	-18.00000	19.50000	0.14080	19.083	0.0	0.0	0.0	
-21.00000	-18.00000	19.50000	0.14429	19.083	0.0	0.0	0.0	
-20.00000	-18.00000	19.50000	0.14755	19.083	0.0	0.0	0.0	
-19.00000	-18.00000	19.50000	0.15081	19.083	0.0	0.0	0.0	
-18.00000	-18.00000	19.50000	0.15396	19.083	0.0	0.0	0.0	
-17.00000	-18.00000	19.50000	0.15698	19.083	0.0	0.0	0.0	
-16.00000	-18.00000	19.50000	0.15995	19.083	0.0	0.0	0.0	
-15.00000	-18.00000	19.50000	0.16254	19.083	0.0	0.0	0.0	
-14.00000	-18.00000	19.50000	0.16503	19.083	0.0	0.0	0.0	
-13.00000	-18.00000	19.50000	0.16728	19.083	0.0	0.0	0.0	
-12.00000	-18.00000	19.50000	0.16929	19.083	0.0	0.0	0.0	
-11.00000	-18.00000	19.50000	0.17102	19.083	0.0	0.0	0.0	
-10.00000	-18.00000	19.50000	0.17247	19.083	0.0	0.0	0.0	
-9.00000	-18.00000	19.50000	0.17361	19.083	0.0	0.0	0.0	
-8.00000	-18.00000	19.50000	0.17444	19.083	0.0	0.0	0.0	
-7.00000	-18.00000	19.50000	0.17495	19.083	0.0	0.0	0.0	
-6.00000	-18.00000	19.50000	0.17516	19.083	0.0	0.0	0.0	
-5.00000	-18.00000	19.50000	0.17506	19.083	0.0	0.0	0.0	
-4.00000	-18.00000	19.50000	0.17468	19.083	0.0	0.0	0.0	
-3.00000	-18.00000	19.50000	0.17405	19.083	0.0	0.0	0.0	
-2.00000	-18.00000	19.50000	0.17320	19.083	0.0	0.0	0.0	
-1.00000	-18.00000	19.50000	0.17217	19.083	0.0	0.0	0.0	
0.00000	-18.00000	19.50000	0.17099	19.083	0.0	0.0	0.0	
1.00000	-18.00000	19.50000	0.16972	19.083	0.0	0.0	0.0	
2.00000	-18.00000	19.50000	0.16841	19.083	0.0	0.0	0.0	
3.00000	-18.00000	19.50000	0.16709	19.083	0.0	0.0	0.0	
4.00000	-18.00000	19.50000	0.16581	19.083	0.0	0.0	0.0	
5.00000	-18.00000	19.50000	0.16462	19.083	0.0	0.0	0.0	
6.00000	-18.00000	19.50000	0.16354	19.083	0.0	0.0	0.0	
7.00000	-18.00000	19.50000	0.16261	19.083	0.0	0.0	0.0	
8.00000	-18.00000	19.50000	0.16184	19.083	0.0	0.0	0.0	
9.00000	-18.00000	19.50000	0.16126	19.083	0.0	0.0	0.0	
10.00000	-18.00000	19.50000	0.16087	19.083	0.0	0.0	0.0	
11.00000	-18.00000	19.50000	0.16068	19.083	0.0	0.0	0.0	
12.00000	-18.00000	19.50000	0.16068	19.083	0.0	0.0	0.0	
13.00000	-18.00000	19.50000	0.16087	19.083	0.0	0.0	0.0	
14.00000	-18.00000	19.50000	0.16123	19.083	0.0	0.0	0.0	
15.00000	-18.00000	19.50000	0.16175	19.083	0.0	0.0	0.0	
16.00000	-18.00000	19.50000	0.16242	19.083	0.0	0.0	0.0	
17.00000	-18.00000	19.50000	0.16321	19.083	0.0	0.0	0.0	
18.00000	-18.00000	19.50000	0.16409	19.083	0.0	0.0	0.0	
19.00000	-18.00000	19.50000	0.16505	19.083	0.0	0.0	0.0	
20.00000	-18.00000	19.50000	0.16607	19.083	0.0	0.0	0.0	
21.00000	-18.00000	19.50000	0.16711	19.083	0.0	0.0	0.0	
22.00000	-18.00000	19.50000	0.16815	19.083	0.0	0.0	0.0	
23.00000	-18.00000	19.50000	0.16918	19.083	0.0	0.0	0.0	
24.00000	-18.00000	19.50000	0.17018	19.083	0.0	0.0	0.0	
25.00000	-18.00000	19.50000	0.17112	19.083	0.0	0.0	0.0	
26.00000	-18.00000	19.50000	0.17199	19.083	0.0	0.0	0.0	
27.00000	-18.00000	19.50000	0.17278	19.083	0.0	0.0	0.0	
28.00000	-18.00000	19.50000	0.17347	19.083	0.0	0.0	0.0	
29.00000	-18.00000	19.50000	0.17405	19.083	0.0	0.0	0.0	
30.00000	-18.00000	19.50000	0.17451	19.083	0.0	0.0	0.0	
31.00000	-18.00000	19.50000	0.17482	19.083	0.0	0.0	0.0	
32.00000	-18.00000	19.50000	0.17499	19.083	0.0	0.0	0.0	
33.00000	-18.00000	19.50000	0.17500	19.083	0.0	0.0	0.0	
34.00000	-18.00000	19.50000	0.17482	19.083	0.0	0.0	0.0	
35.00000	-18.00000	19.50000	0.17446	19.083	0.0	0.0	0.0	
36.00000	-18.00000	19.50000	0.17390	19.083	0.0	0.0	0.0	
37.00000	-18.00000	19.50000	0.17313	19.083	0.0	0.0	0.0	
38.00000	-18.00000	19.50000	0.17213	19.083	0.0	0.0	0.0	
39.00000	-18.00000	19.50000	0.17092	19.083	0.0	0.0	0.0	
40.00000	-18.00000	19.50000	0.16948	19.083	0.0	0.0	0.0	
41.00000	-18.00000	19.50000	0.16782	19.083	0.0	0.0	0.0	
42.00000	-18.00000	19.50000	0.16594	19.083	0.0	0.0	0.0	
43.00000	-18.00000	19.50000	0.16386	19.083	0.0	0.0	0.0	
44.00000	-18.00000	19.50000	0.16158	19.083	0.0	0.0	0.0	
45.00000	-18.00000	19.50000	0.15911	19.083	0.0	0.0	0.0	
46.00000	-18.00000	19.50000	0.15648	19.083	0.0	0.0	0.0	
47.00000	-18.00000	19.50000	0.15369	19.083	0.0	0.0	0.0	
48.00000	-18.00000	19.50000	0.15077	19.083	0.0	0.0	0.0	
49.00000	-18.00000	19.50000	0.14774	19.083	0.0	0.0	0.0	
50.00000	-18.00000	19.50000	0.14461	19.083	0.0	0.0	0.0	
51.00000	-18.00000	19.50000	0.14141	19.083	0.0	0.0	0.0	
52.00000	-18.00000	19.50000	0.13814	19.083	0.0	0.0	0.0	
53.00000	-18.00000	19.50000	0.13483	19.083	0.0	0.0	0.0	
54.00000	-18.00000	19.50000	0.13149	19.083	0.0	0.0	0.0	
55.00000	-18.00000	19.50000	0.12814	19.083	0.0	0.0	0.0	
-25.00000	-17.00000	19.50000	0.13316	19.083	0.0	0.0	0.0	
-24.00000	-17.00000	19.50000	0.13672	19.083	0.0	0.0	0.0	
-23.00000	-17.00000	19.50000	0.14025	19.083	0.0	0.0	0.0	
-22.00000	-17.00000	19.50000	0.14375	19.083	0.0	0.0	0.0	
-21.00000	-17.00000	19.50000	0.14718	19.083	0.0	0.0	0.0	
-20.00000	-17.00000	19.50000	0.15053	19.083	0.0	0.0	0.0	
-19.00000	-17.00000	19.50000	0.15377	19.083	0.0	0.0	0.0	
-18.00000	-17.00000	19.50000	0.15688	19.083	0.0	0.0	0.0	
-17.00000	-17.00000	19.50000	0.15983	19.083	0.0	0.0	0.0	
-16.00000	-17.00000	19.50000	0.16258	19.083	0.0	0.0	0.0	
-15.00000	-17.00000	19.50000	0.16512	19.083	0.0	0.0	0.0	
-14.00000	-17.00000	19.50000	0.16740	19.083	0.0	0.0	0.0	
-13.00000	-17.00000	19.50000	0.16940	19.083	0.0	0.0	0.0	
-12.00000	-17.00000	19.50000	0.17108	19.083	0.0	0.0	0.0	
-11.00000	-17.00000	19.50000	0.17243	19.083	0.0	0.0	0.0	
-10.00000	-17.00000	19.50000	0.17343	19.083	0.0	0.0	0.0	
-9.00000	-17.00000	19.50000	0.17405	19.083	0.0	0.0	0.0	
-8.00000	-17.00000	19.50000	0.17428	19.083	0.0	0.0	0.0	
-7.00000	-17.00000	19.50000	0.17413	19.083	0.0	0.0	0.0	
-6.00000	-17.00000	19.50000	0.17359	19.083	0.0	0.0	0.0	
-5.00000	-17.00000	19.50000	0.17269	19.083	0.0	0.0	0.0	
-4.00000	-17.00000	19.50000	0.17145	19.083	0.0	0.0	0.0	
-3.00000	-17.00000	19.50000	0.16990	19.083	0.0	0.0	0.0	
-2.00000	-17.00000	19.50000	0.16809	19.083	0.0	0.0	0.0	
-1.00000	-17.00000	19.50000	0.16607	19.083	0.0	0.0	0.0	
0.00000	-17.00000	19.50000	0.16391	19.083	0.0	0.0	0.0	
1.00000	-17.00000	19.50000	0.16165	19.083	0.0	0.0	0.0	
2.00000	-17.00000	19.50000	0.15937	19.083	0.0	0.0	0.0	
3.00000	-17.00000	19.50000	0.15713	19.083	0.0	0.0	0.0	
4.00000	-17.00000	19.50000	0.15499	19.083	0.0	0.0	0.0	
5.00000	-17.00000	19.50000	0.15300	19.083	0.0	0.0	0.0	
6.00000	-17.00000	19.50000	0.15120	19.083	0.0	0.0	0.0	
7.00000	-17.00000	19.50000	0.14964	19.083	0.0	0.0	0.0	
8.00000	-17.00000	19.50000	0.14833	19.083	0.0	0.0	0.0	
9.00000	-17.00000	19.50000	0.14732	19.083	0.0	0.0	0.0	
10.00000	-17.00000	19.50000	0.14659	19.083	0.0	0.0	0.0	
11.00000	-17.00000	19.50000	0.14617	19.083	0.0	0.0	0.0	
12.00000	-17.00000	19.50000	0.14604	19.083	0.0	0.0	0.0	
13.00000	-17.00000	19.50000	0.14620	19.083	0.0	0.0	0.0	
14.00000	-17.00000	19.50000	0.14663	19.083	0.0	0.0	0.0	
15.00000	-17.00000	19.50000	0.14731	19.083	0.0	0.0	0.0	
16.00000	-17.00000	19.50000	0.14822	19.083	0.0	0.0	0.0	
17.00000	-17.00000	19.50000	0.14933	19.083	0.0	0.0	0.0	
18.00000	-17.00000	19.50000	0.15					



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Dr. Ref.		
Made by	Date	Checked
MP		

Name	Location		Z [Level] [m]	Z [mm]	Calc Level [mOD]	Stresses		
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
29.00000	-17.00000	19.50000	0.16757	19.083	0.0	0.0	0.0	
30.00000	-17.00000	19.50000	0.16876	19.083	0.0	0.0	0.0	
31.00000	-17.00000	19.50000	0.16982	19.083	0.0	0.0	0.0	
32.00000	-17.00000	19.50000	0.17072	19.083	0.0	0.0	0.0	
33.00000	-17.00000	19.50000	0.17144	19.083	0.0	0.0	0.0	
34.00000	-17.00000	19.50000	0.17397	19.083	0.0	0.0	0.0	
35.00000	-17.00000	19.50000	0.17228	19.083	0.0	0.0	0.0	
36.00000	-17.00000	19.50000	0.17236	19.083	0.0	0.0	0.0	
37.00000	-17.00000	19.50000	0.17219	19.083	0.0	0.0	0.0	
38.00000	-17.00000	19.50000	0.17176	19.083	0.0	0.0	0.0	
39.00000	-17.00000	19.50000	0.17192	19.083	0.0	0.0	0.0	
40.00000	-17.00000	19.50000	0.17008	19.083	0.0	0.0	0.0	
41.00000	-17.00000	19.50000	0.16884	19.083	0.0	0.0	0.0	
42.00000	-17.00000	19.50000	0.16733	19.083	0.0	0.0	0.0	
43.00000	-17.00000	19.50000	0.16556	19.083	0.0	0.0	0.0	
44.00000	-17.00000	19.50000	0.16354	19.083	0.0	0.0	0.0	
45.00000	-17.00000	19.50000	0.16130	19.083	0.0	0.0	0.0	
46.00000	-17.00000	19.50000	0.15884	19.083	0.0	0.0	0.0	
47.00000	-17.00000	19.50000	0.15619	19.083	0.0	0.0	0.0	
48.00000	-17.00000	19.50000	0.15338	19.083	0.0	0.0	0.0	
49.00000	-17.00000	19.50000	0.15042	19.083	0.0	0.0	0.0	
50.00000	-17.00000	19.50000	0.14733	19.083	0.0	0.0	0.0	
51.00000	-17.00000	19.50000	0.14415	19.083	0.0	0.0	0.0	
52.00000	-17.00000	19.50000	0.14088	19.083	0.0	0.0	0.0	
53.00000	-17.00000	19.50000	0.13755	19.083	0.0	0.0	0.0	
54.00000	-17.00000	19.50000	0.13417	19.083	0.0	0.0	0.0	
55.00000	-17.00000	19.50000	0.13077	19.083	0.0	0.0	0.0	
-25.00000	-16.00000	19.50000	0.13591	19.083	0.0	0.0	0.0	
-24.00000	-16.00000	19.50000	0.13952	19.083	0.0	0.0	0.0	
-23.00000	-16.00000	19.50000	0.14330	19.083	0.0	0.0	0.0	
-22.00000	-16.00000	19.50000	0.14663	19.083	0.0	0.0	0.0	
-21.00000	-16.00000	19.50000	0.15007	19.083	0.0	0.0	0.0	
-20.00000	-16.00000	19.50000	0.15341	19.083	0.0	0.0	0.0	
-19.00000	-16.00000	19.50000	0.15661	19.083	0.0	0.0	0.0	
-18.00000	-16.00000	19.50000	0.15964	19.083	0.0	0.0	0.0	
-17.00000	-16.00000	19.50000	0.16247	19.083	0.0	0.0	0.0	
-16.00000	-16.00000	19.50000	0.16507	19.083	0.0	0.0	0.0	
-15.00000	-16.00000	19.50000	0.16739	19.083	0.0	0.0	0.0	
-14.00000	-16.00000	19.50000	0.16940	19.083	0.0	0.0	0.0	
-13.00000	-16.00000	19.50000	0.17106	19.083	0.0	0.0	0.0	
-12.00000	-16.00000	19.50000	0.17234	19.083	0.0	0.0	0.0	
-11.00000	-16.00000	19.50000	0.17320	19.083	0.0	0.0	0.0	
-10.00000	-16.00000	19.50000	0.17361	19.083	0.0	0.0	0.0	
-9.00000	-16.00000	19.50000	0.17357	19.083	0.0	0.0	0.0	
-8.00000	-16.00000	19.50000	0.17304	19.083	0.0	0.0	0.0	
-7.00000	-16.00000	19.50000	0.17203	19.083	0.0	0.0	0.0	
-6.00000	-16.00000	19.50000	0.17055	19.083	0.0	0.0	0.0	
-5.00000	-16.00000	19.50000	0.16861	19.083	0.0	0.0	0.0	
-4.00000	-16.00000	19.50000	0.16625	19.083	0.0	0.0	0.0	
-3.00000	-16.00000	19.50000	0.16352	19.083	0.0	0.0	0.0	
-2.00000	-16.00000	19.50000	0.16048	19.083	0.0	0.0	0.0	
-1.00000	-16.00000	19.50000	0.15719	19.083	0.0	0.0	0.0	
0.00000	-16.00000	19.50000	0.15375	19.083	0.0	0.0	0.0	
1.00000	-16.00000	19.50000	0.15022	19.083	0.0	0.0	0.0	
2.00000	-16.00000	19.50000	0.14670	19.083	0.0	0.0	0.0	
3.00000	-16.00000	19.50000	0.14327	19.083	0.0	0.0	0.0	
4.00000	-16.00000	19.50000	0.14002	19.083	0.0	0.0	0.0	
5.00000	-16.00000	19.50000	0.13700	19.083	0.0	0.0	0.0	
6.00000	-16.00000	19.50000	0.13428	19.083	0.0	0.0	0.0	
7.00000	-16.00000	19.50000	0.13191	19.083	0.0	0.0	0.0	
8.00000	-16.00000	19.50000	0.12993	19.083	0.0	0.0	0.0	
9.00000	-16.00000	19.50000	0.12836	19.083	0.0	0.0	0.0	
10.00000	-16.00000	19.50000	0.12722	19.083	0.0	0.0	0.0	
11.00000	-16.00000	19.50000	0.12651	19.083	0.0	0.0	0.0	
12.00000	-16.00000	19.50000	0.12622	19.083	0.0	0.0	0.0	
13.00000	-16.00000	19.50000	0.12635	19.083	0.0	0.0	0.0	
14.00000	-16.00000	19.50000	0.12687	19.083	0.0	0.0	0.0	
15.00000	-16.00000	19.50000	0.12776	19.083	0.0	0.0	0.0	
16.00000	-16.00000	19.50000	0.12898	19.083	0.0	0.0	0.0	
17.00000	-16.00000	19.50000	0.13050	19.083	0.0	0.0	0.0	
18.00000	-16.00000	19.50000	0.13228	19.083	0.0	0.0	0.0	
19.00000	-16.00000	19.50000	0.13428	19.083	0.0	0.0	0.0	
20.00000	-16.00000	19.50000	0.13645	19.083	0.0	0.0	0.0	
21.00000	-16.00000	19.50000	0.13877	19.083	0.0	0.0	0.0	
22.00000	-16.00000	19.50000	0.14118	19.083	0.0	0.0	0.0	
23.00000	-16.00000	19.50000	0.14365	19.083	0.0	0.0	0.0	
24.00000	-16.00000	19.50000	0.14615	19.083	0.0	0.0	0.0	
25.00000	-16.00000	19.50000	0.14865	19.083	0.0	0.0	0.0	
26.00000	-16.00000	19.50000	0.15112	19.083	0.0	0.0	0.0	
27.00000	-16.00000	19.50000	0.15354	19.083	0.0	0.0	0.0	
28.00000	-16.00000	19.50000	0.15589	19.083	0.0	0.0	0.0	
29.00000	-16.00000	19.50000	0.15815	19.083	0.0	0.0	0.0	
30.00000	-16.00000	19.50000	0.16029	19.083	0.0	0.0	0.0	
31.00000	-16.00000	19.50000	0.16229	19.083	0.0	0.0	0.0	
32.00000	-16.00000	19.50000	0.16413	19.083	0.0	0.0	0.0	
33.00000	-16.00000	19.50000	0.16577	19.083	0.0	0.0	0.0	
34.00000	-16.00000	19.50000	0.16720	19.083	0.0	0.0	0.0	
35.00000	-16.00000	19.50000	0.16838	19.083	0.0	0.0	0.0	
36.00000	-16.00000	19.50000	0.16928	19.083	0.0	0.0	0.0	
37.00000	-16.00000	19.50000	0.16990	19.083	0.0	0.0	0.0	
38.00000	-16.00000	19.50000	0.17020	19.083	0.0	0.0	0.0	
39.00000	-16.00000	19.50000	0.17017	19.083	0.0	0.0	0.0	
40.00000	-16.00000	19.50000	0.16980	19.083	0.0	0.0	0.0	
41.00000	-16.00000	19.50000	0.16910	19.083	0.0	0.0	0.0	
42.00000	-16.00000	19.50000	0.16822	19.083	0.0	0.0	0.0	
43.00000	-16.00000	19.50000	0.16711	19.083	0.0	0.0	0.0	
44.00000	-16.00000	19.50000	0.16505	19.083	0.0	0.0	0.0	
45.00000	-16.00000	19.50000	0.16310	19.083	0.0	0.0	0.0	
46.00000	-16.00000	19.50000	0.16089	19.083	0.0	0.0	0.0	
47.00000	-16.00000	19.50000	0.15843	19.083	0.0	0.0	0.0	
48.00000	-16.00000	19.50000	0.15577	19.083	0.0	0.0	0.0	
49.00000	-16.00000	19.50000	0.15292	19.083	0.0	0.0	0.0	
50.00000	-16.00000	19.50000	0.14991	19.083	0.0	0.0	0.0	
51.00000	-16.00000	19.50000	0.14677	19.083	0.0	0.0	0.0	
52.00000	-16.00000	19.50000	0.14352	19.083	0.0	0.0	0.0	
53.00000	-16.00000	19.50000	0.14018	19.083	0.0	0.0	0.0	
54.00000	-16.00000	19.50000	0.13679	19.083	0.0	0.0	0.0	
55.00000	-16.00000	19.50000	0.13335	19.083	0.0	0.0	0.0	
-25.00000	-15.00000	19.50000	0.13861	19.083	0.0	0.0	0.0	
-24.00000	-15.00000	19.50000	0.14227	19.083	0.0	0.0	0.0	
-23.00000	-15.00000	19.50000	0.14589	19.083	0.0	0.0	0.0	
-22.00000	-15.00000	19.50000	0.14942	19.083	0.0	0.0	0.0	
-21.00000	-15.00000	19.50000	0.15286	19.083	0.0	0.0	0.0	
-20.00000	-15.00000	19.50000	0.15616	19.083	0.0	0.0	0.0	
-19.00000	-15.00000	19.50000	0.15929	19.083	0.0	0.0	0.0	
-18.00000	-15.00000	19.50000	0.16221	19.083	0.0	0.0	0.0	
-17.00000	-15.00000	19.50000	0.16489	19.083	0.0	0.0	0.0	
-16.00000	-15.00000	19.50000	0.16727	19.083	0.0	0.0	0.0	
-15.00000	-15.00000	19.50000	0.16931	19.083	0.0	0.0	0.0	
-14.00000	-15.00000	19.50000	0.17097	19.083	0.0	0.0	0.0	
-13.00000	-15.00000	19.50000	0.17220	19.083	0.0	0.0	0.0	
-12.00000	-15.00000	19.50000	0.17296	19.083	0.0	0.0	0.0	
-11.00000	-15.00000	19.50000	0.17320	19.083	0.0	0.0	0.0	
-10.00000	-15.00000	19.50000	0.17289	19.083	0.0	0.0	0.0	
-9.00000	-15.00000	19.50000	0.17200	19.083	0.0	0.0	0.0	
-8.00000	-15.00000	19.50000	0.17051	19.083	0.0	0.0	0.0	
-7.00000	-15.00000	19.50000	0.16842	19.083	0.0	0.0	0.0	
-6.00000	-15.00000	19.50000	0.16573	19.083	0.0	0.0	0.0	
-5.00000	-15.00000	19.50000	0.16248	19.083	0.0	0.0	0.0	
-4.00000	-15.00000	19.50000	0.15869	19.083	0.0	0.0	0.0	
-3.00000	-15.00000	19.50						



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Dr. Ref.		
Made by	Date	Checked
MP		

Name	Location		Z [Level] [mm]	Z [mm]	Calc Level [mOD]	Stresses		
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
8.00000	-15.00000	19.50000	0.10545	19.083	0.0	0.0	0.0	
9.00000	-15.00000	19.50000	0.10319	19.083	0.0	0.0	0.0	
10.00000	-15.00000	19.50000	0.10152	19.083	0.0	0.0	0.0	
11.00000	-15.00000	19.50000	0.10045	19.083	0.0	0.0	0.0	
12.00000	-15.00000	19.50000	0.099980	19.083	0.0	0.0	0.0	
13.00000	-15.00000	19.50000	0.10008	19.083	0.0	0.0	0.0	
14.00000	-15.00000	19.50000	0.10073	19.083	0.0	0.0	0.0	
15.00000	-15.00000	19.50000	0.10188	19.083	0.0	0.0	0.0	
16.00000	-15.00000	19.50000	0.10351	19.083	0.0	0.0	0.0	
17.00000	-15.00000	19.50000	0.10556	19.083	0.0	0.0	0.0	
18.00000	-15.00000	19.50000	0.10799	19.083	0.0	0.0	0.0	
19.00000	-15.00000	19.50000	0.11073	19.083	0.0	0.0	0.0	
20.00000	-15.00000	19.50000	0.11374	19.083	0.0	0.0	0.0	
21.00000	-15.00000	19.50000	0.11696	19.083	0.0	0.0	0.0	
22.00000	-15.00000	19.50000	0.12034	19.083	0.0	0.0	0.0	
23.00000	-15.00000	19.50000	0.12383	19.083	0.0	0.0	0.0	
24.00000	-15.00000	19.50000	0.12739	19.083	0.0	0.0	0.0	
25.00000	-15.00000	19.50000	0.13099	19.083	0.0	0.0	0.0	
26.00000	-15.00000	19.50000	0.13459	19.083	0.0	0.0	0.0	
27.00000	-15.00000	19.50000	0.13817	19.083	0.0	0.0	0.0	
28.00000	-15.00000	19.50000	0.14169	19.083	0.0	0.0	0.0	
29.00000	-15.00000	19.50000	0.14513	19.083	0.0	0.0	0.0	
30.00000	-15.00000	19.50000	0.14846	19.083	0.0	0.0	0.0	
31.00000	-15.00000	19.50000	0.15166	19.083	0.0	0.0	0.0	
32.00000	-15.00000	19.50000	0.15469	19.083	0.0	0.0	0.0	
33.00000	-15.00000	19.50000	0.15751	19.083	0.0	0.0	0.0	
34.00000	-15.00000	19.50000	0.16009	19.083	0.0	0.0	0.0	
35.00000	-15.00000	19.50000	0.16238	19.083	0.0	0.0	0.0	
36.00000	-15.00000	19.50000	0.16436	19.083	0.0	0.0	0.0	
37.00000	-15.00000	19.50000	0.16598	19.083	0.0	0.0	0.0	
38.00000	-15.00000	19.50000	0.16721	19.083	0.0	0.0	0.0	
39.00000	-15.00000	19.50000	0.16805	19.083	0.0	0.0	0.0	
40.00000	-15.00000	19.50000	0.16846	19.083	0.0	0.0	0.0	
41.00000	-15.00000	19.50000	0.16846	19.083	0.0	0.0	0.0	
42.00000	-15.00000	19.50000	0.16805	19.083	0.0	0.0	0.0	
43.00000	-15.00000	19.50000	0.16723	19.083	0.0	0.0	0.0	
44.00000	-15.00000	19.50000	0.16602	19.083	0.0	0.0	0.0	
45.00000	-15.00000	19.50000	0.16446	19.083	0.0	0.0	0.0	
46.00000	-15.00000	19.50000	0.16256	19.083	0.0	0.0	0.0	
47.00000	-15.00000	19.50000	0.16037	19.083	0.0	0.0	0.0	
48.00000	-15.00000	19.50000	0.15791	19.083	0.0	0.0	0.0	
49.00000	-15.00000	19.50000	0.15521	19.083	0.0	0.0	0.0	
50.00000	-15.00000	19.50000	0.15231	19.083	0.0	0.0	0.0	
51.00000	-15.00000	19.50000	0.14925	19.083	0.0	0.0	0.0	
52.00000	-15.00000	19.50000	0.14604	19.083	0.0	0.0	0.0	
53.00000	-15.00000	19.50000	0.14273	19.083	0.0	0.0	0.0	
54.00000	-15.00000	19.50000	0.13932	19.083	0.0	0.0	0.0	
55.00000	-15.00000	19.50000	0.13586	19.083	0.0	0.0	0.0	
-25.00000	-14.00000	19.50000	0.14126	19.083	0.0	0.0	0.0	
-24.00000	-14.00000	19.50000	0.14496	19.083	0.0	0.0	0.0	
-23.00000	-14.00000	19.50000	0.14859	19.083	0.0	0.0	0.0	
-22.00000	-14.00000	19.50000	0.15213	19.083	0.0	0.0	0.0	
-21.00000	-14.00000	19.50000	0.15553	19.083	0.0	0.0	0.0	
-20.00000	-14.00000	19.50000	0.15877	19.083	0.0	0.0	0.0	
-19.00000	-14.00000	19.50000	0.16180	19.083	0.0	0.0	0.0	
-18.00000	-14.00000	19.50000	0.16457	19.083	0.0	0.0	0.0	
-17.00000	-14.00000	19.50000	0.16704	19.083	0.0	0.0	0.0	
-16.00000	-14.00000	19.50000	0.16914	19.083	0.0	0.0	0.0	
-15.00000	-14.00000	19.50000	0.17084	19.083	0.0	0.0	0.0	
-14.00000	-14.00000	19.50000	0.17206	19.083	0.0	0.0	0.0	
-13.00000	-14.00000	19.50000	0.17276	19.083	0.0	0.0	0.0	
-12.00000	-14.00000	19.50000	0.17287	19.083	0.0	0.0	0.0	
-11.00000	-14.00000	19.50000	0.17234	19.083	0.0	0.0	0.0	
-10.00000	-14.00000	19.50000	0.17112	19.083	0.0	0.0	0.0	
-9.00000	-14.00000	19.50000	0.16918	19.083	0.0	0.0	0.0	
-8.00000	-14.00000	19.50000	0.16649	19.083	0.0	0.0	0.0	
-7.00000	-14.00000	19.50000	0.16303	19.083	0.0	0.0	0.0	
-6.00000	-14.00000	19.50000	0.15882	19.083	0.0	0.0	0.0	
-5.00000	-14.00000	19.50000	0.15389	19.083	0.0	0.0	0.0	
-4.00000	-14.00000	19.50000	0.14829	19.083	0.0	0.0	0.0	
-3.00000	-14.00000	19.50000	0.14211	19.083	0.0	0.0	0.0	
-2.00000	-14.00000	19.50000	0.13546	19.083	0.0	0.0	0.0	
-1.00000	-14.00000	19.50000	0.12845	19.083	0.0	0.0	0.0	
0.00000	-14.00000	19.50000	0.12124	19.083	0.0	0.0	0.0	
1.00000	-14.00000	19.50000	0.11397	19.083	0.0	0.0	0.0	
2.00000	-14.00000	19.50000	0.10681	19.083	0.0	0.0	0.0	
3.00000	-14.00000	19.50000	0.099905	19.083	0.0	0.0	0.0	
4.00000	-14.00000	19.50000	0.093392	19.083	0.0	0.0	0.0	
5.00000	-14.00000	19.50000	0.087395	19.083	0.0	0.0	0.0	
6.00000	-14.00000	19.50000	0.081816	19.083	0.0	0.0	0.0	
7.00000	-14.00000	19.50000	0.077336	19.083	0.0	0.0	0.0	
8.00000	-14.00000	19.50000	0.073413	19.083	0.0	0.0	0.0	
9.00000	-14.00000	19.50000	0.070283	19.083	0.0	0.0	0.0	
10.00000	-14.00000	19.50000	0.067967	19.083	0.0	0.0	0.0	
11.00000	-14.00000	19.50000	0.066465	19.083	0.0	0.0	0.0	
12.00000	-14.00000	19.50000	0.065766	19.083	0.0	0.0	0.0	
13.00000	-14.00000	19.50000	0.065844	19.083	0.0	0.0	0.0	
14.00000	-14.00000	19.50000	0.066663	19.083	0.0	0.0	0.0	
15.00000	-14.00000	19.50000	0.068179	19.083	0.0	0.0	0.0	
16.00000	-14.00000	19.50000	0.070336	19.083	0.0	0.0	0.0	
17.00000	-14.00000	19.50000	0.073073	19.083	0.0	0.0	0.0	
18.00000	-14.00000	19.50000	0.076325	19.083	0.0	0.0	0.0	
19.00000	-14.00000	19.50000	0.080021	19.083	0.0	0.0	0.0	
20.00000	-14.00000	19.50000	0.084089	19.083	0.0	0.0	0.0	
21.00000	-14.00000	19.50000	0.088459	19.083	0.0	0.0	0.0	
22.00000	-14.00000	19.50000	0.093064	19.083	0.0	0.0	0.0	
23.00000	-14.00000	19.50000	0.097844	19.083	0.0	0.0	0.0	
24.00000	-14.00000	19.50000	0.10275	19.083	0.0	0.0	0.0	
25.00000	-14.00000	19.50000	0.10772	19.083	0.0	0.0	0.0	
26.00000	-14.00000	19.50000	0.11274	19.083	0.0	0.0	0.0	
27.00000	-14.00000	19.50000	0.11775	19.083	0.0	0.0	0.0	
28.00000	-14.00000	19.50000	0.12274	19.083	0.0	0.0	0.0	
29.00000	-14.00000	19.50000	0.12768	19.083	0.0	0.0	0.0	
30.00000	-14.00000	19.50000	0.13252	19.083	0.0	0.0	0.0	
31.00000	-14.00000	19.50000	0.13723	19.083	0.0	0.0	0.0	
32.00000	-14.00000	19.50000	0.14177	19.083	0.0	0.0	0.0	
33.00000	-14.00000	19.50000	0.14609	19.083	0.0	0.0	0.0	
34.00000	-14.00000	19.50000	0.15013	19.083	0.0	0.0	0.0	
35.00000	-14.00000	19.50000	0.15385	19.083	0.0	0.0	0.0	
36.00000	-14.00000	19.50000	0.15719	19.083	0.0	0.0	0.0	
37.00000	-14.00000	19.50000	0.16009	19.083	0.0	0.0	0.0	
38.00000	-14.00000	19.50000	0.16253	19.083	0.0	0.0	0.0	
39.00000	-14.00000	19.50000	0.16446	19.083	0.0	0.0	0.0	
40.00000	-14.00000	19.50000	0.16598	19.083	0.0	0.0	0.0	
41.00000	-14.00000	19.50000	0.16676	19.083	0.0	0.0	0.0	
42.00000	-14.00000	19.50000	0.16713	19.083	0.0	0.0	0.0	
43.00000	-14.00000	19.50000	0.16699	19.083	0.0	0.0	0.0	
44.00000	-14.00000	19.50000	0.16637	19.083	0.0	0.0	0.0	
45.00000	-14.00000	19.50000	0.16530	19.083	0.0	0.0	0.0	
46.00000	-14.00000	19.50000	0.16382	19.083	0.0	0.0	0.0	
47.00000	-14.00000	19.50000	0.16195	19.083	0.0	0.0	0.0	
48.00000	-14.00000	19.50000	0.15976	19.083	0.0	0.0	0.0	
49.00000	-14.00000	19.50000	0.15727	19.083	0.0	0.0	0.0	
50.00000	-14.00000	19.50000	0.15453	19.083	0.0	0.0	0.0	
51.00000	-14.00000	19.50000	0.15157	19.083	0.0	0.0	0.0	
52.00000	-14.00000	19.50000	0.14844	19.083	0.0	0.0	0.0	
53.00000	-14.00000	19.50000	0.14516	19.083	0.0	0.0	0.0	
54.00000	-14.00000	19.50000	0.14177	19.083	0.0	0.0	0.0	
55.00000	-14.00000	19.50000	0.13831	19.083	0.0	0.0	0.0	
-25.00000	-13.00000	19.50000	0.14384	19.083	0.0	0.0	0.0	
-24.0								



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Dr. Ref.		
Made by	Date	Checked
MP		

Name	Location		Z [Level] [mm]	Z [mm]	Calc Level [mOD]	Stresses		
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
-13.00000	-13.00000	19.50000	0.17265	19.083	0.0	0.0	0.0	
-12.00000	-13.00000	19.50000	0.17197	19.083	0.0	0.0	0.0	
-11.00000	-13.00000	19.50000	0.17049	19.083	0.0	0.0	0.0	
-10.00000	-13.00000	19.50000	0.16815	19.083	0.0	0.0	0.0	
-9.00000	-13.00000	19.50000	0.16491	19.083	0.0	0.0	0.0	
-8.00000	-13.00000	19.50000	0.16071	19.083	0.0	0.0	0.0	
-7.00000	-13.00000	19.50000	0.15555	19.083	0.0	0.0	0.0	
-6.00000	-13.00000	19.50000	0.14943	19.083	0.0	0.0	0.0	
-5.00000	-13.00000	19.50000	0.14239	19.083	0.0	0.0	0.0	
-4.00000	-13.00000	19.50000	0.13449	19.083	0.0	0.0	0.0	
-3.00000	-13.00000	19.50000	0.12586	19.083	0.0	0.0	0.0	
-2.00000	-13.00000	19.50000	0.11659	19.083	0.0	0.0	0.0	
-1.00000	-13.00000	19.50000	0.10690	19.083	0.0	0.0	0.0	
0.00000	-13.00000	19.50000	0.096970	19.083	0.0	0.0	0.0	
1.00000	-13.00000	19.50000	0.087004	19.083	0.0	0.0	0.0	
2.00000	-13.00000	19.50000	0.077234	19.083	0.0	0.0	0.0	
3.00000	-13.00000	19.50000	0.067803	19.083	0.0	0.0	0.0	
4.00000	-13.00000	19.50000	0.058956	19.083	0.0	0.0	0.0	
5.00000	-13.00000	19.50000	0.050834	19.083	0.0	0.0	0.0	
6.00000	-13.00000	19.50000	0.043569	19.083	0.0	0.0	0.0	
7.00000	-13.00000	19.50000	0.037261	19.083	0.0	0.0	0.0	
8.00000	-13.00000	19.50000	0.031981	19.083	0.0	0.0	0.0	
9.00000	-13.00000	19.50000	0.027771	19.083	0.0	0.0	0.0	
10.00000	-13.00000	19.50000	0.024652	19.083	0.0	0.0	0.0	
11.00000	-13.00000	19.50000	0.022620	19.083	0.0	0.0	0.0	
12.00000	-13.00000	19.50000	0.021657	19.083	0.0	0.0	0.0	
13.00000	-13.00000	19.50000	0.021729	19.083	0.0	0.0	0.0	
14.00000	-13.00000	19.50000	0.022788	19.083	0.0	0.0	0.0	
15.00000	-13.00000	19.50000	0.024774	19.083	0.0	0.0	0.0	
16.00000	-13.00000	19.50000	0.027618	19.083	0.0	0.0	0.0	
17.00000	-13.00000	19.50000	0.032441	19.083	0.0	0.0	0.0	
18.00000	-13.00000	19.50000	0.035555	19.083	0.0	0.0	0.0	
19.00000	-13.00000	19.50000	0.040469	19.083	0.0	0.0	0.0	
20.00000	-13.00000	19.50000	0.045887	19.083	0.0	0.0	0.0	
21.00000	-13.00000	19.50000	0.051718	19.083	0.0	0.0	0.0	
22.00000	-13.00000	19.50000	0.057873	19.083	0.0	0.0	0.0	
23.00000	-13.00000	19.50000	0.064274	19.083	0.0	0.0	0.0	
24.00000	-13.00000	19.50000	0.070854	19.083	0.0	0.0	0.0	
25.00000	-13.00000	19.50000	0.077556	19.083	0.0	0.0	0.0	
26.00000	-13.00000	19.50000	0.084335	19.083	0.0	0.0	0.0	
27.00000	-13.00000	19.50000	0.091154	19.083	0.0	0.0	0.0	
28.00000	-13.00000	19.50000	0.097978	19.083	0.0	0.0	0.0	
29.00000	-13.00000	19.50000	0.104777	19.083	0.0	0.0	0.0	
30.00000	-13.00000	19.50000	0.111551	19.083	0.0	0.0	0.0	
31.00000	-13.00000	19.50000	0.118312	19.083	0.0	0.0	0.0	
32.00000	-13.00000	19.50000	0.124557	19.083	0.0	0.0	0.0	
33.00000	-13.00000	19.50000	0.130379	19.083	0.0	0.0	0.0	
34.00000	-13.00000	19.50000	0.13670	19.083	0.0	0.0	0.0	
35.00000	-13.00000	19.50000	0.14223	19.083	0.0	0.0	0.0	
36.00000	-13.00000	19.50000	0.14730	19.083	0.0	0.0	0.0	
37.00000	-13.00000	19.50000	0.15185	19.083	0.0	0.0	0.0	
38.00000	-13.00000	19.50000	0.15581	19.083	0.0	0.0	0.0	
39.00000	-13.00000	19.50000	0.15914	19.083	0.0	0.0	0.0	
40.00000	-13.00000	19.50000	0.16182	19.083	0.0	0.0	0.0	
41.00000	-13.00000	19.50000	0.16383	19.083	0.0	0.0	0.0	
42.00000	-13.00000	19.50000	0.16518	19.083	0.0	0.0	0.0	
43.00000	-13.00000	19.50000	0.16590	19.083	0.0	0.0	0.0	
44.00000	-13.00000	19.50000	0.16601	19.083	0.0	0.0	0.0	
45.00000	-13.00000	19.50000	0.16556	19.083	0.0	0.0	0.0	
46.00000	-13.00000	19.50000	0.16458	19.083	0.0	0.0	0.0	
47.00000	-13.00000	19.50000	0.16314	19.083	0.0	0.0	0.0	
48.00000	-13.00000	19.50000	0.16128	19.083	0.0	0.0	0.0	
49.00000	-13.00000	19.50000	0.15906	19.083	0.0	0.0	0.0	
50.00000	-13.00000	19.50000	0.15652	19.083	0.0	0.0	0.0	
51.00000	-13.00000	19.50000	0.15371	19.083	0.0	0.0	0.0	
52.00000	-13.00000	19.50000	0.15068	19.083	0.0	0.0	0.0	
53.00000	-13.00000	19.50000	0.14747	19.083	0.0	0.0	0.0	
54.00000	-13.00000	19.50000	0.14412	19.083	0.0	0.0	0.0	
55.00000	-13.00000	19.50000	0.14066	19.083	0.0	0.0	0.0	
-25.00000	-12.00000	19.50000	0.14635	19.083	0.0	0.0	0.0	
-24.00000	-12.00000	19.50000	0.15009	19.083	0.0	0.0	0.0	
-23.00000	-12.00000	19.50000	0.15372	19.083	0.0	0.0	0.0	
-22.00000	-12.00000	19.50000	0.15719	19.083	0.0	0.0	0.0	
-21.00000	-12.00000	19.50000	0.16047	19.083	0.0	0.0	0.0	
-20.00000	-12.00000	19.50000	0.16349	19.083	0.0	0.0	0.0	
-19.00000	-12.00000	19.50000	0.16620	19.083	0.0	0.0	0.0	
-18.00000	-12.00000	19.50000	0.16854	19.083	0.0	0.0	0.0	
-17.00000	-12.00000	19.50000	0.17042	19.083	0.0	0.0	0.0	
-16.00000	-12.00000	19.50000	0.17178	19.083	0.0	0.0	0.0	
-15.00000	-12.00000	19.50000	0.17252	19.083	0.0	0.0	0.0	
-14.00000	-12.00000	19.50000	0.17256	19.083	0.0	0.0	0.0	
-13.00000	-12.00000	19.50000	0.17180	19.083	0.0	0.0	0.0	
-12.00000	-12.00000	19.50000	0.17016	19.083	0.0	0.0	0.0	
-11.00000	-12.00000	19.50000	0.16752	19.083	0.0	0.0	0.0	
-10.00000	-12.00000	19.50000	0.16382	19.083	0.0	0.0	0.0	
-9.00000	-12.00000	19.50000	0.15898	19.083	0.0	0.0	0.0	
-8.00000	-12.00000	19.50000	0.15293	19.083	0.0	0.0	0.0	
-7.00000	-12.00000	19.50000	0.14565	19.083	0.0	0.0	0.0	
-6.00000	-12.00000	19.50000	0.13714	19.083	0.0	0.0	0.0	
-5.00000	-12.00000	19.50000	0.12743	19.083	0.0	0.0	0.0	
-4.00000	-12.00000	19.50000	0.11662	19.083	0.0	0.0	0.0	
-3.00000	-12.00000	19.50000	0.10483	19.083	0.0	0.0	0.0	
-2.00000	-12.00000	19.50000	0.092259	19.083	0.0	0.0	0.0	
-1.00000	-12.00000	19.50000	0.079127	19.083	0.0	0.0	0.0	
0.00000	-12.00000	19.50000	0.065698	19.083	0.0	0.0	0.0	
1.00000	-12.00000	19.50000	0.052255	19.083	0.0	0.0	0.0	
2.00000	-12.00000	19.50000	0.039086	19.083	0.0	0.0	0.0	
3.00000	-12.00000	19.50000	0.026463	19.083	0.0	0.0	0.0	
4.00000	-12.00000	19.50000	0.014635	19.083	0.0	0.0	0.0	
5.00000	-12.00000	19.50000	0.003815	19.083	0.0	0.0	0.0	
6.00000	-12.00000	19.50000	-0.0058399	19.083	0.0	0.0	0.0	
7.00000	-12.00000	19.50000	-0.014195	19.083	0.0	0.0	0.0	
8.00000	-12.00000	19.50000	-0.021170	19.083	0.0	0.0	0.0	
9.00000	-12.00000	19.50000	-0.026719	19.083	0.0	0.0	0.0	
10.00000	-12.00000	19.50000	-0.030824	19.083	0.0	0.0	0.0	
11.00000	-12.00000	19.50000	-0.033495	19.083	0.0	0.0	0.0	
12.00000	-12.00000	19.50000	-0.034761	19.083	0.0	0.0	0.0	
13.00000	-12.00000	19.50000	-0.034669	19.083	0.0	0.0	0.0	
14.00000	-12.00000	19.50000	-0.033281	19.083	0.0	0.0	0.0	
15.00000	-12.00000	19.50000	-0.030673	19.083	0.0	0.0	0.0	
16.00000	-12.00000	19.50000	-0.026935	19.083	0.0	0.0	0.0	
17.00000	-12.00000	19.50000	-0.022170	19.083	0.0	0.0	0.0	
18.00000	-12.00000	19.50000	-0.016490	19.083	0.0	0.0	0.0	
19.00000	-12.00000	19.50000	-0.010017	19.083	0.0	0.0	0.0	
20.00000	-12.00000	19.50000	-0.002879	19.083	0.0	0.0	0.0	
21.00000	-12.00000	19.50000	0.0048078	19.083	0.0	0.0	0.0	
22.00000	-12.00000	19.50000	0.012921	19.083	0.0	0.0	0.0	
23.00000	-12.00000	19.50000	0.021361	19.083	0.0	0.0	0.0	
24.00000	-12.00000	19.50000	0.030142	19.083	0.0	0.0	0.0	
25.00000	-12.00000	19.50000	0.038895	19.083	0.0	0.0	0.0	
26.00000	-12.00000	19.50000	0.047870	19.083	0.0	0.0	0.0	
27.00000	-12.00000	19.50000	0.056928	19.083	0.0	0.0	0.0	
28.00000	-12.00000	19.50000	0.066035	19.083	0.0	0.0	0.0	
29.00000	-12.00000	19.50000	0.075157	19.083	0.0	0.0	0.0	
30.00000	-12.00000	19.50000	0.084253	19.083	0.0	0.0	0.0	
31.00000	-12.00000	19.50000	0.093267	19.083	0.0	0.0	0.0	
32.00000	-12.00000	19.50000	0.10213	19.083	0.0	0.0	0.0	
33.00000	-12.00000	19.50000	0.11075	19.083	0.0	0.0	0.0	
34.00000	-12.00000	19.50000	0.11903	19.083	0.0	0.0	0.0	
35.00000	-12.00000	19.50000	0.12687	19.083	0.			



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Dr. Ref.		
Made by	Date	Checked
MP		

Name	Location		Z [Level] [mm]	Calc Level [mOD]	Stresses		
	X [m]	Y [m]			Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
47.00000	-12.00000	19.50000	0.16389	19.083	0.0	0.0	0.0
48.00000	-12.00000	19.50000	0.16245	19.083	0.0	0.0	0.0
49.00000	-12.00000	19.50000	0.16055	19.083	0.0	0.0	0.0
50.00000	-12.00000	19.50000	0.15827	19.083	0.0	0.0	0.0
51.00000	-12.00000	19.50000	0.15566	19.083	0.0	0.0	0.0
52.00000	-12.00000	19.50000	0.15277	19.083	0.0	0.0	0.0
53.00000	-12.00000	19.50000	0.14965	19.083	0.0	0.0	0.0
54.00000	-12.00000	19.50000	0.14636	19.083	0.0	0.0	0.0
55.00000	-12.00000	19.50000	0.14293	19.083	0.0	0.0	0.0
-25.00000	-11.00000	19.50000	0.14878	19.083	0.0	0.0	0.0
-24.00000	-11.00000	19.50000	0.15232	19.083	0.0	0.0	0.0
-23.00000	-11.00000	19.50000	0.15612	19.083	0.0	0.0	0.0
-22.00000	-11.00000	19.50000	0.15953	19.083	0.0	0.0	0.0
-21.00000	-11.00000	19.50000	0.16271	19.083	0.0	0.0	0.0
-20.00000	-11.00000	19.50000	0.16557	19.083	0.0	0.0	0.0
-19.00000	-11.00000	19.50000	0.16807	19.083	0.0	0.0	0.0
-18.00000	-11.00000	19.50000	0.17011	19.083	0.0	0.0	0.0
-17.00000	-11.00000	19.50000	0.17161	19.083	0.0	0.0	0.0
-16.00000	-11.00000	19.50000	0.17247	19.083	0.0	0.0	0.0
-15.00000	-11.00000	19.50000	0.17259	19.083	0.0	0.0	0.0
-14.00000	-11.00000	19.50000	0.17185	19.083	0.0	0.0	0.0
-13.00000	-11.00000	19.50000	0.17015	19.083	0.0	0.0	0.0
-12.00000	-11.00000	19.50000	0.16734	19.083	0.0	0.0	0.0
-11.00000	-11.00000	19.50000	0.16332	19.083	0.0	0.0	0.0
-10.00000	-11.00000	19.50000	0.15797	19.083	0.0	0.0	0.0
-9.00000	-11.00000	19.50000	0.15117	19.083	0.0	0.0	0.0
-8.00000	-11.00000	19.50000	0.14285	19.083	0.0	0.0	0.0
-7.00000	-11.00000	19.50000	0.13295	19.083	0.0	0.0	0.0
-6.00000	-11.00000	19.50000	0.12146	19.083	0.0	0.0	0.0
-5.00000	-11.00000	19.50000	0.10841	19.083	0.0	0.0	0.0
-4.00000	-11.00000	19.50000	0.093909	19.083	0.0	0.0	0.0
-3.00000	-11.00000	19.50000	0.078122	19.083	0.0	0.0	0.0
-2.00000	-11.00000	19.50000	0.061293	19.083	0.0	0.0	0.0
-1.00000	-11.00000	19.50000	0.043730	19.083	0.0	0.0	0.0
0.00000	-11.00000	19.50000	-0.025789	19.083	0.0	0.0	0.0
1.00000	-11.00000	19.50000	-0.078599	19.083	0.0	0.0	0.0
2.00000	-11.00000	19.50000	-0.096649	19.083	0.0	0.0	0.0
3.00000	-11.00000	19.50000	-0.026413	19.083	0.0	0.0	0.0
4.00000	-11.00000	19.50000	-0.042054	19.083	0.0	0.0	0.0
5.00000	-11.00000	19.50000	-0.056313	19.083	0.0	0.0	0.0
6.00000	-11.00000	19.50000	-0.068979	19.083	0.0	0.0	0.0
7.00000	-11.00000	19.50000	-0.079901	19.083	0.0	0.0	0.0
8.00000	-11.00000	19.50000	-0.088986	19.083	0.0	0.0	0.0
9.00000	-11.00000	19.50000	-0.096187	19.083	0.0	0.0	0.0
10.00000	-11.00000	19.50000	-0.101500	19.083	0.0	0.0	0.0
11.00000	-11.00000	19.50000	-0.10493	19.083	0.0	0.0	0.0
12.00000	-11.00000	19.50000	-0.10654	19.083	0.0	0.0	0.0
13.00000	-11.00000	19.50000	-0.10639	19.083	0.0	0.0	0.0
14.00000	-11.00000	19.50000	-0.10455	19.083	0.0	0.0	0.0
15.00000	-11.00000	19.50000	-0.10112	19.083	0.0	0.0	0.0
16.00000	-11.00000	19.50000	-0.096218	19.083	0.0	0.0	0.0
17.00000	-11.00000	19.50000	-0.089974	19.083	0.0	0.0	0.0
18.00000	-11.00000	19.50000	-0.082535	19.083	0.0	0.0	0.0
19.00000	-11.00000	19.50000	-0.074060	19.083	0.0	0.0	0.0
20.00000	-11.00000	19.50000	-0.064718	19.083	0.0	0.0	0.0
21.00000	-11.00000	19.50000	-0.054675	19.083	0.0	0.0	0.0
22.00000	-11.00000	19.50000	-0.044084	19.083	0.0	0.0	0.0
23.00000	-11.00000	19.50000	-0.033081	19.083	0.0	0.0	0.0
24.00000	-11.00000	19.50000	-0.021773	19.083	0.0	0.0	0.0
25.00000	-11.00000	19.50000	-0.010443	19.083	0.0	0.0	0.0
26.00000	-11.00000	19.50000	0.0014557	19.083	0.0	0.0	0.0
27.00000	-11.00000	19.50000	0.013286	19.083	0.0	0.0	0.0
28.00000	-11.00000	19.50000	0.025223	19.083	0.0	0.0	0.0
29.00000	-11.00000	19.50000	0.037236	19.083	0.0	0.0	0.0
30.00000	-11.00000	19.50000	0.049285	19.083	0.0	0.0	0.0
31.00000	-11.00000	19.50000	0.061307	19.083	0.0	0.0	0.0
32.00000	-11.00000	19.50000	0.073213	19.083	0.0	0.0	0.0
33.00000	-11.00000	19.50000	0.084885	19.083	0.0	0.0	0.0
34.00000	-11.00000	19.50000	0.096184	19.083	0.0	0.0	0.0
35.00000	-11.00000	19.50000	0.106696	19.083	0.0	0.0	0.0
36.00000	-11.00000	19.50000	0.11705	19.083	0.0	0.0	0.0
37.00000	-11.00000	19.50000	0.12633	19.083	0.0	0.0	0.0
38.00000	-11.00000	19.50000	0.13467	19.083	0.0	0.0	0.0
39.00000	-11.00000	19.50000	0.14200	19.083	0.0	0.0	0.0
40.00000	-11.00000	19.50000	0.14826	19.083	0.0	0.0	0.0
41.00000	-11.00000	19.50000	0.15344	19.083	0.0	0.0	0.0
42.00000	-11.00000	19.50000	0.15756	19.083	0.0	0.0	0.0
43.00000	-11.00000	19.50000	0.16065	19.083	0.0	0.0	0.0
44.00000	-11.00000	19.50000	0.16278	19.083	0.0	0.0	0.0
45.00000	-11.00000	19.50000	0.16401	19.083	0.0	0.0	0.0
46.00000	-11.00000	19.50000	0.16445	19.083	0.0	0.0	0.0
47.00000	-11.00000	19.50000	0.16415	19.083	0.0	0.0	0.0
48.00000	-11.00000	19.50000	0.16322	19.083	0.0	0.0	0.0
49.00000	-11.00000	19.50000	0.16173	19.083	0.0	0.0	0.0
50.00000	-11.00000	19.50000	0.15976	19.083	0.0	0.0	0.0
51.00000	-11.00000	19.50000	0.15739	19.083	0.0	0.0	0.0
52.00000	-11.00000	19.50000	0.15467	19.083	0.0	0.0	0.0
53.00000	-11.00000	19.50000	0.15168	19.083	0.0	0.0	0.0
54.00000	-11.00000	19.50000	0.14847	19.083	0.0	0.0	0.0
55.00000	-11.00000	19.50000	0.14509	19.083	0.0	0.0	0.0
-25.00000	-10.00000	19.50000	0.15112	19.083	0.0	0.0	0.0
-24.00000	-10.00000	19.50000	0.15485	19.083	0.0	0.0	0.0
-23.00000	-10.00000	19.50000	0.15841	19.083	0.0	0.0	0.0
-22.00000	-10.00000	19.50000	0.16173	19.083	0.0	0.0	0.0
-21.00000	-10.00000	19.50000	0.16497	19.083	0.0	0.0	0.0
-20.00000	-10.00000	19.50000	0.16745	19.083	0.0	0.0	0.0
-19.00000	-10.00000	19.50000	0.16968	19.083	0.0	0.0	0.0
-18.00000	-10.00000	19.50000	0.17137	19.083	0.0	0.0	0.0
-17.00000	-10.00000	19.50000	0.17242	19.083	0.0	0.0	0.0
-16.00000	-10.00000	19.50000	0.17270	19.083	0.0	0.0	0.0
-15.00000	-10.00000	19.50000	0.17209	19.083	0.0	0.0	0.0
-14.00000	-10.00000	19.50000	0.17044	19.083	0.0	0.0	0.0
-13.00000	-10.00000	19.50000	0.16761	19.083	0.0	0.0	0.0
-12.00000	-10.00000	19.50000	0.16344	19.083	0.0	0.0	0.0
-11.00000	-10.00000	19.50000	0.15876	19.083	0.0	0.0	0.0
-10.00000	-10.00000	19.50000	0.15042	19.083	0.0	0.0	0.0
-9.00000	-10.00000	19.50000	0.14127	19.083	0.0	0.0	0.0
-8.00000	-10.00000	19.50000	0.13018	19.083	0.0	0.0	0.0
-7.00000	-10.00000	19.50000	0.11706	19.083	0.0	0.0	0.0
-6.00000	-10.00000	19.50000	0.10187	19.083	0.0	0.0	0.0
-5.00000	-10.00000	19.50000	0.084632	19.083	0.0	0.0	0.0
-4.00000	-10.00000	19.50000	0.065461	19.083	0.0	0.0	0.0
-3.00000	-10.00000	19.50000	0.044568	19.083	0.0	0.0	0.0
-2.00000	-10.00000	19.50000	0.022271	19.083	0.0	0.0	0.0
-1.00000	-10.00000	19.50000	-0.001175	19.083	0.0	0.0	0.0
0.00000	-10.00000	19.50000	-0.024804	19.083	0.0	0.0	0.0
1.00000	-10.00000	19.50000	-0.048550	19.083	0.0	0.0	0.0
2.00000	-10.00000	19.50000	-0.071711	19.083	0.0	0.0	0.0
3.00000	-10.00000	19.50000	-0.093796	19.083	0.0	0.0	0.0
4.00000	-10.00000	19.50000	-0.11430	19.083	0.0	0.0	0.0
5.00000	-10.00000	19.50000	-0.13293	19.083	0.0	0.0	0.0
6.00000	-10.00000	19.50000	-0.14940	19.083	0.0	0.0	0.0
7.00000	-10.00000	19.50000	-0.16354	19.083	0.0	0.0	0.0
8.00000	-10.00000	19.50000	-0.17524	19.083	0.0	0.0	0.0
9.00000	-10.00000	19.50000	-0.18447	19.083	0.0	0.0	0.0
10.00000	-10.00000	19.50000	-0.19123	19.083	0.0	0.0	0.0
11.00000	-10.00000	19.50000	-0.19558	19.083	0.0	0.0	0.0
12.00000	-10.00000	19.50000	-0.19757	19.083	0.0	0.0	0.0
13.00000	-10.00000	19.50000	-0.19728	19.083	0.0	0.0	0.0
14.00000	-10.00000	19.50000	-0.19483	19.083	0.0	0.0	0.0
15.00000							



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Dr. Ref.		
Made by	Date	Checked
MP		

Name	Location		Z [Level] [mm]	Z [mm]	Calc Level [mOD]	Stresses		
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
26.00000	-10.00000	19.50000	-0.057280	19.083	0.0	0.0	0.0	
27.00000	-10.00000	19.50000	-0.042028	19.083	0.0	0.0	0.0	
28.00000	-10.00000	19.50000	-0.026597	19.083	0.0	0.0	0.0	
29.00000	-10.00000	19.50000	-0.011000	19.083	0.0	0.0	0.0	
30.00000	-10.00000	19.50000	0.0047312	19.083	0.0	0.0	0.0	
31.00000	-10.00000	19.50000	0.020559	19.083	0.0	0.0	0.0	
32.00000	-10.00000	19.50000	0.036280	19.083	0.0	0.0	0.0	
33.00000	-10.00000	19.50000	0.051828	19.083	0.0	0.0	0.0	
34.00000	-10.00000	19.50000	0.066977	19.083	0.0	0.0	0.0	
35.00000	-10.00000	19.50000	0.081506	19.083	0.0	0.0	0.0	
36.00000	-10.00000	19.50000	0.095195	19.083	0.0	0.0	0.0	
37.00000	-10.00000	19.50000	0.10785	19.083	0.0	0.0	0.0	
38.00000	-10.00000	19.50000	0.11930	19.083	0.0	0.0	0.0	
39.00000	-10.00000	19.50000	0.12943	19.083	0.0	0.0	0.0	
40.00000	-10.00000	19.50000	0.13818	19.083	0.0	0.0	0.0	
41.00000	-10.00000	19.50000	0.14554	19.083	0.0	0.0	0.0	
42.00000	-10.00000	19.50000	0.15154	19.083	0.0	0.0	0.0	
43.00000	-10.00000	19.50000	0.15623	19.083	0.0	0.0	0.0	
44.00000	-10.00000	19.50000	0.15971	19.083	0.0	0.0	0.0	
45.00000	-10.00000	19.50000	0.16207	19.083	0.0	0.0	0.0	
46.00000	-10.00000	19.50000	0.16342	19.083	0.0	0.0	0.0	
47.00000	-10.00000	19.50000	0.16389	19.083	0.0	0.0	0.0	
48.00000	-10.00000	19.50000	0.16356	19.083	0.0	0.0	0.0	
49.00000	-10.00000	19.50000	0.16256	19.083	0.0	0.0	0.0	
50.00000	-10.00000	19.50000	0.16097	19.083	0.0	0.0	0.0	
51.00000	-10.00000	19.50000	0.15888	19.083	0.0	0.0	0.0	
52.00000	-10.00000	19.50000	0.15639	19.083	0.0	0.0	0.0	
53.00000	-10.00000	19.50000	0.15356	19.083	0.0	0.0	0.0	
54.00000	-10.00000	19.50000	0.15045	19.083	0.0	0.0	0.0	
55.00000	-10.00000	19.50000	0.14714	19.083	0.0	0.0	0.0	
-24.00000	-9.00000	19.50000	-0.15317	19.083	0.0	0.0	0.0	
-23.00000	-9.00000	19.50000	-0.15707	19.083	0.0	0.0	0.0	
-22.00000	-9.00000	19.50000	-0.16056	19.083	0.0	0.0	0.0	
-21.00000	-9.00000	19.50000	-0.16378	19.083	0.0	0.0	0.0	
-20.00000	-9.00000	19.50000	-0.16656	19.083	0.0	0.0	0.0	
-19.00000	-9.00000	19.50000	-0.16891	19.083	0.0	0.0	0.0	
-18.00000	-9.00000	19.50000	-0.17104	19.083	0.0	0.0	0.0	
-17.00000	-9.00000	19.50000	-0.17232	19.083	0.0	0.0	0.0	
-16.00000	-9.00000	19.50000	-0.17284	19.083	0.0	0.0	0.0	
-15.00000	-9.00000	19.50000	-0.17244	19.083	0.0	0.0	0.0	
-14.00000	-9.00000	19.50000	-0.17098	19.083	0.0	0.0	0.0	
-13.00000	-9.00000	19.50000	-0.16828	19.083	0.0	0.0	0.0	
-12.00000	-9.00000	19.50000	-0.16414	19.083	0.0	0.0	0.0	
-11.00000	-9.00000	19.50000	-0.15837	19.083	0.0	0.0	0.0	
-10.00000	-9.00000	19.50000	-0.15074	19.083	0.0	0.0	0.0	
-9.00000	-9.00000	19.50000	-0.14104	19.083	0.0	0.0	0.0	
-8.00000	-9.00000	19.50000	-0.12907	19.083	0.0	0.0	0.0	
-7.00000	-9.00000	19.50000	-0.11463	19.083	0.0	0.0	0.0	
-6.00000	-9.00000	19.50000	-0.097566	19.083	0.0	0.0	0.0	
-5.00000	-9.00000	19.50000	-0.07795	19.083	0.0	0.0	0.0	
-4.00000	-9.00000	19.50000	-0.055313	19.083	0.0	0.0	0.0	
-3.00000	-9.00000	19.50000	-0.030233	19.083	0.0	0.0	0.0	
-2.00000	-9.00000	19.50000	-0.0028105	19.083	0.0	0.0	0.0	
-1.00000	-9.00000	19.50000	-0.026545	19.083	0.0	0.0	0.0	
0.00000	-9.00000	19.50000	-0.05170	19.083	0.0	0.0	0.0	
1.00000	-9.00000	19.50000	-0.088681	19.083	0.0	0.0	0.0	
2.00000	-9.00000	19.50000	-0.12002	19.083	0.0	0.0	0.0	
3.00000	-9.00000	19.50000	-0.15051	19.083	0.0	0.0	0.0	
4.00000	-9.00000	19.50000	-0.17946	19.083	0.0	0.0	0.0	
5.00000	-9.00000	19.50000	-0.20626	19.083	0.0	0.0	0.0	
6.00000	-9.00000	19.50000	-0.23046	19.083	0.0	0.0	0.0	
7.00000	-9.00000	19.50000	-0.25172	19.083	0.0	0.0	0.0	
8.00000	-9.00000	19.50000	-0.26986	19.083	0.0	0.0	0.0	
9.00000	-9.00000	19.50000	-0.28479	19.083	0.0	0.0	0.0	
10.00000	-9.00000	19.50000	-0.29650	19.083	0.0	0.0	0.0	
11.00000	-9.00000	19.50000	-0.30502	19.083	0.0	0.0	0.0	
12.00000	-9.00000	19.50000	-0.31044	19.083	0.0	0.0	0.0	
13.00000	-9.00000	19.50000	-0.31283	19.083	0.0	0.0	0.0	
14.00000	-9.00000	19.50000	-0.31233	19.083	0.0	0.0	0.0	
15.00000	-9.00000	19.50000	-0.30904	19.083	0.0	0.0	0.0	
16.00000	-9.00000	19.50000	-0.30311	19.083	0.0	0.0	0.0	
17.00000	-9.00000	19.50000	-0.29471	19.083	0.0	0.0	0.0	
18.00000	-9.00000	19.50000	-0.28406	19.083	0.0	0.0	0.0	
19.00000	-9.00000	19.50000	-0.27139	19.083	0.0	0.0	0.0	
20.00000	-9.00000	19.50000	-0.25700	19.083	0.0	0.0	0.0	
21.00000	-9.00000	19.50000	-0.24118	19.083	0.0	0.0	0.0	
22.00000	-9.00000	19.50000	-0.22426	19.083	0.0	0.0	0.0	
23.00000	-9.00000	19.50000	-0.20653	19.083	0.0	0.0	0.0	
24.00000	-9.00000	19.50000	-0.18822	19.083	0.0	0.0	0.0	
25.00000	-9.00000	19.50000	-0.16953	19.083	0.0	0.0	0.0	
26.00000	-9.00000	19.50000	-0.15056	19.083	0.0	0.0	0.0	
27.00000	-9.00000	19.50000	-0.13134	19.083	0.0	0.0	0.0	
28.00000	-9.00000	19.50000	-0.11189	19.083	0.0	0.0	0.0	
29.00000	-9.00000	19.50000	-0.092157	19.083	0.0	0.0	0.0	
30.00000	-9.00000	19.50000	-0.072131	19.083	0.0	0.0	0.0	
31.00000	-9.00000	19.50000	-0.051815	19.083	0.0	0.0	0.0	
32.00000	-9.00000	19.50000	-0.031276	19.083	0.0	0.0	0.0	
33.00000	-9.00000	19.50000	-0.010652	19.083	0.0	0.0	0.0	
34.00000	-9.00000	19.50000	0.0098441	19.083	0.0	0.0	0.0	
35.00000	-9.00000	19.50000	0.029931	19.083	0.0	0.0	0.0	
36.00000	-9.00000	19.50000	0.049290	19.083	0.0	0.0	0.0	
37.00000	-9.00000	19.50000	0.067598	19.083	0.0	0.0	0.0	
38.00000	-9.00000	19.50000	0.084563	19.083	0.0	0.0	0.0	
39.00000	-9.00000	19.50000	0.099955	19.083	0.0	0.0	0.0	
40.00000	-9.00000	19.50000	0.11362	19.083	0.0	0.0	0.0	
41.00000	-9.00000	19.50000	0.12548	19.083	0.0	0.0	0.0	
42.00000	-9.00000	19.50000	0.13553	19.083	0.0	0.0	0.0	
43.00000	-9.00000	19.50000	0.14382	19.083	0.0	0.0	0.0	
44.00000	-9.00000	19.50000	0.15045	19.083	0.0	0.0	0.0	
45.00000	-9.00000	19.50000	0.15555	19.083	0.0	0.0	0.0	
46.00000	-9.00000	19.50000	0.15926	19.083	0.0	0.0	0.0	
47.00000	-9.00000	19.50000	0.16171	19.083	0.0	0.0	0.0	
48.00000	-9.00000	19.50000	0.16306	19.083	0.0	0.0	0.0	
49.00000	-9.00000	19.50000	0.16346	19.083	0.0	0.0	0.0	
50.00000	-9.00000	19.50000	0.16302	19.083	0.0	0.0	0.0	
51.00000	-9.00000	19.50000	0.16188	19.083	0.0	0.0	0.0	
52.00000	-9.00000	19.50000	0.16014	19.083	0.0	0.0	0.0	
53.00000	-9.00000	19.50000	0.15790	19.083	0.0	0.0	0.0	
54.00000	-9.00000	19.50000	0.15526	19.083	0.0	0.0	0.0	
55.00000	-9.00000	19.50000	0.15229	19.083	0.0	0.0	0.0	
-25.00000	-8.00000	19.50000	-0.14906	19.083	0.0	0.0	0.0	
-24.00000	-8.00000	19.50000	-0.15552	19.083	0.0	0.0	0.0	
-23.00000	-8.00000	19.50000	-0.15917	19.083	0.0	0.0	0.0	
-22.00000	-8.00000	19.50000	-0.16258	19.083	0.0	0.0	0.0	
-21.00000	-8.00000	19.50000	-0.16568	19.083	0.0	0.0	0.0	
-20.00000	-8.00000	19.50000	-0.16837	19.083	0.0	0.0	0.0	
-19.00000	-8.00000	19.50000	-0.17055	19.083	0.0	0.0	0.0	
-18.00000	-8.00000	19.50000	-0.17212	19.083	0.0	0.0	0.0	
-17.00000	-8.00000	19.50000	-0.17294	19.083	0.0	0.0	0.0	
-16.00000	-8.00000	19.50000	-0.17285	19.083	0.0	0.0	0.0	
-15.00000	-8.00000	19.50000	-0.17169	19.083	0.0	0.0	0.0	
-14.00000	-8.00000	19.50000	-0.16927	19.083	0.0	0.0	0.0	
-13.00000	-8.00000	19.50000	-0.16535	19.083	0.0	0.0	0.0	
-12.00000	-8.00000	19.50000	-0.15970	19.083	0.0	0.0	0.0	
-11.00000	-8.00000	19.50000	-0.15207	19.083	0.0	0.0	0.0	
-10.00000	-8.00000	19.50000	-0.14216	19.083	0.0	0.0	0.0	
-9.00000	-8.00000	19.50000	-0.12969	19.083	0.0	0.0	0.0	
-8.00000	-8.00000	19.50000	-0.11436	19.083	0.0	0.0	0.0	
-7.00000	-8.00000	19.50000	-0.095895	19.083	0.0	0.0	0.0	
-6.00000	-8.00000	19.50000	-0.074042	19.083	0.0	0.0	0.0	
-5.00000	-8.00000	19.50000	-0.048633	19.083	0.0	0.0	0.0	
-4.000								



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Dr. Ref.		
Made by	Date	Checked
MP		

Name	Location		Z [Level] [mm]	Z [mm]	Calc Level [mOD]	Stresses		
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
5.00000	-8.00000	19.50000	-0.35471	19.083	0.0	0.0	0.0	
6.00000	-8.00000	19.50000	-0.38201	19.083	0.0	0.0	0.0	
7.00000	-8.00000	19.50000	-0.40513	19.083	0.0	0.0	0.0	
8.00000	-8.00000	19.50000	-0.42403	19.083	0.0	0.0	0.0	
9.00000	-8.00000	19.50000	-0.43875	19.083	0.0	0.0	0.0	
10.00000	-8.00000	19.50000	-0.44937	19.083	0.0	0.0	0.0	
11.00000	-8.00000	19.50000	-0.45602	19.083	0.0	0.0	0.0	
12.00000	-8.00000	19.50000	-0.45885	19.083	0.0	0.0	0.0	
13.00000	-8.00000	19.50000	-0.45798	19.083	0.0	0.0	0.0	
14.00000	-8.00000	19.50000	-0.45357	19.083	0.0	0.0	0.0	
15.00000	-8.00000	19.50000	-0.44599	19.083	0.0	0.0	0.0	
16.00000	-8.00000	19.50000	-0.43480	19.083	0.0	0.0	0.0	
17.00000	-8.00000	19.50000	-0.42090	19.083	0.0	0.0	0.0	
18.00000	-8.00000	19.50000	-0.40437	19.083	0.0	0.0	0.0	
19.00000	-8.00000	19.50000	-0.38561	19.083	0.0	0.0	0.0	
20.00000	-8.00000	19.50000	-0.36505	19.083	0.0	0.0	0.0	
21.00000	-8.00000	19.50000	-0.34312	19.083	0.0	0.0	0.0	
22.00000	-8.00000	19.50000	-0.32026	19.083	0.0	0.0	0.0	
23.00000	-8.00000	19.50000	-0.29680	19.083	0.0	0.0	0.0	
24.00000	-8.00000	19.50000	-0.27297	19.083	0.0	0.0	0.0	
25.00000	-8.00000	19.50000	-0.24890	19.083	0.0	0.0	0.0	
26.00000	-8.00000	19.50000	-0.22460	19.083	0.0	0.0	0.0	
27.00000	-8.00000	19.50000	-0.20000	19.083	0.0	0.0	0.0	
28.00000	-8.00000	19.50000	-0.17501	19.083	0.0	0.0	0.0	
29.00000	-8.00000	19.50000	-0.14952	19.083	0.0	0.0	0.0	
30.00000	-8.00000	19.50000	-0.12350	19.083	0.0	0.0	0.0	
31.00000	-8.00000	19.50000	-0.09700	19.083	0.0	0.0	0.0	
32.00000	-8.00000	19.50000	-0.07017	19.083	0.0	0.0	0.0	
33.00000	-8.00000	19.50000	-0.04331	19.083	0.0	0.0	0.0	
34.00000	-8.00000	19.50000	-0.01684	19.083	0.0	0.0	0.0	
35.00000	-8.00000	19.50000	0.00977	19.083	0.0	0.0	0.0	
36.00000	-8.00000	19.50000	0.03305	19.083	0.0	0.0	0.0	
37.00000	-8.00000	19.50000	0.05556	19.083	0.0	0.0	0.0	
38.00000	-8.00000	19.50000	0.07597	19.083	0.0	0.0	0.0	
39.00000	-8.00000	19.50000	0.09478	19.083	0.0	0.0	0.0	
40.00000	-8.00000	19.50000	0.10980	19.083	0.0	0.0	0.0	
41.00000	-8.00000	19.50000	0.12316	19.083	0.0	0.0	0.0	
42.00000	-8.00000	19.50000	0.13424	19.083	0.0	0.0	0.0	
43.00000	-8.00000	19.50000	0.14321	19.083	0.0	0.0	0.0	
44.00000	-8.00000	19.50000	0.15023	19.083	0.0	0.0	0.0	
45.00000	-8.00000	19.50000	0.15552	19.083	0.0	0.0	0.0	
46.00000	-8.00000	19.50000	0.15926	19.083	0.0	0.0	0.0	
47.00000	-8.00000	19.50000	0.16165	19.083	0.0	0.0	0.0	
48.00000	-8.00000	19.50000	0.16288	19.083	0.0	0.0	0.0	
49.00000	-8.00000	19.50000	0.16310	19.083	0.0	0.0	0.0	
50.00000	-8.00000	19.50000	0.16248	19.083	0.0	0.0	0.0	
51.00000	-8.00000	19.50000	0.16114	19.083	0.0	0.0	0.0	
52.00000	-8.00000	19.50000	0.15921	19.083	0.0	0.0	0.0	
53.00000	-8.00000	19.50000	0.15679	19.083	0.0	0.0	0.0	
54.00000	-8.00000	19.50000	0.15399	19.083	0.0	0.0	0.0	
55.00000	-8.00000	19.50000	0.15087	19.083	0.0	0.0	0.0	
-25.00000	-7.00000	19.50000	0.15756	19.083	0.0	0.0	0.0	
-24.00000	-7.00000	19.50000	0.16116	19.083	0.0	0.0	0.0	
-23.00000	-7.00000	19.50000	0.16447	19.083	0.0	0.0	0.0	
-22.00000	-7.00000	19.50000	0.16741	19.083	0.0	0.0	0.0	
-21.00000	-7.00000	19.50000	0.16988	19.083	0.0	0.0	0.0	
-20.00000	-7.00000	19.50000	0.17177	19.083	0.0	0.0	0.0	
-19.00000	-7.00000	19.50000	0.17293	19.083	0.0	0.0	0.0	
-18.00000	-7.00000	19.50000	0.17323	19.083	0.0	0.0	0.0	
-17.00000	-7.00000	19.50000	0.17247	19.083	0.0	0.0	0.0	
-16.00000	-7.00000	19.50000	0.17044	19.083	0.0	0.0	0.0	
-15.00000	-7.00000	19.50000	0.16692	19.083	0.0	0.0	0.0	
-14.00000	-7.00000	19.50000	0.16163	19.083	0.0	0.0	0.0	
-13.00000	-7.00000	19.50000	0.15427	19.083	0.0	0.0	0.0	
-12.00000	-7.00000	19.50000	0.14481	19.083	0.0	0.0	0.0	
-11.00000	-7.00000	19.50000	0.13198	19.083	0.0	0.0	0.0	
-10.00000	-7.00000	19.50000	0.11628	19.083	0.0	0.0	0.0	
-9.00000	-7.00000	19.50000	0.09700	19.083	0.0	0.0	0.0	
-8.00000	-7.00000	19.50000	0.07374	19.083	0.0	0.0	0.0	
-7.00000	-7.00000	19.50000	0.04610	19.083	0.0	0.0	0.0	
-6.00000	-7.00000	19.50000	0.01378	19.083	0.0	0.0	0.0	
-5.00000	-7.00000	19.50000	-0.02340	19.083	0.0	0.0	0.0	
-4.00000	-7.00000	19.50000	-0.06546	19.083	0.0	0.0	0.0	
-3.00000	-7.00000	19.50000	-0.11204	19.083	0.0	0.0	0.0	
-2.00000	-7.00000	19.50000	-0.16254	19.083	0.0	0.0	0.0	
-1.00000	-7.00000	19.50000	-0.21589	19.083	0.0	0.0	0.0	
0.00000	-7.00000	19.50000	-0.27069	19.083	0.0	0.0	0.0	
1.00000	-7.00000	19.50000	-0.32533	19.083	0.0	0.0	0.0	
2.00000	-7.00000	19.50000	-0.37820	19.083	0.0	0.0	0.0	
3.00000	-7.00000	19.50000	-0.42787	19.083	0.0	0.0	0.0	
4.00000	-7.00000	19.50000	-0.47323	19.083	0.0	0.0	0.0	
5.00000	-7.00000	19.50000	-0.51355	19.083	0.0	0.0	0.0	
6.00000	-7.00000	19.50000	-0.54842	19.083	0.0	0.0	0.0	
7.00000	-7.00000	19.50000	-0.57771	19.083	0.0	0.0	0.0	
8.00000	-7.00000	19.50000	-0.60145	19.083	0.0	0.0	0.0	
9.00000	-7.00000	19.50000	-0.61977	19.083	0.0	0.0	0.0	
10.00000	-7.00000	19.50000	-0.63288	19.083	0.0	0.0	0.0	
11.00000	-7.00000	19.50000	-0.64097	19.083	0.0	0.0	0.0	
12.00000	-7.00000	19.50000	-0.64422	19.083	0.0	0.0	0.0	
13.00000	-7.00000	19.50000	-0.64291	19.083	0.0	0.0	0.0	
14.00000	-7.00000	19.50000	-0.63691	19.083	0.0	0.0	0.0	
15.00000	-7.00000	19.50000	-0.62668	19.083	0.0	0.0	0.0	
16.00000	-7.00000	19.50000	-0.61234	19.083	0.0	0.0	0.0	
17.00000	-7.00000	19.50000	-0.59418	19.083	0.0	0.0	0.0	
18.00000	-7.00000	19.50000	-0.57258	19.083	0.0	0.0	0.0	
19.00000	-7.00000	19.50000	-0.54806	19.083	0.0	0.0	0.0	
20.00000	-7.00000	19.50000	-0.52123	19.083	0.0	0.0	0.0	
21.00000	-7.00000	19.50000	-0.49276	19.083	0.0	0.0	0.0	
22.00000	-7.00000	19.50000	-0.46327	19.083	0.0	0.0	0.0	
23.00000	-7.00000	19.50000	-0.43323	19.083	0.0	0.0	0.0	
24.00000	-7.00000	19.50000	-0.40298	19.083	0.0	0.0	0.0	
25.00000	-7.00000	19.50000	-0.37261	19.083	0.0	0.0	0.0	
26.00000	-7.00000	19.50000	-0.34209	19.083	0.0	0.0	0.0	
27.00000	-7.00000	19.50000	-0.31124	19.083	0.0	0.0	0.0	
28.00000	-7.00000	19.50000	-0.27984	19.083	0.0	0.0	0.0	
29.00000	-7.00000	19.50000	-0.24766	19.083	0.0	0.0	0.0	
30.00000	-7.00000	19.50000	-0.21456	19.083	0.0	0.0	0.0	
31.00000	-7.00000	19.50000	-0.18053	19.083	0.0	0.0	0.0	
32.00000	-7.00000	19.50000	-0.14576	19.083	0.0	0.0	0.0	
33.00000	-7.00000	19.50000	-0.11065	19.083	0.0	0.0	0.0	
34.00000	-7.00000	19.50000	-0.07581	19.083	0.0	0.0	0.0	
35.00000	-7.00000	19.50000	-0.04191	19.083	0.0	0.0	0.0	
36.00000	-7.00000	19.50000	-0.00991	19.083	0.0	0.0	0.0	
37.00000	-7.00000	19.50000	0.01971	19.083	0.0	0.0	0.0	
38.00000	-7.00000	19.50000	0.04659	19.083	0.0	0.0	0.0	
39.00000	-7.00000	19.50000	0.07030	19.083	0.0	0.0	0.0	
40.00000	-7.00000	19.50000	0.09081	19.083	0.0	0.0	0.0	
41.00000	-7.00000	19.50000	0.10821	19.083	0.0	0.0	0.0	
42.00000	-7.00000	19.50000	0.12266	19.083	0.0	0.0	0.0	
43.00000	-7.00000	19.50000	0.13440	19.083	0.0	0.0	0.0	
44.00000	-7.00000	19.50000	0.14369	19.083	0.0	0.0	0.0	
45.00000	-7.00000	19.50000	0.15082	19.083	0.0	0.0	0.0	
46.00000	-7.00000	19.50000	0.15606	19.083	0.0	0.0	0.0	
47.00000	-7.00000	19.50000	0.15964	19.083	0.0	0.0	0.0	
48.00000	-7.00000	19.50000	0.16182	19.083	0.0	0.0	0.0	
49.00000	-7.00000	19.50000	0.16280	19.083	0.0	0.0	0.0	
50.00000	-7.00000	19.50000	0.16276	19.083	0.0	0.0	0.0	
51.00000	-7.00000	19.50000	0.16188	19.083	0.0	0.0	0.0	
52.00000	-7.00000	19.50000	0.16030	19.083	0.0	0.0	0.0	
53.00000	-7.00000	19.50000	0.15815	19.083	0.0	0.0	0.0	
54.00000	-7.00000	19.50000	0.15553	19.083	0.0	0.0	0.0	
55.00000	-7.00000	19.50000	0.15254	19.083	0.0			



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Dr. Ref.		
Made by	Date	Checked
MP		

Name	Location		Z [Level] [mm]	Z [mm]	Calc Level [mOD]	Stresses		
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
-16.00000	-6.00000	19.50000	0.16870	19.083	0.0	0.0	0.0	
-15.00000	-6.00000	19.50000	0.16396	19.083	0.0	0.0	0.0	
-14.00000	-6.00000	19.50000	0.15713	19.083	0.0	0.0	0.0	
-13.00000	-6.00000	19.50000	0.14785	19.083	0.0	0.0	0.0	
-12.00000	-6.00000	19.50000	0.13569	19.083	0.0	0.0	0.0	
-11.00000	-6.00000	19.50000	0.12016	19.083	0.0	0.0	0.0	
-10.00000	-6.00000	19.50000	0.10075	19.083	0.0	0.0	0.0	
-9.00000	-6.00000	19.50000	0.076891	19.083	0.0	0.0	0.0	
-8.00000	-6.00000	19.50000	0.047982	19.083	0.0	0.0	0.0	
-7.00000	-6.00000	19.50000	0.013434	19.083	0.0	0.0	0.0	
-6.00000	-6.00000	19.50000	-0.027621	19.083	0.0	0.0	0.0	
-5.00000	-6.00000	19.50000	-0.074599	19.083	0.0	0.0	0.0	
-4.00000	-6.00000	19.50000	-0.12865	19.083	0.0	0.0	0.0	
-3.00000	-6.00000	19.50000	-0.18923	19.083	0.0	0.0	0.0	
-2.00000	-6.00000	19.50000	-0.25554	19.083	0.0	0.0	0.0	
-1.00000	-6.00000	19.50000	-0.32618	19.083	0.0	0.0	0.0	
0.00000	-6.00000	19.50000	-0.39906	19.083	0.0	0.0	0.0	
1.00000	-6.00000	19.50000	-0.47175	19.083	0.0	0.0	0.0	
2.00000	-6.00000	19.50000	-0.54176	19.083	0.0	0.0	0.0	
3.00000	-6.00000	19.50000	-0.60700	19.083	0.0	0.0	0.0	
4.00000	-6.00000	19.50000	-0.66598	19.083	0.0	0.0	0.0	
5.00000	-6.00000	19.50000	-0.71781	19.083	0.0	0.0	0.0	
6.00000	-6.00000	19.50000	-0.76215	19.083	0.0	0.0	0.0	
7.00000	-6.00000	19.50000	-0.79901	19.083	0.0	0.0	0.0	
8.00000	-6.00000	19.50000	-0.82859	19.083	0.0	0.0	0.0	
9.00000	-6.00000	19.50000	-0.85122	19.083	0.0	0.0	0.0	
10.00000	-6.00000	19.50000	-0.86724	19.083	0.0	0.0	0.0	
11.00000	-6.00000	19.50000	-0.87694	19.083	0.0	0.0	0.0	
12.00000	-6.00000	19.50000	-0.88060	19.083	0.0	0.0	0.0	
13.00000	-6.00000	19.50000	-0.87842	19.083	0.0	0.0	0.0	
14.00000	-6.00000	19.50000	-0.87056	19.083	0.0	0.0	0.0	
15.00000	-6.00000	19.50000	-0.85717	19.083	0.0	0.0	0.0	
16.00000	-6.00000	19.50000	-0.83845	19.083	0.0	0.0	0.0	
17.00000	-6.00000	19.50000	-0.81468	19.083	0.0	0.0	0.0	
18.00000	-6.00000	19.50000	-0.78635	19.083	0.0	0.0	0.0	
19.00000	-6.00000	19.50000	-0.75413	19.083	0.0	0.0	0.0	
20.00000	-6.00000	19.50000	-0.71892	19.083	0.0	0.0	0.0	
21.00000	-6.00000	19.50000	-0.68175	19.083	0.0	0.0	0.0	
22.00000	-6.00000	19.50000	-0.64355	19.083	0.0	0.0	0.0	
23.00000	-6.00000	19.50000	-0.60508	19.083	0.0	0.0	0.0	
24.00000	-6.00000	19.50000	-0.56674	19.083	0.0	0.0	0.0	
25.00000	-6.00000	19.50000	-0.52863	19.083	0.0	0.0	0.0	
26.00000	-6.00000	19.50000	-0.49056	19.083	0.0	0.0	0.0	
27.00000	-6.00000	19.50000	-0.45217	19.083	0.0	0.0	0.0	
28.00000	-6.00000	19.50000	-0.41303	19.083	0.0	0.0	0.0	
29.00000	-6.00000	19.50000	-0.37268	19.083	0.0	0.0	0.0	
30.00000	-6.00000	19.50000	-0.33079	19.083	0.0	0.0	0.0	
31.00000	-6.00000	19.50000	-0.28723	19.083	0.0	0.0	0.0	
32.00000	-6.00000	19.50000	-0.24219	19.083	0.0	0.0	0.0	
33.00000	-6.00000	19.50000	-0.19623	19.083	0.0	0.0	0.0	
34.00000	-6.00000	19.50000	-0.15029	19.083	0.0	0.0	0.0	
35.00000	-6.00000	19.50000	-0.10551	19.083	0.0	0.0	0.0	
36.00000	-6.00000	19.50000	-0.063098	19.083	0.0	0.0	0.0	
37.00000	-6.00000	19.50000	-0.024032	19.083	0.0	0.0	0.0	
38.00000	-6.00000	19.50000	0.011033	19.083	0.0	0.0	0.0	
39.00000	-6.00000	19.50000	0.041788	19.083	0.0	0.0	0.0	
40.00000	-6.00000	19.50000	0.068218	19.083	0.0	0.0	0.0	
41.00000	-6.00000	19.50000	0.090507	19.083	0.0	0.0	0.0	
42.00000	-6.00000	19.50000	0.10897	19.083	0.0	0.0	0.0	
43.00000	-6.00000	19.50000	0.123977	19.083	0.0	0.0	0.0	
44.00000	-6.00000	19.50000	0.13590	19.083	0.0	0.0	0.0	
45.00000	-6.00000	19.50000	0.14516	19.083	0.0	0.0	0.0	
46.00000	-6.00000	19.50000	0.15209	19.083	0.0	0.0	0.0	
47.00000	-6.00000	19.50000	0.15703	19.083	0.0	0.0	0.0	
48.00000	-6.00000	19.50000	0.16029	19.083	0.0	0.0	0.0	
49.00000	-6.00000	19.50000	0.16211	19.083	0.0	0.0	0.0	
50.00000	-6.00000	19.50000	0.16274	19.083	0.0	0.0	0.0	
51.00000	-6.00000	19.50000	0.16237	19.083	0.0	0.0	0.0	
52.00000	-6.00000	19.50000	0.16118	19.083	0.0	0.0	0.0	
53.00000	-6.00000	19.50000	0.15932	19.083	0.0	0.0	0.0	
54.00000	-6.00000	19.50000	0.15692	19.083	0.0	0.0	0.0	
55.00000	-6.00000	19.50000	0.15408	19.083	0.0	0.0	0.0	
-25.00000	-5.00000	19.50000	0.16131	19.083	0.0	0.0	0.0	
-24.00000	-5.00000	19.50000	0.16475	19.083	0.0	0.0	0.0	
-23.00000	-5.00000	19.50000	0.16781	19.083	0.0	0.0	0.0	
-22.00000	-5.00000	19.50000	0.17038	19.083	0.0	0.0	0.0	
-21.00000	-5.00000	19.50000	0.17233	19.083	0.0	0.0	0.0	
-20.00000	-5.00000	19.50000	0.17352	19.083	0.0	0.0	0.0	
-19.00000	-5.00000	19.50000	0.17376	19.083	0.0	0.0	0.0	
-18.00000	-5.00000	19.50000	0.17283	19.083	0.0	0.0	0.0	
-17.00000	-5.00000	19.50000	0.17050	19.083	0.0	0.0	0.0	
-16.00000	-5.00000	19.50000	0.16647	19.083	0.0	0.0	0.0	
-15.00000	-5.00000	19.50000	0.16040	19.083	0.0	0.0	0.0	
-14.00000	-5.00000	19.50000	0.15189	19.083	0.0	0.0	0.0	
-13.00000	-5.00000	19.50000	0.14048	19.083	0.0	0.0	0.0	
-12.00000	-5.00000	19.50000	0.12564	19.083	0.0	0.0	0.0	
-11.00000	-5.00000	19.50000	0.10675	19.083	0.0	0.0	0.0	
-10.00000	-5.00000	19.50000	0.083139	19.083	0.0	0.0	0.0	
-9.00000	-5.00000	19.50000	0.054020	19.083	0.0	0.0	0.0	
-8.00000	-5.00000	19.50000	0.018550	19.083	0.0	0.0	0.0	
-7.00000	-5.00000	19.50000	-0.024165	19.083	0.0	0.0	0.0	
-6.00000	-5.00000	19.50000	-0.075015	19.083	0.0	0.0	0.0	
-5.00000	-5.00000	19.50000	-0.13479	19.083	0.0	0.0	0.0	
-4.00000	-5.00000	19.50000	-0.20403	19.083	0.0	0.0	0.0	
-3.00000	-5.00000	19.50000	-0.28278	19.083	0.0	0.0	0.0	
-2.00000	-5.00000	19.50000	-0.37023	19.083	0.0	0.0	0.0	
-1.00000	-5.00000	19.50000	-0.46450	19.083	0.0	0.0	0.0	
0.00000	-5.00000	19.50000	-0.56246	19.083	0.0	0.0	0.0	
1.00000	-5.00000	19.50000	-0.66017	19.083	0.0	0.0	0.0	
2.00000	-5.00000	19.50000	-0.75366	19.083	0.0	0.0	0.0	
3.00000	-5.00000	19.50000	-0.83977	19.083	0.0	0.0	0.0	
4.00000	-5.00000	19.50000	-0.91652	19.083	0.0	0.0	0.0	
5.00000	-5.00000	19.50000	-0.98299	19.083	0.0	0.0	0.0	
6.00000	-5.00000	19.50000	-1.0391	19.083	0.0	0.0	0.0	
7.00000	-5.00000	19.50000	-1.0851	19.083	0.0	0.0	0.0	
8.00000	-5.00000	19.50000	-1.1217	19.083	0.0	0.0	0.0	
9.00000	-5.00000	19.50000	-1.1494	19.083	0.0	0.0	0.0	
10.00000	-5.00000	19.50000	-1.1688	19.083	0.0	0.0	0.0	
11.00000	-5.00000	19.50000	-1.1803	19.083	0.0	0.0	0.0	
12.00000	-5.00000	19.50000	-1.1843	19.083	0.0	0.0	0.0	
13.00000	-5.00000	19.50000	-1.1811	19.083	0.0	0.0	0.0	
14.00000	-5.00000	19.50000	-1.1707	19.083	0.0	0.0	0.0	
15.00000	-5.00000	19.50000	-1.1532	19.083	0.0	0.0	0.0	
16.00000	-5.00000	19.50000	-1.1288	19.083	0.0	0.0	0.0	
17.00000	-5.00000	19.50000	-1.0977	19.083	0.0	0.0	0.0	
18.00000	-5.00000	19.50000	-1.0603	19.083	0.0	0.0	0.0	
19.00000	-5.00000	19.50000	-1.0176	19.083	0.0	0.0	0.0	
20.00000	-5.00000	19.50000	-0.97086	19.083	0.0	0.0	0.0	
21.00000	-5.00000	19.50000	-0.92183	19.083	0.0	0.0	0.0	
22.00000	-5.00000	19.50000	-0.87203	19.083	0.0	0.0	0.0	
23.00000	-5.00000	19.50000	-0.82260	19.083	0.0	0.0	0.0	
24.00000	-5.00000	19.50000	-0.77408	19.083	0.0	0.0	0.0	
25.00000	-5.00000	19.50000	-0.72646	19.083	0.0	0.0	0.0	
26.00000	-5.00000	19.50000	-0.67931	19.083	0.0	0.0	0.0	
27.00000	-5.00000	19.50000	-0.63193	19.083	0.0	0.0	0.0	
28.00000	-5.00000	19.50000	-0.58353	19.083	0.0	0.0	0.0	
29.00000	-5.00000	19.50000	-0.53329	19.083	0.0	0.0	0.0	
30.00000	-5.00000	19.50000	-0.48053	19.083	0.0	0.0	0.0	
31.00000	-5.00000	19.50000	-0.42487	19.083	0.0	0.0	0.0	
32.00000	-5.00000	19.50000	-0.36641	19.083	0.0	0.0	0.0	
33.00000	-5.00000	19.50000	-0.30591	19.083	0.0	0.0	0.0	
34.00000	-5.00000	19.50000	-0.24481	19.083	0.0	0.0	0.0	



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Dr. Ref.		
Made by	Date	Checked
MP		

Name	Location		Z [Level] [mm]	Z [mm]	Calc Level [mOD]	Stresses		
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
44.00000	-5.00000	19.50000	0.12688	19.083	0.0	0.0	0.0	
45.00000	-5.00000	19.50000	0.13854	19.083	0.0	0.0	0.0	
46.00000	-5.00000	19.50000	0.14738	19.083	0.0	0.0	0.0	
47.00000	-5.00000	19.50000	0.15384	19.083	0.0	0.0	0.0	
48.00000	-5.00000	19.50000	0.15829	19.083	0.0	0.0	0.0	
49.00000	-5.00000	19.50000	0.16205	19.083	0.0	0.0	0.0	
50.00000	-5.00000	19.50000	0.16241	19.083	0.0	0.0	0.0	
51.00000	-5.00000	19.50000	0.16260	19.083	0.0	0.0	0.0	
52.00000	-5.00000	19.50000	0.16185	19.083	0.0	0.0	0.0	
53.00000	-5.00000	19.50000	0.16031	19.083	0.0	0.0	0.0	
54.00000	-5.00000	19.50000	0.15892	19.083	0.0	0.0	0.0	
55.00000	-5.00000	19.50000	0.15549	19.083	0.0	0.0	0.0	
-25.00000	-4.00000	19.50000	0.16302	19.083	0.0	0.0	0.0	
-24.00000	-4.00000	19.50000	0.16636	19.083	0.0	0.0	0.0	
-23.00000	-4.00000	19.50000	0.16927	19.083	0.0	0.0	0.0	
-22.00000	-4.00000	19.50000	0.17162	19.083	0.0	0.0	0.0	
-21.00000	-4.00000	19.50000	0.17328	19.083	0.0	0.0	0.0	
-20.00000	-4.00000	19.50000	0.17407	19.083	0.0	0.0	0.0	
-19.00000	-4.00000	19.50000	0.17379	19.083	0.0	0.0	0.0	
-18.00000	-4.00000	19.50000	0.17218	19.083	0.0	0.0	0.0	
-17.00000	-4.00000	19.50000	0.16897	19.083	0.0	0.0	0.0	
-16.00000	-4.00000	19.50000	0.16380	19.083	0.0	0.0	0.0	
-15.00000	-4.00000	19.50000	0.15629	19.083	0.0	0.0	0.0	
-14.00000	-4.00000	19.50000	0.14595	19.083	0.0	0.0	0.0	
-13.00000	-4.00000	19.50000	0.13222	19.083	0.0	0.0	0.0	
-12.00000	-4.00000	19.50000	0.11444	19.083	0.0	0.0	0.0	
-11.00000	-4.00000	19.50000	0.091847	19.083	0.0	0.0	0.0	
-10.00000	-4.00000	19.50000	0.063545	19.083	0.0	0.0	0.0	
-9.00000	-4.00000	19.50000	0.028498	19.083	0.0	0.0	0.0	
-8.00000	-4.00000	19.50000	-0.014473	19.083	0.0	0.0	0.0	
-7.00000	-4.00000	19.50000	-0.066685	19.083	0.0	0.0	0.0	
-6.00000	-4.00000	19.50000	-0.12956	19.083	0.0	0.0	0.0	
-5.00000	-4.00000	19.50000	-0.20453	19.083	0.0	0.0	0.0	
-4.00000	-4.00000	19.50000	-0.29286	19.083	0.0	0.0	0.0	
-3.00000	-4.00000	19.50000	-0.39529	19.083	0.0	0.0	0.0	
-2.00000	-4.00000	19.50000	-0.51139	19.083	0.0	0.0	0.0	
-1.00000	-4.00000	19.50000	-0.63883	19.083	0.0	0.0	0.0	
0.00000	-4.00000	19.50000	-0.77276	19.083	0.0	0.0	0.0	
1.00000	-4.00000	19.50000	-0.90637	19.083	0.0	0.0	0.0	
2.00000	-4.00000	19.50000	-1.0329	19.083	0.0	0.0	0.0	
3.00000	-4.00000	19.50000	-1.15473	19.083	0.0	0.0	0.0	
4.00000	-4.00000	19.50000	-1.2473	19.083	0.0	0.0	0.0	
5.00000	-4.00000	19.50000	-1.3323	19.083	0.0	0.0	0.0	
6.00000	-4.00000	19.50000	-1.4028	19.083	0.0	0.0	0.0	
7.00000	-4.00000	19.50000	-1.4599	19.083	0.0	0.0	0.0	
8.00000	-4.00000	19.50000	-1.5046	19.083	0.0	0.0	0.0	
9.00000	-4.00000	19.50000	-1.5382	19.083	0.0	0.0	0.0	
10.00000	-4.00000	19.50000	-1.5613	19.083	0.0	0.0	0.0	
11.00000	-4.00000	19.50000	-1.5749	19.083	0.0	0.0	0.0	
12.00000	-4.00000	19.50000	-1.5792	19.083	0.0	0.0	0.0	
13.00000	-4.00000	19.50000	-1.5745	19.083	0.0	0.0	0.0	
14.00000	-4.00000	19.50000	-1.5610	19.083	0.0	0.0	0.0	
15.00000	-4.00000	19.50000	-1.5384	19.083	0.0	0.0	0.0	
16.00000	-4.00000	19.50000	-1.5067	19.083	0.0	0.0	0.0	
17.00000	-4.00000	19.50000	-1.4658	19.083	0.0	0.0	0.0	
18.00000	-4.00000	19.50000	-1.4161	19.083	0.0	0.0	0.0	
19.00000	-4.00000	19.50000	-1.3586	19.083	0.0	0.0	0.0	
20.00000	-4.00000	19.50000	-1.2956	19.083	0.0	0.0	0.0	
21.00000	-4.00000	19.50000	-1.2299	19.083	0.0	0.0	0.0	
22.00000	-4.00000	19.50000	-1.1642	19.083	0.0	0.0	0.0	
23.00000	-4.00000	19.50000	-1.1004	19.083	0.0	0.0	0.0	
24.00000	-4.00000	19.50000	-1.0390	19.083	0.0	0.0	0.0	
25.00000	-4.00000	19.50000	-0.97977	19.083	0.0	0.0	0.0	
26.00000	-4.00000	19.50000	-0.92182	19.083	0.0	0.0	0.0	
27.00000	-4.00000	19.50000	-0.86388	19.083	0.0	0.0	0.0	
28.00000	-4.00000	19.50000	-0.80457	19.083	0.0	0.0	0.0	
29.00000	-4.00000	19.50000	-0.74250	19.083	0.0	0.0	0.0	
30.00000	-4.00000	19.50000	-0.67638	19.083	0.0	0.0	0.0	
31.00000	-4.00000	19.50000	-0.60531	19.083	0.0	0.0	0.0	
32.00000	-4.00000	19.50000	-0.52905	19.083	0.0	0.0	0.0	
33.00000	-4.00000	19.50000	-0.44851	19.083	0.0	0.0	0.0	
34.00000	-4.00000	19.50000	-0.36606	19.083	0.0	0.0	0.0	
35.00000	-4.00000	19.50000	-0.28519	19.083	0.0	0.0	0.0	
36.00000	-4.00000	19.50000	-0.20943	19.083	0.0	0.0	0.0	
37.00000	-4.00000	19.50000	-0.1327	19.083	0.0	0.0	0.0	
38.00000	-4.00000	19.50000	-0.081809	19.083	0.0	0.0	0.0	
39.00000	-4.00000	19.50000	-0.031112	19.083	0.0	0.0	0.0	
40.00000	-4.00000	19.50000	0.011383	19.083	0.0	0.0	0.0	
41.00000	-4.00000	19.50000	0.046534	19.083	0.0	0.0	0.0	
42.00000	-4.00000	19.50000	0.075193	19.083	0.0	0.0	0.0	
43.00000	-4.00000	19.50000	0.098308	19.083	0.0	0.0	0.0	
44.00000	-4.00000	19.50000	0.11668	19.083	0.0	0.0	0.0	
45.00000	-4.00000	19.50000	0.13102	19.083	0.0	0.0	0.0	
46.00000	-4.00000	19.50000	0.14198	19.083	0.0	0.0	0.0	
47.00000	-4.00000	19.50000	0.15010	19.083	0.0	0.0	0.0	
48.00000	-4.00000	19.50000	0.15585	19.083	0.0	0.0	0.0	
49.00000	-4.00000	19.50000	0.15964	19.083	0.0	0.0	0.0	
50.00000	-4.00000	19.50000	0.16179	19.083	0.0	0.0	0.0	
51.00000	-4.00000	19.50000	0.16260	19.083	0.0	0.0	0.0	
52.00000	-4.00000	19.50000	0.16231	19.083	0.0	0.0	0.0	
53.00000	-4.00000	19.50000	0.16113	19.083	0.0	0.0	0.0	
54.00000	-4.00000	19.50000	0.15924	19.083	0.0	0.0	0.0	
55.00000	-4.00000	19.50000	0.15677	19.083	0.0	0.0	0.0	
-25.00000	-3.00000	19.50000	0.16461	19.083	0.0	0.0	0.0	
-24.00000	-3.00000	19.50000	0.16784	19.083	0.0	0.0	0.0	
-23.00000	-3.00000	19.50000	0.17058	19.083	0.0	0.0	0.0	
-22.00000	-3.00000	19.50000	0.17271	19.083	0.0	0.0	0.0	
-21.00000	-3.00000	19.50000	0.17406	19.083	0.0	0.0	0.0	
-20.00000	-3.00000	19.50000	0.17442	19.083	0.0	0.0	0.0	
-19.00000	-3.00000	19.50000	0.17358	19.083	0.0	0.0	0.0	
-18.00000	-3.00000	19.50000	0.17125	19.083	0.0	0.0	0.0	
-17.00000	-3.00000	19.50000	0.16710	19.083	0.0	0.0	0.0	
-16.00000	-3.00000	19.50000	0.16074	19.083	0.0	0.0	0.0	
-15.00000	-3.00000	19.50000	0.15169	19.083	0.0	0.0	0.0	
-14.00000	-3.00000	19.50000	0.13993	19.083	0.0	0.0	0.0	
-13.00000	-3.00000	19.50000	0.12317	19.083	0.0	0.0	0.0	
-12.00000	-3.00000	19.50000	0.10223	19.083	0.0	0.0	0.0	
-11.00000	-3.00000	19.50000	0.075610	19.083	0.0	0.0	0.0	
-10.00000	-3.00000	19.50000	0.042176	19.083	0.0	0.0	0.0	
-9.00000	-3.00000	19.50000	571.73E-6	19.083	0.0	0.0	0.0	
-8.00000	-3.00000	19.50000	-0.050805	19.083	0.0	0.0	0.0	
-7.00000	-3.00000	19.50000	-0.11384	19.083	0.0	0.0	0.0	
-6.00000	-3.00000	19.50000	-0.19071	19.083	0.0	0.0	0.0	
-5.00000	-3.00000	19.50000	-0.28386	19.083	0.0	0.0	0.0	
-4.00000	-3.00000	19.50000	-0.39589	19.083	0.0	0.0	0.0	
-3.00000	-3.00000	19.50000	-0.52910	19.083	0.0	0.0	0.0	
-2.00000	-3.00000	19.50000	-0.68458	19.083	0.0	0.0	0.0	
-1.00000	-3.00000	19.50000	-0.86029	19.083	0.0	0.0	0.0	
0.00000	-3.00000	19.50000	-1.0486	19.083	0.0	0.0	0.0	
1.00000	-3.00000	19.50000	-1.2366	19.083	0.0	0.0	0.0	
2.00000	-3.00000	19.50000	-1.4112	19.083	0.0	0.0	0.0	
3.00000	-3.00000	19.50000	-1.5647	19.083	0.0	0.0	0.0	
4.00000	-3.00000	19.50000	-1.6951	19.083	0.0	0.0	0.0	
5.00000	-3.00000	19.50000	-1.8031	19.083	0.0	0.0	0.0	
6.00000	-3.00000	19.50000	-1.8910	19.083	0.0	0.0	0.0	
7.00000	-3.00000	19.50000	-1.9609	19.083	0.0	0.0	0.0	
8.00000	-3.00000	19.50000	-2.0151	19.083	0.0	0.0	0.0	
9.00000	-3.00000	19.50000	-2.0552	19.083	0.0	0.0	0.0	
10.00000	-3.00000	19.50000	-2.0827	19.083	0.0	0.0	0.0	
11.00000	-3.00000	19.50000	-2.0983	19.083	0.0	0.0	0.0	
12.00000	-3.00000	19.50000	-2.1029	19.083	0.0	0.0	0.0	
13.00000	-3.00000	19.50000	-2.0965	19.083	0.0	0.0	0.0	
14.00000	-3							



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Dr. Ref.		
Made by	Date	Checked
MP		

Name	Location		Z [Level] [mm]	Z [mm]	Calc Level [mOD]	Stresses		
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
23.00000	-3.00000	19.50000	-1.4605	19.083	0.0	0.0	0.0	
24.00000	-3.00000	19.50000	-1.3829	19.083	0.0	0.0	0.0	
25.00000	-3.00000	19.50000	-1.3097	19.083	0.0	0.0	0.0	
26.00000	-3.00000	19.50000	-1.2392	19.083	0.0	0.0	0.0	
27.00000	-3.00000	19.50000	-1.1691	19.083	0.0	0.0	0.0	
28.00000	-3.00000	19.50000	-1.0972	19.083	0.0	0.0	0.0	
29.00000	-3.00000	19.50000	-1.0212	19.083	0.0	0.0	0.0	
30.00000	-3.00000	19.50000	-0.9388	19.083	0.0	0.0	0.0	
31.00000	-3.00000	19.50000	-0.8481	19.083	0.0	0.0	0.0	
32.00000	-3.00000	19.50000	-0.7479	19.083	0.0	0.0	0.0	
33.00000	-3.00000	19.50000	-0.6385	19.083	0.0	0.0	0.0	
34.00000	-3.00000	19.50000	-0.5245	19.083	0.0	0.0	0.0	
35.00000	-3.00000	19.50000	-0.4120	19.083	0.0	0.0	0.0	
36.00000	-3.00000	19.50000	-0.3083	19.083	0.0	0.0	0.0	
37.00000	-3.00000	19.50000	-0.2174	19.083	0.0	0.0	0.0	
38.00000	-3.00000	19.50000	-0.1402	19.083	0.0	0.0	0.0	
39.00000	-3.00000	19.50000	-0.0758	19.083	0.0	0.0	0.0	
40.00000	-3.00000	19.50000	-0.0228	19.083	0.0	0.0	0.0	
41.00000	-3.00000	19.50000	0.0203	19.083	0.0	0.0	0.0	
42.00000	-3.00000	19.50000	0.0553	19.083	0.0	0.0	0.0	
43.00000	-3.00000	19.50000	0.0892	19.083	0.0	0.0	0.0	
44.00000	-3.00000	19.50000	0.1054	19.083	0.0	0.0	0.0	
45.00000	-3.00000	19.50000	0.1227	19.083	0.0	0.0	0.0	
46.00000	-3.00000	19.50000	0.1359	19.083	0.0	0.0	0.0	
47.00000	-3.00000	19.50000	0.1458	19.083	0.0	0.0	0.0	
48.00000	-3.00000	19.50000	0.1503	19.083	0.0	0.0	0.0	
49.00000	-3.00000	19.50000	0.1579	19.083	0.0	0.0	0.0	
50.00000	-3.00000	19.50000	0.1609	19.083	0.0	0.0	0.0	
51.00000	-3.00000	19.50000	0.1623	19.083	0.0	0.0	0.0	
52.00000	-3.00000	19.50000	0.1625	19.083	0.0	0.0	0.0	
53.00000	-3.00000	19.50000	0.1617	19.083	0.0	0.0	0.0	
54.00000	-3.00000	19.50000	0.1601	19.083	0.0	0.0	0.0	
55.00000	-3.00000	19.50000	0.1579	19.083	0.0	0.0	0.0	
-25.00000	-2.00000	19.50000	0.1660	19.083	0.0	0.0	0.0	
-24.00000	-2.00000	19.50000	0.1691	19.083	0.0	0.0	0.0	
-23.00000	-2.00000	19.50000	0.1717	19.083	0.0	0.0	0.0	
-22.00000	-2.00000	19.50000	0.1736	19.083	0.0	0.0	0.0	
-21.00000	-2.00000	19.50000	0.1746	19.083	0.0	0.0	0.0	
-20.00000	-2.00000	19.50000	0.1745	19.083	0.0	0.0	0.0	
-19.00000	-2.00000	19.50000	0.1731	19.083	0.0	0.0	0.0	
-18.00000	-2.00000	19.50000	0.1708	19.083	0.0	0.0	0.0	
-17.00000	-2.00000	19.50000	0.1649	19.083	0.0	0.0	0.0	
-16.00000	-2.00000	19.50000	0.1573	19.083	0.0	0.0	0.0	
-15.00000	-2.00000	19.50000	0.1468	19.083	0.0	0.0	0.0	
-14.00000	-2.00000	19.50000	0.1322	19.083	0.0	0.0	0.0	
-13.00000	-2.00000	19.50000	0.1148	19.083	0.0	0.0	0.0	
-12.00000	-2.00000	19.50000	0.0891	19.083	0.0	0.0	0.0	
-11.00000	-2.00000	19.50000	0.0582	19.083	0.0	0.0	0.0	
-10.00000	-2.00000	19.50000	0.0193	19.083	0.0	0.0	0.0	
-9.00000	-2.00000	19.50000	-0.0255	19.083	0.0	0.0	0.0	
-8.00000	-2.00000	19.50000	-0.0892	19.083	0.0	0.0	0.0	
-7.00000	-2.00000	19.50000	-0.1649	19.083	0.0	0.0	0.0	
-6.00000	-2.00000	19.50000	-0.2577	19.083	0.0	0.0	0.0	
-5.00000	-2.00000	19.50000	-0.3720	19.083	0.0	0.0	0.0	
-4.00000	-2.00000	19.50000	-0.5127	19.083	0.0	0.0	0.0	
-3.00000	-2.00000	19.50000	-0.6852	19.083	0.0	0.0	0.0	
-2.00000	-2.00000	19.50000	-0.8929	19.083	0.0	0.0	0.0	
-1.00000	-2.00000	19.50000	-1.1447	19.083	0.0	0.0	0.0	
0.00000	-2.00000	19.50000	-1.4230	19.083	0.0	0.0	0.0	
1.00000	-2.00000	19.50000	-1.7009	19.083	0.0	0.0	0.0	
2.00000	-2.00000	19.50000	-1.9490	19.083	0.0	0.0	0.0	
3.00000	-2.00000	19.50000	-2.1567	19.083	0.0	0.0	0.0	
4.00000	-2.00000	19.50000	-2.3260	19.083	0.0	0.0	0.0	
5.00000	-2.00000	19.50000	-2.4620	19.083	0.0	0.0	0.0	
6.00000	-2.00000	19.50000	-2.5702	19.083	0.0	0.0	0.0	
7.00000	-2.00000	19.50000	-2.6548	19.083	0.0	0.0	0.0	
8.00000	-2.00000	19.50000	-2.7195	19.083	0.0	0.0	0.0	
9.00000	-2.00000	19.50000	-2.7669	19.083	0.0	0.0	0.0	
10.00000	-2.00000	19.50000	-2.7990	19.083	0.0	0.0	0.0	
11.00000	-2.00000	19.50000	-2.8169	19.083	0.0	0.0	0.0	
12.00000	-2.00000	19.50000	-2.8216	19.083	0.0	0.0	0.0	
13.00000	-2.00000	19.50000	-2.8131	19.083	0.0	0.0	0.0	
14.00000	-2.00000	19.50000	-2.7910	19.083	0.0	0.0	0.0	
15.00000	-2.00000	19.50000	-2.7546	19.083	0.0	0.0	0.0	
16.00000	-2.00000	19.50000	-2.7022	19.083	0.0	0.0	0.0	
17.00000	-2.00000	19.50000	-2.6319	19.083	0.0	0.0	0.0	
18.00000	-2.00000	19.50000	-2.5416	19.083	0.0	0.0	0.0	
19.00000	-2.00000	19.50000	-2.4304	19.083	0.0	0.0	0.0	
20.00000	-2.00000	19.50000	-2.3030	19.083	0.0	0.0	0.0	
21.00000	-2.00000	19.50000	-2.1719	19.083	0.0	0.0	0.0	
22.00000	-2.00000	19.50000	-2.0498	19.083	0.0	0.0	0.0	
23.00000	-2.00000	19.50000	-1.9406	19.083	0.0	0.0	0.0	
24.00000	-2.00000	19.50000	-1.8428	19.083	0.0	0.0	0.0	
25.00000	-2.00000	19.50000	-1.7533	19.083	0.0	0.0	0.0	
26.00000	-2.00000	19.50000	-1.6803	19.083	0.0	0.0	0.0	
27.00000	-2.00000	19.50000	-1.6246	19.083	0.0	0.0	0.0	
28.00000	-2.00000	19.50000	-1.5845	19.083	0.0	0.0	0.0	
29.00000	-2.00000	19.50000	-1.5566	19.083	0.0	0.0	0.0	
30.00000	-2.00000	19.50000	-1.5350	19.083	0.0	0.0	0.0	
31.00000	-2.00000	19.50000	-1.5197	19.083	0.0	0.0	0.0	
32.00000	-2.00000	19.50000	-1.5059	19.083	0.0	0.0	0.0	
33.00000	-2.00000	19.50000	-1.4947	19.083	0.0	0.0	0.0	
34.00000	-2.00000	19.50000	-1.4858	19.083	0.0	0.0	0.0	
35.00000	-2.00000	19.50000	-1.4788	19.083	0.0	0.0	0.0	
36.00000	-2.00000	19.50000	-1.4737	19.083	0.0	0.0	0.0	
37.00000	-2.00000	19.50000	-1.4699	19.083	0.0	0.0	0.0	
38.00000	-2.00000	19.50000	-1.4671	19.083	0.0	0.0	0.0	
39.00000	-2.00000	19.50000	-1.4650	19.083	0.0	0.0	0.0	
40.00000	-2.00000	19.50000	-1.4639	19.083	0.0	0.0	0.0	
41.00000	-2.00000	19.50000	-1.4636	19.083	0.0	0.0	0.0	
42.00000	-2.00000	19.50000	-1.4642	19.083	0.0	0.0	0.0	
43.00000	-2.00000	19.50000	-1.4652	19.083	0.0	0.0	0.0	
44.00000	-2.00000	19.50000	-1.4664	19.083	0.0	0.0	0.0	
45.00000	-2.00000	19.50000	-1.4677	19.083	0.0	0.0	0.0	
46.00000	-2.00000	19.50000	-1.4691	19.083	0.0	0.0	0.0	
47.00000	-2.00000	19.50000	-1.4705	19.083	0.0	0.0	0.0	
48.00000	-2.00000	19.50000	-1.4719	19.083	0.0	0.0	0.0	
49.00000	-2.00000	19.50000	-1.4732	19.083	0.0	0.0	0.0	
50.00000	-2.00000	19.50000	-1.4745	19.083	0.0	0.0	0.0	
51.00000	-2.00000	19.50000	-1.4757	19.083	0.0	0.0	0.0	
52.00000	-2.00000	19.50000	-1.4769	19.083	0.0	0.0	0.0	
53.00000	-2.00000	19.50000	-1.4779	19.083	0.0	0.0	0.0	
54.00000	-2.00000	19.50000	-1.4788	19.083	0.0	0.0	0.0	
55.00000	-2.00000	19.50000	-1.4793	19.083	0.0	0.0	0.0	
-25.00000	-1.00000	19.50000	0.1674	19.083	0.0	0.0	0.0	
-24.00000	-1.00000	19.50000	0.1704	19.083	0.0	0.0	0.0	
-23.00000	-1.00000	19.50000	0.1728	19.083	0.0	0.0	0.0	
-22.00000	-1.00000	19.50000	0.1744	19.083	0.0	0.0	0.0	
-21.00000	-1.00000	19.50000	0.1751	19.083	0.0	0.0	0.0	
-20.00000	-1.00000	19.50000	0.1745	19.083	0.0	0.0	0.0	
-19.00000	-1.00000	19.50000	0.1725	19.083	0.0	0.0	0.0	
-18.00000	-1.00000	19.50000	0.1687	19.083	0.0	0.0	0.0	
-17.00000	-1.00000	19.50000	0.1628	19.083	0.0	0.0	0.0	
-16.00000	-1.00000	19.50000	0.1536	19.083	0.0	0.0	0.0	
-15.00000	-1.00000	19.50000	0.1415	19.083	0.0	0.0	0.0	
-14.00000	-1.00000	19.50000	0.1248	19.083	0.0	0.0	0.0	
-13.00000	-1.00000	19.50000	0.1033	19.083	0.0	0.0	0.0	
-12.00000	-1.00000	19.50000	0.0753	19.083	0.0	0.0	0.0	
-11.00000	-1.00000	19.50000	0.0416	19.083	0.0	0.0	0.0	
-10.00000	-1.00000	19.50000	-0.0045	19.083	0.0	0.0	0.0	
-9.00000	-1.00000	19.50000	-0.0607	19.083	0.0	0.0	0.0	
-8.00000	-1.00000	19.50000	-0.1310	19.083	0.0	0.0	0.0	
-7.00000	-1.00000	19.50000	-0.2190	19.083	0.0	0.0	0.0	
-6.00000	-1.00000</							



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Dr. Ref.		
Made by	Date	Checked
MP		

Name	Location		Z [Level] [mm]	Z [mm]	Calc Level [mOD]	Stresses		
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
2.00000	-1.00000	19.50000	-2.7820	19.083	0.0	0.0	0.0	
3.00000	-1.00000	19.50000	-3.0631	19.083	0.0	0.0	0.0	
4.00000	-1.00000	19.50000	-3.2802	19.083	0.0	0.0	0.0	
5.00000	-1.00000	19.50000	-3.4488	19.083	0.0	0.0	0.0	
6.00000	-1.00000	19.50000	-3.5797	19.083	0.0	0.0	0.0	
7.00000	-1.00000	19.50000	-3.6805	19.083	0.0	0.0	0.0	
8.00000	-1.00000	19.50000	-3.7566	19.083	0.0	0.0	0.0	
9.00000	-1.00000	19.50000	-3.8118	19.083	0.0	0.0	0.0	
10.00000	-1.00000	19.50000	-3.8487	19.083	0.0	0.0	0.0	
11.00000	-1.00000	19.50000	-3.8690	19.083	0.0	0.0	0.0	
12.00000	-1.00000	19.50000	-3.8737	19.083	0.0	0.0	0.0	
13.00000	-1.00000	19.50000	-3.8628	19.083	0.0	0.0	0.0	
14.00000	-1.00000	19.50000	-3.8356	19.083	0.0	0.0	0.0	
15.00000	-1.00000	19.50000	-3.7906	19.083	0.0	0.0	0.0	
16.00000	-1.00000	19.50000	-3.7249	19.083	0.0	0.0	0.0	
17.00000	-1.00000	19.50000	-3.6341	19.083	0.0	0.0	0.0	
18.00000	-1.00000	19.50000	-3.5138	19.083	0.0	0.0	0.0	
19.00000	-1.00000	19.50000	-3.3491	19.083	0.0	0.0	0.0	
20.00000	-1.00000	19.50000	-3.1448	19.083	0.0	0.0	0.0	
21.00000	-1.00000	19.50000	-2.9364	19.083	0.0	0.0	0.0	
22.00000	-1.00000	19.50000	-2.7612	19.083	0.0	0.0	0.0	
23.00000	-1.00000	19.50000	-2.6175	19.083	0.0	0.0	0.0	
24.00000	-1.00000	19.50000	-2.4956	19.083	0.0	0.0	0.0	
25.00000	-1.00000	19.50000	-2.3874	19.083	0.0	0.0	0.0	
26.00000	-1.00000	19.50000	-2.2866	19.083	0.0	0.0	0.0	
27.00000	-1.00000	19.50000	-2.1881	19.083	0.0	0.0	0.0	
28.00000	-1.00000	19.50000	-2.0867	19.083	0.0	0.0	0.0	
29.00000	-1.00000	19.50000	-1.9771	19.083	0.0	0.0	0.0	
30.00000	-1.00000	19.50000	-1.8536	19.083	0.0	0.0	0.0	
31.00000	-1.00000	19.50000	-1.7095	19.083	0.0	0.0	0.0	
32.00000	-1.00000	19.50000	-1.5322	19.083	0.0	0.0	0.0	
33.00000	-1.00000	19.50000	-1.3124	19.083	0.0	0.0	0.0	
34.00000	-1.00000	19.50000	-1.0470	19.083	0.0	0.0	0.0	
35.00000	-1.00000	19.50000	-0.78393	19.083	0.0	0.0	0.0	
36.00000	-1.00000	19.50000	-0.57117	19.083	0.0	0.0	0.0	
37.00000	-1.00000	19.50000	-0.40688	19.083	0.0	0.0	0.0	
38.00000	-1.00000	19.50000	-0.27932	19.083	0.0	0.0	0.0	
39.00000	-1.00000	19.50000	-0.17937	19.083	0.0	0.0	0.0	
40.00000	-1.00000	19.50000	-0.10055	19.083	0.0	0.0	0.0	
41.00000	-1.00000	19.50000	-0.03221	19.083	0.0	0.0	0.0	
42.00000	-1.00000	19.50000	0.011068	19.083	0.0	0.0	0.0	
43.00000	-1.00000	19.50000	0.049948	19.083	0.0	0.0	0.0	
44.00000	-1.00000	19.50000	0.080459	19.083	0.0	0.0	0.0	
45.00000	-1.00000	19.50000	0.10421	19.083	0.0	0.0	0.0	
46.00000	-1.00000	19.50000	0.12247	19.083	0.0	0.0	0.0	
47.00000	-1.00000	19.50000	0.13627	19.083	0.0	0.0	0.0	
48.00000	-1.00000	19.50000	0.14644	19.083	0.0	0.0	0.0	
49.00000	-1.00000	19.50000	0.15366	19.083	0.0	0.0	0.0	
50.00000	-1.00000	19.50000	0.15847	19.083	0.0	0.0	0.0	
51.00000	-1.00000	19.50000	0.16194	19.083	0.0	0.0	0.0	
52.00000	-1.00000	19.50000	0.16463	19.083	0.0	0.0	0.0	
53.00000	-1.00000	19.50000	0.16665	19.083	0.0	0.0	0.0	
54.00000	-1.00000	19.50000	0.16685	19.083	0.0	0.0	0.0	
55.00000	-1.00000	19.50000	0.15983	19.083	0.0	0.0	0.0	
-25.00000	0.00000	19.50000	0.16668	19.083	0.0	0.0	0.0	
-24.00000	0.00000	19.50000	0.17154	19.083	0.0	0.0	0.0	
-23.00000	0.00000	19.50000	0.17374	19.083	0.0	0.0	0.0	
-22.00000	0.00000	19.50000	0.17512	19.083	0.0	0.0	0.0	
-21.00000	0.00000	19.50000	0.17544	19.083	0.0	0.0	0.0	
-20.00000	0.00000	19.50000	0.17445	19.083	0.0	0.0	0.0	
-19.00000	0.00000	19.50000	0.17183	19.083	0.0	0.0	0.0	
-18.00000	0.00000	19.50000	0.16717	19.083	0.0	0.0	0.0	
-17.00000	0.00000	19.50000	0.16002	19.083	0.0	0.0	0.0	
-16.00000	0.00000	19.50000	0.14980	19.083	0.0	0.0	0.0	
-15.00000	0.00000	19.50000	0.13580	19.083	0.0	0.0	0.0	
-14.00000	0.00000	19.50000	0.11717	19.083	0.0	0.0	0.0	
-13.00000	0.00000	19.50000	0.092851	19.083	0.0	0.0	0.0	
-12.00000	0.00000	19.50000	0.061534	19.083	0.0	0.0	0.0	
-11.00000	0.00000	19.50000	0.021594	19.083	0.0	0.0	0.0	
-10.00000	0.00000	19.50000	-0.020211	19.083	0.0	0.0	0.0	
-9.00000	0.00000	19.50000	-0.092872	19.083	0.0	0.0	0.0	
-8.00000	0.00000	19.50000	-0.17332	19.083	0.0	0.0	0.0	
-7.00000	0.00000	19.50000	-0.27472	19.083	0.0	0.0	0.0	
-6.00000	0.00000	19.50000	-0.40293	19.083	0.0	0.0	0.0	
-5.00000	0.00000	19.50000	-0.56607	19.083	0.0	0.0	0.0	
-4.00000	0.00000	19.50000	-0.77600	19.083	0.0	0.0	0.0	
-3.00000	0.00000	19.50000	-1.0514	19.083	0.0	0.0	0.0	
-2.00000	0.00000	19.50000	-1.4251	19.083	0.0	0.0	0.0	
-1.00000	0.00000	19.50000	-1.9660	19.083	0.0	0.0	0.0	
0.00000	0.00000	19.50000	-2.9703	19.083	0.0	0.0	0.0	
1.00000	0.00000	19.50000	-3.9740	19.083	0.0	0.0	0.0	
2.00000	0.00000	19.50000	-4.5132	19.083	0.0	0.0	0.0	
3.00000	0.00000	19.50000	-4.8840	19.083	0.0	0.0	0.0	
4.00000	0.00000	19.50000	-5.1550	19.083	0.0	0.0	0.0	
5.00000	0.00000	19.50000	-5.3589	19.083	0.0	0.0	0.0	
6.00000	0.00000	19.50000	-5.5141	19.083	0.0	0.0	0.0	
7.00000	0.00000	19.50000	-5.6318	19.083	0.0	0.0	0.0	
8.00000	0.00000	19.50000	-5.7198	19.083	0.0	0.0	0.0	
9.00000	0.00000	19.50000	-5.7830	19.083	0.0	0.0	0.0	
10.00000	0.00000	19.50000	-5.8249	19.083	0.0	0.0	0.0	
11.00000	0.00000	19.50000	-5.8477	19.083	0.0	0.0	0.0	
12.00000	0.00000	19.50000	-5.8524	19.083	0.0	0.0	0.0	
13.00000	0.00000	19.50000	-5.8389	19.083	0.0	0.0	0.0	
14.00000	0.00000	19.50000	-5.8063	19.083	0.0	0.0	0.0	
15.00000	0.00000	19.50000	-5.7520	19.083	0.0	0.0	0.0	
16.00000	0.00000	19.50000	-5.6718	19.083	0.0	0.0	0.0	
17.00000	0.00000	19.50000	-5.5579	19.083	0.0	0.0	0.0	
18.00000	0.00000	19.50000	-5.3964	19.083	0.0	0.0	0.0	
19.00000	0.00000	19.50000	-5.1573	19.083	0.0	0.0	0.0	
20.00000	0.00000	19.50000	-4.7109	19.083	0.0	0.0	0.0	
21.00000	0.00000	19.50000	-4.2599	19.083	0.0	0.0	0.0	
22.00000	0.00000	19.50000	-4.0069	19.083	0.0	0.0	0.0	
23.00000	0.00000	19.50000	-3.8214	19.083	0.0	0.0	0.0	
24.00000	0.00000	19.50000	-3.6725	19.083	0.0	0.0	0.0	
25.00000	0.00000	19.50000	-3.5443	19.083	0.0	0.0	0.0	
26.00000	0.00000	19.50000	-3.4270	19.083	0.0	0.0	0.0	
27.00000	0.00000	19.50000	-3.3130	19.083	0.0	0.0	0.0	
28.00000	0.00000	19.50000	-3.1955	19.083	0.0	0.0	0.0	
29.00000	0.00000	19.50000	-3.0675	19.083	0.0	0.0	0.0	
30.00000	0.00000	19.50000	-2.9202	19.083	0.0	0.0	0.0	
31.00000	0.00000	19.50000	-2.7420	19.083	0.0	0.0	0.0	
32.00000	0.00000	19.50000	-2.5129	19.083	0.0	0.0	0.0	
33.00000	0.00000	19.50000	-2.1935	19.083	0.0	0.0	0.0	
34.00000	0.00000	19.50000	-1.6164	19.083	0.0	0.0	0.0	
35.00000	0.00000	19.50000	-1.0418	19.083	0.0	0.0	0.0	
36.00000	0.00000	19.50000	-0.73027	19.083	0.0	0.0	0.0	
37.00000	0.00000	19.50000	-0.51469	19.083	0.0	0.0	0.0	
38.00000	0.00000	19.50000	-0.35599	19.083	0.0	0.0	0.0	
39.00000	0.00000	19.50000	-0.23537	19.083	0.0	0.0	0.0	
40.00000	0.00000	19.50000	-0.14211	19.083	0.0	0.0	0.0	
41.00000	0.00000	19.50000	-0.069346	19.083	0.0	0.0	0.0	
42.00000	0.00000	19.50000	-0.012334	19.083	0.0	0.0	0.0	
43.00000	0.00000	19.50000	0.032350	19.083	0.0	0.0	0.0	
44.00000	0.00000	19.50000	0.067274	19.083	0.0	0.0	0.0	
45.00000	0.00000	19.50000	0.094403	19.083	0.0	0.0	0.0	
46.00000	0.00000	19.50000	0.11527	19.083	0.0	0.0	0.0	
47.00000	0.00000	19.50000	0.13109	19.083	0.0	0.0	0.0	
48.00000	0.00000	19.50000	0.14282	19.083	0.0	0.0	0.0	
49.00000	0.00000	19.50000	0.15126	19.083	0.0	0.0	0.0	
50.00000	0.00000	19.50000	0.15701	19.083	0.0	0.0	0.0	
51.00000	0.00000	19.50000	0.16060	19.083	0.0	0.0	0.0	
52.00000	0.00000	19.50000	0.16244	19.083	0.0	0.0	0.0	
53.00000	0.00000	19.50000	0.1					



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Dr. Ref.		
Made by	Date	Checked
MP		

Name	Location		Z [Level] [mm]	Z [mm]	Calc Level [mOD]	Stresses		
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
-19.00000	1.00000	19.50000	0.17096	19.083	0.0	0.0	0.0	
-18.00000	1.00000	19.50000	0.16552	19.083	0.0	0.0	0.0	
-17.00000	1.00000	19.50000	0.15736	19.083	0.0	0.0	0.0	
-16.00000	1.00000	19.50000	0.14583	19.083	0.0	0.0	0.0	
-15.00000	1.00000	19.50000	0.13016	19.083	0.0	0.0	0.0	
-14.00000	1.00000	19.50000	0.10938	19.083	0.0	0.0	0.0	
-13.00000	1.00000	19.50000	0.082312	19.083	0.0	0.0	0.0	
-12.00000	1.00000	19.50000	0.047464	19.083	0.0	0.0	0.0	
-11.00000	1.00000	19.50000	0.0029771	19.083	0.0	0.0	0.0	
-10.00000	1.00000	19.50000	-0.053532	19.083	0.0	0.0	0.0	
-9.00000	1.00000	19.50000	-0.12567	19.083	0.0	0.0	0.0	
-8.00000	1.00000	19.50000	-0.21556	19.083	0.0	0.0	0.0	
-7.00000	1.00000	19.50000	-0.33036	19.083	0.0	0.0	0.0	
-6.00000	1.00000	19.50000	-0.47669	19.083	0.0	0.0	0.0	
-5.00000	1.00000	19.50000	-0.66494	19.083	0.0	0.0	0.0	
-4.00000	1.00000	19.50000	-0.91087	19.083	0.0	0.0	0.0	
-3.00000	1.00000	19.50000	-1.2407	19.083	0.0	0.0	0.0	
-2.00000	1.00000	19.50000	-1.7044	19.083	0.0	0.0	0.0	
-1.00000	1.00000	19.50000	-2.4194	19.083	0.0	0.0	0.0	
0.00000	1.00000	19.50000	-3.3755	19.083	0.0	0.0	0.0	
1.00000	1.00000	19.50000	-5.5309	19.083	0.0	0.0	0.0	
2.00000	1.00000	19.50000	-6.2441	19.083	0.0	0.0	0.0	
3.00000	1.00000	19.50000	-6.7045	19.083	0.0	0.0	0.0	
4.00000	1.00000	19.50000	-7.0295	19.083	0.0	0.0	0.0	
5.00000	1.00000	19.50000	-7.2687	19.083	0.0	0.0	0.0	
6.00000	1.00000	19.50000	-7.4481	19.083	0.0	0.0	0.0	
7.00000	1.00000	19.50000	-7.5828	19.083	0.0	0.0	0.0	
8.00000	1.00000	19.50000	-7.6825	19.083	0.0	0.0	0.0	
9.00000	1.00000	19.50000	-7.7538	19.083	0.0	0.0	0.0	
10.00000	1.00000	19.50000	-7.8007	19.083	0.0	0.0	0.0	
11.00000	1.00000	19.50000	-7.8259	19.083	0.0	0.0	0.0	
12.00000	1.00000	19.50000	-7.8306	19.083	0.0	0.0	0.0	
13.00000	1.00000	19.50000	-7.8146	19.083	0.0	0.0	0.0	
14.00000	1.00000	19.50000	-7.7765	19.083	0.0	0.0	0.0	
15.00000	1.00000	19.50000	-7.7130	19.083	0.0	0.0	0.0	
16.00000	1.00000	19.50000	-7.6182	19.083	0.0	0.0	0.0	
17.00000	1.00000	19.50000	-7.4813	19.083	0.0	0.0	0.0	
18.00000	1.00000	19.50000	-7.2806	19.083	0.0	0.0	0.0	
19.00000	1.00000	19.50000	-6.9651	19.083	0.0	0.0	0.0	
20.00000	1.00000	19.50000	-6.5766	19.083	0.0	0.0	0.0	
21.00000	1.00000	19.50000	-5.5831	19.083	0.0	0.0	0.0	
22.00000	1.00000	19.50000	-5.2522	19.083	0.0	0.0	0.0	
23.00000	1.00000	19.50000	-5.0250	19.083	0.0	0.0	0.0	
24.00000	1.00000	19.50000	-4.8491	19.083	0.0	0.0	0.0	
25.00000	1.00000	19.50000	-4.7010	19.083	0.0	0.0	0.0	
26.00000	1.00000	19.50000	-4.5671	19.083	0.0	0.0	0.0	
27.00000	1.00000	19.50000	-4.4377	19.083	0.0	0.0	0.0	
28.00000	1.00000	19.50000	-4.3042	19.083	0.0	0.0	0.0	
29.00000	1.00000	19.50000	-4.1576	19.083	0.0	0.0	0.0	
30.00000	1.00000	19.50000	-3.9967	19.083	0.0	0.0	0.0	
31.00000	1.00000	19.50000	-3.7752	19.083	0.0	0.0	0.0	
32.00000	1.00000	19.50000	-3.4935	19.083	0.0	0.0	0.0	
33.00000	1.00000	19.50000	-3.0745	19.083	0.0	0.0	0.0	
34.00000	1.00000	19.50000	-2.1857	19.083	0.0	0.0	0.0	
35.00000	1.00000	19.50000	-1.2997	19.083	0.0	0.0	0.0	
36.00000	1.00000	19.50000	-0.88933	19.083	0.0	0.0	0.0	
37.00000	1.00000	19.50000	-0.62248	19.083	0.0	0.0	0.0	
38.00000	1.00000	19.50000	-0.43265	19.083	0.0	0.0	0.0	
39.00000	1.00000	19.50000	-0.29139	19.083	0.0	0.0	0.0	
40.00000	1.00000	19.50000	-0.18371	19.083	0.0	0.0	0.0	
41.00000	1.00000	19.50000	-0.10052	19.083	0.0	0.0	0.0	
42.00000	1.00000	19.50000	-0.035795	19.083	0.0	0.0	0.0	
43.00000	1.00000	19.50000	0.014683	19.083	0.0	0.0	0.0	
44.00000	1.00000	19.50000	0.054010	19.083	0.0	0.0	0.0	
45.00000	1.00000	19.50000	0.094513	19.083	0.0	0.0	0.0	
46.00000	1.00000	19.50000	0.10798	19.083	0.0	0.0	0.0	
47.00000	1.00000	19.50000	0.12581	19.083	0.0	0.0	0.0	
48.00000	1.00000	19.50000	0.13911	19.083	0.0	0.0	0.0	
49.00000	1.00000	19.50000	0.14875	19.083	0.0	0.0	0.0	
50.00000	1.00000	19.50000	0.15444	19.083	0.0	0.0	0.0	
51.00000	1.00000	19.50000	0.15975	19.083	0.0	0.0	0.0	
52.00000	1.00000	19.50000	0.16215	19.083	0.0	0.0	0.0	
53.00000	1.00000	19.50000	0.16301	19.083	0.0	0.0	0.0	
54.00000	1.00000	19.50000	0.16265	19.083	0.0	0.0	0.0	
55.00000	1.00000	19.50000	0.16131	19.083	0.0	0.0	0.0	
56.00000	2.00000	19.50000	0.17084	19.083	0.0	0.0	0.0	
57.00000	2.00000	19.50000	0.17343	19.083	0.0	0.0	0.0	
58.00000	2.00000	19.50000	0.17526	19.083	0.0	0.0	0.0	
59.00000	2.00000	19.50000	0.17612	19.083	0.0	0.0	0.0	
60.00000	2.00000	19.50000	0.17575	19.083	0.0	0.0	0.0	
61.00000	2.00000	19.50000	0.17385	19.083	0.0	0.0	0.0	
62.00000	2.00000	19.50000	0.17002	19.083	0.0	0.0	0.0	
63.00000	2.00000	19.50000	0.16381	19.083	0.0	0.0	0.0	
64.00000	2.00000	19.50000	0.15465	19.083	0.0	0.0	0.0	
65.00000	2.00000	19.50000	0.14184	19.083	0.0	0.0	0.0	
66.00000	2.00000	19.50000	0.12453	19.083	0.0	0.0	0.0	
67.00000	2.00000	19.50000	0.10166	19.083	0.0	0.0	0.0	
68.00000	2.00000	19.50000	0.071900	19.083	0.0	0.0	0.0	
69.00000	2.00000	19.50000	0.033608	19.083	0.0	0.0	0.0	
70.00000	2.00000	19.50000	-0.015907	19.083	0.0	0.0	0.0	
71.00000	2.00000	19.50000	-0.077514	19.083	0.0	0.0	0.0	
72.00000	2.00000	19.50000	-0.15646	19.083	0.0	0.0	0.0	
73.00000	2.00000	19.50000	-0.25671	19.083	0.0	0.0	0.0	
74.00000	2.00000	19.50000	-0.38437	19.083	0.0	0.0	0.0	
75.00000	2.00000	19.50000	-0.54796	19.083	0.0	0.0	0.0	
76.00000	2.00000	19.50000	-0.75980	19.083	0.0	0.0	0.0	
77.00000	2.00000	19.50000	-1.0389	19.083	0.0	0.0	0.0	
78.00000	2.00000	19.50000	-1.4169	19.083	0.0	0.0	0.0	
79.00000	2.00000	19.50000	-1.9542	19.083	0.0	0.0	0.0	
80.00000	2.00000	19.50000	-2.7864	19.083	0.0	0.0	0.0	
81.00000	2.00000	19.50000	-4.5166	19.083	0.0	0.0	0.0	
82.00000	2.00000	19.50000	-6.2460	19.083	0.0	0.0	0.0	
83.00000	2.00000	19.50000	-7.0762	19.083	0.0	0.0	0.0	
84.00000	2.00000	19.50000	-7.6099	19.083	0.0	0.0	0.0	
85.00000	2.00000	19.50000	-7.9826	19.083	0.0	0.0	0.0	
86.00000	2.00000	19.50000	-8.2543	19.083	0.0	0.0	0.0	
87.00000	2.00000	19.50000	-8.4564	19.083	0.0	0.0	0.0	
88.00000	2.00000	19.50000	-8.6071	19.083	0.0	0.0	0.0	
89.00000	2.00000	19.50000	-8.7182	19.083	0.0	0.0	0.0	
90.00000	2.00000	19.50000	-8.7872	19.083	0.0	0.0	0.0	
91.00000	2.00000	19.50000	-8.8490	19.083	0.0	0.0	0.0	
92.00000	2.00000	19.50000	-8.8766	19.083	0.0	0.0	0.0	
93.00000	2.00000	19.50000	-8.8812	19.083	0.0	0.0	0.0	
94.00000	2.00000	19.50000	-8.8629	19.083	0.0	0.0	0.0	
95.00000	2.00000	19.50000	-8.8196	19.083	0.0	0.0	0.0	
96.00000	2.00000	19.50000	-8.7476	19.083	0.0	0.0	0.0	
97.00000	2.00000	19.50000	-8.6395	19.083	0.0	0.0	0.0	
98.00000	2.00000	19.50000	-8.4821	19.083	0.0	0.0	0.0	
99.00000	2.00000	19.50000	-8.2495	19.083	0.0	0.0	0.0	
100.00000	2.00000	19.50000	-7.8825	19.083	0.0	0.0	0.0	
101.00000	2.00000	19.50000	-7.1172	19.083	0.0	0.0	0.0	
102.00000	2.00000	19.50000	-6.3464	19.083	0.0	0.0	0.0	
103.00000	2.00000	19.50000	-5.9625	19.083	0.0	0.0	0.0	
104.00000	2.00000	19.50000	-5.7008	19.083	0.0	0.0	0.0	
105.00000	2.00000	19.50000	-5.5008	19.083	0.0	0.0	0.0	
106.00000	2.00000	19.50000	-5.3341	19.083	0.0	0.0	0.0	
107.00000	2.00000	19.50000	-5.1846	19.083	0.0	0.0	0.0	
108.00000	2.00000	19.50000	-5.0404	19.083	0.0	0.0	0.0	
109.00000	2.00000	19.50000	-4.9316	19.083	0.0	0.0	0.0	
110.00000	2.00000	19.50000	-4.7275	19.083	0.0	0.0	0.0	
111.00000	2.00000	19.50000	-4.5347	19.083	0.0	0.0	0.0	
112.00000	2.00000	19.50000	-4.2935	19.083	0.0	0.0	0.0	
113.00000	2.00000							



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Dr. Ref.		
Made by	Date	Checked
MP		

Name	Location		Z [Level] [mm]	Z [mm]	Calc Level [mOD]	Stresses		
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
41.00000	2.00000	19.50000	-0.13082	19.083	0.0	0.0	0.0	
42.00000	2.00000	19.50000	-0.058697	19.083	0.0	0.0	0.0	
43.00000	2.00000	19.50000	-0.0026240	19.083	0.0	0.0	0.0	
44.00000	2.00000	19.50000	0.040972	19.083	0.0	0.0	0.0	
45.00000	2.00000	19.50000	0.074757	19.083	0.0	0.0	0.0	
46.00000	2.00000	19.50000	0.10076	19.083	0.0	0.0	0.0	
47.00000	2.00000	19.50000	0.12055	19.083	0.0	0.0	0.0	
48.00000	2.00000	19.50000	0.13537	19.083	0.0	0.0	0.0	
49.00000	2.00000	19.50000	0.14620	19.083	0.0	0.0	0.0	
50.00000	2.00000	19.50000	0.15381	19.083	0.0	0.0	0.0	
51.00000	2.00000	19.50000	0.15883	19.083	0.0	0.0	0.0	
52.00000	2.00000	19.50000	0.16177	19.083	0.0	0.0	0.0	
53.00000	2.00000	19.50000	0.16305	19.083	0.0	0.0	0.0	
54.00000	2.00000	19.50000	0.16300	19.083	0.0	0.0	0.0	
55.00000	2.00000	19.50000	0.16189	19.083	0.0	0.0	0.0	
-25.00000	3.00000	19.50000	0.17176	19.083	0.0	0.0	0.0	
-24.00000	3.00000	19.50000	0.17422	19.083	0.0	0.0	0.0	
-23.00000	3.00000	19.50000	0.17587	19.083	0.0	0.0	0.0	
-22.00000	3.00000	19.50000	0.17648	19.083	0.0	0.0	0.0	
-21.00000	3.00000	19.50000	0.17578	19.083	0.0	0.0	0.0	
-20.00000	3.00000	19.50000	0.17383	19.083	0.0	0.0	0.0	
-19.00000	3.00000	19.50000	0.16903	19.083	0.0	0.0	0.0	
-18.00000	3.00000	19.50000	0.16207	19.083	0.0	0.0	0.0	
-17.00000	3.00000	19.50000	0.15195	19.083	0.0	0.0	0.0	
-16.00000	3.00000	19.50000	0.13792	19.083	0.0	0.0	0.0	
-15.00000	3.00000	19.50000	0.11903	19.083	0.0	0.0	0.0	
-14.00000	3.00000	19.50000	0.094145	19.083	0.0	0.0	0.0	
-13.00000	3.00000	19.50000	0.061818	19.083	0.0	0.0	0.0	
-12.00000	3.00000	19.50000	0.020238	19.083	0.0	0.0	0.0	
-11.00000	3.00000	19.50000	-0.032890	19.083	0.0	0.0	0.0	
-10.00000	3.00000	19.50000	-0.10051	19.083	0.0	0.0	0.0	
-9.00000	3.00000	19.50000	-0.18646	19.083	0.0	0.0	0.0	
-8.00000	3.00000	19.50000	-0.29579	19.083	0.0	0.0	0.0	
-7.00000	3.00000	19.50000	-0.43534	19.083	0.0	0.0	0.0	
-6.00000	3.00000	19.50000	-0.61465	19.083	0.0	0.0	0.0	
-5.00000	3.00000	19.50000	-0.84732	19.083	0.0	0.0	0.0	
-4.00000	3.00000	19.50000	-1.1551	19.083	0.0	0.0	0.0	
-3.00000	3.00000	19.50000	-1.5723	19.083	0.0	0.0	0.0	
-2.00000	3.00000	19.50000	-2.1640	19.083	0.0	0.0	0.0	
-1.00000	3.00000	19.50000	-3.0698	19.083	0.0	0.0	0.0	
0.00000	3.00000	19.50000	-4.8897	19.083	0.0	0.0	0.0	
1.00000	3.00000	19.50000	-6.7089	19.083	0.0	0.0	0.0	
2.00000	3.00000	19.50000	-7.6124	19.083	0.0	0.0	0.0	
3.00000	3.00000	19.50000	-8.2001	19.083	0.0	0.0	0.0	
4.00000	3.00000	19.50000	-8.6116	19.083	0.0	0.0	0.0	
5.00000	3.00000	19.50000	-8.9112	19.083	0.0	0.0	0.0	
6.00000	3.00000	19.50000	-9.1334	19.083	0.0	0.0	0.0	
7.00000	3.00000	19.50000	-9.2988	19.083	0.0	0.0	0.0	
8.00000	3.00000	19.50000	-9.4203	19.083	0.0	0.0	0.0	
9.00000	3.00000	19.50000	-9.5065	19.083	0.0	0.0	0.0	
10.00000	3.00000	19.50000	-9.5628	19.083	0.0	0.0	0.0	
11.00000	3.00000	19.50000	-9.5926	19.083	0.0	0.0	0.0	
12.00000	3.00000	19.50000	-9.5974	19.083	0.0	0.0	0.0	
13.00000	3.00000	19.50000	-9.5769	19.083	0.0	0.0	0.0	
14.00000	3.00000	19.50000	-9.5291	19.083	0.0	0.0	0.0	
15.00000	3.00000	19.50000	-9.4495	19.083	0.0	0.0	0.0	
16.00000	3.00000	19.50000	-9.3301	19.083	0.0	0.0	0.0	
17.00000	3.00000	19.50000	-9.1562	19.083	0.0	0.0	0.0	
18.00000	3.00000	19.50000	-8.9000	19.083	0.0	0.0	0.0	
19.00000	3.00000	19.50000	-8.5006	19.083	0.0	0.0	0.0	
20.00000	3.00000	19.50000	-7.9954	19.083	0.0	0.0	0.0	
21.00000	3.00000	19.50000	-6.8842	19.083	0.0	0.0	0.0	
22.00000	3.00000	19.50000	-6.4666	19.083	0.0	0.0	0.0	
23.00000	3.00000	19.50000	-6.1791	19.083	0.0	0.0	0.0	
24.00000	3.00000	19.50000	-5.9589	19.083	0.0	0.0	0.0	
25.00000	3.00000	19.50000	-5.7760	19.083	0.0	0.0	0.0	
26.00000	3.00000	19.50000	-5.6122	19.083	0.0	0.0	0.0	
27.00000	3.00000	19.50000	-5.4545	19.083	0.0	0.0	0.0	
28.00000	3.00000	19.50000	-5.2917	19.083	0.0	0.0	0.0	
29.00000	3.00000	19.50000	-5.1117	19.083	0.0	0.0	0.0	
30.00000	3.00000	19.50000	-4.8999	19.083	0.0	0.0	0.0	
31.00000	3.00000	19.50000	-4.6342	19.083	0.0	0.0	0.0	
32.00000	3.00000	19.50000	-4.2767	19.083	0.0	0.0	0.0	
33.00000	3.00000	19.50000	-3.7473	19.083	0.0	0.0	0.0	
34.00000	3.00000	19.50000	-2.7074	19.083	0.0	0.0	0.0	
35.00000	3.00000	19.50000	-1.6710	19.083	0.0	0.0	0.0	
36.00000	3.00000	19.50000	-1.1517	19.083	0.0	0.0	0.0	
37.00000	3.00000	19.50000	-0.81168	19.083	0.0	0.0	0.0	
38.00000	3.00000	19.50000	-0.57170	19.083	0.0	0.0	0.0	
39.00000	3.00000	19.50000	-0.39501	19.083	0.0	0.0	0.0	
40.00000	3.00000	19.50000	-0.26165	19.083	0.0	0.0	0.0	
41.00000	3.00000	19.50000	-0.15946	19.083	0.0	0.0	0.0	
42.00000	3.00000	19.50000	-0.080481	19.083	0.0	0.0	0.0	
43.00000	3.00000	19.50000	-0.019174	19.083	0.0	0.0	0.0	
44.00000	3.00000	19.50000	0.029487	19.083	0.0	0.0	0.0	
45.00000	3.00000	19.50000	0.065342	19.083	0.0	0.0	0.0	
46.00000	3.00000	19.50000	0.093759	19.083	0.0	0.0	0.0	
47.00000	3.00000	19.50000	0.11543	19.083	0.0	0.0	0.0	
48.00000	3.00000	19.50000	0.13171	19.083	0.0	0.0	0.0	
49.00000	3.00000	19.50000	0.14367	19.083	0.0	0.0	0.0	
50.00000	3.00000	19.50000	0.15216	19.083	0.0	0.0	0.0	
51.00000	3.00000	19.50000	0.15787	19.083	0.0	0.0	0.0	
52.00000	3.00000	19.50000	0.16134	19.083	0.0	0.0	0.0	
53.00000	3.00000	19.50000	0.16302	19.083	0.0	0.0	0.0	
54.00000	3.00000	19.50000	0.16327	19.083	0.0	0.0	0.0	
55.00000	3.00000	19.50000	0.16240	19.083	0.0	0.0	0.0	
-25.00000	4.00000	19.50000	0.17258	19.083	0.0	0.0	0.0	
-24.00000	4.00000	19.50000	0.17492	19.083	0.0	0.0	0.0	
-23.00000	4.00000	19.50000	0.17639	19.083	0.0	0.0	0.0	
-22.00000	4.00000	19.50000	0.17676	19.083	0.0	0.0	0.0	
-21.00000	4.00000	19.50000	0.17574	19.083	0.0	0.0	0.0	
-20.00000	4.00000	19.50000	0.17297	19.083	0.0	0.0	0.0	
-19.00000	4.00000	19.50000	0.16803	19.083	0.0	0.0	0.0	
-18.00000	4.00000	19.50000	0.16036	19.083	0.0	0.0	0.0	
-17.00000	4.00000	19.50000	0.14934	19.083	0.0	0.0	0.0	
-16.00000	4.00000	19.50000	0.13414	19.083	0.0	0.0	0.0	
-15.00000	4.00000	19.50000	0.11377	19.083	0.0	0.0	0.0	
-14.00000	4.00000	19.50000	0.086989	19.083	0.0	0.0	0.0	
-13.00000	4.00000	19.50000	0.052251	19.083	0.0	0.0	0.0	
-12.00000	4.00000	19.50000	0.0076009	19.083	0.0	0.0	0.0	
-11.00000	4.00000	19.50000	-0.049444	19.083	0.0	0.0	0.0	
-10.00000	4.00000	19.50000	-0.12207	19.083	0.0	0.0	0.0	
-9.00000	4.00000	19.50000	-0.21443	19.083	0.0	0.0	0.0	
-8.00000	4.00000	19.50000	-0.33200	19.083	0.0	0.0	0.0	
-7.00000	4.00000	19.50000	-0.48219	19.083	0.0	0.0	0.0	
-6.00000	4.00000	19.50000	-0.67530	19.083	0.0	0.0	0.0	
-5.00000	4.00000	19.50000	-0.92615	19.083	0.0	0.0	0.0	
-4.00000	4.00000	19.50000	-1.2572	19.083	0.0	0.0	0.0	
-3.00000	4.00000	19.50000	-1.7050	19.083	0.0	0.0	0.0	
-2.00000	4.00000	19.50000	-2.3357	19.083	0.0	0.0	0.0	
-1.00000	4.00000	19.50000	-3.2896	19.083	0.0	0.0	0.0	
0.00000	4.00000	19.50000	-5.1637	19.083	0.0	0.0	0.0	
1.00000	4.00000	19.50000	-7.0370	19.083	0.0	0.0	0.0	
2.00000	4.00000	19.50000	-7.9884	19.083	0.0	0.0	0.0	
3.00000	4.00000	19.50000	-8.6149	19.083	0.0	0.0	0.0	
4.00000	4.00000	19.50000	-9.0565	19.083	0.0	0.0	0.0	
5.00000	4.00000	19.50000	-9.3790	19.083	0.0	0.0	0.0	
6.00000	4.00000	19.50000	-9.6183	19.083	0.0	0.0	0.0	
7.00000	4.00000	19.50000	-9.7964	19.083	0.0	0.0	0.0	
8.00000	4.00000	19.50000	-9.9272	19.083	0.0	0.0	0.0	
9.00000	4.00000	19.50000	-10.020	19.083	0.0	0.0	0.0	
10.00000	4.00000	19.50000	-10.080	19.083	0.0	0.0	0.0	
11.00000	4.00000	19.50						



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Dr. Ref.		
Made by	Date	Checked
MP		

Name	Location		Z [Level] [mm]	Z [mm]	Stresses		
	X [m]	Y [m]			Calc Level [mOD]	Vert Stress [kN/m ²]	Sum Princ [kN/m ²]
20.00000	4.00000	19.50000	-8.1190	19.083	0.0	0.0	0.0
21.00000	4.00000	19.50000	-7.2830	19.083	0.0	0.0	0.0
22.00000	4.00000	19.50000	-6.8430	19.083	0.0	0.0	0.0
23.00000	4.00000	19.50000	-6.5363	19.083	0.0	0.0	0.0
24.00000	4.00000	19.50000	-6.3001	19.083	0.0	0.0	0.0
25.00000	4.00000	19.50000	-6.1608	19.083	0.0	0.0	0.0
26.00000	4.00000	19.50000	-5.9272	19.083	0.0	0.0	0.0
27.00000	4.00000	19.50000	-5.7576	19.083	0.0	0.0	0.0
28.00000	4.00000	19.50000	-5.5823	19.083	0.0	0.0	0.0
29.00000	4.00000	19.50000	-5.3887	19.083	0.0	0.0	0.0
30.00000	4.00000	19.50000	-5.1608	19.083	0.0	0.0	0.0
31.00000	4.00000	19.50000	-4.8757	19.083	0.0	0.0	0.0
32.00000	4.00000	19.50000	-4.4944	19.083	0.0	0.0	0.0
33.00000	4.00000	19.50000	-3.9365	19.083	0.0	0.0	0.0
34.00000	4.00000	19.50000	-2.8651	19.083	0.0	0.0	0.0
35.00000	4.00000	19.50000	-1.7972	19.083	0.0	0.0	0.0
36.00000	4.00000	19.50000	-1.2502	19.083	0.0	0.0	0.0
37.00000	4.00000	19.50000	-0.88758	19.083	0.0	0.0	0.0
38.00000	4.00000	19.50000	-0.62995	19.083	0.0	0.0	0.0
39.00000	4.00000	19.50000	-0.43972	19.083	0.0	0.0	0.0
40.00000	4.00000	19.50000	-0.28598	19.083	0.0	0.0	0.0
41.00000	4.00000	19.50000	-0.18582	19.083	0.0	0.0	0.0
42.00000	4.00000	19.50000	-0.10069	19.083	0.0	0.0	0.0
43.00000	4.00000	19.50000	-0.034630	19.083	0.0	0.0	0.0
44.00000	4.00000	19.50000	0.016683	19.083	0.0	0.0	0.0
45.00000	4.00000	19.50000	0.054555	19.083	0.0	0.0	0.0
46.00000	4.00000	19.50000	0.087116	19.083	0.0	0.0	0.0
47.00000	4.00000	19.50000	0.11054	19.083	0.0	0.0	0.0
48.00000	4.00000	19.50000	0.12819	19.083	0.0	0.0	0.0
49.00000	4.00000	19.50000	0.14122	19.083	0.0	0.0	0.0
50.00000	4.00000	19.50000	0.15055	19.083	0.0	0.0	0.0
51.00000	4.00000	19.50000	0.15690	19.083	0.0	0.0	0.0
52.00000	4.00000	19.50000	0.16087	19.083	0.0	0.0	0.0
53.00000	4.00000	19.50000	0.16293	19.083	0.0	0.0	0.0
54.00000	4.00000	19.50000	0.16348	19.083	0.0	0.0	0.0
55.00000	4.00000	19.50000	0.16282	19.083	0.0	0.0	0.0
-25.00000	5.00000	19.50000	0.17330	19.083	0.0	0.0	0.0
-24.00000	5.00000	19.50000	0.17552	19.083	0.0	0.0	0.0
-23.00000	5.00000	19.50000	0.17683	19.083	0.0	0.0	0.0
-22.00000	5.00000	19.50000	0.17698	19.083	0.0	0.0	0.0
-21.00000	5.00000	19.50000	0.17566	19.083	0.0	0.0	0.0
-20.00000	5.00000	19.50000	0.17250	19.083	0.0	0.0	0.0
-19.00000	5.00000	19.50000	0.16704	19.083	0.0	0.0	0.0
-18.00000	5.00000	19.50000	0.15872	19.083	0.0	0.0	0.0
-17.00000	5.00000	19.50000	0.14885	19.083	0.0	0.0	0.0
-16.00000	5.00000	19.50000	0.13858	19.083	0.0	0.0	0.0
-15.00000	5.00000	19.50000	0.10883	19.083	0.0	0.0	0.0
-14.00000	5.00000	19.50000	0.080313	19.083	0.0	0.0	0.0
-13.00000	5.00000	19.50000	0.043363	19.083	0.0	0.0	0.0
-12.00000	5.00000	19.50000	-0.004690	19.083	0.0	0.0	0.0
-11.00000	5.00000	19.50000	-0.064695	19.083	0.0	0.0	0.0
-10.00000	5.00000	19.50000	-0.14183	19.083	0.0	0.0	0.0
-9.00000	5.00000	19.50000	-0.23992	19.083	0.0	0.0	0.0
-8.00000	5.00000	19.50000	-0.36477	19.083	0.0	0.0	0.0
-7.00000	5.00000	19.50000	-0.52421	19.083	0.0	0.0	0.0
-6.00000	5.00000	19.50000	-0.72907	19.083	0.0	0.0	0.0
-5.00000	5.00000	19.50000	-0.99482	19.083	0.0	0.0	0.0
-4.00000	5.00000	19.50000	-1.3446	19.083	0.0	0.0	0.0
-3.00000	5.00000	19.50000	-1.8158	19.083	0.0	0.0	0.0
-2.00000	5.00000	19.50000	-2.4749	19.083	0.0	0.0	0.0
-1.00000	5.00000	19.50000	-3.4615	19.083	0.0	0.0	0.0
0.00000	5.00000	19.50000	-5.3712	19.083	0.0	0.0	0.0
1.00000	5.00000	19.50000	-7.2801	19.083	0.0	0.0	0.0
2.00000	5.00000	19.50000	-8.2642	19.083	0.0	0.0	0.0
3.00000	5.00000	19.50000	-9.3188	19.083	0.0	0.0	0.0
4.00000	5.00000	19.50000	-9.3833	19.083	0.0	0.0	0.0
5.00000	5.00000	19.50000	-9.7240	19.083	0.0	0.0	0.0
6.00000	5.00000	19.50000	-9.9775	19.083	0.0	0.0	0.0
7.00000	5.00000	19.50000	-10.166	19.083	0.0	0.0	0.0
8.00000	5.00000	19.50000	-10.305	19.083	0.0	0.0	0.0
9.00000	5.00000	19.50000	-10.404	19.083	0.0	0.0	0.0
10.00000	5.00000	19.50000	-10.468	19.083	0.0	0.0	0.0
11.00000	5.00000	19.50000	-10.502	19.083	0.0	0.0	0.0
12.00000	5.00000	19.50000	-10.507	19.083	0.0	0.0	0.0
13.00000	5.00000	19.50000	-10.483	19.083	0.0	0.0	0.0
14.00000	5.00000	19.50000	-10.428	19.083	0.0	0.0	0.0
15.00000	5.00000	19.50000	-10.337	19.083	0.0	0.0	0.0
16.00000	5.00000	19.50000	-10.201	19.083	0.0	0.0	0.0
17.00000	5.00000	19.50000	-10.005	19.083	0.0	0.0	0.0
18.00000	5.00000	19.50000	-9.7498	19.083	0.0	0.0	0.0
19.00000	5.00000	19.50000	-9.2847	19.083	0.0	0.0	0.0
20.00000	5.00000	19.50000	-8.4390	19.083	0.0	0.0	0.0
21.00000	5.00000	19.50000	-7.5866	19.083	0.0	0.0	0.0
22.00000	5.00000	19.50000	-7.1309	19.083	0.0	0.0	0.0
23.00000	5.00000	19.50000	-6.8100	19.083	0.0	0.0	0.0
24.00000	5.00000	19.50000	-6.5612	19.083	0.0	0.0	0.0
25.00000	5.00000	19.50000	-6.3532	19.083	0.0	0.0	0.0
26.00000	5.00000	19.50000	-6.1664	19.083	0.0	0.0	0.0
27.00000	5.00000	19.50000	-5.9865	19.083	0.0	0.0	0.0
28.00000	5.00000	19.50000	-5.8006	19.083	0.0	0.0	0.0
29.00000	5.00000	19.50000	-5.5954	19.083	0.0	0.0	0.0
30.00000	5.00000	19.50000	-5.3544	19.083	0.0	0.0	0.0
31.00000	5.00000	19.50000	-5.0542	19.083	0.0	0.0	0.0
32.00000	5.00000	19.50000	-4.6553	19.083	0.0	0.0	0.0
33.00000	5.00000	19.50000	-4.1777	19.083	0.0	0.0	0.0
34.00000	5.00000	19.50000	-2.9852	19.083	0.0	0.0	0.0
35.00000	5.00000	19.50000	-1.8964	19.083	0.0	0.0	0.0
36.00000	5.00000	19.50000	-1.3302	19.083	0.0	0.0	0.0
37.00000	5.00000	19.50000	-0.95112	19.083	0.0	0.0	0.0
38.00000	5.00000	19.50000	-0.57994	19.083	0.0	0.0	0.0
39.00000	5.00000	19.50000	-0.47882	19.083	0.0	0.0	0.0
40.00000	5.00000	19.50000	-0.32644	19.083	0.0	0.0	0.0
41.00000	5.00000	19.50000	-0.20948	19.083	0.0	0.0	0.0
42.00000	5.00000	19.50000	-0.11900	19.083	0.0	0.0	0.0
43.00000	5.00000	19.50000	-0.04835	19.083	0.0	0.0	0.0
44.00000	5.00000	19.50000	0.0058222	19.083	0.0	0.0	0.0
45.00000	5.00000	19.50000	0.048251	19.083	0.0	0.0	0.0
46.00000	5.00000	19.50000	0.080953	19.083	0.0	0.0	0.0
47.00000	5.00000	19.50000	0.10598	19.083	0.0	0.0	0.0
48.00000	5.00000	19.50000	0.12489	19.083	0.0	0.0	0.0
49.00000	5.00000	19.50000	0.13891	19.083	0.0	0.0	0.0
50.00000	5.00000	19.50000	0.14900	19.083	0.0	0.0	0.0
51.00000	5.00000	19.50000	0.15595	19.083	0.0	0.0	0.0
52.00000	5.00000	19.50000	0.16039	19.083	0.0	0.0	0.0
53.00000	5.00000	19.50000	0.16281	19.083	0.0	0.0	0.0
54.00000	5.00000	19.50000	0.16363	19.083	0.0	0.0	0.0
55.00000	5.00000	19.50000	0.16317	19.083	0.0	0.0	0.0
-25.00000	6.00000	19.50000	0.17393	19.083	0.0	0.0	0.0
-24.00000	6.00000	19.50000	0.17604	19.083	0.0	0.0	0.0
-23.00000	6.00000	19.50000	0.17720	19.083	0.0	0.0	0.0
-22.00000	6.00000	19.50000	0.17714	19.083	0.0	0.0	0.0
-21.00000	6.00000	19.50000	0.17555	19.083	0.0	0.0	0.0
-20.00000	6.00000	19.50000	0.17203	19.083	0.0	0.0	0.0
-19.00000	6.00000	19.50000	0.16611	19.083	0.0	0.0	0.0
-18.00000	6.00000	19.50000	0.15719	19.083	0.0	0.0	0.0
-17.00000	6.00000	19.50000	0.14455	19.083	0.0	0.0	0.0
-16.00000	6.00000	19.50000	0.12730	19.083	0.0	0.0	0.0
-15.00000	6.00000	19.50000	0.10432	19.083	0.0	0.0	0.0
-14.00000	6.00000	19.50000	0.074224	19.083	0.0	0.0	0.0
-13.00000	6.00000	19.50000	0.035288	19.083	0.0	0.0	0.0
-12.00000	6.00000	19.50000	-0.014673	19.083	0.0	0.0	0.0
-11.00000	6.00000	19.50000	-0.078432	19.083	0.0	0.0	0.0
-10.00000	6.0000						



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Dr. Ref.		
Made by	Date	Checked
MP		

Name	Location		Z [Level] [mm]	Z [mm]	Calc Level [mOD]	Stresses		
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
-1.00000	6.00000	19.50000	-3.5965	19.083	0.0	0.0	0.0	
0.00000	6.00000	19.50000	-5.5309	19.083	0.0	0.0	0.0	
1.00000	6.00000	19.50000	-7.4643	19.083	0.0	0.0	0.0	
2.00000	6.00000	19.50000	-8.4714	19.083	0.0	0.0	0.0	
3.00000	6.00000	19.50000	-9.1464	19.083	0.0	0.0	0.0	
4.00000	6.00000	19.50000	-9.5283	19.083	0.0	0.0	0.0	
5.00000	6.00000	19.50000	-9.9833	19.083	0.0	0.0	0.0	
6.00000	6.00000	19.50000	-10.248	19.083	0.0	0.0	0.0	
7.00000	6.00000	19.50000	-10.446	19.083	0.0	0.0	0.0	
8.00000	6.00000	19.50000	-10.592	19.083	0.0	0.0	0.0	
9.00000	6.00000	19.50000	-10.697	19.083	0.0	0.0	0.0	
10.00000	6.00000	19.50000	-10.762	19.083	0.0	0.0	0.0	
11.00000	6.00000	19.50000	-10.798	19.083	0.0	0.0	0.0	
12.00000	6.00000	19.50000	-10.803	19.083	0.0	0.0	0.0	
13.00000	6.00000	19.50000	-10.778	19.083	0.0	0.0	0.0	
14.00000	6.00000	19.50000	-10.721	19.083	0.0	0.0	0.0	
15.00000	6.00000	19.50000	-10.626	19.083	0.0	0.0	0.0	
16.00000	6.00000	19.50000	-10.485	19.083	0.0	0.0	0.0	
17.00000	6.00000	19.50000	-10.281	19.083	0.0	0.0	0.0	
18.00000	6.00000	19.50000	-9.9869	19.083	0.0	0.0	0.0	
19.00000	6.00000	19.50000	-9.5415	19.083	0.0	0.0	0.0	
20.00000	6.00000	19.50000	-8.6846	19.083	0.0	0.0	0.0	
21.00000	6.00000	19.50000	-7.8206	19.083	0.0	0.0	0.0	
22.00000	6.00000	19.50000	-7.3535	19.083	0.0	0.0	0.0	
23.00000	6.00000	19.50000	-7.0220	19.083	0.0	0.0	0.0	
24.00000	6.00000	19.50000	-6.7634	19.083	0.0	0.0	0.0	
25.00000	6.00000	19.50000	-6.5461	19.083	0.0	0.0	0.0	
26.00000	6.00000	19.50000	-6.3506	19.083	0.0	0.0	0.0	
27.00000	6.00000	19.50000	-6.1620	19.083	0.0	0.0	0.0	
28.00000	6.00000	19.50000	-5.9673	19.083	0.0	0.0	0.0	
29.00000	6.00000	19.50000	-5.7625	19.083	0.0	0.0	0.0	
30.00000	6.00000	19.50000	-5.5011	19.083	0.0	0.0	0.0	
31.00000	6.00000	19.50000	-5.1891	19.083	0.0	0.0	0.0	
32.00000	6.00000	19.50000	-4.7771	19.083	0.0	0.0	0.0	
33.00000	6.00000	19.50000	-4.1853	19.083	0.0	0.0	0.0	
34.00000	6.00000	19.50000	-3.0780	19.083	0.0	0.0	0.0	
35.00000	6.00000	19.50000	-1.9745	19.083	0.0	0.0	0.0	
36.00000	6.00000	19.50000	-1.3948	19.083	0.0	0.0	0.0	
37.00000	6.00000	19.50000	-1.0035	19.083	0.0	0.0	0.0	
38.00000	6.00000	19.50000	-0.72199	19.083	0.0	0.0	0.0	
39.00000	6.00000	19.50000	-0.51226	19.083	0.0	0.0	0.0	
40.00000	6.00000	19.50000	-0.35285	19.083	0.0	0.0	0.0	
41.00000	6.00000	19.50000	-0.23022	19.083	0.0	0.0	0.0	
42.00000	6.00000	19.50000	-0.13520	19.083	0.0	0.0	0.0	
43.00000	6.00000	19.50000	-0.06377	19.083	0.0	0.0	0.0	
44.00000	6.00000	19.50000	-0.0038063	19.083	0.0	0.0	0.0	
45.00000	6.00000	19.50000	0.040850	19.083	0.0	0.0	0.0	
46.00000	6.00000	19.50000	0.075366	19.083	0.0	0.0	0.0	
47.00000	6.00000	19.50000	0.10183	19.083	0.0	0.0	0.0	
48.00000	6.00000	19.50000	0.12187	19.083	0.0	0.0	0.0	
49.00000	6.00000	19.50000	0.13677	19.083	0.0	0.0	0.0	
50.00000	6.00000	19.50000	0.14757	19.083	0.0	0.0	0.0	
51.00000	6.00000	19.50000	0.15506	19.083	0.0	0.0	0.0	
52.00000	6.00000	19.50000	0.15992	19.083	0.0	0.0	0.0	
53.00000	6.00000	19.50000	0.16257	19.083	0.0	0.0	0.0	
54.00000	6.00000	19.50000	0.16374	19.083	0.0	0.0	0.0	
55.00000	6.00000	19.50000	0.16347	19.083	0.0	0.0	0.0	
-25.00000	7.00000	19.50000	0.17446	19.083	0.0	0.0	0.0	
-24.00000	7.00000	19.50000	0.17648	19.083	0.0	0.0	0.0	
-23.00000	7.00000	19.50000	0.17750	19.083	0.0	0.0	0.0	
-22.00000	7.00000	19.50000	0.17726	19.083	0.0	0.0	0.0	
-21.00000	7.00000	19.50000	0.17542	19.083	0.0	0.0	0.0	
-20.00000	7.00000	19.50000	0.17158	19.083	0.0	0.0	0.0	
-19.00000	7.00000	19.50000	0.16525	19.083	0.0	0.0	0.0	
-18.00000	7.00000	19.50000	0.15680	19.083	0.0	0.0	0.0	
-17.00000	7.00000	19.50000	0.14248	19.083	0.0	0.0	0.0	
-16.00000	7.00000	19.50000	0.12436	19.083	0.0	0.0	0.0	
-15.00000	7.00000	19.50000	0.10028	19.083	0.0	0.0	0.0	
-14.00000	7.00000	19.50000	0.068809	19.083	0.0	0.0	0.0	
-13.00000	7.00000	19.50000	0.02835	19.083	0.0	0.0	0.0	
-12.00000	7.00000	19.50000	-0.024008	19.083	0.0	0.0	0.0	
-11.00000	7.00000	19.50000	-0.090498	19.083	0.0	0.0	0.0	
-10.00000	7.00000	19.50000	-0.17502	19.083	0.0	0.0	0.0	
-9.00000	7.00000	19.50000	-0.28234	19.083	0.0	0.0	0.0	
-8.00000	7.00000	19.50000	-0.41871	19.083	0.0	0.0	0.0	
-7.00000	7.00000	19.50000	-0.59248	19.083	0.0	0.0	0.0	
-6.00000	7.00000	19.50000	-0.81504	19.083	0.0	0.0	0.0	
-5.00000	7.00000	19.50000	-1.1025	19.083	0.0	0.0	0.0	
-4.00000	7.00000	19.50000	-1.4785	19.083	0.0	0.0	0.0	
-3.00000	7.00000	19.50000	-1.9408	19.083	0.0	0.0	0.0	
-2.00000	7.00000	19.50000	-2.6758	19.083	0.0	0.0	0.0	
-1.00000	7.00000	19.50000	-3.7023	19.083	0.0	0.0	0.0	
0.00000	7.00000	19.50000	-5.6542	19.083	0.0	0.0	0.0	
1.00000	7.00000	19.50000	-7.6050	19.083	0.0	0.0	0.0	
2.00000	7.00000	19.50000	-9.6287	19.083	0.0	0.0	0.0	
3.00000	7.00000	19.50000	-9.3187	19.083	0.0	0.0	0.0	
4.00000	7.00000	19.50000	-9.8137	19.083	0.0	0.0	0.0	
5.00000	7.00000	19.50000	-10.180	19.083	0.0	0.0	0.0	
6.00000	7.00000	19.50000	-10.454	19.083	0.0	0.0	0.0	
7.00000	7.00000	19.50000	-10.659	19.083	0.0	0.0	0.0	
8.00000	7.00000	19.50000	-10.810	19.083	0.0	0.0	0.0	
9.00000	7.00000	19.50000	-10.917	19.083	0.0	0.0	0.0	
10.00000	7.00000	19.50000	-10.987	19.083	0.0	0.0	0.0	
11.00000	7.00000	19.50000	-11.024	19.083	0.0	0.0	0.0	
12.00000	7.00000	19.50000	-11.030	19.083	0.0	0.0	0.0	
13.00000	7.00000	19.50000	-11.004	19.083	0.0	0.0	0.0	
14.00000	7.00000	19.50000	-10.945	19.083	0.0	0.0	0.0	
15.00000	7.00000	19.50000	-10.847	19.083	0.0	0.0	0.0	
16.00000	7.00000	19.50000	-10.701	19.083	0.0	0.0	0.0	
17.00000	7.00000	19.50000	-10.492	19.083	0.0	0.0	0.0	
18.00000	7.00000	19.50000	-10.192	19.083	0.0	0.0	0.0	
19.00000	7.00000	19.50000	-9.7388	19.083	0.0	0.0	0.0	
20.00000	7.00000	19.50000	-8.8738	19.083	0.0	0.0	0.0	
21.00000	7.00000	19.50000	-8.0014	19.083	0.0	0.0	0.0	
22.00000	7.00000	19.50000	-7.5260	19.083	0.0	0.0	0.0	
23.00000	7.00000	19.50000	-7.1864	19.083	0.0	0.0	0.0	
24.00000	7.00000	19.50000	-6.9201	19.083	0.0	0.0	0.0	
25.00000	7.00000	19.50000	-6.6956	19.083	0.0	0.0	0.0	
26.00000	7.00000	19.50000	-6.4930	19.083	0.0	0.0	0.0	
27.00000	7.00000	19.50000	-6.2973	19.083	0.0	0.0	0.0	
28.00000	7.00000	19.50000	-6.0953	19.083	0.0	0.0	0.0	
29.00000	7.00000	19.50000	-5.8728	19.083	0.0	0.0	0.0	
30.00000	7.00000	19.50000	-5.6130	19.083	0.0	0.0	0.0	
31.00000	7.00000	19.50000	-5.2920	19.083	0.0	0.0	0.0	
32.00000	7.00000	19.50000	-4.8702	19.083	0.0	0.0	0.0	
33.00000	7.00000	19.50000	-4.2680	19.083	0.0	0.0	0.0	
34.00000	7.00000	19.50000	-3.1500	19.083	0.0	0.0	0.0	
35.00000	7.00000	19.50000	-2.0361	19.083	0.0	0.0	0.0	
36.00000	7.00000	19.50000	-1.4463	19.083	0.0	0.0	0.0	
37.00000	7.00000	19.50000	-1.0461	19.083	0.0	0.0	0.0	
38.00000	7.00000	19.50000	-0.75669	19.083	0.0	0.0	0.0	
39.00000	7.00000	19.50000	-0.54024	19.083	0.0	0.0	0.0	
40.00000	7.00000	19.50000	-0.37522	19.083	0.0	0.0	0.0	
41.00000	7.00000	19.50000	-0.24797	19.083	0.0	0.0	0.0	
42.00000	7.00000	19.50000	-0.15818	19.083	0.0	0.0	0.0	
43.00000	7.00000	19.50000	-0.072235	19.083	0.0	0.0	0.0	
44.00000	7.00000	19.50000	-0.012280	19.083	0.0	0.0	0.0	
45.00000	7.00000	19.50000	0.034343	19.083	0.0	0.0	0.0	
46.00000	7.00000	19.50000	0.070428	19.083	0.0	0.0	0.0	
47.00000	7.00000	19.50000	0.098139	19.083	0.0	0.0	0.0	
48.00000	7.00000	19.50000	0.11917	19.083	0.0	0.0	0.0	
49.00000	7.00000	19.50000	0.13486	19.083	0.0	0.0	0.0	
50.00000	7.00000	19.50000	0.14627	19.08				



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No. Sheet No. Rev.

J15249

Dr. Ref.

Made by MP

Date

Checked

Name	Location		Z [Level] [m]	Z [mm]	Calc Level [mOD]	Stresses		
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
-22.00000	8.00000	19.50000	0.17734	19.083	0.0	0.0	0.0	
-21.00000	8.00000	19.50000	0.17529	19.083	0.0	0.0	0.0	
-20.00000	8.00000	19.50000	0.17118	19.083	0.0	0.0	0.0	
-19.00000	8.00000	19.50000	0.16448	19.083	0.0	0.0	0.0	
-18.00000	8.00000	19.50000	0.15457	19.083	0.0	0.0	0.0	
-17.00000	8.00000	19.50000	0.14067	19.083	0.0	0.0	0.0	
-16.00000	8.00000	19.50000	0.12181	19.083	0.0	0.0	0.0	
-15.00000	8.00000	19.50000	0.096792	19.083	0.0	0.0	0.0	
-14.00000	8.00000	19.50000	0.064138	19.083	0.0	0.0	0.0	
-13.00000	8.00000	19.50000	0.021985	19.083	0.0	0.0	0.0	
-12.00000	8.00000	19.50000	-0.030304	19.083	0.0	0.0	0.0	
-11.00000	8.00000	19.50000	-0.10079	19.083	0.0	0.0	0.0	
-10.00000	8.00000	19.50000	-0.18816	19.083	0.0	0.0	0.0	
-9.00000	8.00000	19.50000	-0.29898	19.083	0.0	0.0	0.0	
-8.00000	8.00000	19.50000	-0.43966	19.083	0.0	0.0	0.0	
-7.00000	8.00000	19.50000	-0.61866	19.083	0.0	0.0	0.0	
-6.00000	8.00000	19.50000	-0.84753	19.083	0.0	0.0	0.0	
-5.00000	8.00000	19.50000	-1.1425	19.083	0.0	0.0	0.0	
-4.00000	8.00000	19.50000	-1.5273	19.083	0.0	0.0	0.0	
-3.00000	8.00000	19.50000	-2.0397	19.083	0.0	0.0	0.0	
-2.00000	8.00000	19.50000	-2.7459	19.083	0.0	0.0	0.0	
-1.00000	8.00000	19.50000	-3.7845	19.083	0.0	0.0	0.0	
0.00000	8.00000	19.50000	-5.7489	19.083	0.0	0.0	0.0	
1.00000	8.00000	19.50000	-7.7123	19.083	0.0	0.0	0.0	
2.00000	8.00000	19.50000	-8.7480	19.083	0.0	0.0	0.0	
3.00000	8.00000	19.50000	-9.8490	19.083	0.0	0.0	0.0	
4.00000	8.00000	19.50000	-9.9538	19.083	0.0	0.0	0.0	
5.00000	8.00000	19.50000	-10.328	19.083	0.0	0.0	0.0	
6.00000	8.00000	19.50000	-10.609	19.083	0.0	0.0	0.0	
7.00000	8.00000	19.50000	-10.820	19.083	0.0	0.0	0.0	
8.00000	8.00000	19.50000	-10.975	19.083	0.0	0.0	0.0	
9.00000	8.00000	19.50000	-11.086	19.083	0.0	0.0	0.0	
10.00000	8.00000	19.50000	-11.158	19.083	0.0	0.0	0.0	
11.00000	8.00000	19.50000	-11.196	19.083	0.0	0.0	0.0	
12.00000	8.00000	19.50000	-11.202	19.083	0.0	0.0	0.0	
13.00000	8.00000	19.50000	-11.176	19.083	0.0	0.0	0.0	
14.00000	8.00000	19.50000	-11.115	19.083	0.0	0.0	0.0	
15.00000	8.00000	19.50000	-11.015	19.083	0.0	0.0	0.0	
16.00000	8.00000	19.50000	-10.866	19.083	0.0	0.0	0.0	
17.00000	8.00000	19.50000	-10.653	19.083	0.0	0.0	0.0	
18.00000	8.00000	19.50000	-10.348	19.083	0.0	0.0	0.0	
19.00000	8.00000	19.50000	-9.8897	19.083	0.0	0.0	0.0	
20.00000	8.00000	19.50000	-9.0188	19.083	0.0	0.0	0.0	
21.00000	8.00000	19.50000	-8.1404	19.083	0.0	0.0	0.0	
22.00000	8.00000	19.50000	-7.6588	19.083	0.0	0.0	0.0	
23.00000	8.00000	19.50000	-7.3132	19.083	0.0	0.0	0.0	
24.00000	8.00000	19.50000	-7.0410	19.083	0.0	0.0	0.0	
25.00000	8.00000	19.50000	-6.8107	19.083	0.0	0.0	0.0	
26.00000	8.00000	19.50000	-6.6024	19.083	0.0	0.0	0.0	
27.00000	8.00000	19.50000	-6.4011	19.083	0.0	0.0	0.0	
28.00000	8.00000	19.50000	-6.1932	19.083	0.0	0.0	0.0	
29.00000	8.00000	19.50000	-5.9647	19.083	0.0	0.0	0.0	
30.00000	8.00000	19.50000	-5.6984	19.083	0.0	0.0	0.0	
31.00000	8.00000	19.50000	-5.3704	19.083	0.0	0.0	0.0	
32.00000	8.00000	19.50000	-4.9413	19.083	0.0	0.0	0.0	
33.00000	8.00000	19.50000	-4.3314	19.083	0.0	0.0	0.0	
34.00000	8.00000	19.50000	-3.2056	19.083	0.0	0.0	0.0	
35.00000	8.00000	19.50000	-2.0840	19.083	0.0	0.0	0.0	
36.00000	8.00000	19.50000	-1.4870	19.083	0.0	0.0	0.0	
37.00000	8.00000	19.50000	-0.8001	19.083	0.0	0.0	0.0	
38.00000	8.00000	19.50000	-0.78473	19.083	0.0	0.0	0.0	
39.00000	8.00000	19.50000	-0.56311	19.083	0.0	0.0	0.0	
40.00000	8.00000	19.50000	-0.39369	19.083	0.0	0.0	0.0	
41.00000	8.00000	19.50000	-0.26274	19.083	0.0	0.0	0.0	
42.00000	8.00000	19.50000	-0.16090	19.083	0.0	0.0	0.0	
43.00000	8.00000	19.50000	-0.081465	19.083	0.0	0.0	0.0	
44.00000	8.00000	19.50000	-0.019478	19.083	0.0	0.0	0.0	
45.00000	8.00000	19.50000	0.028787	19.083	0.0	0.0	0.0	
46.00000	8.00000	19.50000	0.066194	19.083	0.0	0.0	0.0	
47.00000	8.00000	19.50000	0.094963	19.083	0.0	0.0	0.0	
48.00000	8.00000	19.50000	0.11684	19.083	0.0	0.0	0.0	
49.00000	8.00000	19.50000	0.13320	19.083	0.0	0.0	0.0	
50.00000	8.00000	19.50000	0.14513	19.083	0.0	0.0	0.0	
51.00000	8.00000	19.50000	0.15353	19.083	0.0	0.0	0.0	
52.00000	8.00000	19.50000	0.15909	19.083	0.0	0.0	0.0	
53.00000	8.00000	19.50000	0.16237	19.083	0.0	0.0	0.0	
54.00000	8.00000	19.50000	0.16386	19.083	0.0	0.0	0.0	
55.00000	8.00000	19.50000	0.16390	19.083	0.0	0.0	0.0	
-25.00000	9.00000	19.50000	0.17528	19.083	0.0	0.0	0.0	
-24.00000	9.00000	19.50000	0.17113	19.083	0.0	0.0	0.0	
-23.00000	9.00000	19.50000	0.17793	19.083	0.0	0.0	0.0	
-22.00000	9.00000	19.50000	0.17740	19.083	0.0	0.0	0.0	
-21.00000	9.00000	19.50000	0.17517	19.083	0.0	0.0	0.0	
-20.00000	9.00000	19.50000	0.17083	19.083	0.0	0.0	0.0	
-19.00000	9.00000	19.50000	0.16483	19.083	0.0	0.0	0.0	
-18.00000	9.00000	19.50000	0.15354	19.083	0.0	0.0	0.0	
-17.00000	9.00000	19.50000	0.13915	19.083	0.0	0.0	0.0	
-16.00000	9.00000	19.50000	0.11967	19.083	0.0	0.0	0.0	
-15.00000	9.00000	19.50000	0.093885	19.083	0.0	0.0	0.0	
-14.00000	9.00000	19.50000	0.060260	19.083	0.0	0.0	0.0	
-13.00000	9.00000	19.50000	0.016896	19.083	0.0	0.0	0.0	
-12.00000	9.00000	19.50000	-0.038599	19.083	0.0	0.0	0.0	
-11.00000	9.00000	19.50000	-0.10925	19.083	0.0	0.0	0.0	
-10.00000	9.00000	19.50000	-0.19890	19.083	0.0	0.0	0.0	
-9.00000	9.00000	19.50000	-0.31253	19.083	0.0	0.0	0.0	
-8.00000	9.00000	19.50000	-0.45661	19.083	0.0	0.0	0.0	
-7.00000	9.00000	19.50000	-0.63970	19.083	0.0	0.0	0.0	
-6.00000	9.00000	19.50000	-0.87345	19.083	0.0	0.0	0.0	
-5.00000	9.00000	19.50000	-1.1741	19.083	0.0	0.0	0.0	
-4.00000	9.00000	19.50000	-1.5656	19.083	0.0	0.0	0.0	
-3.00000	9.00000	19.50000	-2.0854	19.083	0.0	0.0	0.0	
-2.00000	9.00000	19.50000	-2.7997	19.083	0.0	0.0	0.0	
-1.00000	9.00000	19.50000	-3.8471	19.083	0.0	0.0	0.0	
0.00000	9.00000	19.50000	-5.8205	19.083	0.0	0.0	0.0	
1.00000	9.00000	19.50000	-7.7929	19.083	0.0	0.0	0.0	
2.00000	9.00000	19.50000	-8.8372	19.083	0.0	0.0	0.0	
3.00000	9.00000	19.50000	-9.5463	19.083	0.0	0.0	0.0	
4.00000	9.00000	19.50000	-10.058	19.083	0.0	0.0	0.0	
5.00000	9.00000	19.50000	-10.439	19.083	0.0	0.0	0.0	
6.00000	9.00000	19.50000	-10.725	19.083	0.0	0.0	0.0	
7.00000	9.00000	19.50000	-10.940	19.083	0.0	0.0	0.0	
8.00000	9.00000	19.50000	-11.099	19.083	0.0	0.0	0.0	
9.00000	9.00000	19.50000	-11.212	19.083	0.0	0.0	0.0	
10.00000	9.00000	19.50000	-11.286	19.083	0.0	0.0	0.0	
11.00000	9.00000	19.50000	-11.325	19.083	0.0	0.0	0.0	
12.00000	9.00000	19.50000	-11.332	19.083	0.0	0.0	0.0	
13.00000	9.00000	19.50000	-11.305	19.083	0.0	0.0	0.0	
14.00000	9.00000	19.50000	-11.243	19.083	0.0	0.0	0.0	
15.00000	9.00000	19.50000	-11.141	19.083	0.0	0.0	0.0	
16.00000	9.00000	19.50000	-10.990	19.083	0.0	0.0	0.0	
17.00000	9.00000	19.50000	-10.774	19.083	0.0	0.0	0.0	
18.00000	9.00000	19.50000	-10.465	19.083	0.0	0.0	0.0	
19.00000	9.00000	19.50000	-10.003	19.083	0.0	0.0	0.0	
20.00000	9.00000	19.50000	-9.3283	19.083	0.0	0.0	0.0	
21.00000	9.00000	19.50000	-8.2453	19.083	0.0	0.0	0.0	
22.00000	9.00000	19.50000	-7.7592	19.083	0.0	0.0	0.0	
23.00000	9.00000	19.50000	-7.4091	19.083	0.0	0.0	0.0	
24.00000	9.00000	19.50000	-7.1324	19.083	0.0	0.0	0.0	
25.00000	9.00000	19.50000	-6.8978	19.083	0.0	0.0	0.0	
26.00000	9.00000	19.50000	-6.6851	19.083	0.0	0.0	0.0	
27.00000	9.00000	19.50000	-6.4794	19.083	0.0	0.0	0.0	
28.00000	9.00000	19.50000	-6.2670	19.083	0.0	0.0	0.0	
29.00000	9.00000	19.50000	-6.0337					



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No. Sheet No. Rev.

J15249

Dr. Ref.

Made by MP

Date

Checked

Name	Location		Z [Level] [mm]	Z [mm]	Calc Level [mOD]	Stresses		
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
38.00000	9.00000	19.50000	-0.80673	19.083	0.0	0.0	0.0	
39.00000	9.00000	19.50000	-0.58121	19.083	0.0	0.0	0.0	
40.00000	9.00000	19.50000	-0.40843	19.083	0.0	0.0	0.0	
41.00000	9.00000	19.50000	-0.27463	19.083	0.0	0.0	0.0	
42.00000	9.00000	19.50000	-0.17040	19.083	0.0	0.0	0.0	
43.00000	9.00000	19.50000	-0.08993	19.083	0.0	0.0	0.0	
44.00000	9.00000	19.50000	-0.025370	19.083	0.0	0.0	0.0	
45.00000	9.00000	19.50000	0.024221	19.083	0.0	0.0	0.0	
46.00000	9.00000	19.50000	0.062699	19.083	0.0	0.0	0.0	
47.00000	9.00000	19.50000	0.092332	19.083	0.0	0.0	0.0	
48.00000	9.00000	19.50000	0.114499	19.083	0.0	0.0	0.0	
49.00000	9.00000	19.50000	0.13181	19.083	0.0	0.0	0.0	
50.00000	9.00000	19.50000	0.14418	19.083	0.0	0.0	0.0	
51.00000	9.00000	19.50000	0.15292	19.083	0.0	0.0	0.0	
52.00000	9.00000	19.50000	0.15875	19.083	0.0	0.0	0.0	
53.00000	9.00000	19.50000	0.16224	19.083	0.0	0.0	0.0	
54.00000	9.00000	19.50000	0.16389	19.083	0.0	0.0	0.0	
55.00000	9.00000	19.50000	0.16405	19.083	0.0	0.0	0.0	
-25.00000	10.00000	19.50000	0.17556	19.083	0.0	0.0	0.0	
-24.00000	10.00000	19.50000	0.17736	19.083	0.0	0.0	0.0	
-23.00000	10.00000	19.50000	0.17808	19.083	0.0	0.0	0.0	
-22.00000	10.00000	19.50000	0.17744	19.083	0.0	0.0	0.0	
-21.00000	10.00000	19.50000	0.17507	19.083	0.0	0.0	0.0	
-20.00000	10.00000	19.50000	0.17054	19.083	0.0	0.0	0.0	
-19.00000	10.00000	19.50000	0.16331	19.083	0.0	0.0	0.0	
-18.00000	10.00000	19.50000	0.15272	19.083	0.0	0.0	0.0	
-17.00000	10.00000	19.50000	0.13795	19.083	0.0	0.0	0.0	
-16.00000	10.00000	19.50000	0.11799	19.083	0.0	0.0	0.0	
-15.00000	10.00000	19.50000	0.091595	19.083	0.0	0.0	0.0	
-14.00000	10.00000	19.50000	0.057213	19.083	0.0	0.0	0.0	
-13.00000	10.00000	19.50000	0.012907	19.083	0.0	0.0	0.0	
-12.00000	10.00000	19.50000	-0.043753	19.083	0.0	0.0	0.0	
-11.00000	10.00000	19.50000	-0.11584	19.083	0.0	0.0	0.0	
-10.00000	10.00000	19.50000	-0.20725	19.083	0.0	0.0	0.0	
-9.00000	10.00000	19.50000	-0.32301	19.083	0.0	0.0	0.0	
-8.00000	10.00000	19.50000	-0.45965	19.083	0.0	0.0	0.0	
-7.00000	10.00000	19.50000	-0.65581	19.083	0.0	0.0	0.0	
-6.00000	10.00000	19.50000	-0.89316	19.083	0.0	0.0	0.0	
-5.00000	10.00000	19.50000	-1.13980	19.083	0.0	0.0	0.0	
-4.00000	10.00000	19.50000	-1.4942	19.083	0.0	0.0	0.0	
-3.00000	10.00000	19.50000	-1.9194	19.083	0.0	0.0	0.0	
-2.00000	10.00000	19.50000	-2.3896	19.083	0.0	0.0	0.0	
-1.00000	10.00000	19.50000	-2.8931	19.083	0.0	0.0	0.0	
0.00000	10.00000	19.50000	-3.4278	19.083	0.0	0.0	0.0	
1.00000	10.00000	19.50000	-3.9845	19.083	0.0	0.0	0.0	
2.00000	10.00000	19.50000	-4.5619	19.083	0.0	0.0	0.0	
3.00000	10.00000	19.50000	-5.1617	19.083	0.0	0.0	0.0	
4.00000	10.00000	19.50000	-5.7834	19.083	0.0	0.0	0.0	
5.00000	10.00000	19.50000	-6.4269	19.083	0.0	0.0	0.0	
6.00000	10.00000	19.50000	-7.0923	19.083	0.0	0.0	0.0	
7.00000	10.00000	19.50000	-7.7797	19.083	0.0	0.0	0.0	
8.00000	10.00000	19.50000	-8.4890	19.083	0.0	0.0	0.0	
9.00000	10.00000	19.50000	-9.2202	19.083	0.0	0.0	0.0	
10.00000	10.00000	19.50000	-9.9733	19.083	0.0	0.0	0.0	
11.00000	10.00000	19.50000	-10.7484	19.083	0.0	0.0	0.0	
12.00000	10.00000	19.50000	-11.5455	19.083	0.0	0.0	0.0	
13.00000	10.00000	19.50000	-12.3646	19.083	0.0	0.0	0.0	
14.00000	10.00000	19.50000	-13.2057	19.083	0.0	0.0	0.0	
15.00000	10.00000	19.50000	-14.0688	19.083	0.0	0.0	0.0	
16.00000	10.00000	19.50000	-14.9539	19.083	0.0	0.0	0.0	
17.00000	10.00000	19.50000	-15.8610	19.083	0.0	0.0	0.0	
18.00000	10.00000	19.50000	-16.7901	19.083	0.0	0.0	0.0	
19.00000	10.00000	19.50000	-17.7412	19.083	0.0	0.0	0.0	
20.00000	10.00000	19.50000	-18.7143	19.083	0.0	0.0	0.0	
21.00000	10.00000	19.50000	-19.7094	19.083	0.0	0.0	0.0	
22.00000	10.00000	19.50000	-20.7265	19.083	0.0	0.0	0.0	
23.00000	10.00000	19.50000	-21.7656	19.083	0.0	0.0	0.0	
24.00000	10.00000	19.50000	-22.8267	19.083	0.0	0.0	0.0	
25.00000	10.00000	19.50000	-23.9098	19.083	0.0	0.0	0.0	
26.00000	10.00000	19.50000	-25.0149	19.083	0.0	0.0	0.0	
27.00000	10.00000	19.50000	-26.1420	19.083	0.0	0.0	0.0	
28.00000	10.00000	19.50000	-27.2911	19.083	0.0	0.0	0.0	
29.00000	10.00000	19.50000	-28.4622	19.083	0.0	0.0	0.0	
30.00000	10.00000	19.50000	-29.6553	19.083	0.0	0.0	0.0	
31.00000	10.00000	19.50000	-30.8704	19.083	0.0	0.0	0.0	
32.00000	10.00000	19.50000	-32.1075	19.083	0.0	0.0	0.0	
33.00000	10.00000	19.50000	-33.3666	19.083	0.0	0.0	0.0	
34.00000	10.00000	19.50000	-34.6477	19.083	0.0	0.0	0.0	
35.00000	10.00000	19.50000	-35.9508	19.083	0.0	0.0	0.0	
36.00000	10.00000	19.50000	-37.2759	19.083	0.0	0.0	0.0	
37.00000	10.00000	19.50000	-38.6230	19.083	0.0	0.0	0.0	
38.00000	10.00000	19.50000	-39.9921	19.083	0.0	0.0	0.0	
39.00000	10.00000	19.50000	-41.3832	19.083	0.0	0.0	0.0	
40.00000	10.00000	19.50000	-42.7963	19.083	0.0	0.0	0.0	
41.00000	10.00000	19.50000	-44.2314	19.083	0.0	0.0	0.0	
42.00000	10.00000	19.50000	-45.6885	19.083	0.0	0.0	0.0	
43.00000	10.00000	19.50000	-47.1676	19.083	0.0	0.0	0.0	
44.00000	10.00000	19.50000	-48.6687	19.083	0.0	0.0	0.0	
45.00000	10.00000	19.50000	-50.1918	19.083	0.0	0.0	0.0	
46.00000	10.00000	19.50000	-51.7369	19.083	0.0	0.0	0.0	
47.00000	10.00000	19.50000	-53.3040	19.083	0.0	0.0	0.0	
48.00000	10.00000	19.50000	-54.8941	19.083	0.0	0.0	0.0	
49.00000	10.00000	19.50000	-56.5072	19.083	0.0	0.0	0.0	
50.00000	10.00000	19.50000	-58.1433	19.083	0.0	0.0	0.0	
51.00000	10.00000	19.50000	-59.8024	19.083	0.0	0.0	0.0	
52.00000	10.00000	19.50000	-61.4845	19.083	0.0	0.0	0.0	
53.00000	10.00000	19.50000	-63.1896	19.083	0.0	0.0	0.0	
54.00000	10.00000	19.50000	-64.9177	19.083	0.0	0.0	0.0	
55.00000	10.00000	19.50000	-66.6688	19.083	0.0	0.0	0.0	
-1.00000	11.00000	19.50000	-68.4429	19.083	0.0	0.0	0.0	
-2.00000	11.00000	19.50000	-70.2400	19.083	0.0	0.0	0.0	
-3.00000	11.00000	19.50000	-72.0611	19.083	0.0	0.0	0.0	
-4.00000	11.00000	19.50000	-73.9062	19.083	0.0	0.0	0.0	
-5.00000	11.00000	19.50000	-75.7763	19.083	0.0	0.0	0.0	
-6.00000	11.00000	19.50000	-77.6714	19.083	0.0	0.0	0.0	
-7.00000	11.00000	19.50000	-79.5925	19.083	0.0	0.0	0.0	
-8.00000	11.00000	19.50000	-81.5396	19.083	0.0	0.0	0.0	
-9.00000	11.00000	19.50000	-83.5127	19.083	0.0	0.0	0.0	
-10.00000	11.00000	19.50000	-85.5118	19.083	0.0	0.0	0.0	
-11.00000	11.00000	19.50000	-87.5369	19.083	0.0	0.0	0.0	
-12.00000	11.00000	19.50000	-89.5880	19.083	0.0	0.0	0.0	
-13.00000	11.00000	19.50000	-91.6651	19.083	0.0	0.0	0.0	
-14.00000	11.00000	19.50000	-93.7682	19.083	0.0	0.0	0.0	
-15.00000	11.00000	19.50000	-95.8973	19.083	0.0	0.0	0.0	
-16.00000	11.00000	19.50000	-98.0524	19.083	0.0	0.0	0.0	
-17.00000	11.00000	19.50000	-100.2335	19.083	0.0	0.0	0.0	
-18.00000	11.00000	19.50000	-102.4406	19.083	0.0	0.0	0.0	
-19.00000	11.00000	19.50000	-104.6737	19.083	0.0	0.0	0.0	
-20.00000	11.00000	19.50000	-106.9328	19.083	0.0	0.0	0.0	
-21.00000	11.00000	19.50000	-109.2179	19.083	0.0	0.0	0.0	
-22.00000	11.00000	19.50000	-111.5290	19.083	0.0	0.0	0.0	
-23.00000	11.00000	19.50000	-113.8661	19.083	0.0	0.0	0.0	
-24.00000	11.00000	19.50000	-116.2292	19.083	0.0	0.0	0.0	
-25.00000	11.00000	19.50000	-118.6183	19.083	0.0	0.0	0.0	
-26.00000	11.00000	19.50000	-121.0334	19.083	0.0	0.0	0.0	
-27.00000	11.00000	19.50000	-123.4745	19.083	0.0	0.0	0.0	
-28.00000	11.00000	19.50000	-125.9416	19.083	0.0	0.0	0.0	
-29.00000	11.00000	19.50000	-128.4347	19.083	0.0	0.0	0.0	
-30.00000	11.00000	19.50000	-130.9538	19.083	0.0	0.0	0.0	
-31.00000	11.00000	19.50000	-133.4989	19.083	0.0	0.0	0.0	
-32.00000	11.00000	19.5000						



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Dr. Ref.		
Made by	Date	Checked
MP		

Name	Location		Z [Level] [mm]	Z [mm]	Stresses		
	X [m]	Y [m]			Calc Level [mOD]	Vert Stress [kN/m ²]	Sum Princ [kN/m ²]
17.00000	11.00000	19.50000	-10.922	19.083	0.0	0.0	0.0
18.00000	11.00000	19.50000	-10.609	19.083	0.0	0.0	0.0
19.00000	11.00000	19.50000	-10.142	19.083	0.0	0.0	0.0
20.00000	11.00000	19.50000	-9.2623	19.083	0.0	0.0	0.0
21.00000	11.00000	19.50000	-8.3741	19.083	0.0	0.0	0.0
22.00000	11.00000	19.50000	-7.4826	19.083	0.0	0.0	0.0
23.00000	11.00000	19.50000	-7.5270	19.083	0.0	0.0	0.0
24.00000	11.00000	19.50000	-7.2449	19.083	0.0	0.0	0.0
25.00000	11.00000	19.50000	-7.0048	19.083	0.0	0.0	0.0
26.00000	11.00000	19.50000	-6.7866	19.083	0.0	0.0	0.0
27.00000	11.00000	19.50000	-6.5754	19.083	0.0	0.0	0.0
28.00000	11.00000	19.50000	-6.3573	19.083	0.0	0.0	0.0
29.00000	11.00000	19.50000	-6.1182	19.083	0.0	0.0	0.0
30.00000	11.00000	19.50000	-5.8409	19.083	0.0	0.0	0.0
31.00000	11.00000	19.50000	-5.5014	19.083	0.0	0.0	0.0
32.00000	11.00000	19.50000	-5.0603	19.083	0.0	0.0	0.0
33.00000	11.00000	19.50000	-4.4381	19.083	0.0	0.0	0.0
34.00000	11.00000	19.50000	-3.2999	19.083	0.0	0.0	0.0
35.00000	11.00000	19.50000	-2.1661	19.083	0.0	0.0	0.0
36.00000	11.00000	19.50000	-1.5576	19.083	0.0	0.0	0.0
37.00000	11.00000	19.50000	-1.1399	19.083	0.0	0.0	0.0
38.00000	11.00000	19.50000	-0.83475	19.083	0.0	0.0	0.0
39.00000	11.00000	19.50000	-0.60448	19.083	0.0	0.0	0.0
40.00000	11.00000	19.50000	-0.42753	19.083	0.0	0.0	0.0
41.00000	11.00000	19.50000	-0.2915	19.083	0.0	0.0	0.0
42.00000	11.00000	19.50000	-0.18289	19.083	0.0	0.0	0.0
43.00000	11.00000	19.50000	-0.098925	19.083	0.0	0.0	0.0
44.00000	11.00000	19.50000	-0.033205	19.083	0.0	0.0	0.0
45.00000	11.00000	19.50000	0.018118	19.083	0.0	0.0	0.0
46.00000	11.00000	19.50000	0.050909	19.083	0.0	0.0	0.0
47.00000	11.00000	19.50000	0.088786	19.083	0.0	0.0	0.0
48.00000	11.00000	19.50000	0.11227	19.083	0.0	0.0	0.0
49.00000	11.00000	19.50000	0.12992	19.083	0.0	0.0	0.0
50.00000	11.00000	19.50000	0.14288	19.083	0.0	0.0	0.0
51.00000	11.00000	19.50000	0.15208	19.083	0.0	0.0	0.0
52.00000	11.00000	19.50000	0.15827	19.083	0.0	0.0	0.0
53.00000	11.00000	19.50000	0.16205	19.083	0.0	0.0	0.0
54.00000	11.00000	19.50000	0.16391	19.083	0.0	0.0	0.0
55.00000	11.00000	19.50000	0.16425	19.083	0.0	0.0	0.0
-25.00000	12.00000	19.50000	0.17568	19.083	0.0	0.0	0.0
-24.00000	12.00000	19.50000	0.17761	19.083	0.0	0.0	0.0
-23.00000	12.00000	19.50000	0.17824	19.083	0.0	0.0	0.0
-22.00000	12.00000	19.50000	0.17747	19.083	0.0	0.0	0.0
-21.00000	12.00000	19.50000	0.17495	19.083	0.0	0.0	0.0
-20.00000	12.00000	19.50000	0.17021	19.083	0.0	0.0	0.0
-19.00000	12.00000	19.50000	0.16271	19.083	0.0	0.0	0.0
-18.00000	12.00000	19.50000	0.15177	19.083	0.0	0.0	0.0
-17.00000	12.00000	19.50000	0.13655	19.083	0.0	0.0	0.0
-16.00000	12.00000	19.50000	0.11604	19.083	0.0	0.0	0.0
-15.00000	12.00000	19.50000	0.098949	19.083	0.0	0.0	0.0
-14.00000	12.00000	19.50000	0.053701	19.083	0.0	0.0	0.0
-13.00000	12.00000	19.50000	0.0083209	19.083	0.0	0.0	0.0
-12.00000	12.00000	19.50000	-0.049662	19.083	0.0	0.0	0.0
-11.00000	12.00000	19.50000	-0.12337	19.083	0.0	0.0	0.0
-10.00000	12.00000	19.50000	-0.21275	19.083	0.0	0.0	0.0
-9.00000	12.00000	19.50000	-0.33489	19.083	0.0	0.0	0.0
-8.00000	12.00000	19.50000	-0.48438	19.083	0.0	0.0	0.0
-7.00000	12.00000	19.50000	-0.67390	19.083	0.0	0.0	0.0
-6.00000	12.00000	19.50000	-0.91518	19.083	0.0	0.0	0.0
-5.00000	12.00000	19.50000	-1.22445	19.083	0.0	0.0	0.0
-4.00000	12.00000	19.50000	-1.6259	19.083	0.0	0.0	0.0
-3.00000	12.00000	19.50000	-2.1566	19.083	0.0	0.0	0.0
-2.00000	12.00000	19.50000	-2.8829	19.083	0.0	0.0	0.0
-1.00000	12.00000	19.50000	-3.9428	19.083	0.0	0.0	0.0
0.00000	12.00000	19.50000	-5.3291	19.083	0.0	0.0	0.0
1.00000	12.00000	19.50000	-7.9144	19.083	0.0	0.0	0.0
2.00000	12.00000	19.50000	-8.9711	19.083	0.0	0.0	0.0
3.00000	12.00000	19.50000	-9.6919	19.083	0.0	0.0	0.0
4.00000	12.00000	19.50000	-10.214	19.083	0.0	0.0	0.0
5.00000	12.00000	19.50000	-10.604	19.083	0.0	0.0	0.0
6.00000	12.00000	19.50000	-10.899	19.083	0.0	0.0	0.0
7.00000	12.00000	19.50000	-11.120	19.083	0.0	0.0	0.0
8.00000	12.00000	19.50000	-11.285	19.083	0.0	0.0	0.0
9.00000	12.00000	19.50000	-11.402	19.083	0.0	0.0	0.0
10.00000	12.00000	19.50000	-11.478	19.083	0.0	0.0	0.0
11.00000	12.00000	19.50000	-11.519	19.083	0.0	0.0	0.0
12.00000	12.00000	19.50000	-11.526	19.083	0.0	0.0	0.0
13.00000	12.00000	19.50000	-11.499	19.083	0.0	0.0	0.0
14.00000	12.00000	19.50000	-11.436	19.083	0.0	0.0	0.0
15.00000	12.00000	19.50000	-11.331	19.083	0.0	0.0	0.0
16.00000	12.00000	19.50000	-11.177	19.083	0.0	0.0	0.0
17.00000	12.00000	19.50000	-10.957	19.083	0.0	0.0	0.0
18.00000	12.00000	19.50000	-10.643	19.083	0.0	0.0	0.0
19.00000	12.00000	19.50000	-10.175	19.083	0.0	0.0	0.0
20.00000	12.00000	19.50000	-9.2938	19.083	0.0	0.0	0.0
21.00000	12.00000	19.50000	-8.4044	19.083	0.0	0.0	0.0
22.00000	12.00000	19.50000	-7.9117	19.083	0.0	0.0	0.0
23.00000	12.00000	19.50000	-7.5548	19.083	0.0	0.0	0.0
24.00000	12.00000	19.50000	-7.2714	19.083	0.0	0.0	0.0
25.00000	12.00000	19.50000	-7.0300	19.083	0.0	0.0	0.0
26.00000	12.00000	19.50000	-6.8106	19.083	0.0	0.0	0.0
27.00000	12.00000	19.50000	-6.5980	19.083	0.0	0.0	0.0
28.00000	12.00000	19.50000	-6.3785	19.083	0.0	0.0	0.0
29.00000	12.00000	19.50000	-6.1380	19.083	0.0	0.0	0.0
30.00000	12.00000	19.50000	-5.8593	19.083	0.0	0.0	0.0
31.00000	12.00000	19.50000	-5.5183	19.083	0.0	0.0	0.0
32.00000	12.00000	19.50000	-5.0756	19.083	0.0	0.0	0.0
33.00000	12.00000	19.50000	-4.4519	19.083	0.0	0.0	0.0
34.00000	12.00000	19.50000	-3.3122	19.083	0.0	0.0	0.0
35.00000	12.00000	19.50000	-2.1769	19.083	0.0	0.0	0.0
36.00000	12.00000	19.50000	-1.5669	19.083	0.0	0.0	0.0
37.00000	12.00000	19.50000	-1.1479	19.083	0.0	0.0	0.0
38.00000	12.00000	19.50000	-0.84152	19.083	0.0	0.0	0.0
39.00000	12.00000	19.50000	-0.61013	19.083	0.0	0.0	0.0
40.00000	12.00000	19.50000	-0.43220	19.083	0.0	0.0	0.0
41.00000	12.00000	19.50000	-0.29397	19.083	0.0	0.0	0.0
42.00000	12.00000	19.50000	-0.18597	19.083	0.0	0.0	0.0
43.00000	12.00000	19.50000	-0.10139	19.083	0.0	0.0	0.0
44.00000	12.00000	19.50000	-0.035157	19.083	0.0	0.0	0.0
45.00000	12.00000	19.50000	0.016592	19.083	0.0	0.0	0.0
46.00000	12.00000	19.50000	0.056832	19.083	0.0	0.0	0.0
47.00000	12.00000	19.50000	0.087893	19.083	0.0	0.0	0.0
48.00000	12.00000	19.50000	0.11161	19.083	0.0	0.0	0.0
49.00000	12.00000	19.50000	0.12944	19.083	0.0	0.0	0.0
50.00000	12.00000	19.50000	0.14245	19.083	0.0	0.0	0.0
51.00000	12.00000	19.50000	0.15187	19.083	0.0	0.0	0.0
52.00000	12.00000	19.50000	0.15815	19.083	0.0	0.0	0.0
53.00000	12.00000	19.50000	0.16200	19.083	0.0	0.0	0.0
54.00000	12.00000	19.50000	0.16392	19.083	0.0	0.0	0.0
55.00000	12.00000	19.50000	0.16429	19.083	0.0	0.0	0.0
-25.00000	13.00000	19.50000	0.17592	19.083	0.0	0.0	0.0
-24.00000	13.00000	19.50000	0.17764	19.083	0.0	0.0	0.0
-23.00000	13.00000	19.50000	0.17826	19.083	0.0	0.0	0.0
-22.00000	13.00000	19.50000	0.17748	19.083	0.0	0.0	0.0
-21.00000	13.00000	19.50000	0.17495	19.083	0.0	0.0	0.0
-20.00000	13.00000	19.50000	0.17016	19.083	0.0	0.0	0.0
-19.00000	13.00000	19.50000	0.16263	19.083	0.0	0.0	0.0
-18.00000	13.00000	19.50000	0.15165	19.083	0.0	0.0	0.0
-17.00000	13.00000	19.50000	0.13638	19.083	0.0	0.0	0.0
-16.00000	13.00000	19.50000	0.11579	19.083	0.0	0.0	0.0
-15.00000	13.00000	19.50000	0.088617	19.083	0.0	0.0	



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No. Sheet No. Rev.

J15249

Dr. Ref.

Made by MP

Date

Checked

Name	Location		Z [Level] [mm]	Z [mm]	Calc Level [mOD]	Stresses		
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
-4.00000	13.00000	19.50000	-1.6297	19.083	0.0	0.0	0.0	
-3.00000	13.00000	19.50000	-2.1612	19.083	0.0	0.0	0.0	
-2.00000	13.00000	19.50000	-2.8882	19.083	0.0	0.0	0.0	
-1.00000	13.00000	19.50000	-3.9488	19.083	0.0	0.0	0.0	
0.00000	13.00000	19.50000	-5.9359	19.083	0.0	0.0	0.0	
1.00000	13.00000	19.50000	-7.9220	19.083	0.0	0.0	0.0	
2.00000	13.00000	19.50000	-8.9794	19.083	0.0	0.0	0.0	
3.00000	13.00000	19.50000	-9.7009	19.083	0.0	0.0	0.0	
4.00000	13.00000	19.50000	-10.2224	19.083	0.0	0.0	0.0	
5.00000	13.00000	19.50000	-10.615	19.083	0.0	0.0	0.0	
6.00000	13.00000	19.50000	-10.909	19.083	0.0	0.0	0.0	
7.00000	13.00000	19.50000	-11.131	19.083	0.0	0.0	0.0	
8.00000	13.00000	19.50000	-11.296	19.083	0.0	0.0	0.0	
9.00000	13.00000	19.50000	-11.413	19.083	0.0	0.0	0.0	
10.00000	13.00000	19.50000	-11.490	19.083	0.0	0.0	0.0	
11.00000	13.00000	19.50000	-11.531	19.083	0.0	0.0	0.0	
12.00000	13.00000	19.50000	-11.538	19.083	0.0	0.0	0.0	
13.00000	13.00000	19.50000	-11.511	19.083	0.0	0.0	0.0	
14.00000	13.00000	19.50000	-11.448	19.083	0.0	0.0	0.0	
15.00000	13.00000	19.50000	-11.343	19.083	0.0	0.0	0.0	
16.00000	13.00000	19.50000	-11.198	19.083	0.0	0.0	0.0	
17.00000	13.00000	19.50000	-10.968	19.083	0.0	0.0	0.0	
18.00000	13.00000	19.50000	-10.654	19.083	0.0	0.0	0.0	
19.00000	13.00000	19.50000	-10.186	19.083	0.0	0.0	0.0	
20.00000	13.00000	19.50000	-9.3041	19.083	0.0	0.0	0.0	
21.00000	13.00000	19.50000	-8.4144	19.083	0.0	0.0	0.0	
22.00000	13.00000	19.50000	-7.9212	19.083	0.0	0.0	0.0	
23.00000	13.00000	19.50000	-7.5639	19.083	0.0	0.0	0.0	
24.00000	13.00000	19.50000	-7.2801	19.083	0.0	0.0	0.0	
25.00000	13.00000	19.50000	-7.0383	19.083	0.0	0.0	0.0	
26.00000	13.00000	19.50000	-6.8184	19.083	0.0	0.0	0.0	
27.00000	13.00000	19.50000	-6.6054	19.083	0.0	0.0	0.0	
28.00000	13.00000	19.50000	-6.3855	19.083	0.0	0.0	0.0	
29.00000	13.00000	19.50000	-6.1445	19.083	0.0	0.0	0.0	
30.00000	13.00000	19.50000	-5.8653	19.083	0.0	0.0	0.0	
31.00000	13.00000	19.50000	-5.5238	19.083	0.0	0.0	0.0	
32.00000	13.00000	19.50000	-5.0807	19.083	0.0	0.0	0.0	
33.00000	13.00000	19.50000	-4.4565	19.083	0.0	0.0	0.0	
34.00000	13.00000	19.50000	-3.3162	19.083	0.0	0.0	0.0	
35.00000	13.00000	19.50000	-2.1805	19.083	0.0	0.0	0.0	
36.00000	13.00000	19.50000	-1.5700	19.083	0.0	0.0	0.0	
37.00000	13.00000	19.50000	-1.1505	19.083	0.0	0.0	0.0	
38.00000	13.00000	19.50000	-0.84376	19.083	0.0	0.0	0.0	
39.00000	13.00000	19.50000	-0.61200	19.083	0.0	0.0	0.0	
40.00000	13.00000	19.50000	-0.43374	19.083	0.0	0.0	0.0	
41.00000	13.00000	19.50000	-0.2923	19.083	0.0	0.0	0.0	
42.00000	13.00000	19.50000	-0.18700	19.083	0.0	0.0	0.0	
43.00000	13.00000	19.50000	-0.10221	19.083	0.0	0.0	0.0	
44.00000	13.00000	19.50000	-0.035807	19.083	0.0	0.0	0.0	
45.00000	13.00000	19.50000	0.016823	19.083	0.0	0.0	0.0	
46.00000	13.00000	19.50000	0.056440	19.083	0.0	0.0	0.0	
47.00000	13.00000	19.50000	0.087596	19.083	0.0	0.0	0.0	
48.00000	13.00000	19.50000	0.11139	19.083	0.0	0.0	0.0	
49.00000	13.00000	19.50000	0.12928	19.083	0.0	0.0	0.0	
50.00000	13.00000	19.50000	0.14244	19.083	0.0	0.0	0.0	
51.00000	13.00000	19.50000	0.15179	19.083	0.0	0.0	0.0	
52.00000	13.00000	19.50000	0.15811	19.083	0.0	0.0	0.0	
53.00000	13.00000	19.50000	0.16198	19.083	0.0	0.0	0.0	
54.00000	13.00000	19.50000	0.16392	19.083	0.0	0.0	0.0	
55.00000	13.00000	19.50000	0.16429	19.083	0.0	0.0	0.0	
-25.00000	14.00000	19.50000	0.17588	19.083	0.0	0.0	0.0	
-24.00000	14.00000	19.50000	0.17761	19.083	0.0	0.0	0.0	
-23.00000	14.00000	19.50000	0.17824	19.083	0.0	0.0	0.0	
-22.00000	14.00000	19.50000	0.17747	19.083	0.0	0.0	0.0	
-21.00000	14.00000	19.50000	0.17495	19.083	0.0	0.0	0.0	
-20.00000	14.00000	19.50000	0.17021	19.083	0.0	0.0	0.0	
-19.00000	14.00000	19.50000	0.16271	19.083	0.0	0.0	0.0	
-18.00000	14.00000	19.50000	0.15177	19.083	0.0	0.0	0.0	
-17.00000	14.00000	19.50000	0.13655	19.083	0.0	0.0	0.0	
-16.00000	14.00000	19.50000	0.11604	19.083	0.0	0.0	0.0	
-15.00000	14.00000	19.50000	0.088949	19.083	0.0	0.0	0.0	
-14.00000	14.00000	19.50000	0.053701	19.083	0.0	0.0	0.0	
-13.00000	14.00000	19.50000	0.0083209	19.083	0.0	0.0	0.0	
-12.00000	14.00000	19.50000	-0.049662	19.083	0.0	0.0	0.0	
-11.00000	14.00000	19.50000	-0.12327	19.083	0.0	0.0	0.0	
-10.00000	14.00000	19.50000	-0.21675	19.083	0.0	0.0	0.0	
-9.00000	14.00000	19.50000	-0.33489	19.083	0.0	0.0	0.0	
-8.00000	14.00000	19.50000	-0.48438	19.083	0.0	0.0	0.0	
-7.00000	14.00000	19.50000	-0.67390	19.083	0.0	0.0	0.0	
-6.00000	14.00000	19.50000	-0.91518	19.083	0.0	0.0	0.0	
-5.00000	14.00000	19.50000	-1.2245	19.083	0.0	0.0	0.0	
-4.00000	14.00000	19.50000	-1.6259	19.083	0.0	0.0	0.0	
-3.00000	14.00000	19.50000	-2.1566	19.083	0.0	0.0	0.0	
-2.00000	14.00000	19.50000	-2.8829	19.083	0.0	0.0	0.0	
-1.00000	14.00000	19.50000	-3.9428	19.083	0.0	0.0	0.0	
0.00000	14.00000	19.50000	-5.9291	19.083	0.0	0.0	0.0	
1.00000	14.00000	19.50000	-7.9144	19.083	0.0	0.0	0.0	
2.00000	14.00000	19.50000	-8.9711	19.083	0.0	0.0	0.0	
3.00000	14.00000	19.50000	-9.6919	19.083	0.0	0.0	0.0	
4.00000	14.00000	19.50000	-10.214	19.083	0.0	0.0	0.0	
5.00000	14.00000	19.50000	-10.604	19.083	0.0	0.0	0.0	
6.00000	14.00000	19.50000	-10.899	19.083	0.0	0.0	0.0	
7.00000	14.00000	19.50000	-11.120	19.083	0.0	0.0	0.0	
8.00000	14.00000	19.50000	-11.285	19.083	0.0	0.0	0.0	
9.00000	14.00000	19.50000	-11.402	19.083	0.0	0.0	0.0	
10.00000	14.00000	19.50000	-11.478	19.083	0.0	0.0	0.0	
11.00000	14.00000	19.50000	-11.519	19.083	0.0	0.0	0.0	
12.00000	14.00000	19.50000	-11.526	19.083	0.0	0.0	0.0	
13.00000	14.00000	19.50000	-11.499	19.083	0.0	0.0	0.0	
14.00000	14.00000	19.50000	-11.436	19.083	0.0	0.0	0.0	
15.00000	14.00000	19.50000	-11.331	19.083	0.0	0.0	0.0	
16.00000	14.00000	19.50000	-11.177	19.083	0.0	0.0	0.0	
17.00000	14.00000	19.50000	-10.957	19.083	0.0	0.0	0.0	
18.00000	14.00000	19.50000	-10.643	19.083	0.0	0.0	0.0	
19.00000	14.00000	19.50000	-10.175	19.083	0.0	0.0	0.0	
20.00000	14.00000	19.50000	-9.2938	19.083	0.0	0.0	0.0	
21.00000	14.00000	19.50000	-8.4044	19.083	0.0	0.0	0.0	
22.00000	14.00000	19.50000	-7.9117	19.083	0.0	0.0	0.0	
23.00000	14.00000	19.50000	-7.5548	19.083	0.0	0.0	0.0	
24.00000	14.00000	19.50000	-7.2714	19.083	0.0	0.0	0.0	
25.00000	14.00000	19.50000	-7.0300	19.083	0.0	0.0	0.0	
26.00000	14.00000	19.50000	-6.8106	19.083	0.0	0.0	0.0	
27.00000	14.00000	19.50000	-6.5980	19.083	0.0	0.0	0.0	
28.00000	14.00000	19.50000	-6.3785	19.083	0.0	0.0	0.0	
29.00000	14.00000	19.50000	-6.1380	19.083	0.0	0.0	0.0	
30.00000	14.00000	19.50000	-5.8593	19.083	0.0	0.0	0.0	
31.00000	14.00000	19.50000	-5.5183	19.083	0.0	0.0	0.0	
32.00000	14.00000	19.50000	-5.0756	19.083	0.0	0.0	0.0	
33.00000	14.00000	19.50000	-4.4519	19.083	0.0	0.0	0.0	
34.00000	14.00000	19.50000	-3.7122	19.083	0.0	0.0	0.0	
35.00000	14.00000	19.50000	-2.769	19.083	0.0	0.0	0.0	
36.00000	14.00000	19.50000	-1.5669	19.083	0.0	0.0	0.0	
37.00000	14.00000	19.50000	-1.1479	19.083	0.0	0.0	0.0	
38.00000	14.00000	19.50000	-0.84152	19.083	0.0	0.0	0.0	
39.00000	14.00000	19.50000	-0.63013	19.083	0.0	0.0	0.0	
40.00000	14.00000	19.50000	-0.43220	19.083	0.0	0.0	0.0	
41.00000	14.00000	19.50000	-0.29397	19.083	0.0	0.0	0.0	
42.00000	14.00000	19.50000	-0.18597	19.083	0.0	0.0	0.0	
43.00000	14.00000	19.50000	-0.10139	19.083	0.0	0.0	0.0	
44.00000	14.00000	19.50000	-0.05157	19.083	0.0	0.0	0.0	
45.00000	14.00000	19.50000	0.016592	19.083	0.0	0.0	0.0	
46.00000	1							



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Dr. Ref.		
Made by	Date	Checked
MP		

Name	Location		Z [Level] [mm]	Z [mm]	Calc Level [mOD]	Stresses		
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
-25.00000	15.00000	19.50000	0.17576	19.083	0.0	0.0	0.0	
-24.00000	15.00000	19.50000	0.17751	19.083	0.0	0.0	0.0	
-23.00000	15.00000	19.50000	0.17818	19.083	0.0	0.0	0.0	
-22.00000	15.00000	19.50000	0.17746	19.083	0.0	0.0	0.0	
-21.00000	15.00000	19.50000	0.17499	19.083	0.0	0.0	0.0	
-20.00000	15.00000	19.50000	0.17033	19.083	0.0	0.0	0.0	
-19.00000	15.00000	19.50000	0.16294	19.083	0.0	0.0	0.0	
-18.00000	15.00000	19.50000	0.15213	19.083	0.0	0.0	0.0	
-17.00000	15.00000	19.50000	0.13708	19.083	0.0	0.0	0.0	
-16.00000	15.00000	19.50000	0.11677	19.083	0.0	0.0	0.0	
-15.00000	15.00000	19.50000	0.08945	19.083	0.0	0.0	0.0	
-14.00000	15.00000	19.50000	0.055021	19.083	0.0	0.0	0.0	
-13.00000	15.00000	19.50000	0.010044	19.083	0.0	0.0	0.0	
-12.00000	15.00000	19.50000	-0.047444	19.083	0.0	0.0	0.0	
-11.00000	15.00000	19.50000	-0.12054	19.083	0.0	0.0	0.0	
-10.00000	15.00000	19.50000	-0.21319	19.083	0.0	0.0	0.0	
-9.00000	15.00000	19.50000	-0.33045	19.083	0.0	0.0	0.0	
-8.00000	15.00000	19.50000	-0.47888	19.083	0.0	0.0	0.0	
-7.00000	15.00000	19.50000	-0.66716	19.083	0.0	0.0	0.0	
-6.00000	15.00000	19.50000	-0.90699	19.083	0.0	0.0	0.0	
-5.00000	15.00000	19.50000	-1.2147	19.083	0.0	0.0	0.0	
-4.00000	15.00000	19.50000	-1.6141	19.083	0.0	0.0	0.0	
-3.00000	15.00000	19.50000	-2.1428	19.083	0.0	0.0	0.0	
-2.00000	15.00000	19.50000	-2.8669	19.083	0.0	0.0	0.0	
-1.00000	15.00000	19.50000	-3.8245	19.083	0.0	0.0	0.0	
0.00000	15.00000	19.50000	-5.0084	19.083	0.0	0.0	0.0	
1.00000	15.00000	19.50000	-7.8913	19.083	0.0	0.0	0.0	
2.00000	15.00000	19.50000	-8.9457	19.083	0.0	0.0	0.0	
3.00000	15.00000	19.50000	-9.6643	19.083	0.0	0.0	0.0	
4.00000	15.00000	19.50000	-10.185	19.083	0.0	0.0	0.0	
5.00000	15.00000	19.50000	-10.573	19.083	0.0	0.0	0.0	
6.00000	15.00000	19.50000	-10.866	19.083	0.0	0.0	0.0	
7.00000	15.00000	19.50000	-11.086	19.083	0.0	0.0	0.0	
8.00000	15.00000	19.50000	-11.249	19.083	0.0	0.0	0.0	
9.00000	15.00000	19.50000	-11.366	19.083	0.0	0.0	0.0	
10.00000	15.00000	19.50000	-11.442	19.083	0.0	0.0	0.0	
11.00000	15.00000	19.50000	-11.483	19.083	0.0	0.0	0.0	
12.00000	15.00000	19.50000	-11.489	19.083	0.0	0.0	0.0	
13.00000	15.00000	19.50000	-11.462	19.083	0.0	0.0	0.0	
14.00000	15.00000	19.50000	-11.399	19.083	0.0	0.0	0.0	
15.00000	15.00000	19.50000	-11.295	19.083	0.0	0.0	0.0	
16.00000	15.00000	19.50000	-11.141	19.083	0.0	0.0	0.0	
17.00000	15.00000	19.50000	-10.922	19.083	0.0	0.0	0.0	
18.00000	15.00000	19.50000	-10.609	19.083	0.0	0.0	0.0	
19.00000	15.00000	19.50000	-10.142	19.083	0.0	0.0	0.0	
20.00000	15.00000	19.50000	-9.2623	19.083	0.0	0.0	0.0	
21.00000	15.00000	19.50000	-8.3741	19.083	0.0	0.0	0.0	
22.00000	15.00000	19.50000	-7.8826	19.083	0.0	0.0	0.0	
23.00000	15.00000	19.50000	-7.5270	19.083	0.0	0.0	0.0	
24.00000	15.00000	19.50000	-7.2449	19.083	0.0	0.0	0.0	
25.00000	15.00000	19.50000	-7.0048	19.083	0.0	0.0	0.0	
26.00000	15.00000	19.50000	-6.7866	19.083	0.0	0.0	0.0	
27.00000	15.00000	19.50000	-6.5754	19.083	0.0	0.0	0.0	
28.00000	15.00000	19.50000	-6.3573	19.083	0.0	0.0	0.0	
29.00000	15.00000	19.50000	-6.1182	19.083	0.0	0.0	0.0	
30.00000	15.00000	19.50000	-5.8409	19.083	0.0	0.0	0.0	
31.00000	15.00000	19.50000	-5.5014	19.083	0.0	0.0	0.0	
32.00000	15.00000	19.50000	-5.0603	19.083	0.0	0.0	0.0	
33.00000	15.00000	19.50000	-4.4381	19.083	0.0	0.0	0.0	
34.00000	15.00000	19.50000	-3.5999	19.083	0.0	0.0	0.0	
35.00000	15.00000	19.50000	-2.1661	19.083	0.0	0.0	0.0	
36.00000	15.00000	19.50000	-1.5576	19.083	0.0	0.0	0.0	
37.00000	15.00000	19.50000	-1.1399	19.083	0.0	0.0	0.0	
38.00000	15.00000	19.50000	-0.83475	19.083	0.0	0.0	0.0	
39.00000	15.00000	19.50000	-0.6048	19.083	0.0	0.0	0.0	
40.00000	15.00000	19.50000	-0.42753	19.083	0.0	0.0	0.0	
41.00000	15.00000	19.50000	-0.29015	19.083	0.0	0.0	0.0	
42.00000	15.00000	19.50000	-0.18289	19.083	0.0	0.0	0.0	
43.00000	15.00000	19.50000	-0.098925	19.083	0.0	0.0	0.0	
44.00000	15.00000	19.50000	-0.032005	19.083	0.0	0.0	0.0	
45.00000	15.00000	19.50000	0.018118	19.083	0.0	0.0	0.0	
46.00000	15.00000	19.50000	0.058009	19.083	0.0	0.0	0.0	
47.00000	15.00000	19.50000	0.088786	19.083	0.0	0.0	0.0	
48.00000	15.00000	19.50000	0.11227	19.083	0.0	0.0	0.0	
49.00000	15.00000	19.50000	0.12922	19.083	0.0	0.0	0.0	
50.00000	15.00000	19.50000	0.14288	19.083	0.0	0.0	0.0	
51.00000	15.00000	19.50000	0.15208	19.083	0.0	0.0	0.0	
52.00000	15.00000	19.50000	0.15827	19.083	0.0	0.0	0.0	
53.00000	15.00000	19.50000	0.16205	19.083	0.0	0.0	0.0	
54.00000	15.00000	19.50000	0.16391	19.083	0.0	0.0	0.0	
55.00000	15.00000	19.50000	0.16425	19.083	0.0	0.0	0.0	
-25.00000	16.00000	19.50000	0.17556	19.083	0.0	0.0	0.0	
-24.00000	16.00000	19.50000	0.17736	19.083	0.0	0.0	0.0	
-23.00000	16.00000	19.50000	0.17808	19.083	0.0	0.0	0.0	
-22.00000	16.00000	19.50000	0.17744	19.083	0.0	0.0	0.0	
-21.00000	16.00000	19.50000	0.17507	19.083	0.0	0.0	0.0	
-20.00000	16.00000	19.50000	0.17054	19.083	0.0	0.0	0.0	
-19.00000	16.00000	19.50000	0.16331	19.083	0.0	0.0	0.0	
-18.00000	16.00000	19.50000	0.15272	19.083	0.0	0.0	0.0	
-17.00000	16.00000	19.50000	0.13795	19.083	0.0	0.0	0.0	
-16.00000	16.00000	19.50000	0.11799	19.083	0.0	0.0	0.0	
-15.00000	16.00000	19.50000	0.091595	19.083	0.0	0.0	0.0	
-14.00000	16.00000	19.50000	0.057213	19.083	0.0	0.0	0.0	
-13.00000	16.00000	19.50000	0.012907	19.083	0.0	0.0	0.0	
-12.00000	16.00000	19.50000	-0.043753	19.083	0.0	0.0	0.0	
-11.00000	16.00000	19.50000	-0.11584	19.083	0.0	0.0	0.0	
-10.00000	16.00000	19.50000	-0.20725	19.083	0.0	0.0	0.0	
-9.00000	16.00000	19.50000	-0.32301	19.083	0.0	0.0	0.0	
-8.00000	16.00000	19.50000	-0.46965	19.083	0.0	0.0	0.0	
-7.00000	16.00000	19.50000	-0.65881	19.083	0.0	0.0	0.0	
-6.00000	16.00000	19.50000	-0.89316	19.083	0.0	0.0	0.0	
-5.00000	16.00000	19.50000	-1.1980	19.083	0.0	0.0	0.0	
-4.00000	16.00000	19.50000	-1.5942	19.083	0.0	0.0	0.0	
-3.00000	16.00000	19.50000	-2.1194	19.083	0.0	0.0	0.0	
-2.00000	16.00000	19.50000	-2.8396	19.083	0.0	0.0	0.0	
-1.00000	16.00000	19.50000	-3.8931	19.083	0.0	0.0	0.0	
0.00000	16.00000	19.50000	-5.8728	19.083	0.0	0.0	0.0	
1.00000	16.00000	19.50000	-7.8515	19.083	0.0	0.0	0.0	
2.00000	16.00000	19.50000	-8.7019	19.083	0.0	0.0	0.0	
3.00000	16.00000	19.50000	-9.6167	19.083	0.0	0.0	0.0	
4.00000	16.00000	19.50000	-10.134	19.083	0.0	0.0	0.0	
5.00000	16.00000	19.50000	-10.519	19.083	0.0	0.0	0.0	
6.00000	16.00000	19.50000	-10.809	19.083	0.0	0.0	0.0	
7.00000	16.00000	19.50000	-11.027	19.083	0.0	0.0	0.0	
8.00000	16.00000	19.50000	-11.189	19.083	0.0	0.0	0.0	
9.00000	16.00000	19.50000	-11.304	19.083	0.0	0.0	0.0	
10.00000	16.00000	19.50000	-11.379	19.083	0.0	0.0	0.0	
11.00000	16.00000	19.50000	-11.419	19.083	0.0	0.0	0.0	
12.00000	16.00000	19.50000	-11.426	19.083	0.0	0.0	0.0	
13.00000	16.00000	19.50000	-11.399	19.083	0.0	0.0	0.0	
14.00000	16.00000	19.50000	-11.336	19.083	0.0	0.0	0.0	
15.00000	16.00000	19.50000	-11.233	19.083	0.0	0.0	0.0	
16.00000	16.00000	19.50000	-11.080	19.083	0.0	0.0	0.0	
17.00000	16.00000	19.50000	-10.862	19.083	0.0	0.0	0.0	
18.00000	16.00000	19.50000	-10.551	19.083	0.0	0.0	0.0	
19.00000	16.00000	19.50000	-10.086	19.083	0.0	0.0	0.0	
20.00000	16.00000	19.50000	-9.2080	19.083	0.0	0.0	0.0	
21.00000	16.00000	19.50000	-8.3220	19.083	0.0	0.0	0.0	
22.00000	16.00000	19.50000	-7.8326	19.083	0.0	0.0	0.0	
23.00000	16.00000	19.50000	-7.4792	19.083	0.0	0.0	0.0	
24.00000	16.00000	19.50000	-7.1993	19.083	0.0	0.0	0.0	
25.00000	1							



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Dr. Ref.		
Made by	Date	Checked
MP		

Name	Location		Z [Level] [mm]	Z [mm]	Calc Level [mOD]	Stresses		
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
35.00000	16.00000	19.50000	-2.1476	19.083	0.0	0.0	0.0	
36.00000	16.00000	19.50000	-1.5416	19.083	0.0	0.0	0.0	
37.00000	16.00000	19.50000	-1.1262	19.083	0.0	0.0	0.0	
38.00000	16.00000	19.50000	-0.82326	19.083	0.0	0.0	0.0	
39.00000	16.00000	19.50000	-0.59491	19.083	0.0	0.0	0.0	
40.00000	16.00000	19.50000	-0.41965	19.083	0.0	0.0	0.0	
41.00000	16.00000	19.50000	-0.28373	19.083	0.0	0.0	0.0	
42.00000	16.00000	19.50000	-0.17771	19.083	0.0	0.0	0.0	
43.00000	16.00000	19.50000	-0.094796	19.083	0.0	0.0	0.0	
44.00000	16.00000	19.50000	-0.029945	19.083	0.0	0.0	0.0	
45.00000	16.00000	19.50000	0.020663	19.083	0.0	0.0	0.0	
46.00000	16.00000	19.50000	0.059967	19.083	0.0	0.0	0.0	
47.00000	16.00000	19.50000	0.090268	19.083	0.0	0.0	0.0	
48.00000	16.00000	19.50000	0.11337	19.083	0.0	0.0	0.0	
49.00000	16.00000	19.50000	0.13071	19.083	0.0	0.0	0.0	
50.00000	16.00000	19.50000	0.14342	19.083	0.0	0.0	0.0	
51.00000	16.00000	19.50000	0.15243	19.083	0.0	0.0	0.0	
52.00000	16.00000	19.50000	0.15847	19.083	0.0	0.0	0.0	
53.00000	16.00000	19.50000	0.16213	19.083	0.0	0.0	0.0	
54.00000	16.00000	19.50000	0.16390	19.083	0.0	0.0	0.0	
55.00000	16.00000	19.50000	0.16487	19.083	0.0	0.0	0.0	
-25.00000	17.00000	19.50000	0.17528	19.083	0.0	0.0	0.0	
-24.00000	17.00000	19.50000	0.17713	19.083	0.0	0.0	0.0	
-23.00000	17.00000	19.50000	0.17793	19.083	0.0	0.0	0.0	
-22.00000	17.00000	19.50000	0.17740	19.083	0.0	0.0	0.0	
-21.00000	17.00000	19.50000	0.17517	19.083	0.0	0.0	0.0	
-20.00000	17.00000	19.50000	0.17083	19.083	0.0	0.0	0.0	
-19.00000	17.00000	19.50000	0.16383	19.083	0.0	0.0	0.0	
-18.00000	17.00000	19.50000	0.15354	19.083	0.0	0.0	0.0	
-17.00000	17.00000	19.50000	0.13915	19.083	0.0	0.0	0.0	
-16.00000	17.00000	19.50000	0.11967	19.083	0.0	0.0	0.0	
-15.00000	17.00000	19.50000	0.093885	19.083	0.0	0.0	0.0	
-14.00000	17.00000	19.50000	0.060260	19.083	0.0	0.0	0.0	
-13.00000	17.00000	19.50000	0.016896	19.083	0.0	0.0	0.0	
-12.00000	17.00000	19.50000	-0.038989	19.083	0.0	0.0	0.0	
-11.00000	17.00000	19.50000	-0.10925	19.083	0.0	0.0	0.0	
-10.00000	17.00000	19.50000	-0.19890	19.083	0.0	0.0	0.0	
-9.00000	17.00000	19.50000	-0.31253	19.083	0.0	0.0	0.0	
-8.00000	17.00000	19.50000	-0.45661	19.083	0.0	0.0	0.0	
-7.00000	17.00000	19.50000	-0.63970	19.083	0.0	0.0	0.0	
-6.00000	17.00000	19.50000	-0.87345	19.083	0.0	0.0	0.0	
-5.00000	17.00000	19.50000	-1.1741	19.083	0.0	0.0	0.0	
-4.00000	17.00000	19.50000	-1.5656	19.083	0.0	0.0	0.0	
-3.00000	17.00000	19.50000	-2.0854	19.083	0.0	0.0	0.0	
-2.00000	17.00000	19.50000	-2.7997	19.083	0.0	0.0	0.0	
-1.00000	17.00000	19.50000	-3.8471	19.083	0.0	0.0	0.0	
0.00000	17.00000	19.50000	-5.8205	19.083	0.0	0.0	0.0	
1.00000	17.00000	19.50000	-7.7929	19.083	0.0	0.0	0.0	
2.00000	17.00000	19.50000	-8.8372	19.083	0.0	0.0	0.0	
3.00000	17.00000	19.50000	-9.5463	19.083	0.0	0.0	0.0	
4.00000	17.00000	19.50000	-10.058	19.083	0.0	0.0	0.0	
5.00000	17.00000	19.50000	-10.439	19.083	0.0	0.0	0.0	
6.00000	17.00000	19.50000	-10.725	19.083	0.0	0.0	0.0	
7.00000	17.00000	19.50000	-10.940	19.083	0.0	0.0	0.0	
8.00000	17.00000	19.50000	-11.099	19.083	0.0	0.0	0.0	
9.00000	17.00000	19.50000	-11.212	19.083	0.0	0.0	0.0	
10.00000	17.00000	19.50000	-11.286	19.083	0.0	0.0	0.0	
11.00000	17.00000	19.50000	-11.325	19.083	0.0	0.0	0.0	
12.00000	17.00000	19.50000	-11.332	19.083	0.0	0.0	0.0	
13.00000	17.00000	19.50000	-11.305	19.083	0.0	0.0	0.0	
14.00000	17.00000	19.50000	-11.243	19.083	0.0	0.0	0.0	
15.00000	17.00000	19.50000	-11.141	19.083	0.0	0.0	0.0	
16.00000	17.00000	19.50000	-10.990	19.083	0.0	0.0	0.0	
17.00000	17.00000	19.50000	-10.774	19.083	0.0	0.0	0.0	
18.00000	17.00000	19.50000	-10.465	19.083	0.0	0.0	0.0	
19.00000	17.00000	19.50000	-10.003	19.083	0.0	0.0	0.0	
20.00000	17.00000	19.50000	-9.1283	19.083	0.0	0.0	0.0	
21.00000	17.00000	19.50000	-8.2453	19.083	0.0	0.0	0.0	
22.00000	17.00000	19.50000	-7.7592	19.083	0.0	0.0	0.0	
23.00000	17.00000	19.50000	-7.4091	19.083	0.0	0.0	0.0	
24.00000	17.00000	19.50000	-7.1324	19.083	0.0	0.0	0.0	
25.00000	17.00000	19.50000	-6.8978	19.083	0.0	0.0	0.0	
26.00000	17.00000	19.50000	-6.6851	19.083	0.0	0.0	0.0	
27.00000	17.00000	19.50000	-6.4794	19.083	0.0	0.0	0.0	
28.00000	17.00000	19.50000	-6.2670	19.083	0.0	0.0	0.0	
29.00000	17.00000	19.50000	-6.0337	19.083	0.0	0.0	0.0	
30.00000	17.00000	19.50000	-5.7625	19.083	0.0	0.0	0.0	
31.00000	17.00000	19.50000	-5.4294	19.083	0.0	0.0	0.0	
32.00000	17.00000	19.50000	-4.9948	19.083	0.0	0.0	0.0	
33.00000	17.00000	19.50000	-4.3793	19.083	0.0	0.0	0.0	
34.00000	17.00000	19.50000	-3.2478	19.083	0.0	0.0	0.0	
35.00000	17.00000	19.50000	-2.1206	19.083	0.0	0.0	0.0	
36.00000	17.00000	19.50000	-1.5184	19.083	0.0	0.0	0.0	
37.00000	17.00000	19.50000	-1.1065	19.083	0.0	0.0	0.0	
38.00000	17.00000	19.50000	-0.80673	19.083	0.0	0.0	0.0	
39.00000	17.00000	19.50000	-0.58121	19.083	0.0	0.0	0.0	
40.00000	17.00000	19.50000	-0.40843	19.083	0.0	0.0	0.0	
41.00000	17.00000	19.50000	-0.27463	19.083	0.0	0.0	0.0	
42.00000	17.00000	19.50000	-0.17040	19.083	0.0	0.0	0.0	
43.00000	17.00000	19.50000	-0.08993	19.083	0.0	0.0	0.0	
44.00000	17.00000	19.50000	-0.025370	19.083	0.0	0.0	0.0	
45.00000	17.00000	19.50000	0.024221	19.083	0.0	0.0	0.0	
46.00000	17.00000	19.50000	0.062699	19.083	0.0	0.0	0.0	
47.00000	17.00000	19.50000	0.092332	19.083	0.0	0.0	0.0	
48.00000	17.00000	19.50000	0.11490	19.083	0.0	0.0	0.0	
49.00000	17.00000	19.50000	0.13181	19.083	0.0	0.0	0.0	
50.00000	17.00000	19.50000	0.14418	19.083	0.0	0.0	0.0	
51.00000	17.00000	19.50000	0.15292	19.083	0.0	0.0	0.0	
52.00000	17.00000	19.50000	0.15875	19.083	0.0	0.0	0.0	
53.00000	17.00000	19.50000	0.16224	19.083	0.0	0.0	0.0	
54.00000	17.00000	19.50000	0.16389	19.083	0.0	0.0	0.0	
55.00000	17.00000	19.50000	0.16405	19.083	0.0	0.0	0.0	
-25.00000	18.00000	19.50000	0.17491	19.083	0.0	0.0	0.0	
-24.00000	18.00000	19.50000	0.17684	19.083	0.0	0.0	0.0	
-23.00000	18.00000	19.50000	0.17774	19.083	0.0	0.0	0.0	
-22.00000	18.00000	19.50000	0.17734	19.083	0.0	0.0	0.0	
-21.00000	18.00000	19.50000	0.17529	19.083	0.0	0.0	0.0	
-20.00000	18.00000	19.50000	0.17118	19.083	0.0	0.0	0.0	
-19.00000	18.00000	19.50000	0.16448	19.083	0.0	0.0	0.0	
-18.00000	18.00000	19.50000	0.15457	19.083	0.0	0.0	0.0	
-17.00000	18.00000	19.50000	0.14067	19.083	0.0	0.0	0.0	
-16.00000	18.00000	19.50000	0.12181	19.083	0.0	0.0	0.0	
-15.00000	18.00000	19.50000	0.096792	19.083	0.0	0.0	0.0	
-14.00000	18.00000	19.50000	0.067138	19.083	0.0	0.0	0.0	
-13.00000	18.00000	19.50000	0.023985	19.083	0.0	0.0	0.0	
-12.00000	18.00000	19.50000	-0.032004	19.083	0.0	0.0	0.0	
-11.00000	18.00000	19.50000	-0.10079	19.083	0.0	0.0	0.0	
-10.00000	18.00000	19.50000	-0.18816	19.083	0.0	0.0	0.0	
-9.00000	18.00000	19.50000	-0.29898	19.083	0.0	0.0	0.0	
-8.00000	18.00000	19.50000	-0.43966	19.083	0.0	0.0	0.0	
-7.00000	18.00000	19.50000	-0.61866	19.083	0.0	0.0	0.0	
-6.00000	18.00000	19.50000	-0.84753	19.083	0.0	0.0	0.0	
-5.00000	18.00000	19.50000	-1.1425	19.083	0.0	0.0	0.0	
-4.00000	18.00000	19.50000	-1.5273	19.083	0.0	0.0	0.0	
-3.00000	18.00000	19.50000	-2.0397	19.083	0.0	0.0	0.0	
-2.00000	18.00000	19.50000	-2.7459	19.083	0.0	0.0	0.0	
-1.00000	18.00000	19.50000	-3.7845	19.083	0.0	0.0	0.0	
0.00000	18.00000	19.50000	-5.7489	19.083	0.0	0.0	0.0	
1.00000	18.00000	19.50000	-7.7123	19.083	0.0	0.0	0.0	
2.00000	18.00000	19.50000	-8.7480	19.083	0.0	0.0	0.0	
3.00000	18.00000	19.50000	-9.4490	19.083	0.0	0.0		



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Dr. Ref.		
Made by	Date	Checked
MP		

Name	Location		Z [Level] [mm]	Z [mm]	Calc Level [mOD]	Stresses		
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
14.00000	18.00000	19.50000	-11.115	19.083	0.0	0.0	0.0	
15.00000	18.00000	19.50000	-11.015	19.083	0.0	0.0	0.0	
16.00000	18.00000	19.50000	-10.866	19.083	0.0	0.0	0.0	
17.00000	18.00000	19.50000	-10.653	19.083	0.0	0.0	0.0	
18.00000	18.00000	19.50000	-10.348	19.083	0.0	0.0	0.0	
19.00000	18.00000	19.50000	-9.9897	19.083	0.0	0.0	0.0	
20.00000	18.00000	19.50000	-9.0188	19.083	0.0	0.0	0.0	
21.00000	18.00000	19.50000	-8.1404	19.083	0.0	0.0	0.0	
22.00000	18.00000	19.50000	-7.6588	19.083	0.0	0.0	0.0	
23.00000	18.00000	19.50000	-7.3132	19.083	0.0	0.0	0.0	
24.00000	18.00000	19.50000	-7.0410	19.083	0.0	0.0	0.0	
25.00000	18.00000	19.50000	-6.8107	19.083	0.0	0.0	0.0	
26.00000	18.00000	19.50000	-6.6024	19.083	0.0	0.0	0.0	
27.00000	18.00000	19.50000	-6.4011	19.083	0.0	0.0	0.0	
28.00000	18.00000	19.50000	-6.1932	19.083	0.0	0.0	0.0	
29.00000	18.00000	19.50000	-5.9647	19.083	0.0	0.0	0.0	
30.00000	18.00000	19.50000	-5.6984	19.083	0.0	0.0	0.0	
31.00000	18.00000	19.50000	-5.3704	19.083	0.0	0.0	0.0	
32.00000	18.00000	19.50000	-4.9413	19.083	0.0	0.0	0.0	
33.00000	18.00000	19.50000	-4.3314	19.083	0.0	0.0	0.0	
34.00000	18.00000	19.50000	-3.2056	19.083	0.0	0.0	0.0	
35.00000	18.00000	19.50000	-2.0840	19.083	0.0	0.0	0.0	
36.00000	18.00000	19.50000	-1.4870	19.083	0.0	0.0	0.0	
37.00000	18.00000	19.50000	-1.0801	19.083	0.0	0.0	0.0	
38.00000	18.00000	19.50000	-0.78473	19.083	0.0	0.0	0.0	
39.00000	18.00000	19.50000	-0.50311	19.083	0.0	0.0	0.0	
40.00000	18.00000	19.50000	-0.39369	19.083	0.0	0.0	0.0	
41.00000	18.00000	19.50000	-0.26274	19.083	0.0	0.0	0.0	
42.00000	18.00000	19.50000	-0.16090	19.083	0.0	0.0	0.0	
43.00000	18.00000	19.50000	-0.083465	19.083	0.0	0.0	0.0	
44.00000	18.00000	19.50000	-0.019478	19.083	0.0	0.0	0.0	
45.00000	18.00000	19.50000	0.028787	19.083	0.0	0.0	0.0	
46.00000	18.00000	19.50000	0.066194	19.083	0.0	0.0	0.0	
47.00000	18.00000	19.50000	0.094963	19.083	0.0	0.0	0.0	
48.00000	18.00000	19.50000	0.11694	19.083	0.0	0.0	0.0	
49.00000	18.00000	19.50000	0.13320	19.083	0.0	0.0	0.0	
50.00000	18.00000	19.50000	0.14513	19.083	0.0	0.0	0.0	
51.00000	18.00000	19.50000	0.15353	19.083	0.0	0.0	0.0	
52.00000	18.00000	19.50000	0.15909	19.083	0.0	0.0	0.0	
53.00000	18.00000	19.50000	0.16237	19.083	0.0	0.0	0.0	
54.00000	18.00000	19.50000	0.16386	19.083	0.0	0.0	0.0	
55.00000	18.00000	19.50000	0.16390	19.083	0.0	0.0	0.0	
-25.00000	19.00000	19.50000	0.17446	19.083	0.0	0.0	0.0	
-24.00000	19.00000	19.50000	0.17648	19.083	0.0	0.0	0.0	
-23.00000	19.00000	19.50000	0.17750	19.083	0.0	0.0	0.0	
-22.00000	19.00000	19.50000	0.17726	19.083	0.0	0.0	0.0	
-21.00000	19.00000	19.50000	0.17542	19.083	0.0	0.0	0.0	
-20.00000	19.00000	19.50000	0.17158	19.083	0.0	0.0	0.0	
-19.00000	19.00000	19.50000	0.16525	19.083	0.0	0.0	0.0	
-18.00000	19.00000	19.50000	0.15800	19.083	0.0	0.0	0.0	
-17.00000	19.00000	19.50000	0.14248	19.083	0.0	0.0	0.0	
-16.00000	19.00000	19.50000	0.12436	19.083	0.0	0.0	0.0	
-15.00000	19.00000	19.50000	0.10028	19.083	0.0	0.0	0.0	
-14.00000	19.00000	19.50000	0.068809	19.083	0.0	0.0	0.0	
-13.00000	19.00000	19.50000	0.024935	19.083	0.0	0.0	0.0	
-12.00000	19.00000	19.50000	-0.024008	19.083	0.0	0.0	0.0	
-11.00000	19.00000	19.50000	-0.090498	19.083	0.0	0.0	0.0	
-10.00000	19.00000	19.50000	-0.17502	19.083	0.0	0.0	0.0	
-9.00000	19.00000	19.50000	-0.28234	19.083	0.0	0.0	0.0	
-8.00000	19.00000	19.50000	-0.41831	19.083	0.0	0.0	0.0	
-7.00000	19.00000	19.50000	-0.59248	19.083	0.0	0.0	0.0	
-6.00000	19.00000	19.50000	-0.81504	19.083	0.0	0.0	0.0	
-5.00000	19.00000	19.50000	-1.1025	19.083	0.0	0.0	0.0	
-4.00000	19.00000	19.50000	-1.4785	19.083	0.0	0.0	0.0	
-3.00000	19.00000	19.50000	-1.9808	19.083	0.0	0.0	0.0	
-2.00000	19.00000	19.50000	-2.6758	19.083	0.0	0.0	0.0	
-1.00000	19.00000	19.50000	-3.7023	19.083	0.0	0.0	0.0	
0.00000	19.00000	19.50000	-5.6542	19.083	0.0	0.0	0.0	
1.00000	19.00000	19.50000	-7.6050	19.083	0.0	0.0	0.0	
2.00000	19.00000	19.50000	-9.6287	19.083	0.0	0.0	0.0	
3.00000	19.00000	19.50000	-9.3187	19.083	0.0	0.0	0.0	
4.00000	19.00000	19.50000	-9.8137	19.083	0.0	0.0	0.0	
5.00000	19.00000	19.50000	-10.180	19.083	0.0	0.0	0.0	
6.00000	19.00000	19.50000	-10.454	19.083	0.0	0.0	0.0	
7.00000	19.00000	19.50000	-10.659	19.083	0.0	0.0	0.0	
8.00000	19.00000	19.50000	-10.810	19.083	0.0	0.0	0.0	
9.00000	19.00000	19.50000	-10.917	19.083	0.0	0.0	0.0	
10.00000	19.00000	19.50000	-10.987	19.083	0.0	0.0	0.0	
11.00000	19.00000	19.50000	-11.024	19.083	0.0	0.0	0.0	
12.00000	19.00000	19.50000	-11.030	19.083	0.0	0.0	0.0	
13.00000	19.00000	19.50000	-11.004	19.083	0.0	0.0	0.0	
14.00000	19.00000	19.50000	-10.945	19.083	0.0	0.0	0.0	
15.00000	19.00000	19.50000	-10.847	19.083	0.0	0.0	0.0	
16.00000	19.00000	19.50000	-10.701	19.083	0.0	0.0	0.0	
17.00000	19.00000	19.50000	-10.492	19.083	0.0	0.0	0.0	
18.00000	19.00000	19.50000	-10.192	19.083	0.0	0.0	0.0	
19.00000	19.00000	19.50000	-9.7388	19.083	0.0	0.0	0.0	
20.00000	19.00000	19.50000	-8.8738	19.083	0.0	0.0	0.0	
21.00000	19.00000	19.50000	-8.0014	19.083	0.0	0.0	0.0	
22.00000	19.00000	19.50000	-7.5260	19.083	0.0	0.0	0.0	
23.00000	19.00000	19.50000	-7.1864	19.083	0.0	0.0	0.0	
24.00000	19.00000	19.50000	-6.9201	19.083	0.0	0.0	0.0	
25.00000	19.00000	19.50000	-6.6956	19.083	0.0	0.0	0.0	
26.00000	19.00000	19.50000	-6.4930	19.083	0.0	0.0	0.0	
27.00000	19.00000	19.50000	-6.2973	19.083	0.0	0.0	0.0	
28.00000	19.00000	19.50000	-6.0953	19.083	0.0	0.0	0.0	
29.00000	19.00000	19.50000	-5.8728	19.083	0.0	0.0	0.0	
30.00000	19.00000	19.50000	-5.6130	19.083	0.0	0.0	0.0	
31.00000	19.00000	19.50000	-5.2920	19.083	0.0	0.0	0.0	
32.00000	19.00000	19.50000	-4.8702	19.083	0.0	0.0	0.0	
33.00000	19.00000	19.50000	-4.2680	19.083	0.0	0.0	0.0	
34.00000	19.00000	19.50000	-3.1500	19.083	0.0	0.0	0.0	
35.00000	19.00000	19.50000	-2.0361	19.083	0.0	0.0	0.0	
36.00000	19.00000	19.50000	-1.4463	19.083	0.0	0.0	0.0	
37.00000	19.00000	19.50000	-1.0461	19.083	0.0	0.0	0.0	
38.00000	19.00000	19.50000	-0.75669	19.083	0.0	0.0	0.0	
39.00000	19.00000	19.50000	-0.54024	19.083	0.0	0.0	0.0	
40.00000	19.00000	19.50000	-0.37522	19.083	0.0	0.0	0.0	
41.00000	19.00000	19.50000	-0.24797	19.083	0.0	0.0	0.0	
42.00000	19.00000	19.50000	-0.15918	19.083	0.0	0.0	0.0	
43.00000	19.00000	19.50000	-0.072235	19.083	0.0	0.0	0.0	
44.00000	19.00000	19.50000	-0.012280	19.083	0.0	0.0	0.0	
45.00000	19.00000	19.50000	0.034343	19.083	0.0	0.0	0.0	
46.00000	19.00000	19.50000	0.070428	19.083	0.0	0.0	0.0	
47.00000	19.00000	19.50000	0.098139	19.083	0.0	0.0	0.0	
48.00000	19.00000	19.50000	0.11917	19.083	0.0	0.0	0.0	
49.00000	19.00000	19.50000	0.13486	19.083	0.0	0.0	0.0	
50.00000	19.00000	19.50000	0.14627	19.083	0.0	0.0	0.0	
51.00000	19.00000	19.50000	0.15425	19.083	0.0	0.0	0.0	
52.00000	19.00000	19.50000	0.15948	19.083	0.0	0.0	0.0	
53.00000	19.00000	19.50000	0.16252	19.083	0.0	0.0	0.0	
54.00000	19.00000	19.50000	0.16381	19.083	0.0	0.0	0.0	
55.00000	19.00000	19.50000	0.16371	19.083	0.0	0.0	0.0	
-25.00000	20.00000	19.50000	0.17393	19.083	0.0	0.0	0.0	
-24.00000	20.00000	19.50000	0.17604	19.083	0.0	0.0	0.0	
-23.00000	20.00000	19.50000	0.17720	19.083	0.0	0.0	0.0	
-22.00000	20.00000	19.50000	0.17714	19.083	0.0	0.0	0.0	
-21.00000	20.00000	19.50000	0.17555	19.083	0.0	0.0	0.0	
-20.00000	20.00000	19.50000	0.17203	19.083	0.0	0.0	0.0	
-19.00000	20.00000	19.50000	0.16611	19.083	0.0	0.0	0.0	
-18.00000	20.00000	19.50000	0.15719	19.083	0.0	0.0		



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Dr. Ref.		
Made by	Date	Checked
MP		

Name	Location		Z [Level] [mm]	Z [mm]	Calc Level [mOD]	Stresses		
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
-7.00000	20.00000	19.50000	-0.56101	19.083	0.0	0.0	0.0	
-6.00000	20.00000	19.50000	-0.77564	19.083	0.0	0.0	0.0	
-5.00000	20.00000	19.50000	-1.0535	19.083	0.0	0.0	0.0	
-4.00000	20.00000	19.50000	-1.4181	19.083	0.0	0.0	0.0	
-3.00000	20.00000	19.50000	-1.9070	19.083	0.0	0.0	0.0	
-2.00000	20.00000	19.50000	-2.5867	19.083	0.0	0.0	0.0	
-1.00000	20.00000	19.50000	-3.5965	19.083	0.0	0.0	0.0	
0.00000	20.00000	19.50000	-5.5309	19.083	0.0	0.0	0.0	
1.00000	20.00000	19.50000	-7.4643	19.083	0.0	0.0	0.0	
2.00000	20.00000	19.50000	-8.4714	19.083	0.0	0.0	0.0	
3.00000	20.00000	19.50000	-10.4450	19.083	0.0	0.0	0.0	
4.00000	20.00000	19.50000	-9.6283	19.083	0.0	0.0	0.0	
5.00000	20.00000	19.50000	-9.9833	19.083	0.0	0.0	0.0	
6.00000	20.00000	19.50000	-10.248	19.083	0.0	0.0	0.0	
7.00000	20.00000	19.50000	-10.446	19.083	0.0	0.0	0.0	
8.00000	20.00000	19.50000	-10.592	19.083	0.0	0.0	0.0	
9.00000	20.00000	19.50000	-10.695	19.083	0.0	0.0	0.0	
10.00000	20.00000	19.50000	-10.762	19.083	0.0	0.0	0.0	
11.00000	20.00000	19.50000	-10.798	19.083	0.0	0.0	0.0	
12.00000	20.00000	19.50000	-10.803	19.083	0.0	0.0	0.0	
13.00000	20.00000	19.50000	-10.792	19.083	0.0	0.0	0.0	
14.00000	20.00000	19.50000	-10.721	19.083	0.0	0.0	0.0	
15.00000	20.00000	19.50000	-10.626	19.083	0.0	0.0	0.0	
16.00000	20.00000	19.50000	-10.485	19.083	0.0	0.0	0.0	
17.00000	20.00000	19.50000	-10.281	19.083	0.0	0.0	0.0	
18.00000	20.00000	19.50000	-9.9469	19.083	0.0	0.0	0.0	
19.00000	20.00000	19.50000	-9.5415	19.083	0.0	0.0	0.0	
20.00000	20.00000	19.50000	-8.6846	19.083	0.0	0.0	0.0	
21.00000	20.00000	19.50000	-7.8206	19.083	0.0	0.0	0.0	
22.00000	20.00000	19.50000	-7.3535	19.083	0.0	0.0	0.0	
23.00000	20.00000	19.50000	-7.0220	19.083	0.0	0.0	0.0	
24.00000	20.00000	19.50000	-6.7634	19.083	0.0	0.0	0.0	
25.00000	20.00000	19.50000	-6.5461	19.083	0.0	0.0	0.0	
26.00000	20.00000	19.50000	-6.3506	19.083	0.0	0.0	0.0	
27.00000	20.00000	19.50000	-6.1620	19.083	0.0	0.0	0.0	
28.00000	20.00000	19.50000	-5.9673	19.083	0.0	0.0	0.0	
29.00000	20.00000	19.50000	-5.7525	19.083	0.0	0.0	0.0	
30.00000	20.00000	19.50000	-5.5011	19.083	0.0	0.0	0.0	
31.00000	20.00000	19.50000	-5.1891	19.083	0.0	0.0	0.0	
32.00000	20.00000	19.50000	-4.7771	19.083	0.0	0.0	0.0	
33.00000	20.00000	19.50000	-4.1853	19.083	0.0	0.0	0.0	
34.00000	20.00000	19.50000	-3.0780	19.083	0.0	0.0	0.0	
35.00000	20.00000	19.50000	-1.9745	19.083	0.0	0.0	0.0	
36.00000	20.00000	19.50000	-1.3948	19.083	0.0	0.0	0.0	
37.00000	20.00000	19.50000	-1.0035	19.083	0.0	0.0	0.0	
38.00000	20.00000	19.50000	-0.72199	19.083	0.0	0.0	0.0	
39.00000	20.00000	19.50000	-0.51226	19.083	0.0	0.0	0.0	
40.00000	20.00000	19.50000	-0.35285	19.083	0.0	0.0	0.0	
41.00000	20.00000	19.50000	-0.23022	19.083	0.0	0.0	0.0	
42.00000	20.00000	19.50000	-0.13520	19.083	0.0	0.0	0.0	
43.00000	20.00000	19.50000	-0.061307	19.083	0.0	0.0	0.0	
44.00000	20.00000	19.50000	-0.0038063	19.083	0.0	0.0	0.0	
45.00000	20.00000	19.50000	0.040850	19.083	0.0	0.0	0.0	
46.00000	20.00000	19.50000	0.075366	19.083	0.0	0.0	0.0	
47.00000	20.00000	19.50000	0.10183	19.083	0.0	0.0	0.0	
48.00000	20.00000	19.50000	0.12187	19.083	0.0	0.0	0.0	
49.00000	20.00000	19.50000	0.13677	19.083	0.0	0.0	0.0	
50.00000	20.00000	19.50000	0.14757	19.083	0.0	0.0	0.0	
51.00000	20.00000	19.50000	0.15506	19.083	0.0	0.0	0.0	
52.00000	20.00000	19.50000	0.15992	19.083	0.0	0.0	0.0	
53.00000	20.00000	19.50000	0.16267	19.083	0.0	0.0	0.0	
54.00000	20.00000	19.50000	0.16374	19.083	0.0	0.0	0.0	
55.00000	20.00000	19.50000	0.16347	19.083	0.0	0.0	0.0	
-25.00000	21.00000	19.50000	0.17330	19.083	0.0	0.0	0.0	
-24.00000	21.00000	19.50000	0.17552	19.083	0.0	0.0	0.0	
-23.00000	21.00000	19.50000	0.17683	19.083	0.0	0.0	0.0	
-22.00000	21.00000	19.50000	0.17698	19.083	0.0	0.0	0.0	
-21.00000	21.00000	19.50000	0.17566	19.083	0.0	0.0	0.0	
-20.00000	21.00000	19.50000	0.17250	19.083	0.0	0.0	0.0	
-19.00000	21.00000	19.50000	0.16704	19.083	0.0	0.0	0.0	
-18.00000	21.00000	19.50000	0.15872	19.083	0.0	0.0	0.0	
-17.00000	21.00000	19.50000	0.14685	19.083	0.0	0.0	0.0	
-16.00000	21.00000	19.50000	0.13058	19.083	0.0	0.0	0.0	
-15.00000	21.00000	19.50000	0.10883	19.083	0.0	0.0	0.0	
-14.00000	21.00000	19.50000	0.080313	19.083	0.0	0.0	0.0	
-13.00000	21.00000	19.50000	0.043363	19.083	0.0	0.0	0.0	
-12.00000	21.00000	19.50000	-0.0040930	19.083	0.0	0.0	0.0	
-11.00000	21.00000	19.50000	-0.064695	19.083	0.0	0.0	0.0	
-10.00000	21.00000	19.50000	-0.14183	19.083	0.0	0.0	0.0	
-9.00000	21.00000	19.50000	-0.23992	19.083	0.0	0.0	0.0	
-8.00000	21.00000	19.50000	-0.36477	19.083	0.0	0.0	0.0	
-7.00000	21.00000	19.50000	-0.52421	19.083	0.0	0.0	0.0	
-6.00000	21.00000	19.50000	-0.72907	19.083	0.0	0.0	0.0	
-5.00000	21.00000	19.50000	-0.99482	19.083	0.0	0.0	0.0	
-4.00000	21.00000	19.50000	-1.3446	19.083	0.0	0.0	0.0	
-3.00000	21.00000	19.50000	-1.8158	19.083	0.0	0.0	0.0	
-2.00000	21.00000	19.50000	-2.4749	19.083	0.0	0.0	0.0	
-1.00000	21.00000	19.50000	-3.4615	19.083	0.0	0.0	0.0	
0.00000	21.00000	19.50000	-5.3712	19.083	0.0	0.0	0.0	
1.00000	21.00000	19.50000	-7.2801	19.083	0.0	0.0	0.0	
2.00000	21.00000	19.50000	-8.2642	19.083	0.0	0.0	0.0	
3.00000	21.00000	19.50000	-8.9188	19.083	0.0	0.0	0.0	
4.00000	21.00000	19.50000	-9.3833	19.083	0.0	0.0	0.0	
5.00000	21.00000	19.50000	-9.7240	19.083	0.0	0.0	0.0	
6.00000	21.00000	19.50000	-9.9775	19.083	0.0	0.0	0.0	
7.00000	21.00000	19.50000	-10.166	19.083	0.0	0.0	0.0	
8.00000	21.00000	19.50000	-10.305	19.083	0.0	0.0	0.0	
9.00000	21.00000	19.50000	-10.404	19.083	0.0	0.0	0.0	
10.00000	21.00000	19.50000	-10.468	19.083	0.0	0.0	0.0	
11.00000	21.00000	19.50000	-10.502	19.083	0.0	0.0	0.0	
12.00000	21.00000	19.50000	-10.507	19.083	0.0	0.0	0.0	
13.00000	21.00000	19.50000	-10.483	19.083	0.0	0.0	0.0	
14.00000	21.00000	19.50000	-10.428	19.083	0.0	0.0	0.0	
15.00000	21.00000	19.50000	-10.337	19.083	0.0	0.0	0.0	
16.00000	21.00000	19.50000	-10.201	19.083	0.0	0.0	0.0	
17.00000	21.00000	19.50000	-10.005	19.083	0.0	0.0	0.0	
18.00000	21.00000	19.50000	-9.7198	19.083	0.0	0.0	0.0	
19.00000	21.00000	19.50000	-9.2847	19.083	0.0	0.0	0.0	
20.00000	21.00000	19.50000	-8.4390	19.083	0.0	0.0	0.0	
21.00000	21.00000	19.50000	-7.5866	19.083	0.0	0.0	0.0	
22.00000	21.00000	19.50000	-7.1309	19.083	0.0	0.0	0.0	
23.00000	21.00000	19.50000	-6.8100	19.083	0.0	0.0	0.0	
24.00000	21.00000	19.50000	-6.5612	19.083	0.0	0.0	0.0	
25.00000	21.00000	19.50000	-6.3532	19.083	0.0	0.0	0.0	
26.00000	21.00000	19.50000	-6.1664	19.083	0.0	0.0	0.0	
27.00000	21.00000	19.50000	-5.9865	19.083	0.0	0.0	0.0	
28.00000	21.00000	19.50000	-5.8006	19.083	0.0	0.0	0.0	
29.00000	21.00000	19.50000	-5.5954	19.083	0.0	0.0	0.0	
30.00000	21.00000	19.50000	-5.3544	19.083	0.0	0.0	0.0	
31.00000	21.00000	19.50000	-5.0542	19.083	0.0	0.0	0.0	
32.00000	21.00000	19.50000	-4.6553	19.083	0.0	0.0	0.0	
33.00000	21.00000	19.50000	-4.0777	19.083	0.0	0.0	0.0	
34.00000	21.00000	19.50000	-2.9852	19.083	0.0	0.0	0.0	
35.00000	21.00000	19.50000	-1.8964	19.083	0.0	0.0	0.0	
36.00000	21.00000	19.50000	-1.3302	19.083	0.0	0.0	0.0	
37.00000	21.00000	19.50000	-0.95112	19.083	0.0	0.0	0.0	
38.00000	21.00000	19.50000	-0.67994	19.083	0.0	0.0	0.0	
39.00000	21.00000	19.50000	-0.47882	19.083	0.0	0.0	0.0	
40.00000	21.00000	19.50000	-0.32644	19.083	0.0	0.0	0.0	
41.00000	21.00000	19.50000	-0.20948	19.083	0.0	0.0	0.0	
42.00000	21.00000	19.50000	-0.11900	19.083	0.0	0.0	0.0	
43.00000	21.00000							



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No. Sheet No. Rev.

J15249

Dr. Ref.

Made by MP

Date

Checked

Name	Location		Z [Level] [mm]	Z [mm]	Calc Level [mOD]	Stresses		
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
53.00000	21.00000	19.50000	0.16281	19.083	0.0	0.0	0.0	
54.00000	21.00000	19.50000	0.16363	19.083	0.0	0.0	0.0	
55.00000	21.00000	19.50000	0.16317	19.083	0.0	0.0	0.0	
-25.00000	22.00000	19.50000	0.17258	19.083	0.0	0.0	0.0	
-24.00000	22.00000	19.50000	0.17492	19.083	0.0	0.0	0.0	
-23.00000	22.00000	19.50000	0.17639	19.083	0.0	0.0	0.0	
-22.00000	22.00000	19.50000	0.17676	19.083	0.0	0.0	0.0	
-21.00000	22.00000	19.50000	0.17574	19.083	0.0	0.0	0.0	
-20.00000	22.00000	19.50000	0.17297	19.083	0.0	0.0	0.0	
-19.00000	22.00000	19.50000	0.16803	19.083	0.0	0.0	0.0	
-18.00000	22.00000	19.50000	0.16036	19.083	0.0	0.0	0.0	
-17.00000	22.00000	19.50000	0.14934	19.083	0.0	0.0	0.0	
-16.00000	22.00000	19.50000	0.13414	19.083	0.0	0.0	0.0	
-15.00000	22.00000	19.50000	0.11377	19.083	0.0	0.0	0.0	
-14.00000	22.00000	19.50000	0.086989	19.083	0.0	0.0	0.0	
-13.00000	22.00000	19.50000	0.052251	19.083	0.0	0.0	0.0	
-12.00000	22.00000	19.50000	0.0076009	19.083	0.0	0.0	0.0	
-11.00000	22.00000	19.50000	-0.049444	19.083	0.0	0.0	0.0	
-10.00000	22.00000	19.50000	-0.12207	19.083	0.0	0.0	0.0	
-9.00000	22.00000	19.50000	-0.21443	19.083	0.0	0.0	0.0	
-8.00000	22.00000	19.50000	-0.33200	19.083	0.0	0.0	0.0	
-7.00000	22.00000	19.50000	-0.48219	19.083	0.0	0.0	0.0	
-6.00000	22.00000	19.50000	-0.67530	19.083	0.0	0.0	0.0	
-5.00000	22.00000	19.50000	-0.92615	19.083	0.0	0.0	0.0	
-4.00000	22.00000	19.50000	-1.25272	19.083	0.0	0.0	0.0	
-3.00000	22.00000	19.50000	-1.70500	19.083	0.0	0.0	0.0	
-2.00000	22.00000	19.50000	-2.3357	19.083	0.0	0.0	0.0	
-1.00000	22.00000	19.50000	-3.2896	19.083	0.0	0.0	0.0	
0.00000	22.00000	19.50000	-5.1637	19.083	0.0	0.0	0.0	
1.00000	22.00000	19.50000	-7.0370	19.083	0.0	0.0	0.0	
2.00000	22.00000	19.50000	-7.9484	19.083	0.0	0.0	0.0	
3.00000	22.00000	19.50000	-8.6149	19.083	0.0	0.0	0.0	
4.00000	22.00000	19.50000	-9.0565	19.083	0.0	0.0	0.0	
5.00000	22.00000	19.50000	-9.3790	19.083	0.0	0.0	0.0	
6.00000	22.00000	19.50000	-9.6183	19.083	0.0	0.0	0.0	
7.00000	22.00000	19.50000	-9.7964	19.083	0.0	0.0	0.0	
8.00000	22.00000	19.50000	-9.9272	19.083	0.0	0.0	0.0	
9.00000	22.00000	19.50000	-10.020	19.083	0.0	0.0	0.0	
10.00000	22.00000	19.50000	-10.080	19.083	0.0	0.0	0.0	
11.00000	22.00000	19.50000	-10.112	19.083	0.0	0.0	0.0	
12.00000	22.00000	19.50000	-10.117	19.083	0.0	0.0	0.0	
13.00000	22.00000	19.50000	-10.095	19.083	0.0	0.0	0.0	
14.00000	22.00000	19.50000	-10.043	19.083	0.0	0.0	0.0	
15.00000	22.00000	19.50000	-9.9574	19.083	0.0	0.0	0.0	
16.00000	22.00000	19.50000	-9.8287	19.083	0.0	0.0	0.0	
17.00000	22.00000	19.50000	-9.6421	19.083	0.0	0.0	0.0	
18.00000	22.00000	19.50000	-9.3691	19.083	0.0	0.0	0.0	
19.00000	22.00000	19.50000	-8.9485	19.083	0.0	0.0	0.0	
20.00000	22.00000	19.50000	-8.1190	19.083	0.0	0.0	0.0	
21.00000	22.00000	19.50000	-6.8280	19.083	0.0	0.0	0.0	
22.00000	22.00000	19.50000	-6.8430	19.083	0.0	0.0	0.0	
23.00000	22.00000	19.50000	-6.5363	19.083	0.0	0.0	0.0	
24.00000	22.00000	19.50000	-6.3001	19.083	0.0	0.0	0.0	
25.00000	22.00000	19.50000	-6.1034	19.083	0.0	0.0	0.0	
26.00000	22.00000	19.50000	-5.9272	19.083	0.0	0.0	0.0	
27.00000	22.00000	19.50000	-5.7576	19.083	0.0	0.0	0.0	
28.00000	22.00000	19.50000	-5.5823	19.083	0.0	0.0	0.0	
29.00000	22.00000	19.50000	-5.3887	19.083	0.0	0.0	0.0	
30.00000	22.00000	19.50000	-5.1608	19.083	0.0	0.0	0.0	
31.00000	22.00000	19.50000	-4.8757	19.083	0.0	0.0	0.0	
32.00000	22.00000	19.50000	-4.4944	19.083	0.0	0.0	0.0	
33.00000	22.00000	19.50000	-3.9365	19.083	0.0	0.0	0.0	
34.00000	22.00000	19.50000	-2.8651	19.083	0.0	0.0	0.0	
35.00000	22.00000	19.50000	-1.7972	19.083	0.0	0.0	0.0	
36.00000	22.00000	19.50000	-1.2502	19.083	0.0	0.0	0.0	
37.00000	22.00000	19.50000	-0.88758	19.083	0.0	0.0	0.0	
38.00000	22.00000	19.50000	-0.62995	19.083	0.0	0.0	0.0	
39.00000	22.00000	19.50000	-0.43972	19.083	0.0	0.0	0.0	
40.00000	22.00000	19.50000	-0.29598	19.083	0.0	0.0	0.0	
41.00000	22.00000	19.50000	-0.18582	19.083	0.0	0.0	0.0	
42.00000	22.00000	19.50000	-0.10069	19.083	0.0	0.0	0.0	
43.00000	22.00000	19.50000	-0.034630	19.083	0.0	0.0	0.0	
44.00000	22.00000	19.50000	0.016683	19.083	0.0	0.0	0.0	
45.00000	22.00000	19.50000	0.056455	19.083	0.0	0.0	0.0	
46.00000	22.00000	19.50000	0.107116	19.083	0.0	0.0	0.0	
47.00000	22.00000	19.50000	0.11054	19.083	0.0	0.0	0.0	
48.00000	22.00000	19.50000	0.12819	19.083	0.0	0.0	0.0	
49.00000	22.00000	19.50000	0.14122	19.083	0.0	0.0	0.0	
50.00000	22.00000	19.50000	0.15055	19.083	0.0	0.0	0.0	
51.00000	22.00000	19.50000	0.15690	19.083	0.0	0.0	0.0	
52.00000	22.00000	19.50000	0.16087	19.083	0.0	0.0	0.0	
53.00000	22.00000	19.50000	0.16293	19.083	0.0	0.0	0.0	
54.00000	22.00000	19.50000	0.16348	19.083	0.0	0.0	0.0	
55.00000	22.00000	19.50000	0.16282	19.083	0.0	0.0	0.0	
-25.00000	23.00000	19.50000	0.17176	19.083	0.0	0.0	0.0	
-24.00000	23.00000	19.50000	0.17422	19.083	0.0	0.0	0.0	
-23.00000	23.00000	19.50000	0.17587	19.083	0.0	0.0	0.0	
-22.00000	23.00000	19.50000	0.17648	19.083	0.0	0.0	0.0	
-21.00000	23.00000	19.50000	0.17578	19.083	0.0	0.0	0.0	
-20.00000	23.00000	19.50000	0.17343	19.083	0.0	0.0	0.0	
-19.00000	23.00000	19.50000	0.16903	19.083	0.0	0.0	0.0	
-18.00000	23.00000	19.50000	0.16207	19.083	0.0	0.0	0.0	
-17.00000	23.00000	19.50000	0.15195	19.083	0.0	0.0	0.0	
-16.00000	23.00000	19.50000	0.13792	19.083	0.0	0.0	0.0	
-15.00000	23.00000	19.50000	0.11903	19.083	0.0	0.0	0.0	
-14.00000	23.00000	19.50000	0.094145	19.083	0.0	0.0	0.0	
-13.00000	23.00000	19.50000	0.061818	19.083	0.0	0.0	0.0	
-12.00000	23.00000	19.50000	0.020238	19.083	0.0	0.0	0.0	
-11.00000	23.00000	19.50000	-0.032890	19.083	0.0	0.0	0.0	
-10.00000	23.00000	19.50000	-0.100531	19.083	0.0	0.0	0.0	
-9.00000	23.00000	19.50000	-0.18646	19.083	0.0	0.0	0.0	
-8.00000	23.00000	19.50000	-0.29579	19.083	0.0	0.0	0.0	
-7.00000	23.00000	19.50000	-0.43534	19.083	0.0	0.0	0.0	
-6.00000	23.00000	19.50000	-0.61465	19.083	0.0	0.0	0.0	
-5.00000	23.00000	19.50000	-0.84752	19.083	0.0	0.0	0.0	
-4.00000	23.00000	19.50000	-1.1551	19.083	0.0	0.0	0.0	
-3.00000	23.00000	19.50000	-1.5723	19.083	0.0	0.0	0.0	
-2.00000	23.00000	19.50000	-2.1640	19.083	0.0	0.0	0.0	
-1.00000	23.00000	19.50000	-3.0698	19.083	0.0	0.0	0.0	
0.00000	23.00000	19.50000	-4.8897	19.083	0.0	0.0	0.0	
1.00000	23.00000	19.50000	-6.7089	19.083	0.0	0.0	0.0	
2.00000	23.00000	19.50000	-7.6124	19.083	0.0	0.0	0.0	
3.00000	23.00000	19.50000	-8.2001	19.083	0.0	0.0	0.0	
4.00000	23.00000	19.50000	-8.6116	19.083	0.0	0.0	0.0	
5.00000	23.00000	19.50000	-8.9112	19.083	0.0	0.0	0.0	
6.00000	23.00000	19.50000	-9.1334	19.083	0.0	0.0	0.0	
7.00000	23.00000	19.50000	-9.2988	19.083	0.0	0.0	0.0	
8.00000	23.00000	19.50000	-9.4203	19.083	0.0	0.0	0.0	
9.00000	23.00000	19.50000	-9.5065	19.083	0.0	0.0	0.0	
10.00000	23.00000	19.50000	-9.5628	19.083	0.0	0.0	0.0	
11.00000	23.00000	19.50000	-9.5926	19.083	0.0	0.0	0.0	
12.00000	23.00000	19.50000	-9.5974	19.083	0.0	0.0	0.0	
13.00000	23.00000	19.50000	-9.5769	19.083	0.0	0.0	0.0	
14.00000	23.00000	19.50000	-9.5291	19.083	0.0	0.0	0.0	
15.00000	23.00000	19.50000	-9.4495	19.083	0.0	0.0	0.0	
16.00000	23.00000	19.50000	-9.3301	19.083	0.0	0.0	0.0	
17.00000	23.00000	19.50000	-9.1562	19.083	0.0	0.0	0.0	
18.00000	23.00000	19.50000	-8.9000	19.083	0.0	0.0	0.0	
19.00000	23.00000	19.50000	-8.5006	19.083	0.0	0.0	0.0	
20.00000	23.00000	19.50000	-7.6954	19.083	0.0	0.0	0.0	
21.00000	23.00000	19.50000	-6.8842	19.083	0.0	0.0	0.0	



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Dr. Ref.		
Made by	Date	Checked
MP		

Name	Location		Z [Level] [mm]	Z [mm]	Calc Level [mOD]	Stresses		
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
32.00000	23.00000	19.50000	-4.2767	19.083	0.0	0.0	0.0	
33.00000	23.00000	19.50000	-3.7473	19.083	0.0	0.0	0.0	
34.00000	23.00000	19.50000	-2.7074	19.083	0.0	0.0	0.0	
35.00000	23.00000	19.50000	-1.6710	19.083	0.0	0.0	0.0	
36.00000	23.00000	19.50000	-1.1517	19.083	0.0	0.0	0.0	
37.00000	23.00000	19.50000	-0.8168	19.083	0.0	0.0	0.0	
38.00000	23.00000	19.50000	-0.57170	19.083	0.0	0.0	0.0	
39.00000	23.00000	19.50000	-0.39501	19.083	0.0	0.0	0.0	
40.00000	23.00000	19.50000	-0.26165	19.083	0.0	0.0	0.0	
41.00000	23.00000	19.50000	-0.15946	19.083	0.0	0.0	0.0	
42.00000	23.00000	19.50000	-0.080466	19.083	0.0	0.0	0.0	
43.00000	23.00000	19.50000	-0.019174	19.083	0.0	0.0	0.0	
44.00000	23.00000	19.50000	0.028447	19.083	0.0	0.0	0.0	
45.00000	23.00000	19.50000	0.065342	19.083	0.0	0.0	0.0	
46.00000	23.00000	19.50000	0.093759	19.083	0.0	0.0	0.0	
47.00000	23.00000	19.50000	0.11543	19.083	0.0	0.0	0.0	
48.00000	23.00000	19.50000	0.13171	19.083	0.0	0.0	0.0	
49.00000	23.00000	19.50000	0.14367	19.083	0.0	0.0	0.0	
50.00000	23.00000	19.50000	0.15216	19.083	0.0	0.0	0.0	
51.00000	23.00000	19.50000	0.15787	19.083	0.0	0.0	0.0	
52.00000	23.00000	19.50000	0.16194	19.083	0.0	0.0	0.0	
53.00000	23.00000	19.50000	0.16302	19.083	0.0	0.0	0.0	
54.00000	23.00000	19.50000	0.16327	19.083	0.0	0.0	0.0	
55.00000	23.00000	19.50000	0.16240	19.083	0.0	0.0	0.0	
-25.00000	24.00000	19.50000	0.17084	19.083	0.0	0.0	0.0	
-24.00000	24.00000	19.50000	0.17343	19.083	0.0	0.0	0.0	
-23.00000	24.00000	19.50000	0.17526	19.083	0.0	0.0	0.0	
-22.00000	24.00000	19.50000	0.17612	19.083	0.0	0.0	0.0	
-21.00000	24.00000	19.50000	0.17575	19.083	0.0	0.0	0.0	
-20.00000	24.00000	19.50000	0.17395	19.083	0.0	0.0	0.0	
-19.00000	24.00000	19.50000	0.17002	19.083	0.0	0.0	0.0	
-18.00000	24.00000	19.50000	0.16381	19.083	0.0	0.0	0.0	
-17.00000	24.00000	19.50000	0.15465	19.083	0.0	0.0	0.0	
-16.00000	24.00000	19.50000	0.14184	19.083	0.0	0.0	0.0	
-15.00000	24.00000	19.50000	0.12453	19.083	0.0	0.0	0.0	
-14.00000	24.00000	19.50000	0.10166	19.083	0.0	0.0	0.0	
-13.00000	24.00000	19.50000	0.071900	19.083	0.0	0.0	0.0	
-12.00000	24.00000	19.50000	0.033608	19.083	0.0	0.0	0.0	
-11.00000	24.00000	19.50000	-0.015307	19.083	0.0	0.0	0.0	
-10.00000	24.00000	19.50000	-0.071514	19.083	0.0	0.0	0.0	
-9.00000	24.00000	19.50000	-0.15646	19.083	0.0	0.0	0.0	
-8.00000	24.00000	19.50000	-0.25671	19.083	0.0	0.0	0.0	
-7.00000	24.00000	19.50000	-0.38437	19.083	0.0	0.0	0.0	
-6.00000	24.00000	19.50000	-0.54796	19.083	0.0	0.0	0.0	
-5.00000	24.00000	19.50000	-0.75980	19.083	0.0	0.0	0.0	
-4.00000	24.00000	19.50000	-1.0389	19.083	0.0	0.0	0.0	
-3.00000	24.00000	19.50000	-1.4169	19.083	0.0	0.0	0.0	
-2.00000	24.00000	19.50000	-1.9542	19.083	0.0	0.0	0.0	
-1.00000	24.00000	19.50000	-2.7864	19.083	0.0	0.0	0.0	
0.00000	24.00000	19.50000	-4.6166	19.083	0.0	0.0	0.0	
1.00000	24.00000	19.50000	-6.2460	19.083	0.0	0.0	0.0	
2.00000	24.00000	19.50000	-7.0762	19.083	0.0	0.0	0.0	
3.00000	24.00000	19.50000	-7.6099	19.083	0.0	0.0	0.0	
4.00000	24.00000	19.50000	-7.9826	19.083	0.0	0.0	0.0	
5.00000	24.00000	19.50000	-8.2543	19.083	0.0	0.0	0.0	
6.00000	24.00000	19.50000	-8.4564	19.083	0.0	0.0	0.0	
7.00000	24.00000	19.50000	-8.6071	19.083	0.0	0.0	0.0	
8.00000	24.00000	19.50000	-8.7182	19.083	0.0	0.0	0.0	
9.00000	24.00000	19.50000	-8.7972	19.083	0.0	0.0	0.0	
10.00000	24.00000	19.50000	-8.8490	19.083	0.0	0.0	0.0	
11.00000	24.00000	19.50000	-8.8766	19.083	0.0	0.0	0.0	
12.00000	24.00000	19.50000	-8.8812	19.083	0.0	0.0	0.0	
13.00000	24.00000	19.50000	-8.8629	19.083	0.0	0.0	0.0	
14.00000	24.00000	19.50000	-8.8196	19.083	0.0	0.0	0.0	
15.00000	24.00000	19.50000	-8.7476	19.083	0.0	0.0	0.0	
16.00000	24.00000	19.50000	-8.6395	19.083	0.0	0.0	0.0	
17.00000	24.00000	19.50000	-8.4821	19.083	0.0	0.0	0.0	
18.00000	24.00000	19.50000	-8.2495	19.083	0.0	0.0	0.0	
19.00000	24.00000	19.50000	-7.8825	19.083	0.0	0.0	0.0	
20.00000	24.00000	19.50000	-7.3172	19.083	0.0	0.0	0.0	
21.00000	24.00000	19.50000	-6.3464	19.083	0.0	0.0	0.0	
22.00000	24.00000	19.50000	-5.9625	19.083	0.0	0.0	0.0	
23.00000	24.00000	19.50000	-5.7008	19.083	0.0	0.0	0.0	
24.00000	24.00000	19.50000	-5.5008	19.083	0.0	0.0	0.0	
25.00000	24.00000	19.50000	-5.3341	19.083	0.0	0.0	0.0	
26.00000	24.00000	19.50000	-5.1846	19.083	0.0	0.0	0.0	
27.00000	24.00000	19.50000	-5.0404	19.083	0.0	0.0	0.0	
28.00000	24.00000	19.50000	-4.8916	19.083	0.0	0.0	0.0	
29.00000	24.00000	19.50000	-4.7275	19.083	0.0	0.0	0.0	
30.00000	24.00000	19.50000	-4.5347	19.083	0.0	0.0	0.0	
31.00000	24.00000	19.50000	-4.2935	19.083	0.0	0.0	0.0	
32.00000	24.00000	19.50000	-3.9684	19.083	0.0	0.0	0.0	
33.00000	24.00000	19.50000	-3.4819	19.083	0.0	0.0	0.0	
34.00000	24.00000	19.50000	-2.9399	19.083	0.0	0.0	0.0	
35.00000	24.00000	19.50000	-2.3589	19.083	0.0	0.0	0.0	
36.00000	24.00000	19.50000	-1.0318	19.083	0.0	0.0	0.0	
37.00000	24.00000	19.50000	-0.72291	19.083	0.0	0.0	0.0	
38.00000	24.00000	19.50000	-0.50547	19.083	0.0	0.0	0.0	
39.00000	24.00000	19.50000	-0.34520	19.083	0.0	0.0	0.0	
40.00000	24.00000	19.50000	-0.22295	19.083	0.0	0.0	0.0	
41.00000	24.00000	19.50000	-0.13082	19.083	0.0	0.0	0.0	
42.00000	24.00000	19.50000	-0.058697	19.083	0.0	0.0	0.0	
43.00000	24.00000	19.50000	-0.0026240	19.083	0.0	0.0	0.0	
44.00000	24.00000	19.50000	0.040972	19.083	0.0	0.0	0.0	
45.00000	24.00000	19.50000	0.074757	19.083	0.0	0.0	0.0	
46.00000	24.00000	19.50000	0.10076	19.083	0.0	0.0	0.0	
47.00000	24.00000	19.50000	0.12055	19.083	0.0	0.0	0.0	
48.00000	24.00000	19.50000	0.13537	19.083	0.0	0.0	0.0	
49.00000	24.00000	19.50000	0.14620	19.083	0.0	0.0	0.0	
50.00000	24.00000	19.50000	0.15381	19.083	0.0	0.0	0.0	
51.00000	24.00000	19.50000	0.15883	19.083	0.0	0.0	0.0	
52.00000	24.00000	19.50000	0.16177	19.083	0.0	0.0	0.0	
53.00000	24.00000	19.50000	0.16305	19.083	0.0	0.0	0.0	
54.00000	24.00000	19.50000	0.16300	19.083	0.0	0.0	0.0	
55.00000	24.00000	19.50000	0.16189	19.083	0.0	0.0	0.0	
-25.00000	25.00000	19.50000	0.16981	19.083	0.0	0.0	0.0	
-24.00000	25.00000	19.50000	0.17254	19.083	0.0	0.0	0.0	
-23.00000	25.00000	19.50000	0.17456	19.083	0.0	0.0	0.0	
-22.00000	25.00000	19.50000	0.17567	19.083	0.0	0.0	0.0	
-21.00000	25.00000	19.50000	0.17565	19.083	0.0	0.0	0.0	
-20.00000	25.00000	19.50000	0.17420	19.083	0.0	0.0	0.0	
-19.00000	25.00000	19.50000	0.17096	19.083	0.0	0.0	0.0	
-18.00000	25.00000	19.50000	0.16552	19.083	0.0	0.0	0.0	
-17.00000	25.00000	19.50000	0.15736	19.083	0.0	0.0	0.0	
-16.00000	25.00000	19.50000	0.14583	19.083	0.0	0.0	0.0	
-15.00000	25.00000	19.50000	0.13016	19.083	0.0	0.0	0.0	
-14.00000	25.00000	19.50000	0.10938	19.083	0.0	0.0	0.0	
-13.00000	25.00000	19.50000	0.082312	19.083	0.0	0.0	0.0	
-12.00000	25.00000	19.50000	0.047464	19.083	0.0	0.0	0.0	
-11.00000	25.00000	19.50000	0.0029171	19.083	0.0	0.0	0.0	
-10.00000	25.00000	19.50000	-0.053512	19.083	0.0	0.0	0.0	
-9.00000	25.00000	19.50000	-0.12504	19.083	0.0	0.0	0.0	
-8.00000	25.00000	19.50000	-0.21556	19.083	0.0	0.0	0.0	
-7.00000	25.00000	19.50000	-0.33036	19.083	0.0	0.0	0.0	
-6.00000	25.00000	19.50000	-0.47669	19.083	0.0	0.0	0.0	
-5.00000	25.00000	19.50000	-0.66494	19.083	0.0	0.0	0.0	
-4.00000	25.00000	19.50000	-0.91087	19.083	0.0	0.0	0.0	
-3.00000	25.00000	19.50000	-1.2407	19.083	0.0	0.0	0.0	
-2.00000	25.00000	19.50000	-1.7044	19.083	0.0	0.0	0.0	
-1.00000	25.00000	19.50000	-2.4194	19.083	0.0	0.0	0.0	
0.00000	25.00000	19.50000	-3.9755	19.083	0.0</			



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Dr. Ref.		
Made by	Date	Checked
MP		

Name	Location		Z [Level] [m]	Z [mm]	Calc Level [mOD]	Stresses		
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
11.00000	25.00000	19.50000	-7.8259	19.083	0.0	0.0	0.0	
12.00000	25.00000	19.50000	-7.8306	19.083	0.0	0.0	0.0	
13.00000	25.00000	19.50000	-7.8146	19.083	0.0	0.0	0.0	
14.00000	25.00000	19.50000	-7.7765	19.083	0.0	0.0	0.0	
15.00000	25.00000	19.50000	-7.7130	19.083	0.0	0.0	0.0	
16.00000	25.00000	19.50000	-7.6182	19.083	0.0	0.0	0.0	
17.00000	25.00000	19.50000	-7.4813	19.083	0.0	0.0	0.0	
18.00000	25.00000	19.50000	-7.2806	19.083	0.0	0.0	0.0	
19.00000	25.00000	19.50000	-6.9651	19.083	0.0	0.0	0.0	
20.00000	25.00000	19.50000	-6.2766	19.083	0.0	0.0	0.0	
21.00000	25.00000	19.50000	-5.5834	19.083	0.0	0.0	0.0	
22.00000	25.00000	19.50000	-5.2522	19.083	0.0	0.0	0.0	
23.00000	25.00000	19.50000	-5.0250	19.083	0.0	0.0	0.0	
24.00000	25.00000	19.50000	-4.8491	19.083	0.0	0.0	0.0	
25.00000	25.00000	19.50000	-4.7010	19.083	0.0	0.0	0.0	
26.00000	25.00000	19.50000	-4.5671	19.083	0.0	0.0	0.0	
27.00000	25.00000	19.50000	-4.4377	19.083	0.0	0.0	0.0	
28.00000	25.00000	19.50000	-4.3042	19.083	0.0	0.0	0.0	
29.00000	25.00000	19.50000	-4.1576	19.083	0.0	0.0	0.0	
30.00000	25.00000	19.50000	-3.9867	19.083	0.0	0.0	0.0	
31.00000	25.00000	19.50000	-3.7752	19.083	0.0	0.0	0.0	
32.00000	25.00000	19.50000	-3.4935	19.083	0.0	0.0	0.0	
33.00000	25.00000	19.50000	-3.0745	19.083	0.0	0.0	0.0	
34.00000	25.00000	19.50000	-2.1857	19.083	0.0	0.0	0.0	
35.00000	25.00000	19.50000	-1.1937	19.083	0.0	0.0	0.0	
36.00000	25.00000	19.50000	-0.88933	19.083	0.0	0.0	0.0	
37.00000	25.00000	19.50000	-0.62248	19.083	0.0	0.0	0.0	
38.00000	25.00000	19.50000	-0.43265	19.083	0.0	0.0	0.0	
39.00000	25.00000	19.50000	-0.29139	19.083	0.0	0.0	0.0	
40.00000	25.00000	19.50000	-0.18371	19.083	0.0	0.0	0.0	
41.00000	25.00000	19.50000	-0.10052	19.083	0.0	0.0	0.0	
42.00000	25.00000	19.50000	-0.035795	19.083	0.0	0.0	0.0	
43.00000	25.00000	19.50000	0.014683	19.083	0.0	0.0	0.0	
44.00000	25.00000	19.50000	0.054010	19.083	0.0	0.0	0.0	
45.00000	25.00000	19.50000	0.084513	19.083	0.0	0.0	0.0	
46.00000	25.00000	19.50000	0.107098	19.083	0.0	0.0	0.0	
47.00000	25.00000	19.50000	0.12581	19.083	0.0	0.0	0.0	
48.00000	25.00000	19.50000	0.13911	19.083	0.0	0.0	0.0	
49.00000	25.00000	19.50000	0.14875	19.083	0.0	0.0	0.0	
50.00000	25.00000	19.50000	0.15544	19.083	0.0	0.0	0.0	
51.00000	25.00000	19.50000	0.15975	19.083	0.0	0.0	0.0	
52.00000	25.00000	19.50000	0.16215	19.083	0.0	0.0	0.0	
53.00000	25.00000	19.50000	0.16301	19.083	0.0	0.0	0.0	
54.00000	25.00000	19.50000	0.16265	19.083	0.0	0.0	0.0	
55.00000	25.00000	19.50000	0.16131	19.083	0.0	0.0	0.0	
-25.00000	26.00000	19.50000	0.18668	19.083	0.0	0.0	0.0	
-24.00000	26.00000	19.50000	0.17154	19.083	0.0	0.0	0.0	
-23.00000	26.00000	19.50000	0.17374	19.083	0.0	0.0	0.0	
-22.00000	26.00000	19.50000	0.17512	19.083	0.0	0.0	0.0	
-21.00000	26.00000	19.50000	0.17544	19.083	0.0	0.0	0.0	
-20.00000	26.00000	19.50000	0.17445	19.083	0.0	0.0	0.0	
-19.00000	26.00000	19.50000	0.17183	19.083	0.0	0.0	0.0	
-18.00000	26.00000	19.50000	0.16717	19.083	0.0	0.0	0.0	
-17.00000	26.00000	19.50000	0.16002	19.083	0.0	0.0	0.0	
-16.00000	26.00000	19.50000	0.14980	19.083	0.0	0.0	0.0	
-15.00000	26.00000	19.50000	0.13580	19.083	0.0	0.0	0.0	
-14.00000	26.00000	19.50000	0.11171	19.083	0.0	0.0	0.0	
-13.00000	26.00000	19.50000	0.092851	19.083	0.0	0.0	0.0	
-12.00000	26.00000	19.50000	0.061534	19.083	0.0	0.0	0.0	
-11.00000	26.00000	19.50000	0.023948	19.083	0.0	0.0	0.0	
-10.00000	26.00000	19.50000	-0.029011	19.083	0.0	0.0	0.0	
-9.00000	26.00000	19.50000	-0.092872	19.083	0.0	0.0	0.0	
-8.00000	26.00000	19.50000	-0.17332	19.083	0.0	0.0	0.0	
-7.00000	26.00000	19.50000	-0.27472	19.083	0.0	0.0	0.0	
-6.00000	26.00000	19.50000	-0.40293	19.083	0.0	0.0	0.0	
-5.00000	26.00000	19.50000	-0.56607	19.083	0.0	0.0	0.0	
-4.00000	26.00000	19.50000	-0.77600	19.083	0.0	0.0	0.0	
-3.00000	26.00000	19.50000	-1.0514	19.083	0.0	0.0	0.0	
-2.00000	26.00000	19.50000	-1.4251	19.083	0.0	0.0	0.0	
-1.00000	26.00000	19.50000	-1.86650	19.083	0.0	0.0	0.0	
0.00000	26.00000	19.50000	-2.9703	19.083	0.0	0.0	0.0	
1.00000	26.00000	19.50000	-3.9740	19.083	0.0	0.0	0.0	
2.00000	26.00000	19.50000	-4.5132	19.083	0.0	0.0	0.0	
3.00000	26.00000	19.50000	-4.8840	19.083	0.0	0.0	0.0	
4.00000	26.00000	19.50000	-5.1550	19.083	0.0	0.0	0.0	
5.00000	26.00000	19.50000	-5.3589	19.083	0.0	0.0	0.0	
6.00000	26.00000	19.50000	-5.5141	19.083	0.0	0.0	0.0	
7.00000	26.00000	19.50000	-5.6318	19.083	0.0	0.0	0.0	
8.00000	26.00000	19.50000	-5.7198	19.083	0.0	0.0	0.0	
9.00000	26.00000	19.50000	-5.7830	19.083	0.0	0.0	0.0	
10.00000	26.00000	19.50000	-5.8249	19.083	0.0	0.0	0.0	
11.00000	26.00000	19.50000	-5.8477	19.083	0.0	0.0	0.0	
12.00000	26.00000	19.50000	-5.8524	19.083	0.0	0.0	0.0	
13.00000	26.00000	19.50000	-5.8389	19.083	0.0	0.0	0.0	
14.00000	26.00000	19.50000	-5.8063	19.083	0.0	0.0	0.0	
15.00000	26.00000	19.50000	-5.7520	19.083	0.0	0.0	0.0	
16.00000	26.00000	19.50000	-5.6718	19.083	0.0	0.0	0.0	
17.00000	26.00000	19.50000	-5.5579	19.083	0.0	0.0	0.0	
18.00000	26.00000	19.50000	-5.3964	19.083	0.0	0.0	0.0	
19.00000	26.00000	19.50000	-5.1973	19.083	0.0	0.0	0.0	
20.00000	26.00000	19.50000	-4.7109	19.083	0.0	0.0	0.0	
21.00000	26.00000	19.50000	-4.2599	19.083	0.0	0.0	0.0	
22.00000	26.00000	19.50000	-4.0069	19.083	0.0	0.0	0.0	
23.00000	26.00000	19.50000	-3.8214	19.083	0.0	0.0	0.0	
24.00000	26.00000	19.50000	-3.6725	19.083	0.0	0.0	0.0	
25.00000	26.00000	19.50000	-3.5443	19.083	0.0	0.0	0.0	
26.00000	26.00000	19.50000	-3.4270	19.083	0.0	0.0	0.0	
27.00000	26.00000	19.50000	-3.3130	19.083	0.0	0.0	0.0	
28.00000	26.00000	19.50000	-3.1955	19.083	0.0	0.0	0.0	
29.00000	26.00000	19.50000	-3.0675	19.083	0.0	0.0	0.0	
30.00000	26.00000	19.50000	-2.9202	19.083	0.0	0.0	0.0	
31.00000	26.00000	19.50000	-2.7420	19.083	0.0	0.0	0.0	
32.00000	26.00000	19.50000	-2.5129	19.083	0.0	0.0	0.0	
33.00000	26.00000	19.50000	-2.1995	19.083	0.0	0.0	0.0	
34.00000	26.00000	19.50000	-1.6164	19.083	0.0	0.0	0.0	
35.00000	26.00000	19.50000	-1.0418	19.083	0.0	0.0	0.0	
36.00000	26.00000	19.50000	-0.73027	19.083	0.0	0.0	0.0	
37.00000	26.00000	19.50000	-0.51469	19.083	0.0	0.0	0.0	
38.00000	26.00000	19.50000	-0.35599	19.083	0.0	0.0	0.0	
39.00000	26.00000	19.50000	-0.23537	19.083	0.0	0.0	0.0	
40.00000	26.00000	19.50000	-0.14211	19.083	0.0	0.0	0.0	
41.00000	26.00000	19.50000	-0.069346	19.083	0.0	0.0	0.0	
42.00000	26.00000	19.50000	-0.012334	19.083	0.0	0.0	0.0	
43.00000	26.00000	19.50000	0.032350	19.083	0.0	0.0	0.0	
44.00000	26.00000	19.50000	0.067274	19.083	0.0	0.0	0.0	
45.00000	26.00000	19.50000	0.094403	19.083	0.0	0.0	0.0	
46.00000	26.00000	19.50000	0.11527	19.083	0.0	0.0	0.0	
47.00000	26.00000	19.50000	0.13109	19.083	0.0	0.0	0.0	
48.00000	26.00000	19.50000	0.14282	19.083	0.0	0.0	0.0	
49.00000	26.00000	19.50000	0.15126	19.083	0.0	0.0	0.0	
50.00000	26.00000	19.50000	0.15701	19.083	0.0	0.0	0.0	
51.00000	26.00000	19.50000	0.16060	19.083	0.0	0.0	0.0	
52.00000	26.00000	19.50000	0.16244	19.083	0.0	0.0	0.0	
53.00000	26.00000	19.50000	0.16288	19.083	0.0	0.0	0.0	
54.00000	26.00000	19.50000	0.16220	19.083	0.0	0.0	0.0	
55.00000	26.00000	19.50000	0.16062	19.083	0.0	0.0	0.0	
-25.00000	27.00000	19.50000	0.16743	19.083	0.0	0.0	0.0	
-24.00000	27.00000	19.50000	0.17042	19.083	0.0	0.0	0.0	
-23.00000	27.00000	19.50000	0.17282	19.083	0.0	0.0	0.0	
-22.00000	27.00000	19.50000	0.17445	19.083	0.0	0.0	0.0	
-21.00000	27.00000	19.50000	0.17512	19.083	0.0	0.		



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No. Sheet No. Rev.

J15249

Dr. Ref.

Made by MP

Date

Checked

Name	Location		Z [Level] [mm]	Z [mm]	Calc Level [mOD]	Stresses		
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
-10.00000	27.00000	19.50000	-0.0045491	19.083	0.0	0.0	0.0	
-9.00000	27.00000	19.50000	-0.060728	19.083	0.0	0.0	0.0	
-8.00000	27.00000	19.50000	-0.13109	19.083	0.0	0.0	0.0	
-7.00000	27.00000	19.50000	-0.21907	19.083	0.0	0.0	0.0	
-6.00000	27.00000	19.50000	-0.32912	19.083	0.0	0.0	0.0	
-5.00000	27.00000	19.50000	-0.46713	19.083	0.0	0.0	0.0	
-4.00000	27.00000	19.50000	-0.64103	19.083	0.0	0.0	0.0	
-3.00000	27.00000	19.50000	-0.86193	19.083	0.0	0.0	0.0	
-2.00000	27.00000	19.50000	-1.1456	19.083	0.0	0.0	0.0	
-1.00000	27.00000	19.50000	-1.5123	19.083	0.0	0.0	0.0	
0.00000	27.00000	19.50000	-1.9648	19.083	0.0	0.0	0.0	
1.00000	27.00000	19.50000	-2.4168	19.083	0.0	0.0	0.0	
2.00000	27.00000	19.50000	-2.7820	19.083	0.0	0.0	0.0	
3.00000	27.00000	19.50000	-3.0631	19.083	0.0	0.0	0.0	
4.00000	27.00000	19.50000	-3.2802	19.083	0.0	0.0	0.0	
5.00000	27.00000	19.50000	-3.4488	19.083	0.0	0.0	0.0	
6.00000	27.00000	19.50000	-3.5797	19.083	0.0	0.0	0.0	
7.00000	27.00000	19.50000	-3.6805	19.083	0.0	0.0	0.0	
8.00000	27.00000	19.50000	-3.7566	19.083	0.0	0.0	0.0	
9.00000	27.00000	19.50000	-3.8118	19.083	0.0	0.0	0.0	
10.00000	27.00000	19.50000	-3.8487	19.083	0.0	0.0	0.0	
11.00000	27.00000	19.50000	-3.8690	19.083	0.0	0.0	0.0	
12.00000	27.00000	19.50000	-3.8737	19.083	0.0	0.0	0.0	
13.00000	27.00000	19.50000	-3.8628	19.083	0.0	0.0	0.0	
14.00000	27.00000	19.50000	-3.8356	19.083	0.0	0.0	0.0	
15.00000	27.00000	19.50000	-3.7906	19.083	0.0	0.0	0.0	
16.00000	27.00000	19.50000	-3.7249	19.083	0.0	0.0	0.0	
17.00000	27.00000	19.50000	-3.6341	19.083	0.0	0.0	0.0	
18.00000	27.00000	19.50000	-3.5118	19.083	0.0	0.0	0.0	
19.00000	27.00000	19.50000	-3.3591	19.083	0.0	0.0	0.0	
20.00000	27.00000	19.50000	-3.1448	19.083	0.0	0.0	0.0	
21.00000	27.00000	19.50000	-2.9364	19.083	0.0	0.0	0.0	
22.00000	27.00000	19.50000	-2.7612	19.083	0.0	0.0	0.0	
23.00000	27.00000	19.50000	-2.6175	19.083	0.0	0.0	0.0	
24.00000	27.00000	19.50000	-2.4956	19.083	0.0	0.0	0.0	
25.00000	27.00000	19.50000	-2.3874	19.083	0.0	0.0	0.0	
26.00000	27.00000	19.50000	-2.2866	19.083	0.0	0.0	0.0	
27.00000	27.00000	19.50000	-2.1881	19.083	0.0	0.0	0.0	
28.00000	27.00000	19.50000	-2.0867	19.083	0.0	0.0	0.0	
29.00000	27.00000	19.50000	-1.9771	19.083	0.0	0.0	0.0	
30.00000	27.00000	19.50000	-1.8536	19.083	0.0	0.0	0.0	
31.00000	27.00000	19.50000	-1.7085	19.083	0.0	0.0	0.0	
32.00000	27.00000	19.50000	-1.5322	19.083	0.0	0.0	0.0	
33.00000	27.00000	19.50000	-1.3124	19.083	0.0	0.0	0.0	
34.00000	27.00000	19.50000	-1.0470	19.083	0.0	0.0	0.0	
35.00000	27.00000	19.50000	-0.7393	19.083	0.0	0.0	0.0	
36.00000	27.00000	19.50000	-0.57117	19.083	0.0	0.0	0.0	
37.00000	27.00000	19.50000	-0.40688	19.083	0.0	0.0	0.0	
38.00000	27.00000	19.50000	-0.27932	19.083	0.0	0.0	0.0	
39.00000	27.00000	19.50000	-0.1797	19.083	0.0	0.0	0.0	
40.00000	27.00000	19.50000	-0.10055	19.083	0.0	0.0	0.0	
41.00000	27.00000	19.50000	-0.038221	19.083	0.0	0.0	0.0	
42.00000	27.00000	19.50000	0.011068	19.083	0.0	0.0	0.0	
43.00000	27.00000	19.50000	0.049948	19.083	0.0	0.0	0.0	
44.00000	27.00000	19.50000	0.08459	19.083	0.0	0.0	0.0	
45.00000	27.00000	19.50000	0.10421	19.083	0.0	0.0	0.0	
46.00000	27.00000	19.50000	0.12247	19.083	0.0	0.0	0.0	
47.00000	27.00000	19.50000	0.13627	19.083	0.0	0.0	0.0	
48.00000	27.00000	19.50000	0.14644	19.083	0.0	0.0	0.0	
49.00000	27.00000	19.50000	0.15366	19.083	0.0	0.0	0.0	
50.00000	27.00000	19.50000	0.15847	19.083	0.0	0.0	0.0	
51.00000	27.00000	19.50000	0.16134	19.083	0.0	0.0	0.0	
52.00000	27.00000	19.50000	0.16263	19.083	0.0	0.0	0.0	
53.00000	27.00000	19.50000	0.16265	19.083	0.0	0.0	0.0	
54.00000	27.00000	19.50000	0.16165	19.083	0.0	0.0	0.0	
55.00000	27.00000	19.50000	0.15983	19.083	0.0	0.0	0.0	
-25.00000	28.00000	19.50000	0.16608	19.083	0.0	0.0	0.0	
-24.00000	28.00000	19.50000	0.16919	19.083	0.0	0.0	0.0	
-23.00000	28.00000	19.50000	0.17177	19.083	0.0	0.0	0.0	
-22.00000	28.00000	19.50000	0.17365	19.083	0.0	0.0	0.0	
-21.00000	28.00000	19.50000	0.17466	19.083	0.0	0.0	0.0	
-20.00000	28.00000	19.50000	0.17459	19.083	0.0	0.0	0.0	
-19.00000	28.00000	19.50000	0.17317	19.083	0.0	0.0	0.0	
-18.00000	28.00000	19.50000	0.17008	19.083	0.0	0.0	0.0	
-17.00000	28.00000	19.50000	0.16495	19.083	0.0	0.0	0.0	
-16.00000	28.00000	19.50000	0.15733	19.083	0.0	0.0	0.0	
-15.00000	28.00000	19.50000	0.14668	19.083	0.0	0.0	0.0	
-14.00000	28.00000	19.50000	0.13232	19.083	0.0	0.0	0.0	
-13.00000	28.00000	19.50000	0.11348	19.083	0.0	0.0	0.0	
-12.00000	28.00000	19.50000	0.09196	19.083	0.0	0.0	0.0	
-11.00000	28.00000	19.50000	0.058279	19.083	0.0	0.0	0.0	
-10.00000	28.00000	19.50000	0.019342	19.083	0.0	0.0	0.0	
-9.00000	28.00000	19.50000	-0.029355	19.083	0.0	0.0	0.0	
-8.00000	28.00000	19.50000	-0.089927	19.083	0.0	0.0	0.0	
-7.00000	28.00000	19.50000	-0.16498	19.083	0.0	0.0	0.0	
-6.00000	28.00000	19.50000	-0.25770	19.083	0.0	0.0	0.0	
-5.00000	28.00000	19.50000	-0.37202	19.083	0.0	0.0	0.0	
-4.00000	28.00000	19.50000	-0.51272	19.083	0.0	0.0	0.0	
-3.00000	28.00000	19.50000	-0.68532	19.083	0.0	0.0	0.0	
-2.00000	28.00000	19.50000	-0.89529	19.083	0.0	0.0	0.0	
-1.00000	28.00000	19.50000	-1.1447	19.083	0.0	0.0	0.0	
0.00000	28.00000	19.50000	-1.4230	19.083	0.0	0.0	0.0	
1.00000	28.00000	19.50000	-1.7009	19.083	0.0	0.0	0.0	
2.00000	28.00000	19.50000	-1.9490	19.083	0.0	0.0	0.0	
3.00000	28.00000	19.50000	-2.1567	19.083	0.0	0.0	0.0	
4.00000	28.00000	19.50000	-2.3260	19.083	0.0	0.0	0.0	
5.00000	28.00000	19.50000	-2.4620	19.083	0.0	0.0	0.0	
6.00000	28.00000	19.50000	-2.5702	19.083	0.0	0.0	0.0	
7.00000	28.00000	19.50000	-2.6548	19.083	0.0	0.0	0.0	
8.00000	28.00000	19.50000	-2.7195	19.083	0.0	0.0	0.0	
9.00000	28.00000	19.50000	-2.7669	19.083	0.0	0.0	0.0	
10.00000	28.00000	19.50000	-2.7990	19.083	0.0	0.0	0.0	
11.00000	28.00000	19.50000	-2.8169	19.083	0.0	0.0	0.0	
12.00000	28.00000	19.50000	-2.8216	19.083	0.0	0.0	0.0	
13.00000	28.00000	19.50000	-2.8131	19.083	0.0	0.0	0.0	
14.00000	28.00000	19.50000	-2.7910	19.083	0.0	0.0	0.0	
15.00000	28.00000	19.50000	-2.7546	19.083	0.0	0.0	0.0	
16.00000	28.00000	19.50000	-2.7022	19.083	0.0	0.0	0.0	
17.00000	28.00000	19.50000	-2.6319	19.083	0.0	0.0	0.0	
18.00000	28.00000	19.50000	-2.5416	19.083	0.0	0.0	0.0	
19.00000	28.00000	19.50000	-2.4304	19.083	0.0	0.0	0.0	
20.00000	28.00000	19.50000	-2.3030	19.083	0.0	0.0	0.0	
21.00000	28.00000	19.50000	-2.1719	19.083	0.0	0.0	0.0	
22.00000	28.00000	19.50000	-2.0498	19.083	0.0	0.0	0.0	
23.00000	28.00000	19.50000	-1.9406	19.083	0.0	0.0	0.0	
24.00000	28.00000	19.50000	-1.8428	19.083	0.0	0.0	0.0	
25.00000	28.00000	19.50000	-1.7533	19.083	0.0	0.0	0.0	
26.00000	28.00000	19.50000	-1.6683	19.083	0.0	0.0	0.0	
27.00000	28.00000	19.50000	-1.5846	19.083	0.0	0.0	0.0	
28.00000	28.00000	19.50000	-1.4985	19.083	0.0	0.0	0.0	
29.00000	28.00000	19.50000	-1.4066	19.083	0.0	0.0	0.0	
30.00000	28.00000	19.50000	-1.3050	19.083	0.0	0.0	0.0	
31.00000	28.00000	19.50000	-1.1897	19.083	0.0	0.0	0.0	
32.00000	28.00000	19.50000	-1.0569	19.083	0.0	0.0	0.0	
33.00000	28.00000	19.50000	-0.90474	19.083	0.0	0.0	0.0	
34.00000	28.00000	19.50000	-0.73858	19.083	0.0	0.0	0.0	
35.00000	28.00000	19.50000	-0.57448	19.083	0.0	0.0	0.0	
36.00000	28.00000	19.50000	-0.42857	19.083	0.0	0.0	0.0	
37.00000	28.00000	19.50000	-0.30637	19.083	0.0	0.0	0.0	
38.00000	28.00000	19.50000	-0.20649	19.083	0.0	0.0	0.0	
39.00000	28.00000	19.50000	-0.12560	19.083	0.0	0.0	0.0	
40.000								



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Dr. Ref.		
Made by	Date	Checked
MP		

Name	Location		Z [Level] [mm]	Z [mm]	Calc Level [mOD]	Stresses		
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
50.00000	28.00000	19.50000	0.15979	19.083	0.0	0.0	0.0	
51.00000	28.00000	19.50000	0.16194	19.083	0.0	0.0	0.0	
52.00000	28.00000	19.50000	0.16269	19.083	0.0	0.0	0.0	
53.00000	28.00000	19.50000	0.16229	19.083	0.0	0.0	0.0	
54.00000	28.00000	19.50000	0.16097	19.083	0.0	0.0	0.0	
55.00000	28.00000	19.50000	0.15893	19.083	0.0	0.0	0.0	
-25.00000	29.00000	19.50000	0.16461	19.083	0.0	0.0	0.0	
-24.00000	29.00000	19.50000	0.16784	19.083	0.0	0.0	0.0	
-23.00000	29.00000	19.50000	0.17058	19.083	0.0	0.0	0.0	
-22.00000	29.00000	19.50000	0.17271	19.083	0.0	0.0	0.0	
-21.00000	29.00000	19.50000	0.17407	19.083	0.0	0.0	0.0	
-20.00000	29.00000	19.50000	0.17442	19.083	0.0	0.0	0.0	
-19.00000	29.00000	19.50000	0.17358	19.083	0.0	0.0	0.0	
-18.00000	29.00000	19.50000	0.17125	19.083	0.0	0.0	0.0	
-17.00000	29.00000	19.50000	0.16710	19.083	0.0	0.0	0.0	
-16.00000	29.00000	19.50000	0.16074	19.083	0.0	0.0	0.0	
-15.00000	29.00000	19.50000	0.15169	19.083	0.0	0.0	0.0	
-14.00000	29.00000	19.50000	0.13939	19.083	0.0	0.0	0.0	
-13.00000	29.00000	19.50000	0.12317	19.083	0.0	0.0	0.0	
-12.00000	29.00000	19.50000	0.10223	19.083	0.0	0.0	0.0	
-11.00000	29.00000	19.50000	0.076610	19.083	0.0	0.0	0.0	
-10.00000	29.00000	19.50000	0.042176	19.083	0.0	0.0	0.0	
-9.00000	29.00000	19.50000	571.73E-6	19.083	0.0	0.0	0.0	
-8.00000	29.00000	19.50000	-0.050805	19.083	0.0	0.0	0.0	
-7.00000	29.00000	19.50000	-0.11384	19.083	0.0	0.0	0.0	
-6.00000	29.00000	19.50000	-0.15071	19.083	0.0	0.0	0.0	
-5.00000	29.00000	19.50000	-0.28386	19.083	0.0	0.0	0.0	
-4.00000	29.00000	19.50000	-0.39589	19.083	0.0	0.0	0.0	
-3.00000	29.00000	19.50000	-0.52910	19.083	0.0	0.0	0.0	
-2.00000	29.00000	19.50000	-0.68458	19.083	0.0	0.0	0.0	
-1.00000	29.00000	19.50000	-0.86029	19.083	0.0	0.0	0.0	
0.00000	29.00000	19.50000	-1.0486	19.083	0.0	0.0	0.0	
1.00000	29.00000	19.50000	-1.2366	19.083	0.0	0.0	0.0	
2.00000	29.00000	19.50000	-1.4112	19.083	0.0	0.0	0.0	
3.00000	29.00000	19.50000	-1.5647	19.083	0.0	0.0	0.0	
4.00000	29.00000	19.50000	-1.6951	19.083	0.0	0.0	0.0	
5.00000	29.00000	19.50000	-1.8031	19.083	0.0	0.0	0.0	
6.00000	29.00000	19.50000	-1.8910	19.083	0.0	0.0	0.0	
7.00000	29.00000	19.50000	-1.9609	19.083	0.0	0.0	0.0	
8.00000	29.00000	19.50000	-2.0151	19.083	0.0	0.0	0.0	
9.00000	29.00000	19.50000	-2.0552	19.083	0.0	0.0	0.0	
10.00000	29.00000	19.50000	-2.0827	19.083	0.0	0.0	0.0	
11.00000	29.00000	19.50000	-2.0983	19.083	0.0	0.0	0.0	
12.00000	29.00000	19.50000	-2.1029	19.083	0.0	0.0	0.0	
13.00000	29.00000	19.50000	-2.0965	19.083	0.0	0.0	0.0	
14.00000	29.00000	19.50000	-2.0790	19.083	0.0	0.0	0.0	
15.00000	29.00000	19.50000	-2.0501	19.083	0.0	0.0	0.0	
16.00000	29.00000	19.50000	-2.0091	19.083	0.0	0.0	0.0	
17.00000	29.00000	19.50000	-1.9554	19.083	0.0	0.0	0.0	
18.00000	29.00000	19.50000	-1.8887	19.083	0.0	0.0	0.0	
19.00000	29.00000	19.50000	-1.8099	19.083	0.0	0.0	0.0	
20.00000	29.00000	19.50000	-1.7225	19.083	0.0	0.0	0.0	
21.00000	29.00000	19.50000	-1.6319	19.083	0.0	0.0	0.0	
22.00000	29.00000	19.50000	-1.5436	19.083	0.0	0.0	0.0	
23.00000	29.00000	19.50000	-1.4465	19.083	0.0	0.0	0.0	
24.00000	29.00000	19.50000	-1.3829	19.083	0.0	0.0	0.0	
25.00000	29.00000	19.50000	-1.3097	19.083	0.0	0.0	0.0	
26.00000	29.00000	19.50000	-1.2392	19.083	0.0	0.0	0.0	
27.00000	29.00000	19.50000	-1.1691	19.083	0.0	0.0	0.0	
28.00000	29.00000	19.50000	-1.0972	19.083	0.0	0.0	0.0	
29.00000	29.00000	19.50000	-1.0212	19.083	0.0	0.0	0.0	
30.00000	29.00000	19.50000	-0.93885	19.083	0.0	0.0	0.0	
31.00000	29.00000	19.50000	-0.84817	19.083	0.0	0.0	0.0	
32.00000	29.00000	19.50000	-0.74793	19.083	0.0	0.0	0.0	
33.00000	29.00000	19.50000	-0.63876	19.083	0.0	0.0	0.0	
34.00000	29.00000	19.50000	-0.52450	19.083	0.0	0.0	0.0	
35.00000	29.00000	19.50000	-0.41204	19.083	0.0	0.0	0.0	
36.00000	29.00000	19.50000	-0.30836	19.083	0.0	0.0	0.0	
37.00000	29.00000	19.50000	-0.21745	19.083	0.0	0.0	0.0	
38.00000	29.00000	19.50000	-0.14021	19.083	0.0	0.0	0.0	
39.00000	29.00000	19.50000	-0.075820	19.083	0.0	0.0	0.0	
40.00000	29.00000	19.50000	-0.022817	19.083	0.0	0.0	0.0	
41.00000	29.00000	19.50000	0.020396	19.083	0.0	0.0	0.0	
42.00000	29.00000	19.50000	0.055318	19.083	0.0	0.0	0.0	
43.00000	29.00000	19.50000	0.090276	19.083	0.0	0.0	0.0	
44.00000	29.00000	19.50000	0.10541	19.083	0.0	0.0	0.0	
45.00000	29.00000	19.50000	0.12270	19.083	0.0	0.0	0.0	
46.00000	29.00000	19.50000	0.13596	19.083	0.0	0.0	0.0	
47.00000	29.00000	19.50000	0.14587	19.083	0.0	0.0	0.0	
48.00000	29.00000	19.50000	0.15303	19.083	0.0	0.0	0.0	
49.00000	29.00000	19.50000	0.15790	19.083	0.0	0.0	0.0	
50.00000	29.00000	19.50000	0.16090	19.083	0.0	0.0	0.0	
51.00000	29.00000	19.50000	0.16237	19.083	0.0	0.0	0.0	
52.00000	29.00000	19.50000	0.16259	19.083	0.0	0.0	0.0	
53.00000	29.00000	19.50000	0.16179	19.083	0.0	0.0	0.0	
54.00000	29.00000	19.50000	0.16017	19.083	0.0	0.0	0.0	
55.00000	29.00000	19.50000	0.15791	19.083	0.0	0.0	0.0	
-25.00000	30.00000	19.50000	0.16302	19.083	0.0	0.0	0.0	
-24.00000	30.00000	19.50000	0.16636	19.083	0.0	0.0	0.0	
-23.00000	30.00000	19.50000	0.16927	19.083	0.0	0.0	0.0	
-22.00000	30.00000	19.50000	0.17162	19.083	0.0	0.0	0.0	
-21.00000	30.00000	19.50000	0.17328	19.083	0.0	0.0	0.0	
-20.00000	30.00000	19.50000	0.17407	19.083	0.0	0.0	0.0	
-19.00000	30.00000	19.50000	0.17379	19.083	0.0	0.0	0.0	
-18.00000	30.00000	19.50000	0.17218	19.083	0.0	0.0	0.0	
-17.00000	30.00000	19.50000	0.16897	19.083	0.0	0.0	0.0	
-16.00000	30.00000	19.50000	0.16380	19.083	0.0	0.0	0.0	
-15.00000	30.00000	19.50000	0.15629	19.083	0.0	0.0	0.0	
-14.00000	30.00000	19.50000	0.14595	19.083	0.0	0.0	0.0	
-13.00000	30.00000	19.50000	0.13222	19.083	0.0	0.0	0.0	
-12.00000	30.00000	19.50000	0.11444	19.083	0.0	0.0	0.0	
-11.00000	30.00000	19.50000	0.091847	19.083	0.0	0.0	0.0	
-10.00000	30.00000	19.50000	0.063545	19.083	0.0	0.0	0.0	
-9.00000	30.00000	19.50000	0.028498	19.083	0.0	0.0	0.0	
-8.00000	30.00000	19.50000	-0.014473	19.083	0.0	0.0	0.0	
-7.00000	30.00000	19.50000	-0.066685	19.083	0.0	0.0	0.0	
-6.00000	30.00000	19.50000	-0.12956	19.083	0.0	0.0	0.0	
-5.00000	30.00000	19.50000	-0.20453	19.083	0.0	0.0	0.0	
-4.00000	30.00000	19.50000	-0.29286	19.083	0.0	0.0	0.0	
-3.00000	30.00000	19.50000	-0.39529	19.083	0.0	0.0	0.0	
-2.00000	30.00000	19.50000	-0.51139	19.083	0.0	0.0	0.0	
-1.00000	30.00000	19.50000	-0.63883	19.083	0.0	0.0	0.0	
0.00000	30.00000	19.50000	-0.77276	19.083	0.0	0.0	0.0	
1.00000	30.00000	19.50000	-0.90637	19.083	0.0	0.0	0.0	
2.00000	30.00000	19.50000	-1.0329	19.083	0.0	0.0	0.0	
3.00000	30.00000	19.50000	-1.1473	19.083	0.0	0.0	0.0	
4.00000	30.00000	19.50000	-1.2473	19.083	0.0	0.0	0.0	
5.00000	30.00000	19.50000	-1.3323	19.083	0.0	0.0	0.0	
6.00000	30.00000	19.50000	-1.4028	19.083	0.0	0.0	0.0	
7.00000	30.00000	19.50000	-1.4599	19.083	0.0	0.0	0.0	
8.00000	30.00000	19.50000	-1.5046	19.083	0.0	0.0	0.0	
9.00000	30.00000	19.50000	-1.5382	19.083	0.0	0.0	0.0	
10.00000	30.00000	19.50000	-1.5613	19.083	0.0	0.0	0.0	
11.00000	30.00000	19.50000	-1.5748	19.083	0.0	0.0	0.0	
12.00000	30.00000	19.50000	-1.5792	19.083	0.0	0.0	0.0	
13.00000	30.00000	19.50000	-1.5745	19.083	0.0	0.0	0.0	
14.00000	30.00000	19.50000	-1.5610	19.083	0.0	0.0	0.0	
15.00000	30.00000	19.50000	-1.5384	19.083	0.0	0.0	0.0	
16.00000	30.00000	19.50000	-1.5067	19.083	0.0	0.0	0.0	
17.00000	30.00000	19.50000	-1.4658	19.083	0.0	0.0	0.0	
18.00000	30.00000	19.50000	-1.4161	19.083	0.0	0.0		



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Dr. Ref.		
Made by	Date	Checked
MP		

Name	Location		Z [Level] [mm]	Z [mm]	Calc Level [mOD]	Stresses		
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
29.00000	30.00000	19.50000	-0.74250	19.083	0.0	0.0	0.0	
30.00000	30.00000	19.50000	-0.67638	19.083	0.0	0.0	0.0	
31.00000	30.00000	19.50000	-0.60531	19.083	0.0	0.0	0.0	
32.00000	30.00000	19.50000	-0.52905	19.083	0.0	0.0	0.0	
33.00000	30.00000	19.50000	-0.44851	19.083	0.0	0.0	0.0	
34.00000	30.00000	19.50000	-0.36606	19.083	0.0	0.0	0.0	
35.00000	30.00000	19.50000	-0.28519	19.083	0.0	0.0	0.0	
36.00000	30.00000	19.50000	-0.20943	19.083	0.0	0.0	0.0	
37.00000	30.00000	19.50000	-0.14127	19.083	0.0	0.0	0.0	
38.00000	30.00000	19.50000	-0.081809	19.083	0.0	0.0	0.0	
39.00000	30.00000	19.50000	-0.033132	19.083	0.0	0.0	0.0	
40.00000	30.00000	19.50000	0.011383	19.083	0.0	0.0	0.0	
41.00000	30.00000	19.50000	0.046514	19.083	0.0	0.0	0.0	
42.00000	30.00000	19.50000	0.075193	19.083	0.0	0.0	0.0	
43.00000	30.00000	19.50000	0.098308	19.083	0.0	0.0	0.0	
44.00000	30.00000	19.50000	0.11668	19.083	0.0	0.0	0.0	
45.00000	30.00000	19.50000	0.13102	19.083	0.0	0.0	0.0	
46.00000	30.00000	19.50000	0.14198	19.083	0.0	0.0	0.0	
47.00000	30.00000	19.50000	0.15010	19.083	0.0	0.0	0.0	
48.00000	30.00000	19.50000	0.15785	19.083	0.0	0.0	0.0	
49.00000	30.00000	19.50000	0.16564	19.083	0.0	0.0	0.0	
50.00000	30.00000	19.50000	0.16179	19.083	0.0	0.0	0.0	
51.00000	30.00000	19.50000	0.16260	19.083	0.0	0.0	0.0	
52.00000	30.00000	19.50000	0.16231	19.083	0.0	0.0	0.0	
53.00000	30.00000	19.50000	0.16113	19.083	0.0	0.0	0.0	
54.00000	30.00000	19.50000	0.15924	19.083	0.0	0.0	0.0	
55.00000	30.00000	19.50000	0.15677	19.083	0.0	0.0	0.0	
-25.00000	31.00000	19.50000	0.16131	19.083	0.0	0.0	0.0	
-24.00000	31.00000	19.50000	0.16475	19.083	0.0	0.0	0.0	
-23.00000	31.00000	19.50000	0.16781	19.083	0.0	0.0	0.0	
-22.00000	31.00000	19.50000	0.17038	19.083	0.0	0.0	0.0	
-21.00000	31.00000	19.50000	0.17233	19.083	0.0	0.0	0.0	
-20.00000	31.00000	19.50000	0.17352	19.083	0.0	0.0	0.0	
-19.00000	31.00000	19.50000	0.17376	19.083	0.0	0.0	0.0	
-18.00000	31.00000	19.50000	0.17283	19.083	0.0	0.0	0.0	
-17.00000	31.00000	19.50000	0.17050	19.083	0.0	0.0	0.0	
-16.00000	31.00000	19.50000	0.16647	19.083	0.0	0.0	0.0	
-15.00000	31.00000	19.50000	0.16040	19.083	0.0	0.0	0.0	
-14.00000	31.00000	19.50000	0.15189	19.083	0.0	0.0	0.0	
-13.00000	31.00000	19.50000	0.14048	19.083	0.0	0.0	0.0	
-12.00000	31.00000	19.50000	0.12664	19.083	0.0	0.0	0.0	
-11.00000	31.00000	19.50000	0.10675	19.083	0.0	0.0	0.0	
-10.00000	31.00000	19.50000	0.083139	19.083	0.0	0.0	0.0	
-9.00000	31.00000	19.50000	0.054020	19.083	0.0	0.0	0.0	
-8.00000	31.00000	19.50000	0.018550	19.083	0.0	0.0	0.0	
-7.00000	31.00000	19.50000	-0.024155	19.083	0.0	0.0	0.0	
-6.00000	31.00000	19.50000	-0.075015	19.083	0.0	0.0	0.0	
-5.00000	31.00000	19.50000	-0.13479	19.083	0.0	0.0	0.0	
-4.00000	31.00000	19.50000	-0.20403	19.083	0.0	0.0	0.0	
-3.00000	31.00000	19.50000	-0.28278	19.083	0.0	0.0	0.0	
-2.00000	31.00000	19.50000	-0.37023	19.083	0.0	0.0	0.0	
-1.00000	31.00000	19.50000	-0.46450	19.083	0.0	0.0	0.0	
0.00000	31.00000	19.50000	-0.56246	19.083	0.0	0.0	0.0	
1.00000	31.00000	19.50000	-0.66017	19.083	0.0	0.0	0.0	
2.00000	31.00000	19.50000	-0.75566	19.083	0.0	0.0	0.0	
3.00000	31.00000	19.50000	-0.83977	19.083	0.0	0.0	0.0	
4.00000	31.00000	19.50000	-0.91652	19.083	0.0	0.0	0.0	
5.00000	31.00000	19.50000	-0.98299	19.083	0.0	0.0	0.0	
6.00000	31.00000	19.50000	-1.0391	19.083	0.0	0.0	0.0	
7.00000	31.00000	19.50000	-1.0851	19.083	0.0	0.0	0.0	
8.00000	31.00000	19.50000	-1.1217	19.083	0.0	0.0	0.0	
9.00000	31.00000	19.50000	-1.1494	19.083	0.0	0.0	0.0	
10.00000	31.00000	19.50000	-1.1688	19.083	0.0	0.0	0.0	
11.00000	31.00000	19.50000	-1.1803	19.083	0.0	0.0	0.0	
12.00000	31.00000	19.50000	-1.1843	19.083	0.0	0.0	0.0	
13.00000	31.00000	19.50000	-1.1811	19.083	0.0	0.0	0.0	
14.00000	31.00000	19.50000	-1.1707	19.083	0.0	0.0	0.0	
15.00000	31.00000	19.50000	-1.1532	19.083	0.0	0.0	0.0	
16.00000	31.00000	19.50000	-1.1288	19.083	0.0	0.0	0.0	
17.00000	31.00000	19.50000	-1.0977	19.083	0.0	0.0	0.0	
18.00000	31.00000	19.50000	-1.0603	19.083	0.0	0.0	0.0	
19.00000	31.00000	19.50000	-1.0176	19.083	0.0	0.0	0.0	
20.00000	31.00000	19.50000	-0.97086	19.083	0.0	0.0	0.0	
21.00000	31.00000	19.50000	-0.92183	19.083	0.0	0.0	0.0	
22.00000	31.00000	19.50000	-0.87203	19.083	0.0	0.0	0.0	
23.00000	31.00000	19.50000	-0.82260	19.083	0.0	0.0	0.0	
24.00000	31.00000	19.50000	-0.77408	19.083	0.0	0.0	0.0	
25.00000	31.00000	19.50000	-0.72646	19.083	0.0	0.0	0.0	
26.00000	31.00000	19.50000	-0.67931	19.083	0.0	0.0	0.0	
27.00000	31.00000	19.50000	-0.63193	19.083	0.0	0.0	0.0	
28.00000	31.00000	19.50000	-0.58353	19.083	0.0	0.0	0.0	
29.00000	31.00000	19.50000	-0.53329	19.083	0.0	0.0	0.0	
30.00000	31.00000	19.50000	-0.48053	19.083	0.0	0.0	0.0	
31.00000	31.00000	19.50000	-0.42487	19.083	0.0	0.0	0.0	
32.00000	31.00000	19.50000	-0.36641	19.083	0.0	0.0	0.0	
33.00000	31.00000	19.50000	-0.30591	19.083	0.0	0.0	0.0	
34.00000	31.00000	19.50000	-0.24481	19.083	0.0	0.0	0.0	
35.00000	31.00000	19.50000	-0.18509	19.083	0.0	0.0	0.0	
36.00000	31.00000	19.50000	-0.12871	19.083	0.0	0.0	0.0	
37.00000	31.00000	19.50000	-0.07728	19.083	0.0	0.0	0.0	
38.00000	31.00000	19.50000	-0.031533	19.083	0.0	0.0	0.0	
39.00000	31.00000	19.50000	0.0080838	19.083	0.0	0.0	0.0	
40.00000	31.00000	19.50000	0.041771	19.083	0.0	0.0	0.0	
41.00000	31.00000	19.50000	0.069940	19.083	0.0	0.0	0.0	
42.00000	31.00000	19.50000	0.099299	19.083	0.0	0.0	0.0	
43.00000	31.00000	19.50000	0.11192	19.083	0.0	0.0	0.0	
44.00000	31.00000	19.50000	0.12688	19.083	0.0	0.0	0.0	
45.00000	31.00000	19.50000	0.13854	19.083	0.0	0.0	0.0	
46.00000	31.00000	19.50000	0.14738	19.083	0.0	0.0	0.0	
47.00000	31.00000	19.50000	0.15384	19.083	0.0	0.0	0.0	
48.00000	31.00000	19.50000	0.15829	19.083	0.0	0.0	0.0	
49.00000	31.00000	19.50000	0.16105	19.083	0.0	0.0	0.0	
50.00000	31.00000	19.50000	0.16241	19.083	0.0	0.0	0.0	
51.00000	31.00000	19.50000	0.16260	19.083	0.0	0.0	0.0	
52.00000	31.00000	19.50000	0.16185	19.083	0.0	0.0	0.0	
53.00000	31.00000	19.50000	0.16031	19.083	0.0	0.0	0.0	
54.00000	31.00000	19.50000	0.15815	19.083	0.0	0.0	0.0	
55.00000	31.00000	19.50000	0.15549	19.083	0.0	0.0	0.0	
-25.00000	32.00000	19.50000	0.15950	19.083	0.0	0.0	0.0	
-24.00000	32.00000	19.50000	0.16302	19.083	0.0	0.0	0.0	
-23.00000	32.00000	19.50000	0.16621	19.083	0.0	0.0	0.0	
-22.00000	32.00000	19.50000	0.16898	19.083	0.0	0.0	0.0	
-21.00000	32.00000	19.50000	0.17120	19.083	0.0	0.0	0.0	
-20.00000	32.00000	19.50000	0.17275	19.083	0.0	0.0	0.0	
-19.00000	32.00000	19.50000	0.17348	19.083	0.0	0.0	0.0	
-18.00000	32.00000	19.50000	0.17319	19.083	0.0	0.0	0.0	
-17.00000	32.00000	19.50000	0.17168	19.083	0.0	0.0	0.0	
-16.00000	32.00000	19.50000	0.16870	19.083	0.0	0.0	0.0	
-15.00000	32.00000	19.50000	0.16396	19.083	0.0	0.0	0.0	
-14.00000	32.00000	19.50000	0.15713	19.083	0.0	0.0	0.0	
-13.00000	32.00000	19.50000	0.14785	19.083	0.0	0.0	0.0	
-12.00000	32.00000	19.50000	0.13569	19.083	0.0	0.0	0.0	
-11.00000	32.00000	19.50000	0.12016	19.083	0.0	0.0	0.0	
-10.00000	32.00000	19.50000	0.10075	19.083	0.0	0.0	0.0	
-9.00000	32.00000	19.50000	0.076891	19.083	0.0	0.0	0.0	
-8.00000	32.00000	19.50000	0.047982	19.083	0.0	0.0	0.0	
-7.00000	32.00000	19.50000	0.013434	19.083	0.0	0.0	0.0	
-6.00000	32.00000	19.50000	-0.027291	19.083	0.0	0.0	0.0	
-5.00000	32.00000	19.50000	-0.074599	19.083	0.0	0.0	0.0	
-4.00000	32.00000	19.50000	-0.12865	19.083	0.0	0.0	0.0	
-3.00000	32.00000							



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Dr. Ref.		
Made by	Date	Checked
MP		

Name	Location		Z [Level] [m]	Z [mm]	Calc Level [mOD]	Stresses		
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
8.00000	32.00000	19.50000	-0.82859	19.083	0.0	0.0	0.0	
9.00000	32.00000	19.50000	-0.85122	19.083	0.0	0.0	0.0	
10.00000	32.00000	19.50000	-0.86724	19.083	0.0	0.0	0.0	
11.00000	32.00000	19.50000	-0.87694	19.083	0.0	0.0	0.0	
12.00000	32.00000	19.50000	-0.88060	19.083	0.0	0.0	0.0	
13.00000	32.00000	19.50000	-0.87842	19.083	0.0	0.0	0.0	
14.00000	32.00000	19.50000	-0.87056	19.083	0.0	0.0	0.0	
15.00000	32.00000	19.50000	-0.85717	19.083	0.0	0.0	0.0	
16.00000	32.00000	19.50000	-0.83845	19.083	0.0	0.0	0.0	
17.00000	32.00000	19.50000	-0.81468	19.083	0.0	0.0	0.0	
18.00000	32.00000	19.50000	-0.78635	19.083	0.0	0.0	0.0	
19.00000	32.00000	19.50000	-0.75413	19.083	0.0	0.0	0.0	
20.00000	32.00000	19.50000	-0.71892	19.083	0.0	0.0	0.0	
21.00000	32.00000	19.50000	-0.68175	19.083	0.0	0.0	0.0	
22.00000	32.00000	19.50000	-0.64355	19.083	0.0	0.0	0.0	
23.00000	32.00000	19.50000	-0.60508	19.083	0.0	0.0	0.0	
24.00000	32.00000	19.50000	-0.56674	19.083	0.0	0.0	0.0	
25.00000	32.00000	19.50000	-0.52863	19.083	0.0	0.0	0.0	
26.00000	32.00000	19.50000	-0.49056	19.083	0.0	0.0	0.0	
27.00000	32.00000	19.50000	-0.45217	19.083	0.0	0.0	0.0	
28.00000	32.00000	19.50000	-0.41303	19.083	0.0	0.0	0.0	
29.00000	32.00000	19.50000	-0.37268	19.083	0.0	0.0	0.0	
30.00000	32.00000	19.50000	-0.33079	19.083	0.0	0.0	0.0	
31.00000	32.00000	19.50000	-0.28723	19.083	0.0	0.0	0.0	
32.00000	32.00000	19.50000	-0.24219	19.083	0.0	0.0	0.0	
33.00000	32.00000	19.50000	-0.19623	19.083	0.0	0.0	0.0	
34.00000	32.00000	19.50000	-0.15029	19.083	0.0	0.0	0.0	
35.00000	32.00000	19.50000	-0.10551	19.083	0.0	0.0	0.0	
36.00000	32.00000	19.50000	-0.063098	19.083	0.0	0.0	0.0	
37.00000	32.00000	19.50000	-0.024032	19.083	0.0	0.0	0.0	
38.00000	32.00000	19.50000	0.011033	19.083	0.0	0.0	0.0	
39.00000	32.00000	19.50000	0.041788	19.083	0.0	0.0	0.0	
40.00000	32.00000	19.50000	0.068218	19.083	0.0	0.0	0.0	
41.00000	32.00000	19.50000	0.090507	19.083	0.0	0.0	0.0	
42.00000	32.00000	19.50000	0.10897	19.083	0.0	0.0	0.0	
43.00000	32.00000	19.50000	0.12397	19.083	0.0	0.0	0.0	
44.00000	32.00000	19.50000	0.13590	19.083	0.0	0.0	0.0	
45.00000	32.00000	19.50000	0.14516	19.083	0.0	0.0	0.0	
46.00000	32.00000	19.50000	0.15209	19.083	0.0	0.0	0.0	
47.00000	32.00000	19.50000	0.15703	19.083	0.0	0.0	0.0	
48.00000	32.00000	19.50000	0.16029	19.083	0.0	0.0	0.0	
49.00000	32.00000	19.50000	0.16211	19.083	0.0	0.0	0.0	
50.00000	32.00000	19.50000	0.16274	19.083	0.0	0.0	0.0	
51.00000	32.00000	19.50000	0.16237	19.083	0.0	0.0	0.0	
52.00000	32.00000	19.50000	0.16118	19.083	0.0	0.0	0.0	
53.00000	32.00000	19.50000	0.15932	19.083	0.0	0.0	0.0	
54.00000	32.00000	19.50000	0.15692	19.083	0.0	0.0	0.0	
55.00000	32.00000	19.50000	0.15408	19.083	0.0	0.0	0.0	
-25.00000	33.00000	19.50000	0.15756	19.083	0.0	0.0	0.0	
-24.00000	33.00000	19.50000	0.16116	19.083	0.0	0.0	0.0	
-23.00000	33.00000	19.50000	0.16447	19.083	0.0	0.0	0.0	
-22.00000	33.00000	19.50000	0.16741	19.083	0.0	0.0	0.0	
-21.00000	33.00000	19.50000	0.16988	19.083	0.0	0.0	0.0	
-20.00000	33.00000	19.50000	0.17177	19.083	0.0	0.0	0.0	
-19.00000	33.00000	19.50000	0.17293	19.083	0.0	0.0	0.0	
-18.00000	33.00000	19.50000	0.17323	19.083	0.0	0.0	0.0	
-17.00000	33.00000	19.50000	0.17247	19.083	0.0	0.0	0.0	
-16.00000	33.00000	19.50000	0.17044	19.083	0.0	0.0	0.0	
-15.00000	33.00000	19.50000	0.16692	19.083	0.0	0.0	0.0	
-14.00000	33.00000	19.50000	0.16253	19.083	0.0	0.0	0.0	
-13.00000	33.00000	19.50000	0.15427	19.083	0.0	0.0	0.0	
-12.00000	33.00000	19.50000	0.14451	19.083	0.0	0.0	0.0	
-11.00000	33.00000	19.50000	0.13198	19.083	0.0	0.0	0.0	
-10.00000	33.00000	19.50000	0.11628	19.083	0.0	0.0	0.0	
-9.00000	33.00000	19.50000	0.097003	19.083	0.0	0.0	0.0	
-8.00000	33.00000	19.50000	0.073740	19.083	0.0	0.0	0.0	
-7.00000	33.00000	19.50000	0.046105	19.083	0.0	0.0	0.0	
-6.00000	33.00000	19.50000	0.013786	19.083	0.0	0.0	0.0	
-5.00000	33.00000	19.50000	-0.023402	19.083	0.0	0.0	0.0	
-4.00000	33.00000	19.50000	-0.064946	19.083	0.0	0.0	0.0	
-3.00000	33.00000	19.50000	-0.11204	19.083	0.0	0.0	0.0	
-2.00000	33.00000	19.50000	-0.16254	19.083	0.0	0.0	0.0	
-1.00000	33.00000	19.50000	-0.21589	19.083	0.0	0.0	0.0	
0.00000	33.00000	19.50000	-0.27069	19.083	0.0	0.0	0.0	
1.00000	33.00000	19.50000	-0.32523	19.083	0.0	0.0	0.0	
2.00000	33.00000	19.50000	-0.37820	19.083	0.0	0.0	0.0	
3.00000	33.00000	19.50000	-0.42787	19.083	0.0	0.0	0.0	
4.00000	33.00000	19.50000	-0.47323	19.083	0.0	0.0	0.0	
5.00000	33.00000	19.50000	-0.51355	19.083	0.0	0.0	0.0	
6.00000	33.00000	19.50000	-0.54842	19.083	0.0	0.0	0.0	
7.00000	33.00000	19.50000	-0.57771	19.083	0.0	0.0	0.0	
8.00000	33.00000	19.50000	-0.60145	19.083	0.0	0.0	0.0	
9.00000	33.00000	19.50000	-0.61977	19.083	0.0	0.0	0.0	
10.00000	33.00000	19.50000	-0.63288	19.083	0.0	0.0	0.0	
11.00000	33.00000	19.50000	-0.64097	19.083	0.0	0.0	0.0	
12.00000	33.00000	19.50000	-0.64422	19.083	0.0	0.0	0.0	
13.00000	33.00000	19.50000	-0.64281	19.083	0.0	0.0	0.0	
14.00000	33.00000	19.50000	-0.63691	19.083	0.0	0.0	0.0	
15.00000	33.00000	19.50000	-0.62668	19.083	0.0	0.0	0.0	
16.00000	33.00000	19.50000	-0.61234	19.083	0.0	0.0	0.0	
17.00000	33.00000	19.50000	-0.59418	19.083	0.0	0.0	0.0	
18.00000	33.00000	19.50000	-0.57258	19.083	0.0	0.0	0.0	
19.00000	33.00000	19.50000	-0.54806	19.083	0.0	0.0	0.0	
20.00000	33.00000	19.50000	-0.52123	19.083	0.0	0.0	0.0	
21.00000	33.00000	19.50000	-0.49276	19.083	0.0	0.0	0.0	
22.00000	33.00000	19.50000	-0.46327	19.083	0.0	0.0	0.0	
23.00000	33.00000	19.50000	-0.43323	19.083	0.0	0.0	0.0	
24.00000	33.00000	19.50000	-0.40298	19.083	0.0	0.0	0.0	
25.00000	33.00000	19.50000	-0.37261	19.083	0.0	0.0	0.0	
26.00000	33.00000	19.50000	-0.34209	19.083	0.0	0.0	0.0	
27.00000	33.00000	19.50000	-0.31124	19.083	0.0	0.0	0.0	
28.00000	33.00000	19.50000	-0.27984	19.083	0.0	0.0	0.0	
29.00000	33.00000	19.50000	-0.24766	19.083	0.0	0.0	0.0	
30.00000	33.00000	19.50000	-0.21456	19.083	0.0	0.0	0.0	
31.00000	33.00000	19.50000	-0.18053	19.083	0.0	0.0	0.0	
32.00000	33.00000	19.50000	-0.14576	19.083	0.0	0.0	0.0	
33.00000	33.00000	19.50000	-0.11065	19.083	0.0	0.0	0.0	
34.00000	33.00000	19.50000	-0.075818	19.083	0.0	0.0	0.0	
35.00000	33.00000	19.50000	-0.04191	19.083	0.0	0.0	0.0	
36.00000	33.00000	19.50000	-0.0099128	19.083	0.0	0.0	0.0	
37.00000	33.00000	19.50000	0.019771	19.083	0.0	0.0	0.0	
38.00000	33.00000	19.50000	0.046597	19.083	0.0	0.0	0.0	
39.00000	33.00000	19.50000	0.070304	19.083	0.0	0.0	0.0	
40.00000	33.00000	19.50000	0.090817	19.083	0.0	0.0	0.0	
41.00000	33.00000	19.50000	0.10821	19.083	0.0	0.0	0.0	
42.00000	33.00000	19.50000	0.12266	19.083	0.0	0.0	0.0	
43.00000	33.00000	19.50000	0.13440	19.083	0.0	0.0	0.0	
44.00000	33.00000	19.50000	0.14369	19.083	0.0	0.0	0.0	
45.00000	33.00000	19.50000	0.15082	19.083	0.0	0.0	0.0	
46.00000	33.00000	19.50000	0.15606	19.083	0.0	0.0	0.0	
47.00000	33.00000	19.50000	0.15964	19.083	0.0	0.0	0.0	
48.00000	33.00000	19.50000	0.16182	19.083	0.0	0.0	0.0	
49.00000	33.00000	19.50000	0.16280	19.083	0.0	0.0	0.0	
50.00000	33.00000	19.50000	0.16276	19.083	0.0	0.0	0.0	
51.00000	33.00000	19.50000	0.16188	19.083	0.0	0.0	0.0	
52.00000	33.00000	19.50000	0.16030	19.083	0.0	0.0	0.0	
53.00000	33.00000	19.50000	0.15815	19.083	0.0	0.0	0.0	
54.00000	33.00000	19.50000	0.15553	19.083	0.0	0.0	0.0	
55.00000	33.00000	19.50000	0.15254	19.083	0.0	0.0	0.0	
-25.00000	34.00000	19.50000	0.15224	19.083	0.0	0.0	0.0	
-24.0000								



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Dr. Ref.		
Made by	Date	Checked
MP		

Name	Location		Z [Level] [mm]	Z [mm]	Calc Level [mOD]	Stresses		
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
-13.00000	34.00000	19.50000	0.15970	19.083	0.0	0.0	0.0	
-12.00000	34.00000	19.50000	0.15207	19.083	0.0	0.0	0.0	
-11.00000	34.00000	19.50000	0.14216	19.083	0.0	0.0	0.0	
-10.00000	34.00000	19.50000	0.12969	19.083	0.0	0.0	0.0	
-9.00000	34.00000	19.50000	0.11436	19.083	0.0	0.0	0.0	
-8.00000	34.00000	19.50000	0.095895	19.083	0.0	0.0	0.0	
-7.00000	34.00000	19.50000	0.074042	19.083	0.0	0.0	0.0	
-6.00000	34.00000	19.50000	0.048633	19.083	0.0	0.0	0.0	
-5.00000	34.00000	19.50000	0.019602	19.083	0.0	0.0	0.0	
-4.00000	34.00000	19.50000	-0.012960	19.083	0.0	0.0	0.0	
-3.00000	34.00000	19.50000	-0.048762	19.083	0.0	0.0	0.0	
-2.00000	34.00000	19.50000	-0.087278	19.083	0.0	0.0	0.0	
-1.00000	34.00000	19.50000	-0.12774	19.083	0.0	0.0	0.0	
0.00000	34.00000	19.50000	-0.16918	19.083	0.0	0.0	0.0	
1.00000	34.00000	19.50000	-0.21051	19.083	0.0	0.0	0.0	
2.00000	34.00000	19.50000	-0.25063	19.083	0.0	0.0	0.0	
3.00000	34.00000	19.50000	-0.28854	19.083	0.0	0.0	0.0	
4.00000	34.00000	19.50000	-0.32343	19.083	0.0	0.0	0.0	
5.00000	34.00000	19.50000	-0.35471	19.083	0.0	0.0	0.0	
6.00000	34.00000	19.50000	-0.38201	19.083	0.0	0.0	0.0	
7.00000	34.00000	19.50000	-0.40513	19.083	0.0	0.0	0.0	
8.00000	34.00000	19.50000	-0.42403	19.083	0.0	0.0	0.0	
9.00000	34.00000	19.50000	-0.43875	19.083	0.0	0.0	0.0	
10.00000	34.00000	19.50000	-0.44937	19.083	0.0	0.0	0.0	
11.00000	34.00000	19.50000	-0.45660	19.083	0.0	0.0	0.0	
12.00000	34.00000	19.50000	-0.45865	19.083	0.0	0.0	0.0	
13.00000	34.00000	19.50000	-0.45798	19.083	0.0	0.0	0.0	
14.00000	34.00000	19.50000	-0.45357	19.083	0.0	0.0	0.0	
15.00000	34.00000	19.50000	-0.44578	19.083	0.0	0.0	0.0	
16.00000	34.00000	19.50000	-0.43480	19.083	0.0	0.0	0.0	
17.00000	34.00000	19.50000	-0.42090	19.083	0.0	0.0	0.0	
18.00000	34.00000	19.50000	-0.40437	19.083	0.0	0.0	0.0	
19.00000	34.00000	19.50000	-0.38561	19.083	0.0	0.0	0.0	
20.00000	34.00000	19.50000	-0.36505	19.083	0.0	0.0	0.0	
21.00000	34.00000	19.50000	-0.34332	19.083	0.0	0.0	0.0	
22.00000	34.00000	19.50000	-0.32026	19.083	0.0	0.0	0.0	
23.00000	34.00000	19.50000	-0.29680	19.083	0.0	0.0	0.0	
24.00000	34.00000	19.50000	-0.27297	19.083	0.0	0.0	0.0	
25.00000	34.00000	19.50000	-0.24890	19.083	0.0	0.0	0.0	
26.00000	34.00000	19.50000	-0.22460	19.083	0.0	0.0	0.0	
27.00000	34.00000	19.50000	-0.20000	19.083	0.0	0.0	0.0	
28.00000	34.00000	19.50000	-0.17501	19.083	0.0	0.0	0.0	
29.00000	34.00000	19.50000	-0.14952	19.083	0.0	0.0	0.0	
30.00000	34.00000	19.50000	-0.12350	19.083	0.0	0.0	0.0	
31.00000	34.00000	19.50000	-0.09700	19.083	0.0	0.0	0.0	
32.00000	34.00000	19.50000	-0.070174	19.083	0.0	0.0	0.0	
33.00000	34.00000	19.50000	-0.043319	19.083	0.0	0.0	0.0	
34.00000	34.00000	19.50000	-0.016845	19.083	0.0	0.0	0.0	
35.00000	34.00000	19.50000	0.0087737	19.083	0.0	0.0	0.0	
36.00000	34.00000	19.50000	0.03352	19.083	0.0	0.0	0.0	
37.00000	34.00000	19.50000	0.055560	19.083	0.0	0.0	0.0	
38.00000	34.00000	19.50000	0.075970	19.083	0.0	0.0	0.0	
39.00000	34.00000	19.50000	0.094078	19.083	0.0	0.0	0.0	
40.00000	34.00000	19.50000	0.10980	19.083	0.0	0.0	0.0	
41.00000	34.00000	19.50000	0.12316	19.083	0.0	0.0	0.0	
42.00000	34.00000	19.50000	0.13424	19.083	0.0	0.0	0.0	
43.00000	34.00000	19.50000	0.14321	19.083	0.0	0.0	0.0	
44.00000	34.00000	19.50000	0.15023	19.083	0.0	0.0	0.0	
45.00000	34.00000	19.50000	0.15552	19.083	0.0	0.0	0.0	
46.00000	34.00000	19.50000	0.15926	19.083	0.0	0.0	0.0	
47.00000	34.00000	19.50000	0.16165	19.083	0.0	0.0	0.0	
48.00000	34.00000	19.50000	0.16288	19.083	0.0	0.0	0.0	
49.00000	34.00000	19.50000	0.16310	19.083	0.0	0.0	0.0	
50.00000	34.00000	19.50000	0.16248	19.083	0.0	0.0	0.0	
51.00000	34.00000	19.50000	0.16114	19.083	0.0	0.0	0.0	
52.00000	34.00000	19.50000	0.15921	19.083	0.0	0.0	0.0	
53.00000	34.00000	19.50000	0.15679	19.083	0.0	0.0	0.0	
54.00000	34.00000	19.50000	0.15399	19.083	0.0	0.0	0.0	
55.00000	34.00000	19.50000	0.15087	19.083	0.0	0.0	0.0	
-25.00000	35.00000	19.50000	0.15337	19.083	0.0	0.0	0.0	
-24.00000	35.00000	19.50000	0.15707	19.083	0.0	0.0	0.0	
-23.00000	35.00000	19.50000	0.16056	19.083	0.0	0.0	0.0	
-22.00000	35.00000	19.50000	0.16378	19.083	0.0	0.0	0.0	
-21.00000	35.00000	19.50000	0.16666	19.083	0.0	0.0	0.0	
-20.00000	35.00000	19.50000	0.16911	19.083	0.0	0.0	0.0	
-19.00000	35.00000	19.50000	0.17104	19.083	0.0	0.0	0.0	
-18.00000	35.00000	19.50000	0.17232	19.083	0.0	0.0	0.0	
-17.00000	35.00000	19.50000	0.17284	19.083	0.0	0.0	0.0	
-16.00000	35.00000	19.50000	0.17244	19.083	0.0	0.0	0.0	
-15.00000	35.00000	19.50000	0.17098	19.083	0.0	0.0	0.0	
-14.00000	35.00000	19.50000	0.16828	19.083	0.0	0.0	0.0	
-13.00000	35.00000	19.50000	0.16414	19.083	0.0	0.0	0.0	
-12.00000	35.00000	19.50000	0.15837	19.083	0.0	0.0	0.0	
-11.00000	35.00000	19.50000	0.15074	19.083	0.0	0.0	0.0	
-10.00000	35.00000	19.50000	0.14104	19.083	0.0	0.0	0.0	
-9.00000	35.00000	19.50000	0.12907	19.083	0.0	0.0	0.0	
-8.00000	35.00000	19.50000	0.11463	19.083	0.0	0.0	0.0	
-7.00000	35.00000	19.50000	0.097566	19.083	0.0	0.0	0.0	
-6.00000	35.00000	19.50000	0.077795	19.083	0.0	0.0	0.0	
-5.00000	35.00000	19.50000	0.055113	19.083	0.0	0.0	0.0	
-4.00000	35.00000	19.50000	0.030233	19.083	0.0	0.0	0.0	
-3.00000	35.00000	19.50000	0.0028105	19.083	0.0	0.0	0.0	
-2.00000	35.00000	19.50000	-0.026545	19.083	0.0	0.0	0.0	
-1.00000	35.00000	19.50000	-0.057270	19.083	0.0	0.0	0.0	
0.00000	35.00000	19.50000	-0.086681	19.083	0.0	0.0	0.0	
1.00000	35.00000	19.50000	-0.12002	19.083	0.0	0.0	0.0	
2.00000	35.00000	19.50000	-0.15051	19.083	0.0	0.0	0.0	
3.00000	35.00000	19.50000	-0.17946	19.083	0.0	0.0	0.0	
4.00000	35.00000	19.50000	-0.20626	19.083	0.0	0.0	0.0	
5.00000	35.00000	19.50000	-0.23046	19.083	0.0	0.0	0.0	
6.00000	35.00000	19.50000	-0.25172	19.083	0.0	0.0	0.0	
7.00000	35.00000	19.50000	-0.26986	19.083	0.0	0.0	0.0	
8.00000	35.00000	19.50000	-0.28479	19.083	0.0	0.0	0.0	
9.00000	35.00000	19.50000	-0.29650	19.083	0.0	0.0	0.0	
10.00000	35.00000	19.50000	-0.30502	19.083	0.0	0.0	0.0	
11.00000	35.00000	19.50000	-0.31044	19.083	0.0	0.0	0.0	
12.00000	35.00000	19.50000	-0.31283	19.083	0.0	0.0	0.0	
13.00000	35.00000	19.50000	-0.31233	19.083	0.0	0.0	0.0	
14.00000	35.00000	19.50000	-0.30904	19.083	0.0	0.0	0.0	
15.00000	35.00000	19.50000	-0.30311	19.083	0.0	0.0	0.0	
16.00000	35.00000	19.50000	-0.29471	19.083	0.0	0.0	0.0	
17.00000	35.00000	19.50000	-0.28406	19.083	0.0	0.0	0.0	
18.00000	35.00000	19.50000	-0.27139	19.083	0.0	0.0	0.0	
19.00000	35.00000	19.50000	-0.25700	19.083	0.0	0.0	0.0	
20.00000	35.00000	19.50000	-0.24118	19.083	0.0	0.0	0.0	
21.00000	35.00000	19.50000	-0.22426	19.083	0.0	0.0	0.0	
22.00000	35.00000	19.50000	-0.20653	19.083	0.0	0.0	0.0	
23.00000	35.00000	19.50000	-0.18822	19.083	0.0	0.0	0.0	
24.00000	35.00000	19.50000	-0.16953	19.083	0.0	0.0	0.0	
25.00000	35.00000	19.50000	-0.15056	19.083	0.0	0.0	0.0	
26.00000	35.00000	19.50000	-0.13134	19.083	0.0	0.0	0.0	
27.00000	35.00000	19.50000	-0.11189	19.083	0.0	0.0	0.0	
28.00000	35.00000	19.50000	-0.092157	19.083	0.0	0.0	0.0	
29.00000	35.00000	19.50000	-0.072131	19.083	0.0	0.0	0.0	
30.00000	35.00000	19.50000	-0.051815	19.083	0.0	0.0	0.0	
31.00000	35.00000	19.50000	-0.031276	19.083	0.0	0.0	0.0	
32.00000	35.00000	19.50000	-0.010652	19.083	0.0	0.0	0.0	
33.00000	35.00000	19.50000	0.0098441	19.083	0.0	0.0	0.0	
34.00000	35.00000	19.50000	0.029931	19.083	0.0	0.0	0.0	
35.00000	35.00000	19.50000	0.049290	19.083	0.0	0.0	0.0	
36.00000								



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Dr. Ref.		
Made by	Date	Checked
MP		

Name	Location		Z [Level] [mm]	Z [mm]	Calc Level [mOD]	Stresses		
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
47.00000	35.00000	19.50000	0.16306	19.083	0.0	0.0	0.0	
48.00000	35.00000	19.50000	0.16346	19.083	0.0	0.0	0.0	
49.00000	35.00000	19.50000	0.16302	19.083	0.0	0.0	0.0	
50.00000	35.00000	19.50000	0.16188	19.083	0.0	0.0	0.0	
51.00000	35.00000	19.50000	0.16014	19.083	0.0	0.0	0.0	
52.00000	35.00000	19.50000	0.15790	19.083	0.0	0.0	0.0	
53.00000	35.00000	19.50000	0.15526	19.083	0.0	0.0	0.0	
54.00000	35.00000	19.50000	0.15229	19.083	0.0	0.0	0.0	
55.00000	35.00000	19.50000	0.14906	19.083	0.0	0.0	0.0	
-25.00000	36.00000	19.50000	0.15112	19.083	0.0	0.0	0.0	
-24.00000	36.00000	19.50000	0.15495	19.083	0.0	0.0	0.0	
-23.00000	36.00000	19.50000	0.15841	19.083	0.0	0.0	0.0	
-22.00000	36.00000	19.50000	0.16173	19.083	0.0	0.0	0.0	
-21.00000	36.00000	19.50000	0.16477	19.083	0.0	0.0	0.0	
-20.00000	36.00000	19.50000	0.16745	19.083	0.0	0.0	0.0	
-19.00000	36.00000	19.50000	0.16968	19.083	0.0	0.0	0.0	
-18.00000	36.00000	19.50000	0.17137	19.083	0.0	0.0	0.0	
-17.00000	36.00000	19.50000	0.17242	19.083	0.0	0.0	0.0	
-16.00000	36.00000	19.50000	0.17270	19.083	0.0	0.0	0.0	
-15.00000	36.00000	19.50000	0.17209	19.083	0.0	0.0	0.0	
-14.00000	36.00000	19.50000	0.17044	19.083	0.0	0.0	0.0	
-13.00000	36.00000	19.50000	0.16761	19.083	0.0	0.0	0.0	
-12.00000	36.00000	19.50000	0.16344	19.083	0.0	0.0	0.0	
-11.00000	36.00000	19.50000	0.15776	19.083	0.0	0.0	0.0	
-10.00000	36.00000	19.50000	0.15042	19.083	0.0	0.0	0.0	
-9.00000	36.00000	19.50000	0.14127	19.083	0.0	0.0	0.0	
-8.00000	36.00000	19.50000	0.13018	19.083	0.0	0.0	0.0	
-7.00000	36.00000	19.50000	0.11706	19.083	0.0	0.0	0.0	
-6.00000	36.00000	19.50000	0.10187	19.083	0.0	0.0	0.0	
-5.00000	36.00000	19.50000	0.084632	19.083	0.0	0.0	0.0	
-4.00000	36.00000	19.50000	0.065461	19.083	0.0	0.0	0.0	
-3.00000	36.00000	19.50000	0.044568	19.083	0.0	0.0	0.0	
-2.00000	36.00000	19.50000	0.022271	19.083	0.0	0.0	0.0	
-1.00000	36.00000	19.50000	-0.0010175	19.083	0.0	0.0	0.0	
0.00000	36.00000	19.50000	-0.024804	19.083	0.0	0.0	0.0	
1.00000	36.00000	19.50000	-0.048550	19.083	0.0	0.0	0.0	
2.00000	36.00000	19.50000	-0.071711	19.083	0.0	0.0	0.0	
3.00000	36.00000	19.50000	-0.093776	19.083	0.0	0.0	0.0	
4.00000	36.00000	19.50000	-0.11430	19.083	0.0	0.0	0.0	
5.00000	36.00000	19.50000	-0.13293	19.083	0.0	0.0	0.0	
6.00000	36.00000	19.50000	-0.14940	19.083	0.0	0.0	0.0	
7.00000	36.00000	19.50000	-0.16354	19.083	0.0	0.0	0.0	
8.00000	36.00000	19.50000	-0.17524	19.083	0.0	0.0	0.0	
9.00000	36.00000	19.50000	-0.18447	19.083	0.0	0.0	0.0	
10.00000	36.00000	19.50000	-0.19123	19.083	0.0	0.0	0.0	
11.00000	36.00000	19.50000	-0.19558	19.083	0.0	0.0	0.0	
12.00000	36.00000	19.50000	-0.19757	19.083	0.0	0.0	0.0	
13.00000	36.00000	19.50000	-0.19728	19.083	0.0	0.0	0.0	
14.00000	36.00000	19.50000	-0.19483	19.083	0.0	0.0	0.0	
15.00000	36.00000	19.50000	-0.19032	19.083	0.0	0.0	0.0	
16.00000	36.00000	19.50000	-0.18390	19.083	0.0	0.0	0.0	
17.00000	36.00000	19.50000	-0.17574	19.083	0.0	0.0	0.0	
18.00000	36.00000	19.50000	-0.16603	19.083	0.0	0.0	0.0	
19.00000	36.00000	19.50000	-0.15498	19.083	0.0	0.0	0.0	
20.00000	36.00000	19.50000	-0.14281	19.083	0.0	0.0	0.0	
21.00000	36.00000	19.50000	-0.12975	19.083	0.0	0.0	0.0	
22.00000	36.00000	19.50000	-0.11602	19.083	0.0	0.0	0.0	
23.00000	36.00000	19.50000	-0.10179	19.083	0.0	0.0	0.0	
24.00000	36.00000	19.50000	-0.087200	19.083	0.0	0.0	0.0	
25.00000	36.00000	19.50000	-0.072345	19.083	0.0	0.0	0.0	
26.00000	36.00000	19.50000	-0.057280	19.083	0.0	0.0	0.0	
27.00000	36.00000	19.50000	-0.042028	19.083	0.0	0.0	0.0	
28.00000	36.00000	19.50000	-0.026597	19.083	0.0	0.0	0.0	
29.00000	36.00000	19.50000	-0.011000	19.083	0.0	0.0	0.0	
30.00000	36.00000	19.50000	0.0047112	19.083	0.0	0.0	0.0	
31.00000	36.00000	19.50000	0.020529	19.083	0.0	0.0	0.0	
32.00000	36.00000	19.50000	0.036280	19.083	0.0	0.0	0.0	
33.00000	36.00000	19.50000	0.051828	19.083	0.0	0.0	0.0	
34.00000	36.00000	19.50000	0.066977	19.083	0.0	0.0	0.0	
35.00000	36.00000	19.50000	0.081506	19.083	0.0	0.0	0.0	
36.00000	36.00000	19.50000	0.095198	19.083	0.0	0.0	0.0	
37.00000	36.00000	19.50000	0.10785	19.083	0.0	0.0	0.0	
38.00000	36.00000	19.50000	0.11930	19.083	0.0	0.0	0.0	
39.00000	36.00000	19.50000	0.12943	19.083	0.0	0.0	0.0	
40.00000	36.00000	19.50000	0.13818	19.083	0.0	0.0	0.0	
41.00000	36.00000	19.50000	0.14554	19.083	0.0	0.0	0.0	
42.00000	36.00000	19.50000	0.15154	19.083	0.0	0.0	0.0	
43.00000	36.00000	19.50000	0.15623	19.083	0.0	0.0	0.0	
44.00000	36.00000	19.50000	0.15971	19.083	0.0	0.0	0.0	
45.00000	36.00000	19.50000	0.16207	19.083	0.0	0.0	0.0	
46.00000	36.00000	19.50000	0.16343	19.083	0.0	0.0	0.0	
47.00000	36.00000	19.50000	0.16389	19.083	0.0	0.0	0.0	
48.00000	36.00000	19.50000	0.16356	19.083	0.0	0.0	0.0	
49.00000	36.00000	19.50000	0.16256	19.083	0.0	0.0	0.0	
50.00000	36.00000	19.50000	0.16097	19.083	0.0	0.0	0.0	
51.00000	36.00000	19.50000	0.15888	19.083	0.0	0.0	0.0	
52.00000	36.00000	19.50000	0.15639	19.083	0.0	0.0	0.0	
53.00000	36.00000	19.50000	0.15356	19.083	0.0	0.0	0.0	
54.00000	36.00000	19.50000	0.15045	19.083	0.0	0.0	0.0	
55.00000	36.00000	19.50000	0.14714	19.083	0.0	0.0	0.0	
-25.00000	37.00000	19.50000	0.14878	19.083	0.0	0.0	0.0	
-24.00000	37.00000	19.50000	0.15252	19.083	0.0	0.0	0.0	
-23.00000	37.00000	19.50000	0.15612	19.083	0.0	0.0	0.0	
-22.00000	37.00000	19.50000	0.15953	19.083	0.0	0.0	0.0	
-21.00000	37.00000	19.50000	0.16271	19.083	0.0	0.0	0.0	
-20.00000	37.00000	19.50000	0.16557	19.083	0.0	0.0	0.0	
-19.00000	37.00000	19.50000	0.16807	19.083	0.0	0.0	0.0	
-18.00000	37.00000	19.50000	0.17011	19.083	0.0	0.0	0.0	
-17.00000	37.00000	19.50000	0.17161	19.083	0.0	0.0	0.0	
-16.00000	37.00000	19.50000	0.17247	19.083	0.0	0.0	0.0	
-15.00000	37.00000	19.50000	0.17259	19.083	0.0	0.0	0.0	
-14.00000	37.00000	19.50000	0.17185	19.083	0.0	0.0	0.0	
-13.00000	37.00000	19.50000	0.17015	19.083	0.0	0.0	0.0	
-12.00000	37.00000	19.50000	0.16734	19.083	0.0	0.0	0.0	
-11.00000	37.00000	19.50000	0.16332	19.083	0.0	0.0	0.0	
-10.00000	37.00000	19.50000	0.15797	19.083	0.0	0.0	0.0	
-9.00000	37.00000	19.50000	0.15117	19.083	0.0	0.0	0.0	
-8.00000	37.00000	19.50000	0.14285	19.083	0.0	0.0	0.0	
-7.00000	37.00000	19.50000	0.13295	19.083	0.0	0.0	0.0	
-6.00000	37.00000	19.50000	0.12146	19.083	0.0	0.0	0.0	
-5.00000	37.00000	19.50000	0.10841	19.083	0.0	0.0	0.0	
-4.00000	37.00000	19.50000	0.093909	19.083	0.0	0.0	0.0	
-3.00000	37.00000	19.50000	0.078122	19.083	0.0	0.0	0.0	
-2.00000	37.00000	19.50000	0.061293	19.083	0.0	0.0	0.0	
-1.00000	37.00000	19.50000	0.043730	19.083	0.0	0.0	0.0	
0.00000	37.00000	19.50000	0.025789	19.083	0.0	0.0	0.0	
1.00000	37.00000	19.50000	0.0078599	19.083	0.0	0.0	0.0	
2.00000	37.00000	19.50000	-0.0096649	19.083	0.0	0.0	0.0	
3.00000	37.00000	19.50000	-0.026413	19.083	0.0	0.0	0.0	
4.00000	37.00000	19.50000	-0.042054	19.083	0.0	0.0	0.0	
5.00000	37.00000	19.50000	-0.056313	19.083	0.0	0.0	0.0	
6.00000	37.00000	19.50000	-0.068979	19.083	0.0	0.0	0.0	
7.00000	37.00000	19.50000	-0.079901	19.083	0.0	0.0	0.0	
8.00000	37.00000	19.50000	-0.088986	19.083	0.0	0.0	0.0	
9.00000	37.00000	19.50000	-0.096187	19.083	0.0	0.0	0.0	
10.00000	37.00000	19.50000	-0.10150	19.083	0.0	0.0	0.0	
11.00000	37.00000	19.50000	-0.10493	19.083	0.0	0.0	0.0	
12.00000	37.00000	19.50000	-0.10654	19.083	0.0	0.0	0.0	
13.00000	37.00000	19.50000	-0.10639	19.083	0.0	0.0	0.0	
14.00000	37.00000	19.50000	-0.10455	19.083	0.0	0.0	0.0	
15.								



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Dr. Ref.		
Made by	Date	Checked
MP		

Name	Location		Z [Level] [mm]	Z [mm]	Calc Level [mOD]	Stresses		
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
26.00000	37.00000	19.50000	0.0014557	19.083	0.0	0.0	0.0	0.0
27.00000	37.00000	19.50000	0.013286	19.083	0.0	0.0	0.0	0.0
28.00000	37.00000	19.50000	0.025223	19.083	0.0	0.0	0.0	0.0
29.00000	37.00000	19.50000	0.037236	19.083	0.0	0.0	0.0	0.0
30.00000	37.00000	19.50000	0.049285	19.083	0.0	0.0	0.0	0.0
31.00000	37.00000	19.50000	0.061307	19.083	0.0	0.0	0.0	0.0
32.00000	37.00000	19.50000	0.073213	19.083	0.0	0.0	0.0	0.0
33.00000	37.00000	19.50000	0.084885	19.083	0.0	0.0	0.0	0.0
34.00000	37.00000	19.50000	0.096184	19.083	0.0	0.0	0.0	0.0
35.00000	37.00000	19.50000	0.10696	19.083	0.0	0.0	0.0	0.0
36.00000	37.00000	19.50000	0.11705	19.083	0.0	0.0	0.0	0.0
37.00000	37.00000	19.50000	0.12633	19.083	0.0	0.0	0.0	0.0
38.00000	37.00000	19.50000	0.13467	19.083	0.0	0.0	0.0	0.0
39.00000	37.00000	19.50000	0.14200	19.083	0.0	0.0	0.0	0.0
40.00000	37.00000	19.50000	0.14826	19.083	0.0	0.0	0.0	0.0
41.00000	37.00000	19.50000	0.15344	19.083	0.0	0.0	0.0	0.0
42.00000	37.00000	19.50000	0.15756	19.083	0.0	0.0	0.0	0.0
43.00000	37.00000	19.50000	0.16065	19.083	0.0	0.0	0.0	0.0
44.00000	37.00000	19.50000	0.16278	19.083	0.0	0.0	0.0	0.0
45.00000	37.00000	19.50000	0.16401	19.083	0.0	0.0	0.0	0.0
46.00000	37.00000	19.50000	0.16445	19.083	0.0	0.0	0.0	0.0
47.00000	37.00000	19.50000	0.16415	19.083	0.0	0.0	0.0	0.0
48.00000	37.00000	19.50000	0.16322	19.083	0.0	0.0	0.0	0.0
49.00000	37.00000	19.50000	0.16173	19.083	0.0	0.0	0.0	0.0
50.00000	37.00000	19.50000	0.15976	19.083	0.0	0.0	0.0	0.0
51.00000	37.00000	19.50000	0.15719	19.083	0.0	0.0	0.0	0.0
52.00000	37.00000	19.50000	0.15467	19.083	0.0	0.0	0.0	0.0
53.00000	37.00000	19.50000	0.15168	19.083	0.0	0.0	0.0	0.0
54.00000	37.00000	19.50000	0.14847	19.083	0.0	0.0	0.0	0.0
55.00000	37.00000	19.50000	0.14509	19.083	0.0	0.0	0.0	0.0
-19.00000	38.00000	19.50000	0.14635	19.083	0.0	0.0	0.0	0.0
-24.00000	38.00000	19.50000	0.15009	19.083	0.0	0.0	0.0	0.0
-23.00000	38.00000	19.50000	0.15372	19.083	0.0	0.0	0.0	0.0
-22.00000	38.00000	19.50000	0.15719	19.083	0.0	0.0	0.0	0.0
-21.00000	38.00000	19.50000	0.16047	19.083	0.0	0.0	0.0	0.0
-20.00000	38.00000	19.50000	0.16349	19.083	0.0	0.0	0.0	0.0
-19.00000	38.00000	19.50000	0.16620	19.083	0.0	0.0	0.0	0.0
-18.00000	38.00000	19.50000	0.16854	19.083	0.0	0.0	0.0	0.0
-17.00000	38.00000	19.50000	0.17042	19.083	0.0	0.0	0.0	0.0
-16.00000	38.00000	19.50000	0.17178	19.083	0.0	0.0	0.0	0.0
-15.00000	38.00000	19.50000	0.17252	19.083	0.0	0.0	0.0	0.0
-14.00000	38.00000	19.50000	0.17256	19.083	0.0	0.0	0.0	0.0
-13.00000	38.00000	19.50000	0.17180	19.083	0.0	0.0	0.0	0.0
-12.00000	38.00000	19.50000	0.17016	19.083	0.0	0.0	0.0	0.0
-11.00000	38.00000	19.50000	0.16752	19.083	0.0	0.0	0.0	0.0
-10.00000	38.00000	19.50000	0.16382	19.083	0.0	0.0	0.0	0.0
-9.00000	38.00000	19.50000	0.15898	19.083	0.0	0.0	0.0	0.0
-8.00000	38.00000	19.50000	0.15293	19.083	0.0	0.0	0.0	0.0
-7.00000	38.00000	19.50000	0.14565	19.083	0.0	0.0	0.0	0.0
-6.00000	38.00000	19.50000	0.13714	19.083	0.0	0.0	0.0	0.0
-5.00000	38.00000	19.50000	0.12743	19.083	0.0	0.0	0.0	0.0
-4.00000	38.00000	19.50000	0.11662	19.083	0.0	0.0	0.0	0.0
-3.00000	38.00000	19.50000	0.10483	19.083	0.0	0.0	0.0	0.0
-2.00000	38.00000	19.50000	0.092259	19.083	0.0	0.0	0.0	0.0
-1.00000	38.00000	19.50000	0.07827	19.083	0.0	0.0	0.0	0.0
0.00000	38.00000	19.50000	0.065698	19.083	0.0	0.0	0.0	0.0
1.00000	38.00000	19.50000	0.052255	19.083	0.0	0.0	0.0	0.0
2.00000	38.00000	19.50000	0.039086	19.083	0.0	0.0	0.0	0.0
3.00000	38.00000	19.50000	0.026463	19.083	0.0	0.0	0.0	0.0
4.00000	38.00000	19.50000	0.014635	19.083	0.0	0.0	0.0	0.0
5.00000	38.00000	19.50000	0.0038115	19.083	0.0	0.0	0.0	0.0
6.00000	38.00000	19.50000	-0.0058399	19.083	0.0	0.0	0.0	0.0
7.00000	38.00000	19.50000	-0.014195	19.083	0.0	0.0	0.0	0.0
8.00000	38.00000	19.50000	-0.021170	19.083	0.0	0.0	0.0	0.0
9.00000	38.00000	19.50000	-0.026719	19.083	0.0	0.0	0.0	0.0
10.00000	38.00000	19.50000	-0.030824	19.083	0.0	0.0	0.0	0.0
11.00000	38.00000	19.50000	-0.033495	19.083	0.0	0.0	0.0	0.0
12.00000	38.00000	19.50000	-0.034761	19.083	0.0	0.0	0.0	0.0
13.00000	38.00000	19.50000	-0.034669	19.083	0.0	0.0	0.0	0.0
14.00000	38.00000	19.50000	-0.033281	19.083	0.0	0.0	0.0	0.0
15.00000	38.00000	19.50000	-0.030673	19.083	0.0	0.0	0.0	0.0
16.00000	38.00000	19.50000	-0.026935	19.083	0.0	0.0	0.0	0.0
17.00000	38.00000	19.50000	-0.022170	19.083	0.0	0.0	0.0	0.0
18.00000	38.00000	19.50000	-0.016490	19.083	0.0	0.0	0.0	0.0
19.00000	38.00000	19.50000	-0.010017	19.083	0.0	0.0	0.0	0.0
20.00000	38.00000	19.50000	-0.0028769	19.083	0.0	0.0	0.0	0.0
21.00000	38.00000	19.50000	0.0048078	19.083	0.0	0.0	0.0	0.0
22.00000	38.00000	19.50000	0.012921	19.083	0.0	0.0	0.0	0.0
23.00000	38.00000	19.50000	0.021361	19.083	0.0	0.0	0.0	0.0
24.00000	38.00000	19.50000	0.030442	19.083	0.0	0.0	0.0	0.0
25.00000	38.00000	19.50000	0.038895	19.083	0.0	0.0	0.0	0.0
26.00000	38.00000	19.50000	0.047870	19.083	0.0	0.0	0.0	0.0
27.00000	38.00000	19.50000	0.056928	19.083	0.0	0.0	0.0	0.0
28.00000	38.00000	19.50000	0.066035	19.083	0.0	0.0	0.0	0.0
29.00000	38.00000	19.50000	0.075157	19.083	0.0	0.0	0.0	0.0
30.00000	38.00000	19.50000	0.084253	19.083	0.0	0.0	0.0	0.0
31.00000	38.00000	19.50000	0.093267	19.083	0.0	0.0	0.0	0.0
32.00000	38.00000	19.50000	0.10213	19.083	0.0	0.0	0.0	0.0
33.00000	38.00000	19.50000	0.11075	19.083	0.0	0.0	0.0	0.0
34.00000	38.00000	19.50000	0.11903	19.083	0.0	0.0	0.0	0.0
35.00000	38.00000	19.50000	0.12687	19.083	0.0	0.0	0.0	0.0
36.00000	38.00000	19.50000	0.13415	19.083	0.0	0.0	0.0	0.0
37.00000	38.00000	19.50000	0.14078	19.083	0.0	0.0	0.0	0.0
38.00000	38.00000	19.50000	0.14667	19.083	0.0	0.0	0.0	0.0
39.00000	38.00000	19.50000	0.15177	19.083	0.0	0.0	0.0	0.0
40.00000	38.00000	19.50000	0.15604	19.083	0.0	0.0	0.0	0.0
41.00000	38.00000	19.50000	0.15946	19.083	0.0	0.0	0.0	0.0
42.00000	38.00000	19.50000	0.16205	19.083	0.0	0.0	0.0	0.0
43.00000	38.00000	19.50000	0.16383	19.083	0.0	0.0	0.0	0.0
44.00000	38.00000	19.50000	0.16485	19.083	0.0	0.0	0.0	0.0
45.00000	38.00000	19.50000	0.16515	19.083	0.0	0.0	0.0	0.0
46.00000	38.00000	19.50000	0.16481	19.083	0.0	0.0	0.0	0.0
47.00000	38.00000	19.50000	0.16389	19.083	0.0	0.0	0.0	0.0
48.00000	38.00000	19.50000	0.16245	19.083	0.0	0.0	0.0	0.0
49.00000	38.00000	19.50000	0.16055	19.083	0.0	0.0	0.0	0.0
50.00000	38.00000	19.50000	0.15827	19.083	0.0	0.0	0.0	0.0
51.00000	38.00000	19.50000	0.15566	19.083	0.0	0.0	0.0	0.0
52.00000	38.00000	19.50000	0.15277	19.083	0.0	0.0	0.0	0.0
53.00000	38.00000	19.50000	0.14965	19.083	0.0	0.0	0.0	0.0
54.00000	38.00000	19.50000	0.14636	19.083	0.0	0.0	0.0	0.0
55.00000	38.00000	19.50000	0.14293	19.083	0.0	0.0	0.0	0.0
-25.00000	39.00000	19.50000	0.14384	19.083	0.0	0.0	0.0	0.0
-24.00000	39.00000	19.50000	0.14757	19.083	0.0	0.0	0.0	0.0
-23.00000	39.00000	19.50000	0.15120	19.083	0.0	0.0	0.0	0.0
-22.00000	39.00000	19.50000	0.15472	19.083	0.0	0.0	0.0	0.0
-21.00000	39.00000	19.50000	0.15807	19.083	0.0	0.0	0.0	0.0
-20.00000	39.00000	19.50000	0.16122	19.083	0.0	0.0	0.0	0.0
-19.00000	39.00000	19.50000	0.16411	19.083	0.0	0.0	0.0	0.0
-18.00000	39.00000	19.50000	0.16669	19.083	0.0	0.0	0.0	0.0
-17.00000	39.00000							



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Dr. Ref.		
Made by	Date	Checked
MP		

Name	Location		Z [Level] [mm]	Z [mm]	Calc Level [mOD]	Stresses		
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
5.00000	39.00000	19.50000	0.050834	19.083	0.0	0.0	0.0	
6.00000	39.00000	19.50000	0.043569	19.083	0.0	0.0	0.0	
7.00000	39.00000	19.50000	0.037261	19.083	0.0	0.0	0.0	
8.00000	39.00000	19.50000	0.031981	19.083	0.0	0.0	0.0	
9.00000	39.00000	19.50000	0.027771	19.083	0.0	0.0	0.0	
10.00000	39.00000	19.50000	0.022620	19.083	0.0	0.0	0.0	
11.00000	39.00000	19.50000	0.022620	19.083	0.0	0.0	0.0	
12.00000	39.00000	19.50000	0.021657	19.083	0.0	0.0	0.0	
13.00000	39.00000	19.50000	0.021729	19.083	0.0	0.0	0.0	
14.00000	39.00000	19.50000	0.022788	19.083	0.0	0.0	0.0	
15.00000	39.00000	19.50000	0.024874	19.083	0.0	0.0	0.0	
16.00000	39.00000	19.50000	0.027618	19.083	0.0	0.0	0.0	
17.00000	39.00000	19.50000	0.031241	19.083	0.0	0.0	0.0	
18.00000	39.00000	19.50000	0.035555	19.083	0.0	0.0	0.0	
19.00000	39.00000	19.50000	0.040469	19.083	0.0	0.0	0.0	
20.00000	39.00000	19.50000	0.045887	19.083	0.0	0.0	0.0	
21.00000	39.00000	19.50000	0.051718	19.083	0.0	0.0	0.0	
22.00000	39.00000	19.50000	0.057873	19.083	0.0	0.0	0.0	
23.00000	39.00000	19.50000	0.064274	19.083	0.0	0.0	0.0	
24.00000	39.00000	19.50000	0.070854	19.083	0.0	0.0	0.0	
25.00000	39.00000	19.50000	0.077556	19.083	0.0	0.0	0.0	
26.00000	39.00000	19.50000	0.084335	19.083	0.0	0.0	0.0	
27.00000	39.00000	19.50000	0.091154	19.083	0.0	0.0	0.0	
28.00000	39.00000	19.50000	0.097978	19.083	0.0	0.0	0.0	
29.00000	39.00000	19.50000	0.104777	19.083	0.0	0.0	0.0	
30.00000	39.00000	19.50000	0.111551	19.083	0.0	0.0	0.0	
31.00000	39.00000	19.50000	0.11812	19.083	0.0	0.0	0.0	
32.00000	39.00000	19.50000	0.12457	19.083	0.0	0.0	0.0	
33.00000	39.00000	19.50000	0.13079	19.083	0.0	0.0	0.0	
34.00000	39.00000	19.50000	0.13670	19.083	0.0	0.0	0.0	
35.00000	39.00000	19.50000	0.14223	19.083	0.0	0.0	0.0	
36.00000	39.00000	19.50000	0.14730	19.083	0.0	0.0	0.0	
37.00000	39.00000	19.50000	0.15185	19.083	0.0	0.0	0.0	
38.00000	39.00000	19.50000	0.15581	19.083	0.0	0.0	0.0	
39.00000	39.00000	19.50000	0.15914	19.083	0.0	0.0	0.0	
40.00000	39.00000	19.50000	0.16182	19.083	0.0	0.0	0.0	
41.00000	39.00000	19.50000	0.16383	19.083	0.0	0.0	0.0	
42.00000	39.00000	19.50000	0.16518	19.083	0.0	0.0	0.0	
43.00000	39.00000	19.50000	0.16590	19.083	0.0	0.0	0.0	
44.00000	39.00000	19.50000	0.16601	19.083	0.0	0.0	0.0	
45.00000	39.00000	19.50000	0.16556	19.083	0.0	0.0	0.0	
46.00000	39.00000	19.50000	0.16458	19.083	0.0	0.0	0.0	
47.00000	39.00000	19.50000	0.16314	19.083	0.0	0.0	0.0	
48.00000	39.00000	19.50000	0.16128	19.083	0.0	0.0	0.0	
49.00000	39.00000	19.50000	0.15906	19.083	0.0	0.0	0.0	
50.00000	39.00000	19.50000	0.15652	19.083	0.0	0.0	0.0	
51.00000	39.00000	19.50000	0.15371	19.083	0.0	0.0	0.0	
52.00000	39.00000	19.50000	0.15068	19.083	0.0	0.0	0.0	
53.00000	39.00000	19.50000	0.14747	19.083	0.0	0.0	0.0	
54.00000	39.00000	19.50000	0.14412	19.083	0.0	0.0	0.0	
55.00000	39.00000	19.50000	0.14066	19.083	0.0	0.0	0.0	
-25.00000	40.00000	19.50000	0.14126	19.083	0.0	0.0	0.0	
-24.00000	40.00000	19.50000	0.14496	19.083	0.0	0.0	0.0	
-23.00000	40.00000	19.50000	0.14859	19.083	0.0	0.0	0.0	
-22.00000	40.00000	19.50000	0.15213	19.083	0.0	0.0	0.0	
-21.00000	40.00000	19.50000	0.15553	19.083	0.0	0.0	0.0	
-20.00000	40.00000	19.50000	0.15877	19.083	0.0	0.0	0.0	
-19.00000	40.00000	19.50000	0.16180	19.083	0.0	0.0	0.0	
-18.00000	40.00000	19.50000	0.16457	19.083	0.0	0.0	0.0	
-17.00000	40.00000	19.50000	0.16704	19.083	0.0	0.0	0.0	
-16.00000	40.00000	19.50000	0.16914	19.083	0.0	0.0	0.0	
-15.00000	40.00000	19.50000	0.17084	19.083	0.0	0.0	0.0	
-14.00000	40.00000	19.50000	0.17206	19.083	0.0	0.0	0.0	
-13.00000	40.00000	19.50000	0.17276	19.083	0.0	0.0	0.0	
-12.00000	40.00000	19.50000	0.17287	19.083	0.0	0.0	0.0	
-11.00000	40.00000	19.50000	0.17234	19.083	0.0	0.0	0.0	
-10.00000	40.00000	19.50000	0.17112	19.083	0.0	0.0	0.0	
-9.00000	40.00000	19.50000	0.16918	19.083	0.0	0.0	0.0	
-8.00000	40.00000	19.50000	0.16649	19.083	0.0	0.0	0.0	
-7.00000	40.00000	19.50000	0.16303	19.083	0.0	0.0	0.0	
-6.00000	40.00000	19.50000	0.15882	19.083	0.0	0.0	0.0	
-5.00000	40.00000	19.50000	0.15389	19.083	0.0	0.0	0.0	
-4.00000	40.00000	19.50000	0.14829	19.083	0.0	0.0	0.0	
-3.00000	40.00000	19.50000	0.14211	19.083	0.0	0.0	0.0	
-2.00000	40.00000	19.50000	0.13546	19.083	0.0	0.0	0.0	
-1.00000	40.00000	19.50000	0.12845	19.083	0.0	0.0	0.0	
0.00000	40.00000	19.50000	0.12124	19.083	0.0	0.0	0.0	
1.00000	40.00000	19.50000	0.11397	19.083	0.0	0.0	0.0	
2.00000	40.00000	19.50000	0.10681	19.083	0.0	0.0	0.0	
3.00000	40.00000	19.50000	0.09905	19.083	0.0	0.0	0.0	
4.00000	40.00000	19.50000	0.093392	19.083	0.0	0.0	0.0	
5.00000	40.00000	19.50000	0.087395	19.083	0.0	0.0	0.0	
6.00000	40.00000	19.50000	0.082016	19.083	0.0	0.0	0.0	
7.00000	40.00000	19.50000	0.077336	19.083	0.0	0.0	0.0	
8.00000	40.00000	19.50000	0.07313	19.083	0.0	0.0	0.0	
9.00000	40.00000	19.50000	0.070283	19.083	0.0	0.0	0.0	
10.00000	40.00000	19.50000	0.067967	19.083	0.0	0.0	0.0	
11.00000	40.00000	19.50000	0.066465	19.083	0.0	0.0	0.0	
12.00000	40.00000	19.50000	0.065766	19.083	0.0	0.0	0.0	
13.00000	40.00000	19.50000	0.065844	19.083	0.0	0.0	0.0	
14.00000	40.00000	19.50000	0.066663	19.083	0.0	0.0	0.0	
15.00000	40.00000	19.50000	0.068179	19.083	0.0	0.0	0.0	
16.00000	40.00000	19.50000	0.070336	19.083	0.0	0.0	0.0	
17.00000	40.00000	19.50000	0.073073	19.083	0.0	0.0	0.0	
18.00000	40.00000	19.50000	0.076225	19.083	0.0	0.0	0.0	
19.00000	40.00000	19.50000	0.080021	19.083	0.0	0.0	0.0	
20.00000	40.00000	19.50000	0.084089	19.083	0.0	0.0	0.0	
21.00000	40.00000	19.50000	0.088459	19.083	0.0	0.0	0.0	
22.00000	40.00000	19.50000	0.093064	19.083	0.0	0.0	0.0	
23.00000	40.00000	19.50000	0.097844	19.083	0.0	0.0	0.0	
24.00000	40.00000	19.50000	0.10275	19.083	0.0	0.0	0.0	
25.00000	40.00000	19.50000	0.10772	19.083	0.0	0.0	0.0	
26.00000	40.00000	19.50000	0.11274	19.083	0.0	0.0	0.0	
27.00000	40.00000	19.50000	0.11775	19.083	0.0	0.0	0.0	
28.00000	40.00000	19.50000	0.12274	19.083	0.0	0.0	0.0	
29.00000	40.00000	19.50000	0.12768	19.083	0.0	0.0	0.0	
30.00000	40.00000	19.50000	0.13252	19.083	0.0	0.0	0.0	
31.00000	40.00000	19.50000	0.13723	19.083	0.0	0.0	0.0	
32.00000	40.00000	19.50000	0.14177	19.083	0.0	0.0	0.0	
33.00000	40.00000	19.50000	0.14609	19.083	0.0	0.0	0.0	
34.00000	40.00000	19.50000	0.15013	19.083	0.0	0.0	0.0	
35.00000	40.00000	19.50000	0.15385	19.083	0.0	0.0	0.0	
36.00000	40.00000	19.50000	0.15718	19.083	0.0	0.0	0.0	
37.00000	40.00000	19.50000	0.16009	19.083	0.0	0.0	0.0	
38.00000	40.00000	19.50000	0.16253	19.083	0.0	0.0	0.0	
39.00000	40.00000	19.50000	0.16446	19.083	0.0	0.0	0.0	
40.00000	40.00000	19.50000	0.16588	19.083	0.0	0.0	0.0	
41.00000	40.00000	19.50000	0.16676	19.083	0.0	0.0	0.0	
42.00000	40.00000	19.50000	0.16713	19.083	0.0	0.0	0.0	
43.00000	40.00000	19.50000	0.16699	19.083	0.0	0.0	0.0	
44.00000	40.00000	19.50000	0.16637	19.083	0.0	0.0	0.0	
45.00000	40.00000	19.50000	0.16530	19.083	0.0	0.0	0.0	
46.00000	40.00000	19.50000	0.16382	19.083	0.0	0.0	0.0	
47.00000	40.00000	19.50000	0.16195	19.083	0.0	0.0	0.0	
48.00000	40.00000	19.50000	0.15976	19.083	0.0	0.0	0.0	
49.00000	40.00000	19.50000	0.15727	19.083	0.0	0.0	0.0	
50.00000	40.00000	19.50000	0.15453	19.083	0.0	0.0	0.0	
51.00000	40.00000	19.50000	0.15157	19.083	0.0	0.0	0.0	
52.00000	40.00000	19.50000	0.14844	19.083	0.0	0.0	0.0	
53.00000	40.00000	19.50000	0.14516	19.083	0.0	0.0		



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Dr. Ref.		
Made by	Date	Checked
MP		

Name	Location		Z [Level] [mm]	Z [mm]	Calc Level [mOD]	Stresses		
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
-16.00000	41.00000	19.50000	0.16727	19.083	0.0	0.0	0.0	
-15.00000	41.00000	19.50000	0.16931	19.083	0.0	0.0	0.0	
-14.00000	41.00000	19.50000	0.17097	19.083	0.0	0.0	0.0	
-13.00000	41.00000	19.50000	0.17220	19.083	0.0	0.0	0.0	
-12.00000	41.00000	19.50000	0.17296	19.083	0.0	0.0	0.0	
-11.00000	41.00000	19.50000	0.17320	19.083	0.0	0.0	0.0	
-10.00000	41.00000	19.50000	0.17289	19.083	0.0	0.0	0.0	
-9.00000	41.00000	19.50000	0.17200	19.083	0.0	0.0	0.0	
-8.00000	41.00000	19.50000	0.17051	19.083	0.0	0.0	0.0	
-7.00000	41.00000	19.50000	0.16842	19.083	0.0	0.0	0.0	
-6.00000	41.00000	19.50000	0.16573	19.083	0.0	0.0	0.0	
-5.00000	41.00000	19.50000	0.16248	19.083	0.0	0.0	0.0	
-4.00000	41.00000	19.50000	0.15869	19.083	0.0	0.0	0.0	
-3.00000	41.00000	19.50000	0.15445	19.083	0.0	0.0	0.0	
-2.00000	41.00000	19.50000	0.14982	19.083	0.0	0.0	0.0	
-1.00000	41.00000	19.50000	0.14491	19.083	0.0	0.0	0.0	
0.00000	41.00000	19.50000	0.13981	19.083	0.0	0.0	0.0	
1.00000	41.00000	19.50000	0.13465	19.083	0.0	0.0	0.0	
2.00000	41.00000	19.50000	0.12953	19.083	0.0	0.0	0.0	
3.00000	41.00000	19.50000	0.12458	19.083	0.0	0.0	0.0	
4.00000	41.00000	19.50000	0.11990	19.083	0.0	0.0	0.0	
5.00000	41.00000	19.50000	0.11557	19.083	0.0	0.0	0.0	
6.00000	41.00000	19.50000	0.11168	19.083	0.0	0.0	0.0	
7.00000	41.00000	19.50000	0.10829	19.083	0.0	0.0	0.0	
8.00000	41.00000	19.50000	0.10545	19.083	0.0	0.0	0.0	
9.00000	41.00000	19.50000	0.10319	19.083	0.0	0.0	0.0	
10.00000	41.00000	19.50000	0.10152	19.083	0.0	0.0	0.0	
11.00000	41.00000	19.50000	0.10045	19.083	0.0	0.0	0.0	
12.00000	41.00000	19.50000	0.099980	19.083	0.0	0.0	0.0	
13.00000	41.00000	19.50000	0.10008	19.083	0.0	0.0	0.0	
14.00000	41.00000	19.50000	0.10073	19.083	0.0	0.0	0.0	
15.00000	41.00000	19.50000	0.10188	19.083	0.0	0.0	0.0	
16.00000	41.00000	19.50000	0.10351	19.083	0.0	0.0	0.0	
17.00000	41.00000	19.50000	0.10556	19.083	0.0	0.0	0.0	
18.00000	41.00000	19.50000	0.10799	19.083	0.0	0.0	0.0	
19.00000	41.00000	19.50000	0.11073	19.083	0.0	0.0	0.0	
20.00000	41.00000	19.50000	0.11374	19.083	0.0	0.0	0.0	
21.00000	41.00000	19.50000	0.11696	19.083	0.0	0.0	0.0	
22.00000	41.00000	19.50000	0.12034	19.083	0.0	0.0	0.0	
23.00000	41.00000	19.50000	0.12383	19.083	0.0	0.0	0.0	
24.00000	41.00000	19.50000	0.12739	19.083	0.0	0.0	0.0	
25.00000	41.00000	19.50000	0.13099	19.083	0.0	0.0	0.0	
26.00000	41.00000	19.50000	0.13459	19.083	0.0	0.0	0.0	
27.00000	41.00000	19.50000	0.13817	19.083	0.0	0.0	0.0	
28.00000	41.00000	19.50000	0.14169	19.083	0.0	0.0	0.0	
29.00000	41.00000	19.50000	0.14513	19.083	0.0	0.0	0.0	
30.00000	41.00000	19.50000	0.14846	19.083	0.0	0.0	0.0	
31.00000	41.00000	19.50000	0.15166	19.083	0.0	0.0	0.0	
32.00000	41.00000	19.50000	0.15469	19.083	0.0	0.0	0.0	
33.00000	41.00000	19.50000	0.15751	19.083	0.0	0.0	0.0	
34.00000	41.00000	19.50000	0.16009	19.083	0.0	0.0	0.0	
35.00000	41.00000	19.50000	0.16238	19.083	0.0	0.0	0.0	
36.00000	41.00000	19.50000	0.16436	19.083	0.0	0.0	0.0	
37.00000	41.00000	19.50000	0.16598	19.083	0.0	0.0	0.0	
38.00000	41.00000	19.50000	0.16721	19.083	0.0	0.0	0.0	
39.00000	41.00000	19.50000	0.16805	19.083	0.0	0.0	0.0	
40.00000	41.00000	19.50000	0.16846	19.083	0.0	0.0	0.0	
41.00000	41.00000	19.50000	0.16846	19.083	0.0	0.0	0.0	
42.00000	41.00000	19.50000	0.16805	19.083	0.0	0.0	0.0	
43.00000	41.00000	19.50000	0.16723	19.083	0.0	0.0	0.0	
44.00000	41.00000	19.50000	0.16602	19.083	0.0	0.0	0.0	
45.00000	41.00000	19.50000	0.16446	19.083	0.0	0.0	0.0	
46.00000	41.00000	19.50000	0.16256	19.083	0.0	0.0	0.0	
47.00000	41.00000	19.50000	0.16037	19.083	0.0	0.0	0.0	
48.00000	41.00000	19.50000	0.15791	19.083	0.0	0.0	0.0	
49.00000	41.00000	19.50000	0.15521	19.083	0.0	0.0	0.0	
50.00000	41.00000	19.50000	0.15231	19.083	0.0	0.0	0.0	
51.00000	41.00000	19.50000	0.14925	19.083	0.0	0.0	0.0	
52.00000	41.00000	19.50000	0.14604	19.083	0.0	0.0	0.0	
53.00000	41.00000	19.50000	0.14273	19.083	0.0	0.0	0.0	
54.00000	41.00000	19.50000	0.13932	19.083	0.0	0.0	0.0	
55.00000	41.00000	19.50000	0.13586	19.083	0.0	0.0	0.0	
-25.00000	42.00000	19.50000	0.13591	19.083	0.0	0.0	0.0	
-24.00000	42.00000	19.50000	0.13952	19.083	0.0	0.0	0.0	
-23.00000	42.00000	19.50000	0.14310	19.083	0.0	0.0	0.0	
-22.00000	42.00000	19.50000	0.14663	19.083	0.0	0.0	0.0	
-21.00000	42.00000	19.50000	0.15007	19.083	0.0	0.0	0.0	
-20.00000	42.00000	19.50000	0.15341	19.083	0.0	0.0	0.0	
-19.00000	42.00000	19.50000	0.15661	19.083	0.0	0.0	0.0	
-18.00000	42.00000	19.50000	0.15964	19.083	0.0	0.0	0.0	
-17.00000	42.00000	19.50000	0.16247	19.083	0.0	0.0	0.0	
-16.00000	42.00000	19.50000	0.16507	19.083	0.0	0.0	0.0	
-15.00000	42.00000	19.50000	0.16739	19.083	0.0	0.0	0.0	
-14.00000	42.00000	19.50000	0.16940	19.083	0.0	0.0	0.0	
-13.00000	42.00000	19.50000	0.17106	19.083	0.0	0.0	0.0	
-12.00000	42.00000	19.50000	0.17234	19.083	0.0	0.0	0.0	
-11.00000	42.00000	19.50000	0.17320	19.083	0.0	0.0	0.0	
-10.00000	42.00000	19.50000	0.17361	19.083	0.0	0.0	0.0	
-9.00000	42.00000	19.50000	0.17357	19.083	0.0	0.0	0.0	
-8.00000	42.00000	19.50000	0.17304	19.083	0.0	0.0	0.0	
-7.00000	42.00000	19.50000	0.17203	19.083	0.0	0.0	0.0	
-6.00000	42.00000	19.50000	0.17055	19.083	0.0	0.0	0.0	
-5.00000	42.00000	19.50000	0.16861	19.083	0.0	0.0	0.0	
-4.00000	42.00000	19.50000	0.16625	19.083	0.0	0.0	0.0	
-3.00000	42.00000	19.50000	0.16352	19.083	0.0	0.0	0.0	
-2.00000	42.00000	19.50000	0.16048	19.083	0.0	0.0	0.0	
-1.00000	42.00000	19.50000	0.15719	19.083	0.0	0.0	0.0	
0.00000	42.00000	19.50000	0.15375	19.083	0.0	0.0	0.0	
1.00000	42.00000	19.50000	0.15022	19.083	0.0	0.0	0.0	
2.00000	42.00000	19.50000	0.14670	19.083	0.0	0.0	0.0	
3.00000	42.00000	19.50000	0.14327	19.083	0.0	0.0	0.0	
4.00000	42.00000	19.50000	0.14002	19.083	0.0	0.0	0.0	
5.00000	42.00000	19.50000	0.13700	19.083	0.0	0.0	0.0	
6.00000	42.00000	19.50000	0.13428	19.083	0.0	0.0	0.0	
7.00000	42.00000	19.50000	0.13191	19.083	0.0	0.0	0.0	
8.00000	42.00000	19.50000	0.12993	19.083	0.0	0.0	0.0	
9.00000	42.00000	19.50000	0.12836	19.083	0.0	0.0	0.0	
10.00000	42.00000	19.50000	0.12722	19.083	0.0	0.0	0.0	
11.00000	42.00000	19.50000	0.12651	19.083	0.0	0.0	0.0	
12.00000	42.00000	19.50000	0.12622	19.083	0.0	0.0	0.0	
13.00000	42.00000	19.50000	0.12635	19.083	0.0	0.0	0.0	
14.00000	42.00000	19.50000	0.12687	19.083	0.0	0.0	0.0	
15.00000	42.00000	19.50000	0.12776	19.083	0.0	0.0	0.0	
16.00000	42.00000	19.50000	0.12898	19.083	0.0	0.0	0.0	
17.00000	42.00000	19.50000	0.13050	19.083	0.0	0.0	0.0	
18.00000	42.00000	19.50000	0.13228	19.083	0.0	0.0	0.0	
19.00000	42.00000	19.50000	0.13428	19.083	0.0	0.0	0.0	
20.00000	42.00000	19.50000	0.13645	19.083	0.0	0.0	0.0	
21.00000	42.00000	19.50000	0.13877	19.083	0.0	0.0	0.0	
22.00000	42.00000	19.50000	0.14118	19.083	0.0	0.0	0.0	
23.00000	42.00000	19.50000	0.14365	19.083	0.0	0.0	0.0	
24.00000	42.00000	19.50000	0.14615	19.083	0.0	0.0	0.0	
25.00000	42.00000	19.50000	0.14865	19.083	0.0	0.0	0.0	
26.00000	42.00000	19.50000	0.15112	19.083	0.0	0.0	0.0	
27.00000	42.00000	19.50000	0.15354	19.083	0.0	0.0	0.0	
28.00000	42.00000	19.50000	0.15589	19.083	0.0	0.0	0.0	
29.00000	42.00000	19.50000	0.15815	19.083	0.0	0.0	0.0	
30.00000	42.00000	19.50000	0.16029	19.083	0.0	0.0	0.0	
31.00000	42.00000	19.50000	0.16229	19.083	0.0	0.0	0.0	
32.00000	42.00000	19.50000	0.16413	19.083	0.0	0.0	0.0	
33.00000	42.00000	19.50000	0.1					



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Dr. Ref.		
Made by	Date	Checked
MP		

Name	Location		Z [Level] [m]	Z [mm]	Calc Level [mOD]	Stresses		
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
44.00000	42.00000	19.50000	0.16505	19.083	0.0	0.0	0.0	
45.00000	42.00000	19.50000	0.16310	19.083	0.0	0.0	0.0	
46.00000	42.00000	19.50000	0.16089	19.083	0.0	0.0	0.0	
47.00000	42.00000	19.50000	0.15843	19.083	0.0	0.0	0.0	
48.00000	42.00000	19.50000	0.15577	19.083	0.0	0.0	0.0	
49.00000	42.00000	19.50000	0.15292	19.083	0.0	0.0	0.0	
50.00000	42.00000	19.50000	0.14991	19.083	0.0	0.0	0.0	
51.00000	42.00000	19.50000	0.14677	19.083	0.0	0.0	0.0	
52.00000	42.00000	19.50000	0.14352	19.083	0.0	0.0	0.0	
53.00000	42.00000	19.50000	0.14018	19.083	0.0	0.0	0.0	
54.00000	42.00000	19.50000	0.13679	19.083	0.0	0.0	0.0	
55.00000	42.00000	19.50000	0.13335	19.083	0.0	0.0	0.0	
-25.00000	43.00000	19.50000	0.13316	19.083	0.0	0.0	0.0	
-24.00000	43.00000	19.50000	0.13672	19.083	0.0	0.0	0.0	
-23.00000	43.00000	19.50000	0.14025	19.083	0.0	0.0	0.0	
-22.00000	43.00000	19.50000	0.14375	19.083	0.0	0.0	0.0	
-21.00000	43.00000	19.50000	0.14718	19.083	0.0	0.0	0.0	
-20.00000	43.00000	19.50000	0.15053	19.083	0.0	0.0	0.0	
-19.00000	43.00000	19.50000	0.15377	19.083	0.0	0.0	0.0	
-18.00000	43.00000	19.50000	0.15688	19.083	0.0	0.0	0.0	
-17.00000	43.00000	19.50000	0.15983	19.083	0.0	0.0	0.0	
-16.00000	43.00000	19.50000	0.16258	19.083	0.0	0.0	0.0	
-15.00000	43.00000	19.50000	0.16512	19.083	0.0	0.0	0.0	
-14.00000	43.00000	19.50000	0.16740	19.083	0.0	0.0	0.0	
-13.00000	43.00000	19.50000	0.16940	19.083	0.0	0.0	0.0	
-12.00000	43.00000	19.50000	0.17108	19.083	0.0	0.0	0.0	
-11.00000	43.00000	19.50000	0.17243	19.083	0.0	0.0	0.0	
-10.00000	43.00000	19.50000	0.17343	19.083	0.0	0.0	0.0	
-9.00000	43.00000	19.50000	0.17405	19.083	0.0	0.0	0.0	
-8.00000	43.00000	19.50000	0.17428	19.083	0.0	0.0	0.0	
-7.00000	43.00000	19.50000	0.17413	19.083	0.0	0.0	0.0	
-6.00000	43.00000	19.50000	0.17359	19.083	0.0	0.0	0.0	
-5.00000	43.00000	19.50000	0.17269	19.083	0.0	0.0	0.0	
-4.00000	43.00000	19.50000	0.17145	19.083	0.0	0.0	0.0	
-3.00000	43.00000	19.50000	0.16980	19.083	0.0	0.0	0.0	
-2.00000	43.00000	19.50000	0.16809	19.083	0.0	0.0	0.0	
-1.00000	43.00000	19.50000	0.16607	19.083	0.0	0.0	0.0	
0.00000	43.00000	19.50000	0.16391	19.083	0.0	0.0	0.0	
1.00000	43.00000	19.50000	0.16165	19.083	0.0	0.0	0.0	
2.00000	43.00000	19.50000	0.15937	19.083	0.0	0.0	0.0	
3.00000	43.00000	19.50000	0.15713	19.083	0.0	0.0	0.0	
4.00000	43.00000	19.50000	0.15499	19.083	0.0	0.0	0.0	
5.00000	43.00000	19.50000	0.15300	19.083	0.0	0.0	0.0	
6.00000	43.00000	19.50000	0.15120	19.083	0.0	0.0	0.0	
7.00000	43.00000	19.50000	0.14964	19.083	0.0	0.0	0.0	
8.00000	43.00000	19.50000	0.14833	19.083	0.0	0.0	0.0	
9.00000	43.00000	19.50000	0.14732	19.083	0.0	0.0	0.0	
10.00000	43.00000	19.50000	0.14659	19.083	0.0	0.0	0.0	
11.00000	43.00000	19.50000	0.14617	19.083	0.0	0.0	0.0	
12.00000	43.00000	19.50000	0.14604	19.083	0.0	0.0	0.0	
13.00000	43.00000	19.50000	0.14620	19.083	0.0	0.0	0.0	
14.00000	43.00000	19.50000	0.14663	19.083	0.0	0.0	0.0	
15.00000	43.00000	19.50000	0.14731	19.083	0.0	0.0	0.0	
16.00000	43.00000	19.50000	0.14822	19.083	0.0	0.0	0.0	
17.00000	43.00000	19.50000	0.14933	19.083	0.0	0.0	0.0	
18.00000	43.00000	19.50000	0.15060	19.083	0.0	0.0	0.0	
19.00000	43.00000	19.50000	0.15202	19.083	0.0	0.0	0.0	
20.00000	43.00000	19.50000	0.15354	19.083	0.0	0.0	0.0	
21.00000	43.00000	19.50000	0.15514	19.083	0.0	0.0	0.0	
22.00000	43.00000	19.50000	0.15679	19.083	0.0	0.0	0.0	
23.00000	43.00000	19.50000	0.15845	19.083	0.0	0.0	0.0	
24.00000	43.00000	19.50000	0.16011	19.083	0.0	0.0	0.0	
25.00000	43.00000	19.50000	0.16174	19.083	0.0	0.0	0.0	
26.00000	43.00000	19.50000	0.16332	19.083	0.0	0.0	0.0	
27.00000	43.00000	19.50000	0.16483	19.083	0.0	0.0	0.0	
28.00000	43.00000	19.50000	0.16625	19.083	0.0	0.0	0.0	
29.00000	43.00000	19.50000	0.16757	19.083	0.0	0.0	0.0	
30.00000	43.00000	19.50000	0.16876	19.083	0.0	0.0	0.0	
31.00000	43.00000	19.50000	0.16982	19.083	0.0	0.0	0.0	
32.00000	43.00000	19.50000	0.17072	19.083	0.0	0.0	0.0	
33.00000	43.00000	19.50000	0.17144	19.083	0.0	0.0	0.0	
34.00000	43.00000	19.50000	0.17197	19.083	0.0	0.0	0.0	
35.00000	43.00000	19.50000	0.17228	19.083	0.0	0.0	0.0	
36.00000	43.00000	19.50000	0.17236	19.083	0.0	0.0	0.0	
37.00000	43.00000	19.50000	0.17219	19.083	0.0	0.0	0.0	
38.00000	43.00000	19.50000	0.17176	19.083	0.0	0.0	0.0	
39.00000	43.00000	19.50000	0.17106	19.083	0.0	0.0	0.0	
40.00000	43.00000	19.50000	0.17008	19.083	0.0	0.0	0.0	
41.00000	43.00000	19.50000	0.16884	19.083	0.0	0.0	0.0	
42.00000	43.00000	19.50000	0.16733	19.083	0.0	0.0	0.0	
43.00000	43.00000	19.50000	0.16556	19.083	0.0	0.0	0.0	
44.00000	43.00000	19.50000	0.16354	19.083	0.0	0.0	0.0	
45.00000	43.00000	19.50000	0.16130	19.083	0.0	0.0	0.0	
46.00000	43.00000	19.50000	0.15884	19.083	0.0	0.0	0.0	
47.00000	43.00000	19.50000	0.15619	19.083	0.0	0.0	0.0	
48.00000	43.00000	19.50000	0.15338	19.083	0.0	0.0	0.0	
49.00000	43.00000	19.50000	0.15042	19.083	0.0	0.0	0.0	
50.00000	43.00000	19.50000	0.14733	19.083	0.0	0.0	0.0	
51.00000	43.00000	19.50000	0.14415	19.083	0.0	0.0	0.0	
52.00000	43.00000	19.50000	0.14088	19.083	0.0	0.0	0.0	
53.00000	43.00000	19.50000	0.13755	19.083	0.0	0.0	0.0	
54.00000	43.00000	19.50000	0.13417	19.083	0.0	0.0	0.0	
55.00000	43.00000	19.50000	0.13077	19.083	0.0	0.0	0.0	
-25.00000	44.00000	19.50000	0.13038	19.083	0.0	0.0	0.0	
-24.00000	44.00000	19.50000	0.13197	19.083	0.0	0.0	0.0	
-23.00000	44.00000	19.50000	0.13375	19.083	0.0	0.0	0.0	
-22.00000	44.00000	19.50000	0.14080	19.083	0.0	0.0	0.0	
-21.00000	44.00000	19.50000	0.14420	19.083	0.0	0.0	0.0	
-20.00000	44.00000	19.50000	0.14755	19.083	0.0	0.0	0.0	
-19.00000	44.00000	19.50000	0.15081	19.083	0.0	0.0	0.0	
-18.00000	44.00000	19.50000	0.15396	19.083	0.0	0.0	0.0	
-17.00000	44.00000	19.50000	0.15698	19.083	0.0	0.0	0.0	
-16.00000	44.00000	19.50000	0.15985	19.083	0.0	0.0	0.0	
-15.00000	44.00000	19.50000	0.16254	19.083	0.0	0.0	0.0	
-14.00000	44.00000	19.50000	0.16503	19.083	0.0	0.0	0.0	
-13.00000	44.00000	19.50000	0.16728	19.083	0.0	0.0	0.0	
-12.00000	44.00000	19.50000	0.16929	19.083	0.0	0.0	0.0	
-11.00000	44.00000	19.50000	0.17102	19.083	0.0	0.0	0.0	
-10.00000	44.00000	19.50000	0.17247	19.083	0.0	0.0	0.0	
-9.00000	44.00000	19.50000	0.17361	19.083	0.0	0.0	0.0	
-8.00000	44.00000	19.50000	0.17444	19.083	0.0	0.0	0.0	
-7.00000	44.00000	19.50000	0.17495	19.083	0.0	0.0	0.0	
-6.00000	44.00000	19.50000	0.17516	19.083	0.0	0.0	0.0	
-5.00000	44.00000	19.50000	0.17506	19.083	0.0	0.0	0.0	
-4.00000	44.00000	19.50000	0.17468	19.083	0.0	0.0	0.0	
-3.00000	44.00000	19.50000	0.17405	19.083	0.0	0.0	0.0	
-2.00000	44.00000	19.50000	0.17320	19.083	0.0	0.0	0.0	
-1.00000	44.00000	19.50000	0.17217	19.083	0.0	0.0	0.0	
0.00000	44.00000	19.50000	0.17099	19.083	0.0	0.0	0.0	
1.00000	44.00000	19.50000	0.16972	19.083	0.0	0.0	0.0	
2.00000	44.00000	19.50000	0.16841	19.083	0.0	0.0	0.0	
3.00000	44.00000	19.50000	0.16709	19.083	0.0	0.0	0.0	
4.00000	44.00000	19.50000	0.16581	19.083	0.0	0.0	0.0	
5.00000	44.00000	19.50000	0.16462	19.083	0.0	0.0	0.0	
6.00000	44.00000	19.50000	0.16354	19.083	0.0	0.0	0.0	
7.00000	44.00000	19.50000	0.16261	19.083	0.0	0.0	0.0	
8.00000	44.00000	19.50000	0.16184	19.083	0.0	0.0	0.0	
9.00000	44.00000	19.50000	0.16126	19.083	0.0	0.0	0.0	
10.00000	44.00000	19.50000	0.16087	19.083	0.0	0.0	0.0	
11.00000	44.00000	19.50000	0.16068	19.083	0.0	0.0	0.0	
12.00000	44.00000	19.50000	0.16					



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Dr. Ref.		
Made by	Date	Checked
MP		

Name	Location		Z [Level] [m]	Z [mm]	Calc Level [mOD]	Stresses		
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
23.00000	44.00000	19.50000	0.16918	19.083	0.0	0.0	0.0	
24.00000	44.00000	19.50000	0.17018	19.083	0.0	0.0	0.0	
25.00000	44.00000	19.50000	0.17112	19.083	0.0	0.0	0.0	
26.00000	44.00000	19.50000	0.17199	19.083	0.0	0.0	0.0	
27.00000	44.00000	19.50000	0.17278	19.083	0.0	0.0	0.0	
28.00000	44.00000	19.50000	0.17347	19.083	0.0	0.0	0.0	
29.00000	44.00000	19.50000	0.17405	19.083	0.0	0.0	0.0	
30.00000	44.00000	19.50000	0.17451	19.083	0.0	0.0	0.0	
31.00000	44.00000	19.50000	0.17482	19.083	0.0	0.0	0.0	
32.00000	44.00000	19.50000	0.17499	19.083	0.0	0.0	0.0	
33.00000	44.00000	19.50000	0.17509	19.083	0.0	0.0	0.0	
34.00000	44.00000	19.50000	0.17482	19.083	0.0	0.0	0.0	
35.00000	44.00000	19.50000	0.17446	19.083	0.0	0.0	0.0	
36.00000	44.00000	19.50000	0.17390	19.083	0.0	0.0	0.0	
37.00000	44.00000	19.50000	0.17313	19.083	0.0	0.0	0.0	
38.00000	44.00000	19.50000	0.17233	19.083	0.0	0.0	0.0	
39.00000	44.00000	19.50000	0.17092	19.083	0.0	0.0	0.0	
40.00000	44.00000	19.50000	0.16948	19.083	0.0	0.0	0.0	
41.00000	44.00000	19.50000	0.16782	19.083	0.0	0.0	0.0	
42.00000	44.00000	19.50000	0.16594	19.083	0.0	0.0	0.0	
43.00000	44.00000	19.50000	0.16386	19.083	0.0	0.0	0.0	
44.00000	44.00000	19.50000	0.16158	19.083	0.0	0.0	0.0	
45.00000	44.00000	19.50000	0.15911	19.083	0.0	0.0	0.0	
46.00000	44.00000	19.50000	0.15648	19.083	0.0	0.0	0.0	
47.00000	44.00000	19.50000	0.15369	19.083	0.0	0.0	0.0	
48.00000	44.00000	19.50000	0.15077	19.083	0.0	0.0	0.0	
49.00000	44.00000	19.50000	0.14774	19.083	0.0	0.0	0.0	
50.00000	44.00000	19.50000	0.14461	19.083	0.0	0.0	0.0	
51.00000	44.00000	19.50000	0.14141	19.083	0.0	0.0	0.0	
52.00000	44.00000	19.50000	0.13814	19.083	0.0	0.0	0.0	
53.00000	44.00000	19.50000	0.13483	19.083	0.0	0.0	0.0	
54.00000	44.00000	19.50000	0.13149	19.083	0.0	0.0	0.0	
55.00000	44.00000	19.50000	0.12814	19.083	0.0	0.0	0.0	
-25.00000	45.00000	19.50000	0.12757	19.083	0.0	0.0	0.0	
-24.00000	45.00000	19.50000	0.13098	19.083	0.0	0.0	0.0	
-23.00000	45.00000	19.50000	0.13439	19.083	0.0	0.0	0.0	
-22.00000	45.00000	19.50000	0.13779	19.083	0.0	0.0	0.0	
-21.00000	45.00000	19.50000	0.14116	19.083	0.0	0.0	0.0	
-20.00000	45.00000	19.50000	0.14447	19.083	0.0	0.0	0.0	
-19.00000	45.00000	19.50000	0.14773	19.083	0.0	0.0	0.0	
-18.00000	45.00000	19.50000	0.15090	19.083	0.0	0.0	0.0	
-17.00000	45.00000	19.50000	0.15397	19.083	0.0	0.0	0.0	
-16.00000	45.00000	19.50000	0.15691	19.083	0.0	0.0	0.0	
-15.00000	45.00000	19.50000	0.15971	19.083	0.0	0.0	0.0	
-14.00000	45.00000	19.50000	0.16234	19.083	0.0	0.0	0.0	
-13.00000	45.00000	19.50000	0.16479	19.083	0.0	0.0	0.0	
-12.00000	45.00000	19.50000	0.16704	19.083	0.0	0.0	0.0	
-11.00000	45.00000	19.50000	0.16906	19.083	0.0	0.0	0.0	
-10.00000	45.00000	19.50000	0.17085	19.083	0.0	0.0	0.0	
-9.00000	45.00000	19.50000	0.17239	19.083	0.0	0.0	0.0	
-8.00000	45.00000	19.50000	0.17368	19.083	0.0	0.0	0.0	
-7.00000	45.00000	19.50000	0.17471	19.083	0.0	0.0	0.0	
-6.00000	45.00000	19.50000	0.17548	19.083	0.0	0.0	0.0	
-5.00000	45.00000	19.50000	0.17601	19.083	0.0	0.0	0.0	
-4.00000	45.00000	19.50000	0.17630	19.083	0.0	0.0	0.0	
-3.00000	45.00000	19.50000	0.17638	19.083	0.0	0.0	0.0	
-2.00000	45.00000	19.50000	0.17627	19.083	0.0	0.0	0.0	
-1.00000	45.00000	19.50000	0.17599	19.083	0.0	0.0	0.0	
0.00000	45.00000	19.50000	0.17558	19.083	0.0	0.0	0.0	
1.00000	45.00000	19.50000	0.17507	19.083	0.0	0.0	0.0	
2.00000	45.00000	19.50000	0.17450	19.083	0.0	0.0	0.0	
3.00000	45.00000	19.50000	0.17389	19.083	0.0	0.0	0.0	
4.00000	45.00000	19.50000	0.17329	19.083	0.0	0.0	0.0	
5.00000	45.00000	19.50000	0.17271	19.083	0.0	0.0	0.0	
6.00000	45.00000	19.50000	0.17219	19.083	0.0	0.0	0.0	
7.00000	45.00000	19.50000	0.17175	19.083	0.0	0.0	0.0	
8.00000	45.00000	19.50000	0.17141	19.083	0.0	0.0	0.0	
9.00000	45.00000	19.50000	0.17116	19.083	0.0	0.0	0.0	
10.00000	45.00000	19.50000	0.17104	19.083	0.0	0.0	0.0	
11.00000	45.00000	19.50000	0.17103	19.083	0.0	0.0	0.0	
12.00000	45.00000	19.50000	0.17113	19.083	0.0	0.0	0.0	
13.00000	45.00000	19.50000	0.17135	19.083	0.0	0.0	0.0	
14.00000	45.00000	19.50000	0.17166	19.083	0.0	0.0	0.0	
15.00000	45.00000	19.50000	0.17207	19.083	0.0	0.0	0.0	
16.00000	45.00000	19.50000	0.17255	19.083	0.0	0.0	0.0	
17.00000	45.00000	19.50000	0.17309	19.083	0.0	0.0	0.0	
18.00000	45.00000	19.50000	0.17367	19.083	0.0	0.0	0.0	
19.00000	45.00000	19.50000	0.17428	19.083	0.0	0.0	0.0	
20.00000	45.00000	19.50000	0.17489	19.083	0.0	0.0	0.0	
21.00000	45.00000	19.50000	0.17550	19.083	0.0	0.0	0.0	
22.00000	45.00000	19.50000	0.17607	19.083	0.0	0.0	0.0	
23.00000	45.00000	19.50000	0.17661	19.083	0.0	0.0	0.0	
24.00000	45.00000	19.50000	0.17708	19.083	0.0	0.0	0.0	
25.00000	45.00000	19.50000	0.17748	19.083	0.0	0.0	0.0	
26.00000	45.00000	19.50000	0.17780	19.083	0.0	0.0	0.0	
27.00000	45.00000	19.50000	0.17803	19.083	0.0	0.0	0.0	
28.00000	45.00000	19.50000	0.17815	19.083	0.0	0.0	0.0	
29.00000	45.00000	19.50000	0.17815	19.083	0.0	0.0	0.0	
30.00000	45.00000	19.50000	0.17803	19.083	0.0	0.0	0.0	
31.00000	45.00000	19.50000	0.17777	19.083	0.0	0.0	0.0	
32.00000	45.00000	19.50000	0.17738	19.083	0.0	0.0	0.0	
33.00000	45.00000	19.50000	0.17683	19.083	0.0	0.0	0.0	
34.00000	45.00000	19.50000	0.17612	19.083	0.0	0.0	0.0	
35.00000	45.00000	19.50000	0.17524	19.083	0.0	0.0	0.0	
36.00000	45.00000	19.50000	0.17419	19.083	0.0	0.0	0.0	
37.00000	45.00000	19.50000	0.17295	19.083	0.0	0.0	0.0	
38.00000	45.00000	19.50000	0.17154	19.083	0.0	0.0	0.0	
39.00000	45.00000	19.50000	0.16993	19.083	0.0	0.0	0.0	
40.00000	45.00000	19.50000	0.16814	19.083	0.0	0.0	0.0	
41.00000	45.00000	19.50000	0.16617	19.083	0.0	0.0	0.0	
42.00000	45.00000	19.50000	0.16402	19.083	0.0	0.0	0.0	
43.00000	45.00000	19.50000	0.16170	19.083	0.0	0.0	0.0	
44.00000	45.00000	19.50000	0.15922	19.083	0.0	0.0	0.0	
45.00000	45.00000	19.50000	0.15660	19.083	0.0	0.0	0.0	
46.00000	45.00000	19.50000	0.15384	19.083	0.0	0.0	0.0	
47.00000	45.00000	19.50000	0.15097	19.083	0.0	0.0	0.0	
48.00000	45.00000	19.50000	0.14799	19.083	0.0	0.0	0.0	
49.00000	45.00000	19.50000	0.14492	19.083	0.0	0.0	0.0	
50.00000	45.00000	19.50000	0.14177	19.083	0.0	0.0	0.0	
51.00000	45.00000	19.50000	0.13857	19.083	0.0	0.0	0.0	
52.00000	45.00000	19.50000	0.13533	19.083	0.0	0.0	0.0	
53.00000	45.00000	19.50000	0.13205	19.083	0.0	0.0	0.0	
54.00000	45.00000	19.50000	0.12876	19.083	0.0	0.0	0.0	
55.00000	45.00000	19.50000	0.12547	19.083	0.0	0.0	0.0	
Grid 2	-25.00000	-20.00000	15.50000	0.12474	15.130	-5.5468E-6	-0.068048	
	-24.00000	-20.00000	15.50000	0.12807	15.130	-6.0456E-6	-0.071440	
	-23.00000	-20.00000	15.50000	0.13141	15.130	-6.5935E-6	-0.075023	
	-22.00000	-20.00000	15.50000	0.13474	15.130	-7.1955E-6	-0.078807	
	-21.00000	-20.00000	15.50000	0.13805	15.130	-7.8568E-6	-0.082799	
	-20.00000	-20.00000	15.50000	0.14133	15.130	-8.5829E-6	-0.087011	
	-19.00000	-20.00000	15.50000	0.14456	15.130	-9.3799E-6	-0.091450	
	-18.00000	-20.00000	15.50000	0.14772	15.130	-10.254E-6	-0.096124	
	-17.00000	-20.00000	15.50000	0.15081	15.130	-11.211E-6	-0.101004	
	-16.00000	-20.00000	15.50000	0.15379	15.130	-12.259E-6	-0.10621	
	-15.00000	-20.00000	15.50000	0.15666	15.130	-13.403E-6	-0.11163	
	-14.00000	-20.00000	15.50000	0.15940	15.130	-14.649E-6	-0.11730	
	-13.00000	-20.00000	15.50000	0.16198	15.130	-16.004E-6	-0.12323	
	-12.00000	-20.00000	15.50000	0.16440	15.130	-17.473E-6	-0.12942	
	-11.00000	-20.00000	15.50000	0.16664	15.130	-19.059E-6	-0.13585	
	-10.00000							

Job No.	Sheet No.	Rev.
J15249		
Dr. Ref.		
Made by	Date	Checked
MP		

Name	Location		Z [Level] [mm]	Z [mm]	Calc Level [mOD]	Stresses		Vert Strain [-]
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	
2.00000	-20.00000	15.50000	0.17821	15.130	-47.659E-6	-0.23014	0.0	
3.00000	-20.00000	15.50000	0.17815	15.130	-49.852E-6	-0.23664	0.0	
4.00000	-20.00000	15.50000	0.17806	15.130	-51.915E-6	-0.24276	0.0	
5.00000	-20.00000	15.50000	0.17797	15.130	-53.825E-6	-0.24842	0.0	
6.00000	-20.00000	15.50000	0.17788	15.130	-55.560E-6	-0.25360	0.0	
7.00000	-20.00000	15.50000	0.17782	15.130	-57.102E-6	-0.25825	0.0	
8.00000	-20.00000	15.50000	0.17780	15.130	-58.438E-6	-0.26233	0.0	
9.00000	-20.00000	15.50000	0.17782	15.130	-59.555E-6	-0.26580	0.0	
10.00000	-20.00000	15.50000	0.17790	15.130	-60.448E-6	-0.26866	0.0	
11.00000	-20.00000	15.50000	0.17803	15.130	-61.112E-6	-0.27088	0.0	
12.00000	-20.00000	15.50000	0.17825	15.130	-61.546E-6	-0.27245	0.0	
13.00000	-20.00000	15.50000	0.17845	15.130	-61.753E-6	-0.27337	0.0	
14.00000	-20.00000	15.50000	0.17873	15.130	-61.736E-6	-0.27364	0.0	
15.00000	-20.00000	15.50000	0.17905	15.130	-61.502E-6	-0.27327	0.0	
16.00000	-20.00000	15.50000	0.17938	15.130	-61.060E-6	-0.27228	0.0	
17.00000	-20.00000	15.50000	0.17973	15.130	-60.421E-6	-0.27057	0.0	
18.00000	-20.00000	15.50000	0.18008	15.130	-59.595E-6	-0.26848	0.0	
19.00000	-20.00000	15.50000	0.18042	15.130	-58.596E-6	-0.26574	0.0	
20.00000	-20.00000	15.50000	0.18072	15.130	-57.437E-6	-0.26246	0.0	
21.00000	-20.00000	15.50000	0.18099	15.130	-56.132E-6	-0.25868	0.0	
22.00000	-20.00000	15.50000	0.18127	15.130	-54.692E-6	-0.25443	0.0	
23.00000	-20.00000	15.50000	0.18135	15.130	-53.139E-6	-0.24975	0.0	
24.00000	-20.00000	15.50000	0.18142	15.130	-51.478E-6	-0.24468	0.0	
25.00000	-20.00000	15.50000	0.18141	15.130	-49.724E-6	-0.23924	0.0	
26.00000	-20.00000	15.50000	0.18130	15.130	-47.890E-6	-0.23348	0.0	
27.00000	-20.00000	15.50000	0.18108	15.130	-45.988E-6	-0.22743	0.0	
28.00000	-20.00000	15.50000	0.18076	15.130	-44.028E-6	-0.22114	0.0	
29.00000	-20.00000	15.50000	0.18032	15.130	-42.024E-6	-0.21463	0.0	
30.00000	-20.00000	15.50000	0.17975	15.130	-39.986E-6	-0.20795	0.0	
31.00000	-20.00000	15.50000	0.17906	15.130	-37.928E-6	-0.20113	0.0	
32.00000	-20.00000	15.50000	0.17823	15.130	-35.862E-6	-0.19421	0.0	
33.00000	-20.00000	15.50000	0.17726	15.130	-33.801E-6	-0.18723	0.0	
34.00000	-20.00000	15.50000	0.17614	15.130	-31.759E-6	-0.18023	0.0	
35.00000	-20.00000	15.50000	0.17487	15.130	-29.749E-6	-0.17324	0.0	
36.00000	-20.00000	15.50000	0.17345	15.130	-27.784E-6	-0.16630	0.0	
37.00000	-20.00000	15.50000	0.17187	15.130	-25.876E-6	-0.15943	0.0	
38.00000	-20.00000	15.50000	0.17013	15.130	-24.035E-6	-0.15267	0.0	
39.00000	-20.00000	15.50000	0.16824	15.130	-22.270E-6	-0.14604	0.0	
40.00000	-20.00000	15.50000	0.16619	15.130	-20.590E-6	-0.13957	0.0	
41.00000	-20.00000	15.50000	0.16399	15.130	-18.998E-6	-0.13328	0.0	
42.00000	-20.00000	15.50000	0.16165	15.130	-17.499E-6	-0.12718	0.0	
43.00000	-20.00000	15.50000	0.15916	15.130	-16.095E-6	-0.12128	0.0	
44.00000	-20.00000	15.50000	0.15655	15.130	-14.785E-6	-0.11560	0.0	
45.00000	-20.00000	15.50000	0.15382	15.130	-13.568E-6	-0.11015	0.0	
46.00000	-20.00000	15.50000	0.15099	15.130	-12.441E-6	-0.10491	0.0	
47.00000	-20.00000	15.50000	0.14806	15.130	-11.401E-6	-0.09980E-6	0.0	
48.00000	-20.00000	15.50000	0.14505	15.130	-10.445E-6	-0.095125	0.0	
49.00000	-20.00000	15.50000	0.14197	15.130	-9.5668E-6	-0.090566	0.0	
50.00000	-20.00000	15.50000	0.13883	15.130	-8.7621E-6	-0.086225	0.0	
51.00000	-20.00000	15.50000	0.13565	15.130	-8.0259E-6	-0.082096	0.0	
52.00000	-20.00000	15.50000	0.13245	15.130	-7.3532E-6	-0.078174	0.0	
53.00000	-20.00000	15.50000	0.12922	15.130	-6.7391E-6	-0.074451	0.0	
54.00000	-20.00000	15.50000	0.12599	15.130	-6.1790E-6	-0.070918	0.0	
55.00000	-20.00000	15.50000	0.12276	15.130	-5.6683E-6	-0.067570	0.0	
-25.00000	-19.00000	15.50000	0.17257	15.130	-5.9702E-6	-0.12134	0.0	
-24.00000	-19.00000	15.50000	0.13098	15.130	-6.5249E-6	-0.074577	0.0	
-23.00000	-19.00000	15.50000	0.13439	15.130	-7.1367E-6	-0.078435	0.0	
-22.00000	-19.00000	15.50000	0.13779	15.130	-7.8118E-6	-0.082519	0.0	
-21.00000	-19.00000	15.50000	0.14116	15.130	-8.5567E-6	-0.086841	0.0	
-20.00000	-19.00000	15.50000	0.14447	15.130	-9.3785E-6	-0.091413	0.0	
-19.00000	-19.00000	15.50000	0.14773	15.130	-10.285E-6	-0.096246	0.0	
-18.00000	-19.00000	15.50000	0.15090	15.130	-11.284E-6	-0.10135	0.0	
-17.00000	-19.00000	15.50000	0.15397	15.130	-12.385E-6	-0.10674	0.0	
-16.00000	-19.00000	15.50000	0.15691	15.130	-13.595E-6	-0.11242	0.0	
-15.00000	-19.00000	15.50000	0.15971	15.130	-14.925E-6	-0.11840	0.0	
-14.00000	-19.00000	15.50000	0.16234	15.130	-16.383E-6	-0.12468	0.0	
-13.00000	-19.00000	15.50000	0.16479	15.130	-17.977E-6	-0.13127	0.0	
-12.00000	-19.00000	15.50000	0.16704	15.130	-19.716E-6	-0.13817	0.0	
-11.00000	-19.00000	15.50000	0.16906	15.130	-21.605E-6	-0.14537	0.0	
-10.00000	-19.00000	15.50000	0.17095	15.130	-23.650E-6	-0.15286	0.0	
-9.00000	-19.00000	15.50000	0.17239	15.130	-25.852E-6	-0.16063	0.0	
-8.00000	-19.00000	15.50000	0.17368	15.130	-28.211E-6	-0.16865	0.0	
-7.00000	-19.00000	15.50000	0.17471	15.130	-30.722E-6	-0.17690	0.0	
-6.00000	-19.00000	15.50000	0.17548	15.130	-33.376E-6	-0.18535	0.0	
-5.00000	-19.00000	15.50000	0.17601	15.130	-36.154E-6	-0.19395	0.0	
-4.00000	-19.00000	15.50000	0.17631	15.130	-39.049E-6	-0.20265	0.0	
-3.00000	-19.00000	15.50000	0.17638	15.130	-42.025E-6	-0.21139	0.0	
-2.00000	-19.00000	15.50000	0.17627	15.130	-45.056E-6	-0.22011	0.0	
-1.00000	-19.00000	15.50000	0.17599	15.130	-48.109E-6	-0.22875	0.0	
0.00000	-19.00000	15.50000	0.17558	15.130	-51.147E-6	-0.23722	0.0	
1.00000	-19.00000	15.50000	0.17507	15.130	-54.132E-6	-0.24546	0.0	
2.00000	-19.00000	15.50000	0.17450	15.130	-57.024E-6	-0.25339	0.0	
3.00000	-19.00000	15.50000	0.17389	15.130	-59.787E-6	-0.26094	0.0	
4.00000	-19.00000	15.50000	0.17329	15.130	-62.385E-6	-0.26804	0.0	
5.00000	-19.00000	15.50000	0.17271	15.130	-64.785E-6	-0.27462	0.0	
6.00000	-19.00000	15.50000	0.17219	15.130	-66.961E-6	-0.28063	0.0	
7.00000	-19.00000	15.50000	0.17175	15.130	-68.889E-6	-0.28601	0.0	
8.00000	-19.00000	15.50000	0.17141	15.130	-70.552E-6	-0.29073	0.0	
9.00000	-19.00000	15.50000	0.17116	15.130	-71.937E-6	-0.29474	0.0	
10.00000	-19.00000	15.50000	0.17104	15.130	-73.036E-6	-0.29802	0.0	
11.00000	-19.00000	15.50000	0.17103	15.130	-73.844E-6	-0.30056	0.0	
12.00000	-19.00000	15.50000	0.17113	15.130	-74.361E-6	-0.30234	0.0	
13.00000	-19.00000	15.50000	0.17135	15.130	-74.592E-6	-0.30336	0.0	
14.00000	-19.00000	15.50000	0.17166	15.130	-74.542E-6	-0.30362	0.0	
15.00000	-19.00000	15.50000	0.17207	15.130	-74.220E-6	-0.30315	0.0	
16.00000	-19.00000	15.50000	0.17255	15.130	-73.639E-6	-0.30194	0.0	
17.00000	-19.00000	15.50000	0.17300	15.130	-72.813E-6	-0.30003	0.0	
18.00000	-19.00000	15.50000	0.17367	15.130	-71.757E-6	-0.29745	0.0	
19.00000	-19.00000	15.50000	0.17428	15.130	-70.489E-6	-0.29423	0.0	
20.00000	-19.00000	15.50000	0.17489	15.130	-69.024E-6	-0.29039	0.0	
21.00000	-19.00000	15.50000	0.17550	15.130	-67.384E-6	-0.28599	0.0	
22.00000	-19.00000	15.50000	0.17607	15.130	-65.585E-6	-0.28106	0.0	
23.00000	-19.00000	15.50000	0.17661	15.130	-63.644E-6	-0.27564	0.0	
24.00000	-19.00000	15.50000	0.17708	15.130	-61.578E-6	-0.26977	0.0	
25.00000	-19.00000	15.50000	0.17748	15.130	-59.402E-6	-0.26349	0.0	
26.00000	-19.00000	15.50000	0.17780	15.130	-57.132E-6	-0.25685	0.0	
27.00000	-19.00000	15.50000	0.17803	15.130	-54.780E-6	-0.24990	0.0	
28.00000	-19.00000	15.50000	0.17815	15.130	-52.361E-6	-0.24266	0.0	
29.00000	-19.00000	15.50000	0.17815	15.130	-49.888E-6	-0.23519	0.0	
30.00000	-19.00000	15.50000	0.17803	15.130	-47.375E-6	-0.22753	0.0	
31.00000	-19.00000	15.50000	0.17777	15.130	-44.838E-6	-0.21973	0.0	
32.00000	-19.00000	15.50000	0.17738	15.130	-42.292E-6	-0.21182	0.0	
33.00000	-19.00000	15.50000	0.17683	15.130	-39.755E-6	-0.20385	0.0	
34.00000	-19.00000	15.50000	0.17612	15.130	-37.242E-6	-0.19587	0.0	
35.00000	-19.00000	15.50000	0.17524	15.130	-34.773E-6	-0.18791	0.0	
36.00000	-19.00000	15.50000	0.17419	15.130	-32.363E-6	-0.18002	0.0	
37.00000	-19.00000	15.50000	0.17295	15.130	-30.028E-6	-0.17223	0.0	
38.00000</								



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Dr. Ref.		
Made by	Date	Checked
MP		

Name	Location		Z [Level] [m]	Z [mm]	Calc Level [mOD]	Stresses		
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
-19.00000	-18.00000	15.50000	0.15081	15.130	-11.283E-6	-0.10131	0.0	
-18.00000	-18.00000	15.50000	0.15396	15.130	-12.426E-6	-0.10689	0.0	
-17.00000	-18.00000	15.50000	0.15698	15.130	-13.692E-6	-0.11280	0.0	
-16.00000	-18.00000	15.50000	0.15985	15.130	-15.094E-6	-0.11905	0.0	
-15.00000	-18.00000	15.50000	0.16254	15.130	-16.643E-6	-0.12565	0.0	
-14.00000	-18.00000	15.50000	0.16503	15.130	-18.359E-6	-0.13262	0.0	
-13.00000	-18.00000	15.50000	0.16728	15.130	-20.233E-6	-0.13995	0.0	
-12.00000	-18.00000	15.50000	0.16929	15.130	-22.299E-6	-0.14766	0.0	
-11.00000	-18.00000	15.50000	0.17102	15.130	-24.559E-6	-0.15573	0.0	
-10.00000	-18.00000	15.50000	0.17247	15.130	-27.022E-6	-0.16417	0.0	
-9.00000	-18.00000	15.50000	0.17468	15.130	-29.698E-6	-0.17296	0.0	
-8.00000	-18.00000	15.50000	0.17444	15.130	-32.575E-6	-0.18207	0.0	
-7.00000	-18.00000	15.50000	0.17495	15.130	-35.663E-6	-0.19148	0.0	
-6.00000	-18.00000	15.50000	0.17516	15.130	-38.946E-6	-0.20115	0.0	
-5.00000	-18.00000	15.50000	0.17506	15.130	-42.410E-6	-0.21103	0.0	
-4.00000	-18.00000	15.50000	0.17446	15.130	-46.029E-6	-0.22105	0.0	
-3.00000	-18.00000	15.50000	0.17405	15.130	-49.772E-6	-0.23116	0.0	
-2.00000	-18.00000	15.50000	0.17320	15.130	-53.600E-6	-0.24127	0.0	
-1.00000	-18.00000	15.50000	0.17217	15.130	-57.468E-6	-0.25131	0.0	
0.00000	-18.00000	15.50000	0.17099	15.130	-61.327E-6	-0.26117	0.0	
1.00000	-18.00000	15.50000	0.16972	15.130	-65.123E-6	-0.27078	0.0	
2.00000	-18.00000	15.50000	0.16841	15.130	-68.805E-6	-0.28004	0.0	
3.00000	-18.00000	15.50000	0.16709	15.130	-72.320E-6	-0.28885	0.0	
4.00000	-18.00000	15.50000	0.16581	15.130	-75.621E-6	-0.29714	0.0	
5.00000	-18.00000	15.50000	0.16462	15.130	-78.665E-6	-0.30482	0.0	
6.00000	-18.00000	15.50000	0.16354	15.130	-81.417E-6	-0.31192	0.0	
7.00000	-18.00000	15.50000	0.16261	15.130	-83.848E-6	-0.31809	0.0	
8.00000	-18.00000	15.50000	0.16184	15.130	-85.934E-6	-0.32356	0.0	
9.00000	-18.00000	15.50000	0.16126	15.130	-87.662E-6	-0.32821	0.0	
10.00000	-18.00000	15.50000	0.16087	15.130	-89.021E-6	-0.33220	0.0	
11.00000	-18.00000	15.50000	0.16068	15.130	-90.008E-6	-0.33549	0.0	
12.00000	-18.00000	15.50000	0.16068	15.130	-90.625E-6	-0.33692	0.0	
13.00000	-18.00000	15.50000	0.16087	15.130	-90.876E-6	-0.33805	0.0	
14.00000	-18.00000	15.50000	0.16123	15.130	-90.773E-6	-0.33829	0.0	
15.00000	-18.00000	15.50000	0.16175	15.130	-90.327E-6	-0.33767	0.0	
16.00000	-18.00000	15.50000	0.16242	15.130	-89.546E-6	-0.33620	0.0	
17.00000	-18.00000	15.50000	0.16321	15.130	-88.478E-6	-0.33392	0.0	
18.00000	-18.00000	15.50000	0.16409	15.130	-87.115E-6	-0.33085	0.0	
19.00000	-18.00000	15.50000	0.16505	15.130	-85.488E-6	-0.32705	0.0	
20.00000	-18.00000	15.50000	0.16607	15.130	-83.624E-6	-0.32255	0.0	
21.00000	-18.00000	15.50000	0.16711	15.130	-81.548E-6	-0.31740	0.0	
22.00000	-18.00000	15.50000	0.16815	15.130	-79.273E-6	-0.31164	0.0	
23.00000	-18.00000	15.50000	0.16918	15.130	-76.833E-6	-0.30533	0.0	
24.00000	-18.00000	15.50000	0.17018	15.130	-74.245E-6	-0.29852	0.0	
25.00000	-18.00000	15.50000	0.17112	15.130	-71.527E-6	-0.29123	0.0	
26.00000	-18.00000	15.50000	0.17199	15.130	-68.697E-6	-0.28357	0.0	
27.00000	-18.00000	15.50000	0.17278	15.130	-65.770E-6	-0.27553	0.0	
28.00000	-18.00000	15.50000	0.17347	15.130	-62.762E-6	-0.26719	0.0	
29.00000	-18.00000	15.50000	0.17405	15.130	-59.689E-6	-0.25858	0.0	
30.00000	-18.00000	15.50000	0.17451	15.130	-56.568E-6	-0.24977	0.0	
31.00000	-18.00000	15.50000	0.17482	15.130	-53.416E-6	-0.24080	0.0	
32.00000	-18.00000	15.50000	0.17499	15.130	-50.254E-6	-0.23172	0.0	
33.00000	-18.00000	15.50000	0.17500	15.130	-47.103E-6	-0.22258	0.0	
34.00000	-18.00000	15.50000	0.17482	15.130	-43.985E-6	-0.21344	0.0	
35.00000	-18.00000	15.50000	0.17446	15.130	-40.924E-6	-0.20430	0.0	
36.00000	-18.00000	15.50000	0.17390	15.130	-37.942E-6	-0.19534	0.0	
37.00000	-18.00000	15.50000	0.17313	15.130	-35.061E-6	-0.18647	0.0	
38.00000	-18.00000	15.50000	0.17213	15.130	-32.298E-6	-0.17779	0.0	
39.00000	-18.00000	15.50000	0.17092	15.130	-29.669E-6	-0.16931	0.0	
40.00000	-18.00000	15.50000	0.16948	15.130	-27.186E-6	-0.16109	0.0	
41.00000	-18.00000	15.50000	0.16782	15.130	-24.857E-6	-0.15313	0.0	
42.00000	-18.00000	15.50000	0.16594	15.130	-22.686E-6	-0.14547	0.0	
43.00000	-18.00000	15.50000	0.16386	15.130	-20.674E-6	-0.13811	0.0	
44.00000	-18.00000	15.50000	0.16158	15.130	-18.819E-6	-0.13107	0.0	
45.00000	-18.00000	15.50000	0.15911	15.130	-17.115E-6	-0.12425	0.0	
46.00000	-18.00000	15.50000	0.15648	15.130	-15.555E-6	-0.11795	0.0	
47.00000	-18.00000	15.50000	0.15369	15.130	-14.133E-6	-0.11186	0.0	
48.00000	-18.00000	15.50000	0.15077	15.130	-12.840E-6	-0.10609	0.0	
49.00000	-18.00000	15.50000	0.14774	15.130	-11.667E-6	-0.10062	0.0	
50.00000	-18.00000	15.50000	0.14462	15.130	-10.603E-6	-0.09541	0.0	
51.00000	-18.00000	15.50000	0.14141	15.130	-9.6403E-6	-0.090549	0.0	
52.00000	-18.00000	15.50000	0.13814	15.130	-8.7698E-6	-0.085928	0.0	
53.00000	-18.00000	15.50000	0.13483	15.130	-7.9830E-6	-0.081566	0.0	
54.00000	-18.00000	15.50000	0.13149	15.130	-7.2722E-6	-0.077452	0.0	
55.00000	-17.00000	15.50000	0.12814	15.130	-6.6303E-6	-0.073572	0.0	
56.00000	-17.00000	15.50000	0.12471	15.130	-6.0511E-6	-0.070039	0.0	
57.00000	-17.00000	15.50000	0.12121	15.130	-5.5286E-6	-0.066843	0.0	
58.00000	-17.00000	15.50000	0.11764	15.130	-5.0589E-6	-0.063977	0.0	
59.00000	-17.00000	15.50000	0.11401	15.130	-4.6381E-6	-0.061431	0.0	
60.00000	-17.00000	15.50000	0.11032	15.130	-4.2622E-6	-0.059199	0.0	
61.00000	-17.00000	15.50000	0.10658	15.130	-3.9377E-6	-0.057271	0.0	
62.00000	-17.00000	15.50000	0.10279	15.130	-3.6609E-6	-0.055635	0.0	
63.00000	-17.00000	15.50000	0.99199	15.130	-3.4286E-6	-0.054281	0.0	
64.00000	-17.00000	15.50000	0.98119	15.130	-3.2377E-6	-0.053199	0.0	
65.00000	-17.00000	15.50000	0.97039	15.130	-3.0859E-6	-0.052269	0.0	
66.00000	-17.00000	15.50000	0.96059	15.130	-2.9699E-6	-0.051471	0.0	
67.00000	-17.00000	15.50000	0.95179	15.130	-2.8869E-6	-0.050795	0.0	
68.00000	-17.00000	15.50000	0.94399	15.130	-2.8339E-6	-0.050221	0.0	
69.00000	-17.00000	15.50000	0.93719	15.130	-2.8009E-6	-0.049747	0.0	
70.00000	-17.00000	15.50000	0.93139	15.130	-2.7849E-6	-0.049363	0.0	
71.00000	-17.00000	15.50000	0.92659	15.130	-2.7839E-6	-0.049069	0.0	
72.00000	-17.00000	15.50000	0.92279	15.130	-2.7959E-6	-0.048855	0.0	
73.00000	-17.00000	15.50000	0.91999	15.130	-2.8279E-6	-0.048711	0.0	
74.00000	-17.00000	15.50000	0.91819	15.130	-2.8779E-6	-0.048637	0.0	
75.00000	-17.00000	15.50000	0.91739	15.130	-2.9419E-6	-0.048623	0.0	
76.00000	-17.00000	15.50000	0.91759	15.130	-3.0179E-6	-0.048669	0.0	
77.00000	-17.00000	15.50000	0.91879	15.130	-3.1039E-6	-0.048765	0.0	
78.00000	-17.00000	15.50000	0.92099	15.130	-3.1999E-6	-0.048911	0.0	
79.00000	-17.00000	15.50000	0.92419	15.130	-3.3059E-6	-0.049107	0.0	
80.00000	-17.00000	15.50000	0.92839	15.130	-3.4219E-6	-0.049353	0.0	
81.00000	-17.00000	15.50000	0.93359	15.130	-3.5479E-6	-0.049649	0.0	
82.00000	-17.00000	15.50000	0.93979	15.130	-3.6839E-6	-0.050005	0.0	
83.00000	-17.00000	15.50000	0.94699	15.130	-3.8299E-6	-0.050421	0.0	
84.00000	-17.00000	15.50000	0.95519	15.130	-3.9859E-6	-0.050897	0.0	
85.00000	-17.00000	15.50000	0.96439	15.130	-4.1519E-6	-0.051433	0.0	
86.00000	-17.00000	15.50000	0.97459	15.130	-4.3279E-6	-0.052029	0.0	
87.00000	-17.00000	15.50000	0.98579	15.130	-4.5139E-6	-0.052685	0.0	
88.00000	-17.00000	15.50000	0.99799	15.130	-4.7099E-6	-0.053391	0.0	
89.00000	-17.00000	15.50000	1.01119	15.130	-4.9159E-6	-0.054147	0.0	
90.00000	-17.00000	15.50000	1.02539	15.130	-5.1319E-6	-0.054953	0.0	
91.00000	-17.00000	15.50000	1.04059	15.130	-5.3579E-6	-0.055809	0.0	
92.00000	-17.00000	15.50000	1.05679	15.130	-5.5939E-6	-0.056715	0.0	
93.00000	-17.00000	15.50000	1.07399	15.130	-5.8399E-6	-0.057671	0.0	
94.00000	-17.00000	15.50000	1.09219	15.130	-6.0959E-6	-0.058677	0.0	
95.00000	-17.00000	15.50000	1.11139	15.130	-6.3619E-6	-0.059733	0.0	
96.00000	-17.00000	15.50000	1.13159	15.130	-6.6379E-6	-0.060839	0.0	
97.00000	-17.00000	15.50000	1.15279	15.130	-6.9239E-6	-0.061995	0.0	



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Dr. Ref.		
Made by	Date	Checked
MP		

Name	Location		Z [Level] [m]	Z [mm]	Stresses			Vert Strain [-]
	X [m]	Y [m]			Calc Level [mOD]	Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	
41.00000	-17.00000	15.50000	0.16884	15.130	-28.627E-6	-0.16453	0.0	
42.00000	-17.00000	15.50000	0.16733	15.130	-25.987E-6	-0.15591	0.0	
43.00000	-17.00000	15.50000	0.16556	15.130	-23.556E-6	-0.14765	0.0	
44.00000	-17.00000	15.50000	0.16354	15.130	-21.329E-6	-0.13978	0.0	
45.00000	-17.00000	15.50000	0.16130	15.130	-19.298E-6	-0.13230	0.0	
46.00000	-17.00000	15.50000	0.15884	15.130	-17.453E-6	-0.12520	0.0	
47.00000	-17.00000	15.50000	0.15619	15.130	-15.780E-6	-0.11847	0.0	
48.00000	-17.00000	15.50000	0.15338	15.130	-14.270E-6	-0.11211	0.0	
49.00000	-17.00000	15.50000	0.15042	15.130	-12.908E-6	-0.10611	0.0	
50.00000	-17.00000	15.50000	0.14733	15.130	-11.681E-6	-0.10045	0.0	
51.00000	-17.00000	15.50000	0.14406	15.130	-10.579E-6	-0.09514	0.0	
52.00000	-17.00000	15.50000	0.14088	15.130	-9.5857E-6	-0.090105	0.0	
53.00000	-17.00000	15.50000	0.13755	15.130	-8.6939E-6	-0.085382	0.0	
54.00000	-17.00000	15.50000	0.13417	15.130	-7.8924E-6	-0.080940	0.0	
55.00000	-17.00000	15.50000	0.13077	15.130	-7.1718E-6	-0.076763	0.0	
-25.00000	-16.00000	15.50000	0.12691	15.130	-6.5312E-6	-0.072827	0.0	
-24.00000	-16.00000	15.50000	0.12352	15.130	-5.9630E-6	-0.069147	0.0	
-23.00000	-16.00000	15.50000	0.12010	15.130	-5.4629E-6	-0.065700	0.0	
-22.00000	-16.00000	15.50000	0.11663	15.130	-5.0245E-6	-0.062474	0.0	
-21.00000	-16.00000	15.50000	0.11313	15.130	-4.6422E-6	-0.059439	0.0	
-20.00000	-16.00000	15.50000	0.10961	15.130	-4.3207E-6	-0.056564	0.0	
-19.00000	-16.00000	15.50000	0.10608	15.130	-4.0545E-6	-0.053829	0.0	
-18.00000	-16.00000	15.50000	0.10254	15.130	-3.8381E-6	-0.051214	0.0	
-17.00000	-16.00000	15.50000	0.10000	15.130	-3.6666E-6	-0.048700	0.0	
-16.00000	-16.00000	15.50000	0.10000	15.130	-3.6666E-6	-0.048700	0.0	
-15.00000	-16.00000	15.50000	0.10000	15.130	-3.6666E-6	-0.048700	0.0	
-14.00000	-16.00000	15.50000	0.10000	15.130	-3.6666E-6	-0.048700	0.0	
-13.00000	-16.00000	15.50000	0.10000	15.130	-3.6666E-6	-0.048700	0.0	
-12.00000	-16.00000	15.50000	0.10000	15.130	-3.6666E-6	-0.048700	0.0	
-11.00000	-16.00000	15.50000	0.10000	15.130	-3.6666E-6	-0.048700	0.0	
-10.00000	-16.00000	15.50000	0.10000	15.130	-3.6666E-6	-0.048700	0.0	
-9.00000	-16.00000	15.50000	0.10000	15.130	-3.6666E-6	-0.048700	0.0	
-8.00000	-16.00000	15.50000	0.10000	15.130	-3.6666E-6	-0.048700	0.0	
-7.00000	-16.00000	15.50000	0.10000	15.130	-3.6666E-6	-0.048700	0.0	
-6.00000	-16.00000	15.50000	0.10000	15.130	-3.6666E-6	-0.048700	0.0	
-5.00000	-16.00000	15.50000	0.10000	15.130	-3.6666E-6	-0.048700	0.0	
-4.00000	-16.00000	15.50000	0.10000	15.130	-3.6666E-6	-0.048700	0.0	
-3.00000	-16.00000	15.50000	0.10000	15.130	-3.6666E-6	-0.048700	0.0	
-2.00000	-16.00000	15.50000	0.10000	15.130	-3.6666E-6	-0.048700	0.0	
-1.00000	-16.00000	15.50000	0.10000	15.130	-3.6666E-6	-0.048700	0.0	
0.00000	-16.00000	15.50000	0.10000	15.130	-3.6666E-6	-0.048700	0.0	
1.00000	-16.00000	15.50000	0.10000	15.130	-3.6666E-6	-0.048700	0.0	
2.00000	-16.00000	15.50000	0.10000	15.130	-3.6666E-6	-0.048700	0.0	
3.00000	-16.00000	15.50000	0.10000	15.130	-3.6666E-6	-0.048700	0.0	
4.00000	-16.00000	15.50000	0.10000	15.130	-3.6666E-6	-0.048700	0.0	
5.00000	-16.00000	15.50000	0.10000	15.130	-3.6666E-6	-0.048700	0.0	
6.00000	-16.00000	15.50000	0.10000	15.130	-3.6666E-6	-0.048700	0.0	
7.00000	-16.00000	15.50000	0.10000	15.130	-3.6666E-6	-0.048700	0.0	
8.00000	-16.00000	15.50000	0.10000	15.130	-3.6666E-6	-0.048700	0.0	
9.00000	-16.00000	15.50000	0.10000	15.130	-3.6666E-6	-0.048700	0.0	
10.00000	-16.00000	15.50000	0.10000	15.130	-3.6666E-6	-0.048700	0.0	
11.00000	-16.00000	15.50000	0.10000	15.130	-3.6666E-6	-0.048700	0.0	
12.00000	-16.00000	15.50000	0.10000	15.130	-3.6666E-6	-0.048700	0.0	
13.00000	-16.00000	15.50000	0.10000	15.130	-3.6666E-6	-0.048700	0.0	
14.00000	-16.00000	15.50000	0.10000	15.130	-3.6666E-6	-0.048700	0.0	
15.00000	-16.00000	15.50000	0.10000	15.130	-3.6666E-6	-0.048700	0.0	
16.00000	-16.00000	15.50000	0.10000	15.130	-3.6666E-6	-0.048700	0.0	
17.00000	-16.00000	15.50000	0.10000	15.130	-3.6666E-6	-0.048700	0.0	
18.00000	-16.00000	15.50000	0.10000	15.130	-3.6666E-6	-0.048700	0.0	
19.00000	-16.00000	15.50000	0.10000	15.130	-3.6666E-6	-0.048700	0.0	
20.00000	-16.00000	15.50000	0.10000	15.130	-3.6666E-6	-0.048700	0.0	
21.00000	-16.00000	15.50000	0.10000	15.130	-3.6666E-6	-0.048700	0.0	
22.00000	-16.00000	15.50000	0.10000	15.130	-3.6666E-6	-0.048700	0.0	
23.00000	-16.00000	15.50000	0.10000	15.130	-3.6666E-6	-0.048700	0.0	
24.00000	-16.00000	15.50000	0.10000	15.130	-3.6666E-6	-0.048700	0.0	
25.00000	-16.00000	15.50000	0.10000	15.130	-3.6666E-6	-0.048700	0.0	
26.00000	-16.00000	15.50000	0.10000	15.130	-3.6666E-6	-0.048700	0.0	
27.00000	-16.00000	15.50000	0.10000	15.130	-3.6666E-6	-0.048700	0.0	
28.00000	-16.00000	15.50000	0.10000	15.130	-3.6666E-6	-0.048700	0.0	
29.00000	-16.00000	15.50000	0.10000	15.130	-3.6666E-6	-0.048700	0.0	
30.00000	-16.00000	15.50000	0.10000	15.130	-3.6666E-6	-0.048700	0.0	
31.00000	-16.00000	15.50000	0.10000	15.130	-3.6666E-6	-0.048700	0.0	
32.00000	-16.00000	15.50000	0.10000	15.130	-3.6666E-6	-0.048700	0.0	
33.00000	-16.00000	15.50000	0.10000	15.130	-3.6666E-6	-0.048700	0.0	
34.00000	-16.00000	15.50000	0.10000	15.130	-3.6666E-6	-0.048700	0.0	
35.00000	-16.00000	15.50000	0.10000	15.130	-3.6666E-6	-0.048700	0.0	
36.00000	-16.00000	15.50000	0.10000	15.130	-3.6666E-6	-0.048700	0.0	
37.00000	-16.00000	15.50000	0.10000	15.130	-3.6666E-6	-0.048700	0.0	
38.00000	-16.00000	15.50000	0.10000	15.130	-3.6666E-6	-0.048700	0.0	
39.00000	-16.00000	15.50000	0.10000	15.130	-3.6666E-6	-0.048700	0.0	
40.00000	-16.00000	15.50000	0.10000	15.130	-3.6666E-6	-0.048700	0.0	
41.00000	-16.00000	15.50000	0.10000	15.130	-3.6666E-6	-0.048700	0.0	
42.00000	-16.00000	15.50000	0.10000	15.130	-3.6666E-6	-0.048700	0.0	
43.00000	-16.00000	15.50000	0.10000	15.130	-3.6666E-6	-0.048700	0.0	
44.00000	-16.00000	15.50000	0.10000	15.130	-3.6666E-6	-0.048700	0.0	
45.00000	-16.00000	15.50000	0.10000	15.130	-3.6666E-6	-0.048700	0.0	
46.00000	-16.00000	15.50000	0.10000	15.130	-3.6666E-6	-0.048700	0.0	
47.00000	-16.00000	15.50000	0.10000	15.130	-3.6666E-6	-0.048700	0.0	
48.00000	-16.00000	15.50000	0.10000	15.130	-3.6666E-6	-0.048700	0.0	
49.00000	-16.00000	15.50000	0.10000	15.130	-3.6666E-6	-0.048700	0.0	
50.00000	-16.00000	15.50000	0.10000	15.130	-3.6666E-6	-0.048700	0.0	
51.00000	-16.00000	15.50000	0.10000	15.130	-3.6666E-6	-0.048700	0.0	
52.00000	-16.00000	15.50000	0.10000	15.130	-3.6666E-6	-0.048700	0.0	
53.00000	-16.00000	15.50000	0.10000	15.130	-3.6666E-6	-0.048700	0.0	
54.00000	-16.00000	15.50000	0.10000	15.130	-3.6666E-6	-0.048700	0.0	
55.00000	-16.00000	15.50000	0.10000	15.130	-3.6666E-6	-0.048700	0.0	
-25.00000	-15.00000	15.50000	0.13861	15.130	-7.9860E-6	-0.083582	0.0	
-24.00000	-15.00000	15.50000	0.14227	15.130	-8.8306E-6	-0.088413	0.0	
-23.00000	-15.00000	15.50000	0.14589	15.130	-9.7789E-6	-0.093584	0.0	
-22.00000	-15.00000	15.50000	0.14942	15.130	-10.845E-6	-0.099122	0.0	
-21.00000	-15.00000	15.50000	0.15286	15.130	-12.045E-6	-0.10505	0.0	
-20.00000	-15.00000	15.50000	0.15616	15.130	-13.396E-6	-0.11141	0.0	
-19.00000	-15.00000	15.50000	0.15929	15.130	-14.920E-6	-0.11822	0.0	
-18.00000	-15.00000	15.50000	0.16221	15.130	-16.639E-6	-0.12551	0.0	
-17.00000	-15.00000	15.50000	0.16489	15.130	-18.566E-6	-0.13332	0.0	
-16.00000	-15.00000	15.50000	0.16727	15.130	-20.772E-6	-0.14168	0.0	
-15.00000	-15.00000	15.50000	0.16931	15.130	-23.246E-6	-0.15062	0.0	
-14.00000	-15.00000	15.50000	0.17097	15.130	-26.037E-6	-0.16018	0.0	
-13.00000	-15.00000	15.50000	0.17220	15.130	-29.182E-6	-0.17038	0.0	
-12.00000	-15.00000	15.50000	0.17296	15.130	-32.719E-6	-0.18124	0.0	
-11.00000	-15.00000	15.50000	0.17320	15.130	-36.687E-6	-0.19279	0.0	
-10.00000	-15.00000	15.50000	0.17289	15.130	-41.123E-6	-0.20504	0.0	
-9.00000	-15.00000	15.50000	0.17200	15.130	-46.062E-6	-0.21799	0.0	
-8.00000	-15.00000	15.50000	0.17051	15.130	-51.527E-6	-0.23162	0.0	
-7.00000	-15.00000	15.50000	0.16842	15.130	-57.535E-6	-0.24590	0.0	
-6.00000	-15.00000	15.50000	0.16573	15.130	-64.086E-6	-0.26078	0.0	
-5.00000	-15.00000	15.50000	0.16248	15.				



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Dr. Ref.		
Made by	Date	Checked
MP		

Name	Location	Z [Level] [m]	Z [mm]	Calc Level [mOD]	Stresses		
					Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
20.00000	-15.00000	15.50000	0.11374	15.130	-157.57E-6	-0.45407	1.1889E-6
21.00000	-15.00000	15.50000	0.11696	15.130	-153.06E-6	-0.44554	1.1666E-6
22.00000	-15.00000	15.50000	0.12034	15.130	-148.22E-6	-0.43612	1.1419E-6
23.00000	-15.00000	15.50000	0.12383	15.130	-143.10E-6	-0.42589	1.1152E-6
24.00000	-15.00000	15.50000	0.12739	15.130	-137.74E-6	-0.41493	1.0865E-6
25.00000	-15.00000	15.50000	0.13099	15.130	-132.18E-6	-0.40332	1.0561E-6
26.00000	-15.00000	15.50000	0.13459	15.130	-126.43E-6	-0.39113	1.0243E-6
27.00000	-15.00000	15.50000	0.13817	15.130	-120.53E-6	-0.37844	0.0
28.00000	-15.00000	15.50000	0.14169	15.130	-114.47E-6	-0.36532	0.0
29.00000	-15.00000	15.50000	0.14513	15.130	-108.28E-6	-0.35183	0.0
30.00000	-15.00000	15.50000	0.14846	15.130	-101.97E-6	-0.33804	0.0
31.00000	-15.00000	15.50000	0.15166	15.130	-95.58E-6	-0.32404	0.0
32.00000	-15.00000	15.50000	0.15469	15.130	-89.15E-6	-0.30991	0.0
33.00000	-15.00000	15.50000	0.15751	15.130	-82.72E-6	-0.29574	0.0
34.00000	-15.00000	15.50000	0.16009	15.130	-76.36E-6	-0.28161	0.0
35.00000	-15.00000	15.50000	0.16233	15.130	-70.13E-6	-0.26762	0.0
36.00000	-15.00000	15.50000	0.16436	15.130	-64.10E-6	-0.25385	0.0
37.00000	-15.00000	15.50000	0.16598	15.130	-58.31E-6	-0.24039	0.0
38.00000	-15.00000	15.50000	0.16721	15.130	-52.84E-6	-0.22731	0.0
39.00000	-15.00000	15.50000	0.16805	15.130	-47.70E-6	-0.21468	0.0
40.00000	-15.00000	15.50000	0.16846	15.130	-42.84E-6	-0.20254	0.0
41.00000	-15.00000	15.50000	0.16846	15.130	-38.56E-6	-0.19093	0.0
42.00000	-15.00000	15.50000	0.16805	15.130	-34.56E-6	-0.17988	0.0
43.00000	-15.00000	15.50000	0.16723	15.130	-30.93E-6	-0.16940	0.0
44.00000	-15.00000	15.50000	0.16602	15.130	-27.67E-6	-0.15949	0.0
45.00000	-15.00000	15.50000	0.16446	15.130	-24.73E-6	-0.15015	0.0
46.00000	-15.00000	15.50000	0.16256	15.130	-22.11E-6	-0.14137	0.0
47.00000	-15.00000	15.50000	0.16037	15.130	-19.78E-6	-0.13311	0.0
48.00000	-15.00000	15.50000	0.15791	15.130	-17.70E-6	-0.12538	0.0
49.00000	-15.00000	15.50000	0.15521	15.130	-15.85E-6	-0.11811	0.0
50.00000	-15.00000	15.50000	0.15231	15.130	-14.21E-6	-0.11136	0.0
51.00000	-15.00000	15.50000	0.14925	15.130	-12.75E-6	-0.10502	0.0
52.00000	-15.00000	15.50000	0.14604	15.130	-11.46E-6	-0.09909	0.0
53.00000	-15.00000	15.50000	0.14273	15.130	-10.31E-6	-0.09354	0.0
54.00000	-15.00000	15.50000	0.13932	15.130	-9.29E-6	-0.08830	0.0
55.00000	-15.00000	15.50000	0.13586	15.130	-8.39E-6	-0.08330	0.0
-25.00000	-14.00000	15.50000	0.14126	15.130	-8.57E-6	-0.08701	0.0
-24.00000	-14.00000	15.50000	0.14496	15.130	-9.51E-6	-0.09218	0.0
-23.00000	-14.00000	15.50000	0.14859	15.130	-10.56E-6	-0.09774	0.0
-22.00000	-14.00000	15.50000	0.15213	15.130	-11.76E-6	-0.10372	0.0
-21.00000	-14.00000	15.50000	0.15553	15.130	-13.11E-6	-0.11013	0.0
-20.00000	-14.00000	15.50000	0.15877	15.130	-14.64E-6	-0.11703	0.0
-19.00000	-14.00000	15.50000	0.16180	15.130	-16.37E-6	-0.12445	0.0
-18.00000	-14.00000	15.50000	0.16457	15.130	-18.34E-6	-0.13242	0.0
-17.00000	-14.00000	15.50000	0.16704	15.130	-20.58E-6	-0.14100	0.0
-16.00000	-14.00000	15.50000	0.16914	15.130	-23.17E-6	-0.15022	0.0
-15.00000	-14.00000	15.50000	0.17084	15.130	-26.03E-6	-0.16012	0.0
-14.00000	-14.00000	15.50000	0.17206	15.130	-29.33E-6	-0.17076	0.0
-13.00000	-14.00000	15.50000	0.17276	15.130	-33.08E-6	-0.18218	0.0
-12.00000	-14.00000	15.50000	0.17287	15.130	-37.34E-6	-0.19440	0.0
-11.00000	-14.00000	15.50000	0.17234	15.130	-42.15E-6	-0.20748	0.0
-10.00000	-14.00000	15.50000	0.17112	15.130	-47.62E-6	-0.22142	0.0
-9.00000	-14.00000	15.50000	0.16918	15.130	-53.76E-6	-0.23624	0.0
-8.00000	-14.00000	15.50000	0.16649	15.130	-60.63E-6	-0.25194	0.0
-7.00000	-14.00000	15.50000	0.16303	15.130	-68.26E-6	-0.26849	0.0
-6.00000	-14.00000	15.50000	0.15882	15.130	-76.67E-6	-0.28585	0.0
-5.00000	-14.00000	15.50000	0.15389	15.130	-85.84E-6	-0.30392	0.0
-4.00000	-14.00000	15.50000	0.14829	15.130	-95.72E-6	-0.32261	0.0
-3.00000	-14.00000	15.50000	0.14211	15.130	-106.23E-6	-0.34177	0.0
-2.00000	-14.00000	15.50000	0.13546	15.130	-117.22E-6	-0.36121	0.0
-1.00000	-14.00000	15.50000	0.12845	15.130	-128.52E-6	-0.38073	0.0
0.00000	-14.00000	15.50000	0.12124	15.130	-139.93E-6	-0.40010	1.0476E-6
1.00000	-14.00000	15.50000	0.11397	15.130	-151.23E-6	-0.41908	1.0972E-6
2.00000	-14.00000	15.50000	0.10681	15.130	-162.18E-6	-0.43743	1.1452E-6
3.00000	-14.00000	15.50000	0.09905	15.130	-172.58E-6	-0.45490	1.1908E-6
4.00000	-14.00000	15.50000	0.093392	15.130	-182.25E-6	-0.47129	1.2337E-6
5.00000	-14.00000	15.50000	0.087395	15.130	-191.04E-6	-0.48640	1.2732E-6
6.00000	-14.00000	15.50000	0.082016	15.130	-198.83E-6	-0.50007	1.3090E-6
7.00000	-14.00000	15.50000	0.077336	15.130	-205.55E-6	-0.51218	1.3406E-6
8.00000	-14.00000	15.50000	0.07313	15.130	-211.17E-6	-0.52262	1.3678E-6
9.00000	-14.00000	15.50000	0.070283	15.130	-215.67E-6	-0.53133	1.3907E-6
10.00000	-14.00000	15.50000	0.067967	15.130	-219.05E-6	-0.53826	1.4088E-6
11.00000	-14.00000	15.50000	0.066465	15.130	-221.33E-6	-0.54340	1.4223E-6
12.00000	-14.00000	15.50000	0.065766	15.130	-222.54E-6	-0.54674	1.4310E-6
13.00000	-14.00000	15.50000	0.065844	15.130	-222.70E-6	-0.54830	1.4351E-6
14.00000	-14.00000	15.50000	0.066663	15.130	-221.87E-6	-0.54812	1.4347E-6
15.00000	-14.00000	15.50000	0.068179	15.130	-220.09E-6	-0.54625	1.4298E-6
16.00000	-14.00000	15.50000	0.070336	15.130	-217.41E-6	-0.54276	1.4207E-6
17.00000	-14.00000	15.50000	0.073073	15.130	-213.90E-6	-0.53772	1.4075E-6
18.00000	-14.00000	15.50000	0.076325	15.130	-209.64E-6	-0.53123	1.3905E-6
19.00000	-14.00000	15.50000	0.080021	15.130	-204.72E-6	-0.52339	1.3700E-6
20.00000	-14.00000	15.50000	0.084089	15.130	-199.22E-6	-0.51430	1.3463E-6
21.00000	-14.00000	15.50000	0.088459	15.130	-193.24E-6	-0.50409	1.3196E-6
22.00000	-14.00000	15.50000	0.093064	15.130	-186.86E-6	-0.49285	1.2902E-6
23.00000	-14.00000	15.50000	0.097944	15.130	-180.16E-6	-0.48070	1.2584E-6
24.00000	-14.00000	15.50000	0.10275	15.130	-173.19E-6	-0.46773	1.2245E-6
25.00000	-14.00000	15.50000	0.10772	15.130	-165.99E-6	-0.45403	1.1887E-6
26.00000	-14.00000	15.50000	0.11274	15.130	-158.59E-6	-0.43968	1.1511E-6
27.00000	-14.00000	15.50000	0.11775	15.130	-150.99E-6	-0.42477	1.1121E-6
28.00000	-14.00000	15.50000	0.12274	15.130	-143.20E-6	-0.40937	1.0718E-6
29.00000	-14.00000	15.50000	0.12768	15.130	-135.23E-6	-0.39354	1.0304E-6
30.00000	-14.00000	15.50000	0.13252	15.130	-127.10E-6	-0.37739	0.0
31.00000	-14.00000	15.50000	0.13723	15.130	-118.83E-6	-0.36098	0.0
32.00000	-14.00000	15.50000	0.14177	15.130	-110.48E-6	-0.34442	0.0
33.00000	-14.00000	15.50000	0.14609	15.130	-102.05E-6	-0.32782	0.0
34.00000	-14.00000	15.50000	0.15013	15.130	-93.81E-6	-0.31128	0.0
35.00000	-14.00000	15.50000	0.15385	15.130	-85.69E-6	-0.29493	0.0
36.00000	-14.00000	15.50000	0.15718	15.130	-77.84E-6	-0.27887	0.0
37.00000	-14.00000	15.50000	0.16009	15.130	-70.34E-6	-0.26322	0.0
38.00000	-14.00000	15.50000	0.16253	15.130	-63.28E-6	-0.24807	0.0
39.00000	-14.00000	15.50000	0.16446	15.130	-56.71E-6	-0.23348	0.0
40.00000	-14.00000	15.50000	0.16588	15.130	-50.65E-6	-0.21953	0.0
41.00000	-14.00000	15.50000	0.16676	15.130	-45.13E-6	-0.20625	0.0
42.00000	-14.00000	15.50000	0.16713	15.130	-40.15E-6	-0.19367	0.0
43.00000	-14.00000	15.50000	0.16699	15.130	-35.67E-6	-0.18181	0.0
44.00000	-14.00000	15.50000	0.16637	15.130	-31.67E-6	-0.17064	0.0
45.00000	-14.00000	15.50000	0.16530	15.130	-28.12E-6	-0.16017	0.0
46.00000	-14.00000	15.50000	0.16382	15.130	-24.98E-6	-0.15037	0.0
47.00000	-14.00000	15.50000	0.16195	15.130	-22.20E-6	-0.14121	0.0
48.00000	-14.00000	15.50000	0.15976	15.130	-19.75E-6	-0.13266	0.0
49.00000	-14.00000	15.50000	0.15727	15.130	-17.60E-6	-0.12469	0.0
50.00000	-14.00000	15.50000	0.15453	15.130	-15.69E-6	-0.11727	0.0
51.00000	-14.00000	15.50000	0.15157	15.130	-14.02E-6	-0.11035	0.0
52.00000	-14.00000	15.50000	0.14844	15.130	-12.54E-6	-0.10390	0.0
53.00000	-14.00000	15.50000	0.14516	15.130	-11.24E-6	-0.09790	0.0
54.00000	-14.00000	15.50000	0.14177	15.130	-10.09E-6	-0.09231	0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
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MP		

Name	Location		Z [Level] [m]	Z [mm]	Calc Level [mOD]	Stresses		
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
-1.00000	-13.00000	15.50000	0.10690	15.130	-161.95E-6	-0.42753	1.1192E-6	
0.00000	-13.00000	15.50000	0.096971	15.130	-177.55E-6	-0.45095	1.1804E-6	
1.00000	-13.00000	15.50000	0.087004	15.130	-193.01E-6	-0.47393	1.2404E-6	
2.00000	-13.00000	15.50000	0.077214	15.130	-207.99E-6	-0.49615	1.2985E-6	
3.00000	-13.00000	15.50000	0.067803	15.130	-222.17E-6	-0.51731	1.3538E-6	
4.00000	-13.00000	15.50000	0.058656	15.130	-235.29E-6	-0.53711	1.4056E-6	
5.00000	-13.00000	15.50000	0.050835	15.130	-247.11E-6	-0.55533	1.4532E-6	
6.00000	-13.00000	15.50000	0.043569	15.130	-257.53E-6	-0.57176	1.4961E-6	
7.00000	-13.00000	15.50000	0.037261	15.130	-266.43E-6	-0.58625	1.5340E-6	
8.00000	-13.00000	15.50000	0.031981	15.130	-273.80E-6	-0.59868	1.5665E-6	
9.00000	-13.00000	15.50000	0.027772	15.130	-279.63E-6	-0.60894	1.5934E-6	
10.00000	-13.00000	15.50000	0.024652	15.130	-283.94E-6	-0.61711	1.6147E-6	
11.00000	-13.00000	15.50000	0.022620	15.130	-286.78E-6	-0.62306	1.6303E-6	
12.00000	-13.00000	15.50000	0.021658	15.130	-288.18E-6	-0.62684	1.6402E-6	
13.00000	-13.00000	15.50000	0.021729	15.130	-288.19E-6	-0.62847	1.6444E-6	
14.00000	-13.00000	15.50000	0.022788	15.130	-286.48E-6	-0.62801	1.6422E-6	
15.00000	-13.00000	15.50000	0.024774	15.130	-284.30E-6	-0.62552	1.6368E-6	
16.00000	-13.00000	15.50000	0.027619	15.130	-280.52E-6	-0.62109	1.6252E-6	
17.00000	-13.00000	15.50000	0.031241	15.130	-275.64E-6	-0.61482	1.6088E-6	
18.00000	-13.00000	15.50000	0.035556	15.130	-269.77E-6	-0.60683	1.5879E-6	
19.00000	-13.00000	15.50000	0.040469	15.130	-263.00E-6	-0.59725	1.5629E-6	
20.00000	-13.00000	15.50000	0.045887	15.130	-255.55E-6	-0.58622	1.5341E-6	
21.00000	-13.00000	15.50000	0.051718	15.130	-247.48E-6	-0.57389	1.5019E-6	
22.00000	-13.00000	15.50000	0.057873	15.130	-238.94E-6	-0.56039	1.4666E-6	
23.00000	-13.00000	15.50000	0.064274	15.130	-230.04E-6	-0.54586	1.4286E-6	
24.00000	-13.00000	15.50000	0.070884	15.130	-220.88E-6	-0.53042	1.3884E-6	
25.00000	-13.00000	15.50000	0.077556	15.130	-211.44E-6	-0.51417	1.3457E-6	
26.00000	-13.00000	15.50000	0.084335	15.130	-201.81E-6	-0.49720	1.3014E-6	
27.00000	-13.00000	15.50000	0.091154	15.130	-191.94E-6	-0.47959	1.2553E-6	
28.00000	-13.00000	15.50000	0.097978	15.130	-181.83E-6	-0.46142	1.2078E-6	
29.00000	-13.00000	15.50000	0.104777	15.130	-171.44E-6	-0.44276	1.1590E-6	
30.00000	-13.00000	15.50000	0.11151	15.130	-160.83E-6	-0.42371	1.1092E-6	
31.00000	-13.00000	15.50000	0.11812	15.130	-149.98E-6	-0.40435	1.0586E-6	
32.00000	-13.00000	15.50000	0.12457	15.130	-138.96E-6	-0.38481	1.0075E-6	
33.00000	-13.00000	15.50000	0.13079	15.130	-127.83E-6	-0.36523	0.0	
34.00000	-13.00000	15.50000	0.13670	15.130	-116.88E-6	-0.34573	0.0	
35.00000	-13.00000	15.50000	0.14223	15.130	-106.10E-6	-0.32648	0.0	
36.00000	-13.00000	15.50000	0.14730	15.130	-95.694E-6	-0.30761	0.0	
37.00000	-13.00000	15.50000	0.15185	15.130	-85.806E-6	-0.28928	0.0	
38.00000	-13.00000	15.50000	0.15581	15.130	-76.548E-6	-0.27158	0.0	
39.00000	-13.00000	15.50000	0.15914	15.130	-68.001E-6	-0.25464	0.0	
40.00000	-13.00000	15.50000	0.16182	15.130	-60.207E-6	-0.23852	0.0	
41.00000	-13.00000	15.50000	0.16383	15.130	-53.177E-6	-0.22325	0.0	
42.00000	-13.00000	15.50000	0.16518	15.130	-46.893E-6	-0.20887	0.0	
43.00000	-13.00000	15.50000	0.16590	15.130	-41.317E-6	-0.19538	0.0	
44.00000	-13.00000	15.50000	0.16601	15.130	-36.396E-6	-0.18277	0.0	
45.00000	-13.00000	15.50000	0.16556	15.130	-32.073E-6	-0.17100	0.0	
46.00000	-13.00000	15.50000	0.16458	15.130	-28.285E-6	-0.16005	0.0	
47.00000	-13.00000	15.50000	0.16314	15.130	-24.972E-6	-0.14986	0.0	
48.00000	-13.00000	15.50000	0.16128	15.130	-22.079E-6	-0.14041	0.0	
49.00000	-13.00000	15.50000	0.15906	15.130	-19.552E-6	-0.13163	0.0	
50.00000	-13.00000	15.50000	0.15652	15.130	-17.344E-6	-0.12349	0.0	
51.00000	-13.00000	15.50000	0.15371	15.130	-15.414E-6	-0.11594	0.0	
52.00000	-13.00000	15.50000	0.15068	15.130	-13.725E-6	-0.10894	0.0	
53.00000	-13.00000	15.50000	0.14747	15.130	-12.245E-6	-0.10244	0.0	
54.00000	-13.00000	15.50000	0.14412	15.130	-10.946E-6	-0.096406	0.0	
55.00000	-13.00000	15.50000	0.14066	15.130	-9.8044E-6	-0.090803	0.0	
-25.00000	-12.00000	15.50000	0.14635	15.130	-9.8643E-6	-0.094162	0.0	
-24.00000	-12.00000	15.50000	0.15009	15.130	-11.011E-6	-0.10009	0.0	
-23.00000	-12.00000	15.50000	0.15372	15.130	-12.316E-6	-0.10650	0.0	
-22.00000	-12.00000	15.50000	0.15719	15.130	-13.806E-6	-0.11342	0.0	
-21.00000	-12.00000	15.50000	0.16047	15.130	-15.510E-6	-0.12091	0.0	
-20.00000	-12.00000	15.50000	0.16349	15.130	-17.464E-6	-0.12902	0.0	
-19.00000	-12.00000	15.50000	0.16620	15.130	-19.709E-6	-0.13781	0.0	
-18.00000	-12.00000	15.50000	0.16854	15.130	-22.295E-6	-0.14734	0.0	
-17.00000	-12.00000	15.50000	0.17042	15.130	-25.279E-6	-0.15768	0.0	
-16.00000	-12.00000	15.50000	0.17178	15.130	-28.728E-6	-0.16889	0.0	
-15.00000	-12.00000	15.50000	0.17252	15.130	-32.721E-6	-0.18107	0.0	
-14.00000	-12.00000	15.50000	0.17256	15.130	-37.351E-6	-0.19428	0.0	
-13.00000	-12.00000	15.50000	0.17180	15.130	-42.722E-6	-0.20862	0.0	
-12.00000	-12.00000	15.50000	0.17016	15.130	-48.954E-6	-0.22417	0.0	
-11.00000	-12.00000	15.50000	0.16752	15.130	-56.181E-6	-0.24101	0.0	
-10.00000	-12.00000	15.50000	0.16382	15.130	-64.547E-6	-0.25921	0.0	
-9.00000	-12.00000	15.50000	0.15898	15.130	-74.204E-6	-0.27883	0.0	
-8.00000	-12.00000	15.50000	0.15293	15.130	-85.301E-6	-0.29929	0.0	
-7.00000	-12.00000	15.50000	0.14565	15.130	-97.971E-6	-0.32249	0.0	
-6.00000	-12.00000	15.50000	0.13714	15.130	-112.31E-6	-0.34650	0.0	
-5.00000	-12.00000	15.50000	0.12743	15.130	-128.37E-6	-0.37187	0.0	
-4.00000	-12.00000	15.50000	0.11662	15.130	-146.11E-6	-0.39846	1.0432E-6	
-3.00000	-12.00000	15.50000	0.10483	15.130	-165.30E-6	-0.42605	1.1153E-6	
-2.00000	-12.00000	15.50000	0.092259	15.130	-185.90E-6	-0.45435	1.1892E-6	
-1.00000	-12.00000	15.50000	0.079127	15.130	-207.31E-6	-0.48301	1.2641E-6	
0.00000	-12.00000	15.50000	0.065698	15.130	-229.09E-6	-0.51163	1.3388E-6	
1.00000	-12.00000	15.50000	0.052255	15.130	-250.72E-6	-0.53976	1.4123E-6	
2.00000	-12.00000	15.50000	0.039096	15.130	-271.65E-6	-0.56797	1.4833E-6	
3.00000	-12.00000	15.50000	0.026463	15.130	-291.37E-6	-0.59285	1.5503E-6	
4.00000	-12.00000	15.50000	0.014635	15.130	-309.48E-6	-0.61702	1.6140E-6	
5.00000	-12.00000	15.50000	0.0038116	15.130	-325.68E-6	-0.63917	1.6719E-6	
6.00000	-12.00000	15.50000	-0.0058398	15.130	-339.80E-6	-0.65906	1.7239E-6	
7.00000	-12.00000	15.50000	-0.018195	15.130	-351.78E-6	-0.67650	1.7695E-6	
8.00000	-12.00000	15.50000	-0.021170	15.130	-361.50E-6	-0.69139	1.8084E-6	
9.00000	-12.00000	15.50000	-0.026718	15.130	-369.12E-6	-0.70363	1.8404E-6	
10.00000	-12.00000	15.50000	-0.030824	15.130	-374.66E-6	-0.71321	1.8654E-6	
11.00000	-12.00000	15.50000	-0.033495	15.130	-378.19E-6	-0.72011	1.8835E-6	
12.00000	-12.00000	15.50000	-0.034761	15.130	-379.70E-6	-0.72437	1.8946E-6	
13.00000	-12.00000	15.50000	-0.034669	15.130	-379.52E-6	-0.72603	1.8990E-6	
14.00000	-12.00000	15.50000	-0.033281	15.130	-377.46E-6	-0.72515	1.8967E-6	
15.00000	-12.00000	15.50000	-0.030673	15.130	-373.68E-6	-0.72181	1.8880E-6	
16.00000	-12.00000	15.50000	-0.026935	15.130	-368.28E-6	-0.71614	1.8732E-6	
17.00000	-12.00000	15.50000	-0.022130	15.130	-361.37E-6	-0.70826	1.8523E-6	
18.00000	-12.00000	15.50000	-0.016490	15.130	-353.12E-6	-0.69832	1.8267E-6	
19.00000	-12.00000	15.50000	-0.010017	15.130	-343.70E-6	-0.68651	1.7958E-6	
20.00000	-12.00000	15.50000	-0.0028768	15.130	-333.32E-6	-0.67299	1.7605E-6	
21.00000	-12.00000	15.50000	0.0048079	15.130	-322.22E-6	-0.65797	1.7213E-6	
22.00000	-12.00000	15.50000	0.012921	15.130	-310.58E-6	-0.64163	1.6786E-6	
23.00000	-12.00000	15.50000	0.021361	15.130	-298.57E-6	-0.62413	1.6329E-6	
24.00000	-12.00000	15.50000	0.030042	15.130	-286.30E-6	-0.60562	1.5845E-6	
25.00000	-12.00000	15.50000	0.038895	15.130	-273.83E-6	-0.58623	1.5338E-6	
26.00000	-12.00000	15.50000	0.047970	15.130	-261.14E-6	-0.56604	1.4811E-6	
27.00000	-12.00000	15.50000	0.056928	15.130	-248.20E-6	-0.54514	1.4264E-6	
28.00000	-12.00000	15.50000	0.066035	15.130	-234.92E-6	-0.52359	1.3701E-6	
29.00000	-12.00000	15.50000	0.075157	15.130	-221.26E-6	-0.50146	1.3122E-6	
30.00000	-12.00000	15.50000	0.084253	15.130	-207.18E-6			



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Dr. Ref.		
Made by	Date	Checked
MP		

Name	Location	Z [Level] [m]	Z [mm]	Calc Level [mOD]	Stresses		
					Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
-22.00000	-11.00000	15.50000	0.15953	15.130	-14.935E-6	-0.11852	0.0
-21.00000	-11.00000	15.50000	0.16271	15.130	-16.846E-6	-0.12660	0.0
-20.00000	-11.00000	15.50000	0.16557	15.130	-19.050E-6	-0.13539	0.0
-19.00000	-11.00000	15.50000	0.16807	15.130	-21.599E-6	-0.14494	0.0
-18.00000	-11.00000	15.50000	0.17011	15.130	-24.556E-6	-0.15535	0.0
-17.00000	-11.00000	15.50000	0.17161	15.130	-27.996E-6	-0.16669	0.0
-16.00000	-11.00000	15.50000	0.17247	15.130	-32.006E-6	-0.17906	0.0
-15.00000	-11.00000	15.50000	0.17259	15.130	-36.693E-6	-0.19255	0.0
-14.00000	-11.00000	15.50000	0.17185	15.130	-42.182E-6	-0.20729	0.0
-13.00000	-11.00000	15.50000	0.17015	15.130	-48.622E-6	-0.22338	0.0
-12.00000	-11.00000	15.50000	0.16737	15.130	-56.186E-6	-0.24094	0.0
-11.00000	-11.00000	15.50000	0.16332	15.130	-65.073E-6	-0.26010	0.0
-10.00000	-11.00000	15.50000	0.15797	15.130	-75.509E-6	-0.28097	0.0
-9.00000	-11.00000	15.50000	0.15117	15.130	-87.739E-6	-0.30366	0.0
-8.00000	-11.00000	15.50000	0.14285	15.130	-102.02E-6	-0.32826	0.0
-7.00000	-11.00000	15.50000	0.13295	15.130	-118.60E-6	-0.35491	0.0
-6.00000	-11.00000	15.50000	0.12146	15.130	-137.70E-6	-0.38332	1.0036E-6
-5.00000	-11.00000	15.50000	0.10841	15.130	-159.44E-6	-0.41372	1.0830E-6
-4.00000	-11.00000	15.50000	0.093909	15.130	-183.84E-6	-0.44585	1.1669E-6
-3.00000	-11.00000	15.50000	0.078122	15.130	-210.74E-6	-0.47946	1.2547E-6
-2.00000	-11.00000	15.50000	0.061294	15.130	-239.70E-6	-0.51418	1.3453E-6
-1.00000	-11.00000	15.50000	0.043730	15.130	-270.27E-6	-0.54952	1.4376E-6
0.00000	-11.00000	15.50000	0.025789	15.130	-301.51E-6	-0.58494	1.5300E-6
1.00000	-11.00000	15.50000	0.0078600	15.130	-332.57E-6	-0.61982	1.6210E-6
2.00000	-11.00000	15.50000	-0.0096649	15.130	-362.54E-6	-0.65356	1.7091E-6
3.00000	-11.00000	15.50000	-0.024413	15.130	-390.60E-6	-0.68558	1.7927E-6
4.00000	-11.00000	15.50000	-0.042054	15.130	-416.14E-6	-0.71538	1.8705E-6
5.00000	-11.00000	15.50000	-0.056313	15.130	-438.74E-6	-0.74258	1.9414E-6
6.00000	-11.00000	15.50000	-0.068979	15.130	-458.17E-6	-0.76685	2.0048E-6
7.00000	-11.00000	15.50000	-0.079901	15.130	-474.39E-6	-0.78802	2.0601E-6
8.00000	-11.00000	15.50000	-0.088986	15.130	-487.47E-6	-0.80594	2.1069E-6
9.00000	-11.00000	15.50000	-0.096187	15.130	-497.51E-6	-0.82056	2.1451E-6
10.00000	-11.00000	15.50000	-0.10150	15.130	-504.66E-6	-0.83187	2.1747E-6
11.00000	-11.00000	15.50000	-0.10493	15.130	-509.06E-6	-0.83989	2.1957E-6
12.00000	-11.00000	15.50000	-0.10754	15.130	-510.83E-6	-0.84467	2.2082E-6
13.00000	-11.00000	15.50000	-0.10639	15.130	-510.07E-6	-0.84627	2.2124E-6
14.00000	-11.00000	15.50000	-0.10455	15.130	-506.85E-6	-0.84477	2.2085E-6
15.00000	-11.00000	15.50000	-0.10112	15.130	-501.26E-6	-0.84029	2.1968E-6
16.00000	-11.00000	15.50000	-0.096218	15.130	-493.41E-6	-0.83295	2.1777E-6
17.00000	-11.00000	15.50000	-0.089974	15.130	-483.44E-6	-0.82294	2.1516E-6
18.00000	-11.00000	15.50000	-0.082535	15.130	-471.58E-6	-0.81044	2.1190E-6
19.00000	-11.00000	15.50000	-0.074060	15.130	-458.11E-6	-0.79569	2.0805E-6
20.00000	-11.00000	15.50000	-0.064718	15.130	-443.36E-6	-0.77894	2.0368E-6
21.00000	-11.00000	15.50000	-0.054675	15.130	-427.71E-6	-0.76046	1.9885E-6
22.00000	-11.00000	15.50000	-0.044084	15.130	-411.48E-6	-0.74048	1.9364E-6
23.00000	-11.00000	15.50000	-0.033080	15.130	-394.93E-6	-0.71923	1.8809E-6
24.00000	-11.00000	15.50000	-0.021773	15.130	-378.29E-6	-0.69689	1.8225E-6
25.00000	-11.00000	15.50000	-0.010243	15.130	-361.53E-6	-0.67360	1.7617E-6
26.00000	-11.00000	15.50000	0.0014557	15.130	-344.63E-6	-0.64945	1.6986E-6
27.00000	-11.00000	15.50000	0.012387	15.130	-327.59E-6	-0.62449	1.6334E-6
28.00000	-11.00000	15.50000	0.025223	15.130	-309.83E-6	-0.59879	1.5662E-6
29.00000	-11.00000	15.50000	0.037236	15.130	-291.60E-6	-0.57239	1.4972E-6
30.00000	-11.00000	15.50000	0.049285	15.130	-272.65E-6	-0.54536	1.4266E-6
31.00000	-11.00000	15.50000	0.061307	15.130	-252.96E-6	-0.51782	1.3547E-6
32.00000	-11.00000	15.50000	0.073213	15.130	-232.65E-6	-0.48994	1.2818E-6
33.00000	-11.00000	15.50000	0.084885	15.130	-211.94E-6	-0.46193	1.2087E-6
34.00000	-11.00000	15.50000	0.096184	15.130	-191.19E-6	-0.43404	1.1358E-6
35.00000	-11.00000	15.50000	0.10696	15.130	-170.82E-6	-0.40656	1.0640E-6
36.00000	-11.00000	15.50000	0.11705	15.130	-151.26E-6	-0.37975	0.0
37.00000	-11.00000	15.50000	0.12653	15.130	-132.89E-6	-0.35369	0.0
38.00000	-11.00000	15.50000	0.13467	15.130	-116.00E-6	-0.32918	0.0
39.00000	-11.00000	15.50000	0.14200	15.130	-100.76E-6	-0.30578	0.0
40.00000	-11.00000	15.50000	0.14826	15.130	-87.228E-6	-0.28380	0.0
41.00000	-11.00000	15.50000	0.15344	15.130	-75.359E-6	-0.26327	0.0
42.00000	-11.00000	15.50000	0.15756	15.130	-65.052E-6	-0.24421	0.0
43.00000	-11.00000	15.50000	0.16065	15.130	-56.167E-6	-0.22658	0.0
44.00000	-11.00000	15.50000	0.16278	15.130	-48.545E-6	-0.21032	0.0
45.00000	-11.00000	15.50000	0.16402	15.130	-42.026E-6	-0.19535	0.0
46.00000	-11.00000	15.50000	0.16445	15.130	-36.457E-6	-0.18159	0.0
47.00000	-11.00000	15.50000	0.16415	15.130	-31.702E-6	-0.16896	0.0
48.00000	-11.00000	15.50000	0.16322	15.130	-27.639E-6	-0.15736	0.0
49.00000	-11.00000	15.50000	0.16173	15.130	-24.163E-6	-0.14670	0.0
50.00000	-11.00000	15.50000	0.15976	15.130	-21.182E-6	-0.13692	0.0
51.00000	-11.00000	15.50000	0.15739	15.130	-18.621E-6	-0.12792	0.0
52.00000	-11.00000	15.50000	0.15467	15.130	-16.415E-6	-0.11965	0.0
53.00000	-11.00000	15.50000	0.15168	15.130	-14.510E-6	-0.11204	0.0
54.00000	-11.00000	15.50000	0.14847	15.130	-12.861E-6	-0.10502	0.0
55.00000	-11.00000	15.50000	0.14509	15.130	-11.428E-6	-0.098555	0.0
-25.00000	-10.00000	15.50000	0.15132	15.130	-11.294E-6	-0.10165	0.0
-24.00000	-10.00000	15.50000	0.15495	15.130	-12.647E-6	-0.10842	0.0
-23.00000	-10.00000	15.50000	0.15841	15.130	-14.289E-6	-0.11577	0.0
-22.00000	-10.00000	15.50000	0.16173	15.130	-16.137E-6	-0.12377	0.0
-21.00000	-10.00000	15.50000	0.16477	15.130	-18.274E-6	-0.13248	0.0
-20.00000	-10.00000	15.50000	0.16745	15.130	-20.756E-6	-0.14198	0.0
-19.00000	-10.00000	15.50000	0.16968	15.130	-23.645E-6	-0.15236	0.0
-18.00000	-10.00000	15.50000	0.17137	15.130	-27.022E-6	-0.16372	0.0
-17.00000	-10.00000	15.50000	0.17242	15.130	-30.981E-6	-0.17615	0.0
-16.00000	-10.00000	15.50000	0.17270	15.130	-35.638E-6	-0.18978	0.0
-15.00000	-10.00000	15.50000	0.17209	15.130	-41.134E-6	-0.20473	0.0
-14.00000	-10.00000	15.50000	0.17044	15.130	-47.642E-6	-0.22116	0.0
-13.00000	-10.00000	15.50000	0.16761	15.130	-55.367E-6	-0.23922	0.0
-12.00000	-10.00000	15.50000	0.16344	15.130	-64.560E-6	-0.25908	0.0
-11.00000	-10.00000	15.50000	0.15776	15.130	-75.517E-6	-0.28091	0.0
-10.00000	-10.00000	15.50000	0.15042	15.130	-88.587E-6	-0.30489	0.0
-9.00000	-10.00000	15.50000	0.14127	15.130	-104.17E-6	-0.33120	0.0
-8.00000	-10.00000	15.50000	0.13019	15.130	-122.70E-6	-0.36001	0.0
-7.00000	-10.00000	15.50000	0.11706	15.130	-144.63E-6	-0.39142	1.0247E-6
-6.00000	-10.00000	15.50000	0.10187	15.130	-170.41E-6	-0.42551	1.1138E-6
-5.00000	-10.00000	15.50000	0.084632	15.130	-200.36E-6	-0.46224	1.2097E-6
-4.00000	-10.00000	15.50000	0.065461	15.130	-234.64E-6	-0.50149	1.3166E-6
-3.00000	-10.00000	15.50000	0.044568	15.130	-273.13E-6	-0.54291	1.4220E-6
-2.00000	-10.00000	15.50000	0.022271	15.130	-315.27E-6	-0.58606	1.5327E-6
-1.00000	-10.00000	15.50000	-0.0010175	15.130	-360.12E-6	-0.63028	1.6480E-6
0.00000	-10.00000	15.50000	-0.024804	15.130	-406.33E-6	-0.67478	1.7641E-6
1.00000	-10.00000	15.50000	-0.048550	15.130	-452.33E-6	-0.71870	1.8786E-6
2.00000	-10.00000	15.50000	-0.071711	15.130	-496.53E-6	-0.76114	1.9892E-6
3.00000	-10.00000	15.50000	-0.093776	15.130	-537.57E-6	-0.80130	2.0940E-6
4.00000	-10.00000	15.50000	-0.11430	15.130	-574.46E-6	-0.83851	2.1910E-6
5.00000	-10.00000	15.50000	-0.13293	15.130	-606.62E-6	-0.87224	2.2790E-6
6.00000	-10.00000	15.50000	-0.14944	15.130	-633.83E-6	-0.90215	2.3571E-6
7.00000	-10.00000	15.50000	-0.16354	15.130	-656.16E-6	-0.92801	2.4246E-6
8.00000	-10.00000	15.50000	-0.17524	15.130	-673.86E-6	-0.94972	2.4812E-6
9.00000	-10.00000	15.50000	-0.18447	15.130	-687.20E-6	-0.96726	2.5271E-6
10.00000	-10.00000	15.50000	-0.19123	15.130	-696.50E-6	-0.98	

Job No.	Sheet No.	Rev.
J15249		
Dr. Ref.		
Made by	Date	Checked
MP		

Name	Location	Z [Level] [m]	Z [mm]	Calc Level [mOD]	Stresses		Vert Strain [-]
					Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	
38.00000	-10.00000	15.50000	0.11930	15.130	-145.82E-6	-0.36476	0.0
39.00000	-10.00000	15.50000	0.12943	15.130	-124.82E-6	-0.33689	0.0
40.00000	-10.00000	15.50000	0.13818	15.130	-106.49E-6	-0.31092	0.0
41.00000	-10.00000	15.50000	0.14554	15.130	-90.725E-6	-0.28688	0.0
42.00000	-10.00000	15.50000	0.15154	15.130	-77.293E-6	-0.26477	0.0
43.00000	-10.00000	15.50000	0.15692	15.130	-65.923E-6	-0.24448	0.0
44.00000	-10.00000	15.50000	0.15971	15.130	-56.340E-6	-0.22593	0.0
45.00000	-10.00000	15.50000	0.16207	15.130	-48.274E-6	-0.20900	0.0
46.00000	-10.00000	15.50000	0.16343	15.130	-41.487E-6	-0.19354	0.0
47.00000	-10.00000	15.50000	0.16389	15.130	-35.770E-6	-0.17945	0.0
48.00000	-10.00000	15.50000	0.16392	15.130	-30.946E-6	-0.16658	0.0
49.00000	-10.00000	15.50000	0.16256	15.130	-26.865E-6	-0.15484	0.0
50.00000	-10.00000	15.50000	0.16097	15.130	-23.401E-6	-0.14412	0.0
51.00000	-10.00000	15.50000	0.15888	15.130	-20.453E-6	-0.13431	0.0
52.00000	-10.00000	15.50000	0.15639	15.130	-17.935E-6	-0.12533	0.0
53.00000	-10.00000	15.50000	0.15384	15.130	-15.777E-6	-0.11709	0.0
54.00000	-10.00000	15.50000	0.15045	15.130	-13.922E-6	-0.10954	0.0
55.00000	-10.00000	15.50000	0.14714	15.130	-12.321E-6	-0.10259	0.0
-25.00000	-9.00000	15.50000	0.15337	15.130	-12.059E-6	-0.10550	0.0
-24.00000	-9.00000	15.50000	0.15707	15.130	-13.590E-6	-0.11271	0.0
-23.00000	-9.00000	15.50000	0.16056	15.130	-15.338E-6	-0.12057	0.0
-22.00000	-9.00000	15.50000	0.16378	15.130	-17.409E-6	-0.12915	0.0
-21.00000	-9.00000	15.50000	0.16666	15.130	-19.795E-6	-0.13853	0.0
-20.00000	-9.00000	15.50000	0.16911	15.130	-22.582E-6	-0.14879	0.0
-19.00000	-9.00000	15.50000	0.17104	15.130	-25.849E-6	-0.16006	0.0
-18.00000	-9.00000	15.50000	0.17232	15.130	-29.696E-6	-0.17243	0.0
-17.00000	-9.00000	15.50000	0.17284	15.130	-34.244E-6	-0.18604	0.0
-16.00000	-9.00000	15.50000	0.17244	15.130	-39.643E-6	-0.20104	0.0
-15.00000	-9.00000	15.50000	0.17098	15.130	-46.080E-6	-0.21761	0.0
-14.00000	-9.00000	15.50000	0.16828	15.130	-53.786E-6	-0.23592	0.0
-13.00000	-9.00000	15.50000	0.16414	15.130	-63.051E-6	-0.25618	0.0
-12.00000	-9.00000	15.50000	0.15837	15.130	-74.229E-6	-0.27864	0.0
-11.00000	-9.00000	15.50000	0.15074	15.130	-87.761E-6	-0.30353	0.0
-10.00000	-9.00000	15.50000	0.14104	15.130	-104.18E-6	-0.33114	0.0
-9.00000	-9.00000	15.50000	0.12907	15.130	-124.33E-6	-0.36174	0.0
-8.00000	-9.00000	15.50000	0.11463	15.130	-148.36E-6	-0.39560	1.0355E-6
-7.00000	-9.00000	15.50000	0.097566	15.130	-177.69E-6	-0.43296	1.1332E-6
-6.00000	-9.00000	15.50000	0.077795	15.130	-212.99E-6	-0.47401	1.2404E-6
-5.00000	-9.00000	15.50000	0.055313	15.130	-255.03E-6	-0.51882	1.3573E-6
-4.00000	-9.00000	15.50000	0.030233	15.130	-304.06E-6	-0.56728	1.4836E-6
-3.00000	-9.00000	15.50000	0.0028105	15.130	-361.00E-6	-0.61907	1.6185E-6
-2.00000	-9.00000	15.50000	-0.026545	15.130	-424.27E-6	-0.67356	1.7606E-6
-1.00000	-9.00000	15.50000	-0.057270	15.130	-492.60E-6	-0.72987	1.9073E-6
0.00000	-9.00000	15.50000	-0.088681	15.130	-563.59E-6	-0.78622	2.0556E-6
1.00000	-9.00000	15.50000	-0.12402	15.130	-634.14E-6	-0.84313	2.2022E-6
2.00000	-9.00000	15.50000	-0.15051	15.130	-701.92E-6	-0.89746	2.3437E-6
3.00000	-9.00000	15.50000	-0.17946	15.130	-763.90E-6	-0.94865	2.4770E-6
4.00000	-9.00000	15.50000	-0.20626	15.130	-818.68E-6	-0.99574	2.5997E-6
5.00000	-9.00000	15.50000	-0.23046	15.130	-865.49E-6	-1.0381	2.7101E-6
6.00000	-9.00000	15.50000	-0.25172	15.130	-904.28E-6	-1.0753	2.8070E-6
7.00000	-9.00000	15.50000	-0.26986	15.130	-935.46E-6	-1.1071	2.8901E-6
8.00000	-9.00000	15.50000	-0.28479	15.130	-959.66E-6	-1.1336	2.9591E-6
9.00000	-9.00000	15.50000	-0.29650	15.130	-977.54E-6	-1.1547	3.0143E-6
10.00000	-9.00000	15.50000	-0.30502	15.130	-989.67E-6	-1.1706	3.0559E-6
11.00000	-9.00000	15.50000	-0.31044	15.130	-996.52E-6	-1.1815	3.0842E-6
12.00000	-9.00000	15.50000	-0.31283	15.130	-998.38E-6	-1.1873	3.0996E-6
13.00000	-9.00000	15.50000	-0.31233	15.130	-995.38E-6	-1.1884	3.1023E-6
14.00000	-9.00000	15.50000	-0.30904	15.130	-987.55E-6	-1.1847	3.0928E-6
15.00000	-9.00000	15.50000	-0.30311	15.130	-974.86E-6	-1.1764	3.0713E-6
16.00000	-9.00000	15.50000	-0.29471	15.130	-957.31E-6	-1.1638	3.0384E-6
17.00000	-9.00000	15.50000	-0.28406	15.130	-935.04E-6	-1.1470	2.9947E-6
18.00000	-9.00000	15.50000	-0.27139	15.130	-908.43E-6	-1.1264	2.9410E-6
19.00000	-9.00000	15.50000	-0.25700	15.130	-878.22E-6	-1.1024	2.8786E-6
20.00000	-9.00000	15.50000	-0.24118	15.130	-845.43E-6	-1.0755	2.8087E-6
21.00000	-9.00000	15.50000	-0.22426	15.130	-811.24E-6	-1.0464	2.7321E-6
22.00000	-9.00000	15.50000	-0.20653	15.130	-776.80E-6	-1.0154	2.6520E-6
23.00000	-9.00000	15.50000	-0.18822	15.130	-742.97E-6	-0.98306	2.5676E-6
24.00000	-9.00000	15.50000	-0.16953	15.130	-710.15E-6	-0.94964	2.4805E-6
25.00000	-9.00000	15.50000	-0.15056	15.130	-678.33E-6	-0.91530	2.3909E-6
26.00000	-9.00000	15.50000	-0.13134	15.130	-647.09E-6	-0.88008	2.2989E-6
27.00000	-9.00000	15.50000	-0.11189	15.130	-615.75E-6	-0.84390	2.2045E-6
28.00000	-9.00000	15.50000	-0.092158	15.130	-583.50E-6	-0.80667	2.1073E-6
29.00000	-9.00000	15.50000	-0.072131	15.130	-549.54E-6	-0.76828	2.0072E-6
30.00000	-9.00000	15.50000	-0.051815	15.130	-513.21E-6	-0.72871	1.9039E-6
31.00000	-9.00000	15.50000	-0.031276	15.130	-474.13E-6	-0.68801	1.7973E-6
32.00000	-9.00000	15.50000	-0.010652	15.130	-432.50E-6	-0.64643	1.6893E-6
33.00000	-9.00000	15.50000	0.0098441	15.130	-388.86E-6	-0.60434	1.5795E-6
34.00000	-9.00000	15.50000	0.029931	15.130	-344.39E-6	-0.56227	1.4699E-6
35.00000	-9.00000	15.50000	0.049290	15.130	-300.56E-6	-0.52084	1.3619E-6
36.00000	-9.00000	15.50000	0.067998	15.130	-258.87E-6	-0.48059	1.2559E-6
37.00000	-9.00000	15.50000	0.084563	15.130	-220.55E-6	-0.44235	1.1572E-6
38.00000	-9.00000	15.50000	0.099955	15.130	-186.38E-6	-0.40625	1.0630E-6
39.00000	-9.00000	15.50000	0.11362	15.130	-156.68E-6	-0.37266	0.0
40.00000	-9.00000	15.50000	0.12548	15.130	-131.36E-6	-0.34170	0.0
41.00000	-9.00000	15.50000	0.13553	15.130	-110.09E-6	-0.31326	0.0
42.00000	-9.00000	15.50000	0.14382	15.130	-92.371E-6	-0.28755	0.0
43.00000	-9.00000	15.50000	0.15045	15.130	-77.697E-6	-0.26412	0.0
44.00000	-9.00000	15.50000	0.15555	15.130	-65.571E-6	-0.24290	0.0
45.00000	-9.00000	15.50000	0.15926	15.130	-55.550E-6	-0.22270	0.0
46.00000	-9.00000	15.50000	0.16171	15.130	-47.258E-6	-0.20632	0.0
47.00000	-9.00000	15.50000	0.16306	15.130	-40.376E-6	-0.19058	0.0
48.00000	-9.00000	15.50000	0.16346	15.130	-34.646E-6	-0.17632	0.0
49.00000	-9.00000	15.50000	0.16302	15.130	-29.856E-6	-0.16338	0.0
50.00000	-9.00000	15.50000	0.16188	15.130	-25.835E-6	-0.15163	0.0
51.00000	-9.00000	15.50000	0.16014	15.130	-22.445E-6	-0.14094	0.0
52.00000	-9.00000	15.50000	0.15790	15.130	-19.576E-6	-0.13119	0.0
53.00000	-9.00000	15.50000	0.15526	15.130	-17.136E-6	-0.12230	0.0
54.00000	-9.00000	15.50000	0.15229	15.130	-15.052E-6	-0.11417	0.0
55.00000	-9.00000	15.50000	0.14906	15.130	-13.267E-6	-0.10673	0.0
-15.00000	-8.00000	15.50000	0.14919	15.130	-12.854E-6	-0.10940	0.0
-24.00000	-8.00000	15.50000	0.15917	15.130	-14.532E-6	-0.11707	0.0
-23.00000	-8.00000	15.50000	0.16258	15.130	-16.479E-6	-0.12546	0.0
-22.00000	-8.00000	15.50000	0.16568	15.130	-18.749E-6	-0.13465	0.0
-21.00000	-8.00000	15.50000	0.16837	15.130	-21.405E-6	-0.14473	0.0
-20.00000	-8.00000	15.50000	0.17055	15.130	-24.526E-6	-0.15590	0.0
-19.00000	-8.00000	15.50000	0.17212	15.130	-28.211E-6	-0.16800	0.0
-18.00000	-8.00000	15.50000	0.17294	15.130	-32.582E-6	-0.18146	0.0
-17.00000	-8.00000	15.50000	0.17285	15.130	-37.792E-6	-0.19635	0.0
-16.00000	-8.00000	15.50000	0.17169	15.130	-44.036E-6	-0.21284	0.0
-15.00000	-8.00000	15.50000	0.16927	15.130	-51.556E-6	-0.23116	0.0
-14.00000	-8.00000	15.50000	0.16535	15.130	-60.665E-6	-0.25154	0.0
-13.00000	-8.00000	15.50000	0.15971	15.130	-71.759E-6	-0.27427	0.0
-12.00000	-8.00000	15.50000	0.15207	15.130	-85.343E-6	-0.29966	0.0
-11.00000	-8.00000	15.50000	0.14216	15.130	-102.06E-6	-0.32806	0.0
-10.00000	-8.00000	15.50000	0.12949	15.130	-122.73E-6	-0.35948	0.0
-9.00000	-8.00000	15.50000	0.11436	15.1			



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Dr. Ref.		
Made by	Date	Checked
MP		

Name	Location		Z [Level] [mm]	Z [mm]	Stresses			
	X [m]	Y [m]			Calc Level [mOD]	Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
17.00000	-8.00000	15.50000	-0.42090	15.130	-0.0013686	-1.3818	3.6041E-6	
18.00000	-8.00000	15.50000	-0.40437	15.130	-0.0013266	-1.3547	3.5335E-6	
19.00000	-8.00000	15.50000	-0.38561	15.130	-0.0012786	-1.3232	3.4518E-6	
20.00000	-8.00000	15.50000	-0.36505	15.130	-0.0012263	-1.2883	3.3608E-6	
21.00000	-8.00000	15.50000	-0.34312	15.130	-0.0011724	-1.2506	3.2629E-6	
22.00000	-8.00000	15.50000	-0.32026	15.130	-0.0011191	-1.2111	3.1600E-6	
23.00000	-8.00000	15.50000	-0.29680	15.130	-0.0010681	-1.1704	3.0540E-6	
24.00000	-8.00000	15.50000	-0.27298	15.130	-0.0010201	-1.1288	2.9457E-6	
25.00000	-8.00000	15.50000	-0.24890	15.130	-974.89E-6	-1.0866	2.8356E-6	
26.00000	-8.00000	15.50000	-0.22460	15.130	-931.47E-6	-1.0436	2.7236E-6	
27.00000	-8.00000	15.50000	-0.20002	15.130	-888.09E-6	-0.9996	2.6099E-6	
28.00000	-8.00000	15.50000	-0.17501	15.130	-843.92E-6	-0.9544	2.4910E-6	
29.00000	-8.00000	15.50000	-0.14952	15.130	-796.41E-6	-0.9076	2.3689E-6	
30.00000	-8.00000	15.50000	-0.12351	15.130	-744.35E-6	-0.8590	2.2423E-6	
31.00000	-8.00000	15.50000	-0.097001	15.130	-686.82E-6	-0.8086	2.1109E-6	
32.00000	-8.00000	15.50000	-0.070174	15.130	-623.75E-6	-0.7567	1.9765E-6	
33.00000	-8.00000	15.50000	-0.043320	15.130	-556.23E-6	-0.7037	1.8376E-6	
34.00000	-8.00000	15.50000	-0.016845	15.130	-486.51E-6	-0.6503	1.6992E-6	
35.00000	-8.00000	15.50000	0.0087737	15.130	-417.61E-6	-0.5981	1.5628E-6	
36.00000	-8.00000	15.50000	0.033052	15.130	-352.60E-6	-0.5475	1.4312E-6	
37.00000	-8.00000	15.50000	0.055560	15.130	-293.87E-6	-0.4987	1.3069E-6	
38.00000	-8.00000	15.50000	0.075970	15.130	-242.76E-6	-0.4506	1.1901E-6	
39.00000	-8.00000	15.50000	0.094078	15.130	-199.57E-6	-0.4106	1.0833E-6	
40.00000	-8.00000	15.50000	0.10980	15.130	-163.82E-6	-0.3767	0.0	
41.00000	-8.00000	15.50000	0.12316	15.130	-134.64E-6	-0.3430	0.0	
42.00000	-8.00000	15.50000	0.14424	15.130	-111.02E-6	-0.3121	0.0	
43.00000	-8.00000	15.50000	0.14321	15.130	-91.905E-6	-0.2855	0.0	
44.00000	-8.00000	15.50000	0.15023	15.130	-76.484E-6	-0.2613	0.0	
45.00000	-8.00000	15.50000	0.15552	15.130	-63.999E-6	-0.2395	0.0	
46.00000	-8.00000	15.50000	0.15926	15.130	-53.853E-6	-0.2194	0.0	
47.00000	-8.00000	15.50000	0.16165	15.130	-45.567E-6	-0.2023	0.0	
48.00000	-8.00000	15.50000	0.16288	15.130	-38.766E-6	-0.1865	0.0	
49.00000	-8.00000	15.50000	0.16310	15.130	-33.151E-6	-0.1723	0.0	
50.00000	-8.00000	15.50000	0.16248	15.130	-28.491E-6	-0.1594	0.0	
51.00000	-8.00000	15.50000	0.16114	15.130	-24.601E-6	-0.1478	0.0	
52.00000	-8.00000	15.50000	0.15921	15.130	-21.337E-6	-0.1374	0.0	
53.00000	-8.00000	15.50000	0.15679	15.130	-18.584E-6	-0.1276	0.0	
54.00000	-8.00000	15.50000	0.15399	15.130	-16.251E-6	-0.1189	0.0	
55.00000	-8.00000	15.50000	0.15087	15.130	-14.264E-6	-0.1109	0.0	
-25.00000	-7.00000	15.50000	0.15756	15.130	-13.677E-6	-0.1133	0.0	
-24.00000	-7.00000	15.50000	0.15316	15.130	-15.510E-6	-0.1214	0.0	
-23.00000	-7.00000	15.50000	0.16447	15.130	-17.648E-6	-0.1304	0.0	
-22.00000	-7.00000	15.50000	0.16741	15.130	-20.153E-6	-0.1402	0.0	
-21.00000	-7.00000	15.50000	0.16988	15.130	-23.100E-6	-0.1510	0.0	
-20.00000	-7.00000	15.50000	0.17177	15.130	-26.585E-6	-0.1629	0.0	
-19.00000	-7.00000	15.50000	0.17293	15.130	-30.726E-6	-0.1761	0.0	
-18.00000	-7.00000	15.50000	0.17323	15.130	-35.676E-6	-0.1907	0.0	
-17.00000	-7.00000	15.50000	0.17247	15.130	-41.625E-6	-0.2070	0.0	
-16.00000	-7.00000	15.50000	0.17044	15.130	-48.820E-6	-0.2251	0.0	
-15.00000	-7.00000	15.50000	0.16692	15.130	-57.576E-6	-0.2456	0.0	
-14.00000	-7.00000	15.50000	0.16163	15.130	-68.313E-6	-0.2680	0.0	
-13.00000	-7.00000	15.50000	0.15427	15.130	-81.563E-6	-0.2934	0.0	
-12.00000	-7.00000	15.50000	0.14451	15.130	-98.037E-6	-0.3221	0.0	
-11.00000	-7.00000	15.50000	0.13198	15.130	-118.67E-6	-0.3545	0.0	
-10.00000	-7.00000	15.50000	0.11628	15.130	-144.70E-6	-0.3912	1.0242E-6	
-9.00000	-7.00000	15.50000	0.097003	15.130	-177.74E-6	-0.4328	1.1329E-6	
-8.00000	-7.00000	15.50000	0.073740	15.130	-219.92E-6	-0.4801	1.2562E-6	
-7.00000	-7.00000	15.50000	0.046105	15.130	-273.94E-6	-0.5330	1.3963E-6	
-6.00000	-7.00000	15.50000	0.013786	15.130	-343.09E-6	-0.5969	1.5549E-6	
-5.00000	-7.00000	15.50000	-0.02402	15.130	-431.18E-6	-0.6742	1.7339E-6	
-4.00000	-7.00000	15.50000	-0.065446	15.130	-541.98E-6	-0.7404	1.9342E-6	
-3.00000	-7.00000	15.50000	-0.11204	15.130	-678.24E-6	-0.8255	2.1554E-6	
-2.00000	-7.00000	15.50000	-0.16254	15.130	-840.10E-6	-0.9179	2.3953E-6	
-1.00000	-7.00000	15.50000	-0.21589	15.130	-0.0010234	-1.0158	2.6491E-6	
0.00000	-7.00000	15.50000	-0.27059	15.130	-0.0012190	-1.1163	2.9097E-6	
1.00000	-7.00000	15.50000	-0.32533	15.130	-0.0014142	-1.2159	3.1681E-6	
2.00000	-7.00000	15.50000	-0.37821	15.130	-0.0015965	-1.3114	3.4156E-6	
3.00000	-7.00000	15.50000	-0.42787	15.130	-0.0017567	-1.3998	3.6450E-6	
4.00000	-7.00000	15.50000	-0.47323	15.130	-0.0018904	-1.4791	3.8512E-6	
5.00000	-7.00000	15.50000	-0.51355	15.130	-0.0019977	-1.5496	4.0317E-6	
6.00000	-7.00000	15.50000	-0.54842	15.130	-0.0020813	-1.6079	4.1859E-6	
7.00000	-7.00000	15.50000	-0.57771	15.130	-0.0021446	-1.6572	4.3145E-6	
8.00000	-7.00000	15.50000	-0.60145	15.130	-0.0021911	-1.6971	4.4184E-6	
9.00000	-7.00000	15.50000	-0.61978	15.130	-0.0022237	-1.7281	4.4993E-6	
10.00000	-7.00000	15.50000	-0.63288	15.130	-0.0022446	-1.7507	4.5582E-6	
11.00000	-7.00000	15.50000	-0.64097	15.130	-0.0022551	-1.7653	4.5963E-6	
12.00000	-7.00000	15.50000	-0.64422	15.130	-0.0022560	-1.7722	4.6143E-6	
13.00000	-7.00000	15.50000	-0.64281	15.130	-0.0022472	-1.7715	4.6126E-6	
14.00000	-7.00000	15.50000	-0.63697	15.130	-0.0022281	-1.7633	4.5915E-6	
15.00000	-7.00000	15.50000	-0.62669	15.130	-0.0021978	-1.7478	4.5511E-6	
16.00000	-7.00000	15.50000	-0.61234	15.130	-0.0021550	-1.7249	4.4918E-6	
17.00000	-7.00000	15.50000	-0.59418	15.130	-0.0020988	-1.6949	4.4140E-6	
18.00000	-7.00000	15.50000	-0.57258	15.130	-0.0020294	-1.6583	4.3191E-6	
19.00000	-7.00000	15.50000	-0.54806	15.130	-0.0019485	-1.6160	4.2095E-6	
20.00000	-7.00000	15.50000	-0.52124	15.130	-0.0018603	-1.5692	4.0880E-6	
21.00000	-7.00000	15.50000	-0.49277	15.130	-0.0017699	-1.5193	3.9586E-6	
22.00000	-7.00000	15.50000	-0.46327	15.130	-0.0016826	-1.4677	3.8246E-6	
23.00000	-7.00000	15.50000	-0.43324	15.130	-0.0016019	-1.4155	3.6887E-6	
24.00000	-7.00000	15.50000	-0.40298	15.130	-0.0015292	-1.3631	3.5523E-6	
25.00000	-7.00000	15.50000	-0.37262	15.130	-0.0014633	-1.3107	3.4158E-6	
26.00000	-7.00000	15.50000	-0.34209	15.130	-0.0014020	-1.2579	3.2784E-6	
27.00000	-7.00000	15.50000	-0.31124	15.130	-0.0013420	-1.2042	3.1385E-6	
28.00000	-7.00000	15.50000	-0.27984	15.130	-0.0012800	-1.1490	2.9945E-6	
29.00000	-7.00000	15.50000	-0.24766	15.130	-0.0012124	-1.0914	2.8446E-6	
30.00000	-7.00000	15.50000	-0.21486	15.130	-0.0011387	-1.0311	2.6875E-6	
31.00000	-7.00000	15.50000	-0.18053	15.130	-0.0010477	-0.9676	2.5225E-6	
32.00000	-7.00000	15.50000	-0.14576	15.130	-947.38E-6	-0.9014	2.3502E-6	
33.00000	-7.00000	15.50000	-0.11065	15.130	-836.66E-6	-0.8330	2.1726E-6	
34.00000	-7.00000	15.50000	-0.075818	15.130	-720.22E-6	-0.7639	1.9931E-6	
35.00000	-7.00000	15.50000	-0.041901	15.130	-604.94E-6	-0.6936	1.8158E-6	
36.00000	-7.00000	15.50000	-0.0099130	15.130	-497.34E-6	-0.6304	1.6464E-6	
37.00000	-7.00000	15.50000	0.019771	15.130	-402.68E-6	-0.5692	1.4872E-6	
38.00000	-7.00000	15.50000	0.046597	15.130	-323.03E-6	-0.5130	1.3410E-6	
39.00000	-7.00000	15.50000	0.070304	15.130	-258.21E-6	-0.4622	1.2088E-6	
40.00000	-7.00000	15.50000	0.090817	15.130	-206.56E-6	-0.4168	1.0905E-6	
41.00000	-7.00000	15.50000	0.10821	15.130	-165.89E-6	-0.3765	0.0	
42.00000	-7.00000	15.50000	0.12266	15.130	-134.01E-6	-0.3407	0.0	
43.00000	-7.00000	15.50000	0.13440	15.130	-109.01E-6	-0.3091	0.0	
44.00000	-7.00000	15.50000	0.14369	15.130	-89.336E-6	-0.2812	0.0	
45.00000	-7.00000	15.50000	0.15082	15.130	-73.760E-6	-0.2564	0.0	
46.00000	-7.00000	15.50000	0.15606	15.130				

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Dr. Ref.		
Made by	Date	Checked
MP		

Name	Location		Z [Level] [mm]	Z [mm]	Stresses			Vert Strain [-]
	X [m]	Y [m]			Calc Level [mOD]	Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	
-4.00000	-6.00000	15.50000	-0.12865	15.130	-747.29E-6	-0.85540	2.2326E-6	
-3.00000	-6.00000	15.50000	-0.18923	15.130	-972.59E-6	-0.96806	2.5247E-6	
-2.00000	-6.00000	15.50000	-0.25555	15.130	-0.0012538	-1.0933	2.8489E-6	
-1.00000	-6.00000	15.50000	-0.32618	15.130	-0.0015854	-1.2286	3.1987E-6	
0.00000	-6.00000	15.50000	-0.39907	15.130	-0.0019474	-1.3692	3.5618E-6	
1.00000	-6.00000	15.50000	-0.47175	15.130	-0.0023030	-1.5089	3.9227E-6	
2.00000	-6.00000	15.50000	-0.54176	15.130	-0.0026394	-1.6415	4.2655E-6	
3.00000	-6.00000	15.50000	-0.60701	15.130	-0.0029187	-1.7624	4.5781E-6	
4.00000	-6.00000	15.50000	-0.66598	15.130	-0.0031410	-1.8687	4.8536E-6	
5.00000	-6.00000	15.50000	-0.71781	15.130	-0.0033109	-1.9597	5.0896E-6	
6.00000	-6.00000	15.50000	-0.76215	15.130	-0.0034371	-2.0257	5.2870E-6	
7.00000	-6.00000	15.50000	-0.79901	15.130	-0.0035288	-2.0977	5.4485E-6	
8.00000	-6.00000	15.50000	-0.82859	15.130	-0.0035939	-2.1470	5.5768E-6	
9.00000	-6.00000	15.50000	-0.85122	15.130	-0.0036382	-2.1847	5.6749E-6	
10.00000	-6.00000	15.50000	-0.86724	15.130	-0.0036656	-2.2116	5.7451E-6	
11.00000	-6.00000	15.50000	-0.87695	15.130	-0.0036786	-2.2285	5.7918E-6	
12.00000	-6.00000	15.50000	-0.88061	15.130	-0.0036780	-2.2356	5.8079E-6	
13.00000	-6.00000	15.50000	-0.87842	15.130	-0.0036637	-2.2333	5.8021E-6	
14.00000	-6.00000	15.50000	-0.87056	15.130	-0.0036339	-2.2215	5.7716E-6	
15.00000	-6.00000	15.50000	-0.85717	15.130	-0.0035862	-2.2000	5.7159E-6	
16.00000	-6.00000	15.50000	-0.83845	15.130	-0.0035168	-2.1687	5.6347E-6	
17.00000	-6.00000	15.50000	-0.81469	15.130	-0.0034222	-2.1274	5.5281E-6	
18.00000	-6.00000	15.50000	-0.78635	15.130	-0.0033007	-2.0768	5.3972E-6	
19.00000	-6.00000	15.50000	-0.75413	15.130	-0.0031548	-2.0181	5.2453E-6	
20.00000	-6.00000	15.50000	-0.71892	15.130	-0.0029931	-1.9531	5.0775E-6	
21.00000	-6.00000	15.50000	-0.68175	15.130	-0.0028288	-1.8847	4.9008E-6	
22.00000	-6.00000	15.50000	-0.64356	15.130	-0.0026749	-1.8152	4.7205E-6	
23.00000	-6.00000	15.50000	-0.60508	15.130	-0.0025396	-1.7465	4.5423E-6	
24.00000	-6.00000	15.50000	-0.56675	15.130	-0.0024242	-1.6793	4.3679E-6	
25.00000	-6.00000	15.50000	-0.52853	15.130	-0.0023255	-1.6133	4.1968E-6	
26.00000	-6.00000	15.50000	-0.49056	15.130	-0.0022375	-1.5483	4.0291E-6	
27.00000	-6.00000	15.50000	-0.45218	15.130	-0.0021534	-1.4824	3.8556E-6	
28.00000	-6.00000	15.50000	-0.41303	15.130	-0.0020660	-1.4146	3.6790E-6	
29.00000	-6.00000	15.50000	-0.37268	15.130	-0.0019679	-1.3433	3.4935E-6	
30.00000	-6.00000	15.50000	-0.33079	15.130	-0.0018516	-1.2674	3.2962E-6	
31.00000	-6.00000	15.50000	-0.28723	15.130	-0.0017105	-1.1860	3.0850E-6	
32.00000	-6.00000	15.50000	-0.24219	15.130	-0.0015410	-1.0993	2.8600E-6	
33.00000	-6.00000	15.50000	-0.19624	15.130	-0.0013453	-1.0081	2.6240E-6	
34.00000	-6.00000	15.50000	-0.15029	15.130	-0.0011341	-0.91503	2.3830E-6	
35.00000	-6.00000	15.50000	-0.10551	15.130	-924.23E-6	-0.82331	2.1451E-6	
36.00000	-6.00000	15.50000	-0.063098	15.130	-732.63E-6	-0.73563	1.9018E-6	
37.00000	-6.00000	15.50000	-0.024032	15.130	-570.29E-6	-0.65503	1.7097E-6	
38.00000	-6.00000	15.50000	0.011033	15.130	-440.16E-6	-0.58262	1.5217E-6	
39.00000	-6.00000	15.50000	0.041788	15.130	-339.53E-6	-0.51865	1.3555E-6	
40.00000	-6.00000	15.50000	0.066418	15.130	-263.21E-6	-0.46271	1.2099E-6	
41.00000	-6.00000	15.50000	0.095007	15.130	-205.72E-6	-0.41403	1.0831E-6	
42.00000	-6.00000	15.50000	0.10897	15.130	-162.37E-6	-0.37168	0.0	
43.00000	-6.00000	15.50000	0.12397	15.130	-129.51E-6	-0.33482	0.0	
44.00000	-6.00000	15.50000	0.13590	15.130	-104.37E-6	-0.30264	0.0	
45.00000	-6.00000	15.50000	0.14516	15.130	-84.95E-6	-0.27445	0.0	
46.00000	-6.00000	15.50000	0.15209	15.130	-69.795E-6	-0.24958	0.0	
47.00000	-6.00000	15.50000	0.15703	15.130	-57.844E-6	-0.22781	0.0	
48.00000	-6.00000	15.50000	0.16029	15.130	-48.326E-6	-0.20845	0.0	
49.00000	-6.00000	15.50000	0.16211	15.130	-40.675E-6	-0.19124	0.0	
50.00000	-6.00000	15.50000	0.16274	15.130	-34.465E-6	-0.17508	0.0	
51.00000	-6.00000	15.50000	0.16237	15.130	-29.393E-6	-0.16214	0.0	
52.00000	-6.00000	15.50000	0.16118	15.130	-25.210E-6	-0.14979	0.0	
53.00000	-6.00000	15.50000	0.15932	15.130	-21.738E-6	-0.13868	0.0	
54.00000	-6.00000	15.50000	0.15692	15.130	-18.837E-6	-0.12864	0.0	
55.00000	-6.00000	15.50000	0.15408	15.130	-16.398E-6	-0.11955	0.0	
-25.00000	-5.00000	15.50000	0.16131	15.130	-15.388E-6	-0.12124	0.0	
-24.00000	-5.00000	15.50000	0.16475	15.130	-17.556E-6	-0.13039	0.0	
-23.00000	-5.00000	15.50000	0.16781	15.130	-20.107E-6	-0.14048	0.0	
-22.00000	-5.00000	15.50000	0.17038	15.130	-23.124E-6	-0.15162	0.0	
-21.00000	-5.00000	15.50000	0.17233	15.130	-26.713E-6	-0.16398	0.0	
-20.00000	-5.00000	15.50000	0.17352	15.130	-31.005E-6	-0.17771	0.0	
-19.00000	-5.00000	15.50000	0.17376	15.130	-36.174E-6	-0.19302	0.0	
-18.00000	-5.00000	15.50000	0.17283	15.130	-42.441E-6	-0.21015	0.0	
-17.00000	-5.00000	15.50000	0.17050	15.130	-50.096E-6	-0.22936	0.0	
-16.00000	-5.00000	15.50000	0.16647	15.130	-59.524E-6	-0.25101	0.0	
-15.00000	-5.00000	15.50000	0.16040	15.130	-71.241E-6	-0.27549	0.0	
-14.00000	-5.00000	15.50000	0.15189	15.130	-85.944E-6	-0.30330	0.0	
-13.00000	-5.00000	15.50000	0.14048	15.130	-104.59E-6	-0.33503	0.0	
-12.00000	-5.00000	15.50000	0.12564	15.130	-128.51E-6	-0.37141	0.0	
-11.00000	-5.00000	15.50000	0.10675	15.130	-159.60E-6	-0.41335	1.0820E-6	
-10.00000	-5.00000	15.50000	0.083139	15.130	-200.52E-6	-0.46196	1.2089E-6	
-9.00000	-5.00000	15.50000	0.054020	15.130	-255.20E-6	-0.51863	1.3567E-6	
-8.00000	-5.00000	15.50000	0.018550	15.130	-329.33E-6	-0.58506	1.5299E-6	
-7.00000	-5.00000	15.50000	-0.024165	15.130	-431.31E-6	-0.66337	1.7337E-6	
-6.00000	-5.00000	15.50000	-0.075015	15.130	-573.48E-6	-0.75607	1.9748E-6	
-5.00000	-5.00000	15.50000	-0.13479	15.130	-773.49E-6	-0.86607	2.2602E-6	
-4.00000	-5.00000	15.50000	-0.20403	15.130	-0.0010553	-0.99633	2.5975E-6	
-3.00000	-5.00000	15.50000	-0.28278	15.130	-0.0014471	-1.1492	2.9926E-6	
-2.00000	-5.00000	15.50000	-0.37024	15.130	-0.0019727	-1.3252	3.4461E-6	
-1.00000	-5.00000	15.50000	-0.46450	15.130	-0.0026316	-1.5210	3.9949E-6	
0.00000	-5.00000	15.50000	-0.56246	15.130	-0.0033777	-1.7282	4.4812E-6	
1.00000	-5.00000	15.50000	-0.66017	15.130	-0.0041234	-1.9344	5.0104E-6	
2.00000	-5.00000	15.50000	-0.75366	15.130	-0.0047809	-2.1273	5.5062E-6	
3.00000	-5.00000	15.50000	-0.83978	15.130	-0.0053042	-2.2994	5.9469E-6	
4.00000	-5.00000	15.50000	-0.91652	15.130	-0.0056927	-2.4449	6.3237E-6	
5.00000	-5.00000	15.50000	-0.98300	15.130	-0.0059698	-2.5654	6.6370E-6	
6.00000	-5.00000	15.50000	-1.0391	15.130	-0.0061636	-2.6637	6.8920E-6	
7.00000	-5.00000	15.50000	-1.0851	15.130	-0.0062975	-2.7421	7.0956E-6	
8.00000	-5.00000	15.50000	-1.1217	15.130	-0.0063887	-2.8031	7.2542E-6	
9.00000	-5.00000	15.50000	-1.1494	15.130	-0.0064486	-2.8489	7.3732E-6	
10.00000	-5.00000	15.50000	-1.1688	15.130	-0.0064844	-2.8808	7.4566E-6	
11.00000	-5.00000	15.50000	-1.1803	15.130	-0.0065002	-2.9002	7.5072E-6	
12.00000	-5.00000	15.50000	-1.1843	15.130	-0.0064972	-2.9075	7.5265E-6	
13.00000	-5.00000	15.50000	-1.1811	15.130	-0.0064745	-2.9029	7.5147E-6	
14.00000	-5.00000	15.50000	-1.1707	15.130	-0.0064284	-2.8860	7.4718E-6	
15.00000	-5.00000	15.50000	-1.1532	15.130	-0.0063525	-2.8563	7.3943E-6	
16.00000	-5.00000	15.50000	-1.1288	15.130	-0.0062370	-2.8128	7.2819E-6	
17.00000	-5.00000	15.50000	-1.0977	15.130	-0.0060703	-2.7548	7.1325E-6	
18.00000	-5.00000	15.50000	-1.0603	15.130	-0.0058420	-2.6824	6.9460E-6	
19.00000	-5.00000	15.50000	-1.0176	15.130	-0.0055527	-2.5970	6.7265E-6	
20.00000	-5.00000	15.50000	-0.97086	15.130	-0.0052221	-2.5023	6.4833E-6	
21.00000	-5.00000	15.50000	-0.92184	15.130	-0.0048885	-2.4036	6.2295E-6	
22.00000	-5.00000	15.50000	-0.87204	15.130	-0.0045894	-2.3059	5.9779E-6	
23.00000	-5.00000	15.50000	-0.82261	15.130	-0.0043442	-2.2126	5.7370E-6	
24.00000	-5.00000	15.50000	-0.77409	15.130	-0.0041315	-2.1246	5.5093E-6	
25.00000	-5.00000	15.50000	-0.72646	15.130	-0.0039989	-2.0411	5.2924E-6	
26.00000	-5.00000	15.50000	-0.67931	15.130	-0.0038708	-1.9600	5.0817E-6	
27.00000	-5.00000	15.50000	-0.63193	15.130	-0.0037521	-1.8790	4.8709E-6	
28.00000	-5.00000	15.50000	-0.58353	15.130	-0.0036281	-1.7953	4.6534E-6	
29.00000								



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Dr. Ref.		
Made by	Date	Checked
MP		

Name	Location	Z [Level] [m]	Stresses				
			Z [mm]	Calc Level [mOD]	Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
-25.00000	-4.00000	15.50000	0.16302	15.130	-16.266E-6	-0.12518	0.0
-24.00000	-4.00000	15.50000	0.16636	15.130	-18.611E-6	-0.13484	0.0
-23.00000	-4.00000	15.50000	0.16927	15.130	-21.382E-6	-0.14551	0.0
-22.00000	-4.00000	15.50000	0.17162	15.130	-24.673E-6	-0.15735	0.0
-21.00000	-4.00000	15.50000	0.17328	15.130	-28.608E-6	-0.17051	0.0
-20.00000	-4.00000	15.50000	0.17497	15.130	-33.341E-6	-0.18519	0.0
-19.00000	-4.00000	15.50000	0.17379	15.130	-39.074E-6	-0.20162	0.0
-18.00000	-4.00000	15.50000	0.17218	15.130	-46.072E-6	-0.22007	0.0
-17.00000	-4.00000	15.50000	0.16897	15.130	-54.687E-6	-0.24088	0.0
-16.00000	-4.00000	15.50000	0.16380	15.130	-65.388E-6	-0.26445	0.0
-15.00000	-4.00000	15.50000	0.15629	15.130	-78.839E-6	-0.29126	0.0
-14.00000	-4.00000	15.50000	0.14595	15.130	-95.864E-6	-0.32192	0.0
-13.00000	-4.00000	15.50000	0.13222	15.130	-117.77E-6	-0.35717	0.0
-12.00000	-4.00000	15.50000	0.11444	15.130	-146.30E-6	-0.39795	1.0418E-6
-11.00000	-4.00000	15.50000	0.091847	15.130	-184.06E-6	-0.44544	1.1656E-6
-10.00000	-4.00000	15.50000	0.20453	15.130	-234.89E-6	-0.50116	1.3117E-6
-9.00000	-4.00000	15.50000	0.028498	15.130	-304.61E-6	-0.56707	1.4831E-6
-8.00000	-4.00000	15.50000	-0.014473	15.130	-402.28E-6	-0.64570	1.6878E-6
-7.00000	-4.00000	15.50000	-0.066685	15.130	-542.22E-6	-0.74037	1.9340E-6
-6.00000	-4.00000	15.50000	-0.12956	15.130	-747.48E-6	-0.85540	2.2326E-6
-5.00000	-4.00000	15.50000	-0.20453	15.130	-1001.55E-6	-0.99625	2.6266E-6
-4.00000	-4.00000	15.50000	-0.29286	15.130	-1300.52E-6	-1.1700	3.0457E-6
-3.00000	-4.00000	15.50000	-0.39529	15.130	-1652.44E-6	-1.3834	3.5945E-6
-2.00000	-4.00000	15.50000	-0.51140	15.130	-2063.18E-6	-1.6420	4.2561E-6
-1.00000	-4.00000	15.50000	-0.63884	15.130	-2640.61E-6	-1.9456	5.0239E-6
0.00000	-4.00000	15.50000	-0.77276	15.130	-3406.10E-6	-2.2725	6.0488E-6
1.00000	-4.00000	15.50000	-0.90638	15.130	-4383.95E-6	-2.6004	6.6908E-6
2.00000	-4.00000	15.50000	-1.0329	15.130	-5609.81E-6	-2.8989	7.4504E-6
3.00000	-4.00000	15.50000	-1.1474	15.130	-7121.95E-6	-3.1521	8.0980E-6
4.00000	-4.00000	15.50000	-1.2474	15.130	-8961.68E-6	-3.3579	8.6268E-6
5.00000	-4.00000	15.50000	-1.3323	15.130	-11181.33E-6	-3.5214	9.0488E-6
6.00000	-4.00000	15.50000	-1.4028	15.130	-13842.23E-6	-3.6495	9.3798E-6
7.00000	-4.00000	15.50000	-1.4599	15.130	-16997.29E-6	-3.7487	9.6369E-6
8.00000	-4.00000	15.50000	-1.5047	15.130	-20701.75E-6	-3.8240	9.8326E-6
9.00000	-4.00000	15.50000	-1.5382	15.130	-25012.86E-6	-3.8794	9.9765E-6
10.00000	-4.00000	15.50000	-1.5614	15.130	-30000.14E-6	-3.9173	10.075E-6
11.00000	-4.00000	15.50000	-1.5749	15.130	-35729.29E-6	-3.9395	10.133E-6
12.00000	-4.00000	15.50000	-1.5792	15.130	-42369.81E-6	-3.9466	10.152E-6
13.00000	-4.00000	15.50000	-1.5745	15.130	-49982.60E-6	-3.9388	10.132E-6
14.00000	-4.00000	15.50000	-1.5610	15.130	-58649.89E-6	-3.9151	10.071E-6
15.00000	-4.00000	15.50000	-1.5384	15.130	-68452.68E-6	-3.8740	9.9651E-6
16.00000	-4.00000	15.50000	-1.5067	15.130	-79481.47E-6	-3.8130	9.8082E-6
17.00000	-4.00000	15.50000	-1.4658	15.130	-91827.26E-6	-3.7295	9.5938E-6
18.00000	-4.00000	15.50000	-1.4161	15.130	-105692.05E-6	-3.6212	9.3173E-6
19.00000	-4.00000	15.50000	-1.3587	15.130	-121186.84E-6	-3.4894	8.9816E-6
20.00000	-4.00000	15.50000	-1.2957	15.130	-138422.63E-6	-3.3407	8.6040E-6
21.00000	-4.00000	15.50000	-1.2299	15.130	-157520.42E-6	-3.1875	8.2143E-6
22.00000	-4.00000	15.50000	-1.1642	15.130	-178681.21E-6	-3.0416	7.8421E-6
23.00000	-4.00000	15.50000	-1.1004	15.130	-202006.00E-6	-2.9096	7.5034E-6
24.00000	-4.00000	15.50000	-1.0385	15.130	-227704.79E-6	-2.7915	7.1989E-6
25.00000	-4.00000	15.50000	-0.97978	15.130	-255987.58E-6	-2.6841	6.9210E-6
26.00000	-4.00000	15.50000	-0.92182	15.130	-286965.37E-6	-2.5829	6.6584E-6
27.00000	-4.00000	15.50000	-0.86388	15.130	-320747.16E-6	-2.4831	6.3991E-6
28.00000	-4.00000	15.50000	-0.80458	15.130	-357434.95E-6	-2.3799	6.1311E-6
29.00000	-4.00000	15.50000	-0.74250	15.130	-407138.74E-6	-2.2693	5.8417E-6
30.00000	-4.00000	15.50000	-0.67639	15.130	-469968.53E-6	-2.1431	5.5179E-6
31.00000	-4.00000	15.50000	-0.60532	15.130	-547024.32E-6	-1.9992	5.1469E-6
32.00000	-4.00000	15.50000	-0.52905	15.130	-639506.11E-6	-1.8326	4.7198E-6
33.00000	-4.00000	15.50000	-0.44852	15.130	-748613.90E-6	-1.6441	4.2384E-6
34.00000	-4.00000	15.50000	-0.36507	15.130	-875447.69E-6	-1.4417	3.7236E-6
35.00000	-4.00000	15.50000	-0.28520	15.130	-1021107.48E-6	-1.2411	3.2132E-6
36.00000	-4.00000	15.50000	-0.20944	15.130	-1186693.27E-6	-1.0578	2.7455E-6
37.00000	-4.00000	15.50000	-0.14127	15.130	-1374205.06E-6	-0.90032	2.3419E-6
38.00000	-4.00000	15.50000	-0.081810	15.130	-1585742.85E-6	-0.76961	2.0054E-6
39.00000	-4.00000	15.50000	-0.031313	15.130	-1823406.64E-6	-0.66254	1.7287E-6
40.00000	-4.00000	15.50000	0.011383	15.130	-2089296.43E-6	-0.57487	1.5014E-6
41.00000	-4.00000	15.50000	0.046514	15.130	-2385410.22E-6	-0.50266	1.3138E-6
42.00000	-4.00000	15.50000	0.075193	15.130	-2713858.01E-6	-0.44269	1.1578E-6
43.00000	-4.00000	15.50000	0.098308	15.130	-3086731.80E-6	-0.39241	1.0267E-6
44.00000	-4.00000	15.50000	0.114168	15.130	-3506045.59E-6	-0.34999	0.9167E-6
45.00000	-4.00000	15.50000	0.13102	15.130	-3974909.38E-6	-0.31362	0.0
46.00000	-4.00000	15.50000	0.14198	15.130	-4496423.17E-6	-0.28244	0.0
47.00000	-4.00000	15.50000	0.15010	15.130	-5072686.96E-6	-0.25544	0.0
48.00000	-4.00000	15.50000	0.15585	15.130	-5705700.75E-6	-0.23191	0.0
49.00000	-4.00000	15.50000	0.15964	15.130	-6398464.54E-6	-0.21129	0.0
50.00000	-4.00000	15.50000	0.16179	15.130	-7154078.33E-6	-0.19313	0.0
51.00000	-4.00000	15.50000	0.16260	15.130	-7975642.12E-6	-0.17705	0.0
52.00000	-4.00000	15.50000	0.16231	15.130	-8866255.91E-6	-0.16275	0.0
53.00000	-4.00000	15.50000	0.16113	15.130	-9829919.70E-6	-0.14998	0.0
54.00000	-4.00000	15.50000	0.15924	15.130	-10979633.49E-6	-0.13854	0.0
55.00000	-4.00000	15.50000	0.15677	15.130	-12329407.28E-6	-0.12826	0.0
-25.00000	-3.00000	15.50000	0.16461	15.130	-17.151E-6	-0.12907	0.0
-24.00000	-3.00000	15.50000	0.16784	15.130	-19.677E-6	-0.13924	0.0
-23.00000	-3.00000	15.50000	0.17058	15.130	-22.674E-6	-0.15051	0.0
-22.00000	-3.00000	15.50000	0.17271	15.130	-26.250E-6	-0.16305	0.0
-21.00000	-3.00000	15.50000	0.17406	15.130	-30.543E-6	-0.17703	0.0
-20.00000	-3.00000	15.50000	0.17442	15.130	-35.735E-6	-0.19267	0.0
-19.00000	-3.00000	15.50000	0.17358	15.130	-42.060E-6	-0.21025	0.0
-18.00000	-3.00000	15.50000	0.17125	15.130	-49.830E-6	-0.23007	0.0
-17.00000	-3.00000	15.50000	0.16710	15.130	-59.465E-6	-0.25253	0.0
-16.00000	-3.00000	15.50000	0.16074	15.130	-71.529E-6	-0.27809	0.0
-15.00000	-3.00000	15.50000	0.15169	15.130	-86.811E-6	-0.30733	0.0
-14.00000	-3.00000	15.50000	0.13939	15.130	-106.41E-6	-0.34099	0.0
-13.00000	-3.00000	15.50000	0.12317	15.130	-131.92E-6	-0.37999	0.0
-12.00000	-3.00000	15.50000	0.10223	15.130	-165.62E-6	-0.42549	1.1138E-6
-11.00000	-3.00000	15.50000	0.075610	15.130	-211.04E-6	-0.47902	1.2535E-6
-10.00000	-3.00000	15.50000	0.042176	15.130	-273.47E-6	-0.54258	1.4193E-6
-9.00000	-3.00000	15.50000	571.75E-6	15.130	-361.36E-6	-0.61886	1.6181E-6
-8.00000	-3.00000	15.50000	-0.050805	15.130	-488.58E-6	-0.71150	1.8591E-6
-7.00000	-3.00000	15.50000	-0.11394	15.130	-678.22E-6	-0.82555	2.1570E-6
-6.00000	-3.00000	15.50000	-0.19071	15.130	-972.95E-6	-0.96812	2.5248E-6
-5.00000	-3.00000	15.50000	-0.28386	15.130	-1300.44E-6	-1.1493	2.9928E-6
-4.00000	-3.00000	15.50000	-0.39589	15.130	-1772.44E-6	-1.3835	3.5947E-6
-3.00000	-3.00000	15.50000	-0.52910	15.130	-2400.63E-6	-1.6901	4.3772E-6
-2.00000	-3.00000	15.50000	-0.68458	15.130	-3200.09E-6	-2.0911	5.3911E-6
-1.00000	-3.00000	15.50000	-0.86030	15.130	-4180.00E-6	-2.5988	6.6599E-6
0.00000	-3.00000	15.50000	-1.0486	15.130	-5355.56E-6	-3.1857	8.1136E-6
1.00000	-3.00000	15.50000	-1.2366	15.130	-6740.00E-6	-3.7715	9.5642E-6
2.00000	-3.00000	15.50000	-1.4112	15.130	-8360.00E-6	-4.2757	10.824E-6
3.00000	-3.00000	15.50000	-1.5648	15.130	-10250.00E-6	-4.6710	11.823E-6
4.00000	-3.00000	15.50000	-1.6951	15.130	-12440.00E-6	-4.9692	12.583E-6
5.00000	-3.00000	15.50000	-1.8031	15.130	-14980.00E-6	-5.1923	13.156E-6
6.00000	-3.00000	15.50000	-1.8910	15.130	-17920.00E-6	-5.3594	13.587E-6
7.00000	-3.00000</						

Job No.	Sheet No.	Rev.
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Made by	Date	Checked
MP		

Name	Location		Stresses					
	X [m]	Y [m]	Z [Level]	Z [mm]	Calc Level [mOD]	Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
35.00000	-3.00000	15.50000	-0.41205	15.130	-0.0057169	-1.6178	4.1547E-6	
36.00000	-3.00000	15.50000	-0.30836	15.130	-0.0034498	-1.3173	3.4021E-6	
37.00000	-3.00000	15.50000	-0.21745	15.130	-0.0020734	-1.0787	2.7977E-6	
38.00000	-3.00000	15.50000	-0.14021	15.130	-0.0012879	-0.89484	2.3276E-6	
39.00000	-3.00000	15.50000	-0.075820	15.130	-835.48E-6	-0.75300	1.9625E-6	
40.00000	-3.00000	15.50000	-0.022838	15.130	-565.78E-6	-0.64209	1.6758E-6	
41.00000	-3.00000	15.50000	0.020396	15.130	-397.26E-6	-0.55391	1.4471E-6	
42.00000	-3.00000	15.50000	0.055318	15.130	-288.20E-6	-0.48262	1.2617E-6	
43.00000	-3.00000	15.50000	0.083276	15.130	-214.83E-6	-0.42411	1.1094E-6	
44.00000	-3.00000	15.50000	0.10541	15.130	-163.87E-6	-0.37545	0.0	
45.00000	-3.00000	15.50000	0.12268	15.130	-127.48E-6	-0.33450	0.0	
46.00000	-3.00000	15.50000	0.13596	15.130	-100.85E-6	-0.29970	0.0	
47.00000	-3.00000	15.50000	0.14587	15.130	-80.953E-6	-0.26985	0.0	
48.00000	-3.00000	15.50000	0.15303	15.130	-65.810E-6	-0.24404	0.0	
49.00000	-3.00000	15.50000	0.15790	15.130	-54.098E-6	-0.22159	0.0	
50.00000	-3.00000	15.50000	0.16096	15.130	-44.910E-6	-0.20192	0.0	
51.00000	-3.00000	15.50000	0.16237	15.130	-37.609E-6	-0.18460	0.0	
52.00000	-3.00000	15.50000	0.16259	15.130	-31.743E-6	-0.16928	0.0	
53.00000	-3.00000	15.50000	0.16179	15.130	-26.982E-6	-0.15565	0.0	
54.00000	-3.00000	15.50000	0.16017	15.130	-23.082E-6	-0.14349	0.0	
55.00000	-3.00000	15.50000	0.15791	15.130	-19.861E-6	-0.13260	0.0	
-25.00000	-2.00000	15.50000	0.16608	15.130	-18.036E-6	-0.13290	0.0	
-24.00000	-2.00000	15.50000	0.16919	15.130	-20.747E-6	-0.14358	0.0	
-23.00000	-2.00000	15.50000	0.17177	15.130	-23.974E-6	-0.15545	0.0	
-22.00000	-2.00000	15.50000	0.17365	15.130	-27.840E-6	-0.16868	0.0	
-21.00000	-2.00000	15.50000	0.17466	15.130	-32.502E-6	-0.18349	0.0	
-20.00000	-2.00000	15.50000	0.17459	15.130	-38.166E-6	-0.20011	0.0	
-19.00000	-2.00000	15.50000	0.17317	15.130	-45.104E-6	-0.21885	0.0	
-18.00000	-2.00000	15.50000	0.17008	15.130	-53.677E-6	-0.24007	0.0	
-17.00000	-2.00000	15.50000	0.16495	15.130	-64.376E-6	-0.26421	0.0	
-16.00000	-2.00000	15.50000	0.15794	15.130	-77.876E-6	-0.29182	0.0	
-15.00000	-2.00000	15.50000	0.14668	15.130	-95.122E-6	-0.32358	0.0	
-14.00000	-2.00000	15.50000	0.13232	15.130	-117.46E-6	-0.36036	0.0	
-13.00000	-2.00000	15.50000	0.11348	15.130	-146.86E-6	-0.40327	1.0558E-6	
-12.00000	-2.00000	15.50000	0.09086	15.130	-186.22E-6	-0.45371	1.1876E-6	
-11.00000	-2.00000	15.50000	0.058279	15.130	-240.13E-6	-0.51371	1.3441E-6	
-10.00000	-2.00000	15.50000	0.019342	15.130	-315.74E-6	-0.58573	1.5319E-6	
-9.00000	-2.00000	15.50000	-0.029355	15.130	-424.78E-6	-0.67338	1.7601E-6	
-8.00000	-2.00000	15.50000	-0.089928	15.130	-587.55E-6	-0.78170	2.0418E-6	
-7.00000	-2.00000	15.50000	-0.16498	15.130	-840.69E-6	-0.91805	2.3955E-6	
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-4.00000	-2.00000	15.50000	-0.51272	15.130	-1500.31E-6	-1.6423	4.2567E-6	
-3.00000	-2.00000	15.50000	-0.68532	15.130	-1900.06E-6	-2.0913	5.3916E-6	
-2.00000	-2.00000	15.50000	-0.89300	15.130	-2400.00E-6	-2.7507	7.0251E-6	
-1.00000	-2.00000	15.50000	-1.13447	15.130	-3000.00E-6	-3.7225	9.3548E-6	
0.00000	-2.00000	15.50000	-1.4230	15.130	-3800.00E-6	-5.0063	12.325E-6	
1.00000	-2.00000	15.50000	-1.7010	15.130	-4700.00E-6	-6.2889	15.292E-6	
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3.00000	-2.00000	15.50000	-2.1568	15.130	-6800.00E-6	-8.1568	19.229E-6	
4.00000	-2.00000	15.50000	-2.3260	15.130	-8000.00E-6	-8.5300	20.340E-6	
5.00000	-2.00000	15.50000	-2.4621	15.130	-9300.00E-6	-8.6547	21.119E-6	
6.00000	-2.00000	15.50000	-2.5702	15.130	-10700.00E-6	-8.8712	21.676E-6	
7.00000	-2.00000	15.50000	-2.6549	15.130	-12200.00E-6	-9.0275	22.079E-6	
8.00000	-2.00000	15.50000	-2.7196	15.130	-13800.00E-6	-9.1401	22.371E-6	
9.00000	-2.00000	15.50000	-2.7670	15.130	-15500.00E-6	-9.2194	22.577E-6	
10.00000	-2.00000	15.50000	-2.7990	15.130	-17300.00E-6	-9.2715	22.713E-6	
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12.00000	-2.00000	15.50000	-2.8217	15.130	-21200.00E-6	-9.3058	22.802E-6	
13.00000	-2.00000	15.50000	-2.8131	15.130	-23300.00E-6	-9.2888	22.758E-6	
14.00000	-2.00000	15.50000	-2.7911	15.130	-25500.00E-6	-9.2448	22.646E-6	
15.00000	-2.00000	15.50000	-2.7546	15.130	-27800.00E-6	-9.1686	22.451E-6	
16.00000	-2.00000	15.50000	-2.7023	15.130	-30200.00E-6	-9.0421	22.144E-6	
17.00000	-2.00000	15.50000	-2.6320	15.130	-32700.00E-6	-8.8636	21.678E-6	
18.00000	-2.00000	15.50000	-2.5416	15.130	-35300.00E-6	-8.5308	20.979E-6	
19.00000	-2.00000	15.50000	-2.4305	15.130	-38000.00E-6	-8.1553	19.959E-6	
20.00000	-2.00000	15.50000	-2.3030	15.130	-40800.00E-6	-7.5873	18.642E-6	
21.00000	-2.00000	15.50000	-2.1720	15.130	-43700.00E-6	-7.0134	17.311E-6	
22.00000	-2.00000	15.50000	-2.0498	15.130	-46700.00E-6	-6.5701	16.245E-6	
23.00000	-2.00000	15.50000	-1.9406	15.130	-49800.00E-6	-6.2567	15.465E-6	
24.00000	-2.00000	15.50000	-1.8429	15.130	-53000.00E-6	-6.0272	14.882E-6	
25.00000	-2.00000	15.50000	-1.7533	15.130	-56300.00E-6	-5.8456	14.416E-6	
26.00000	-2.00000	15.50000	-1.6684	15.130	-59700.00E-6	-5.6884	14.010E-6	
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30.00000	-2.00000	15.50000	-1.3051	15.130	-74300.00E-6	-4.9932	12.217E-6	
31.00000	-2.00000	15.50000	-1.1898	15.130	-78200.00E-6	-4.7096	11.497E-6	
32.00000	-2.00000	15.50000	-1.0569	15.130	-82200.00E-6	-4.3121	10.509E-6	
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34.00000	-2.00000	15.50000	-0.73861	15.130	-90500.00E-6	-2.9989	7.4117E-6	
35.00000	-2.00000	15.50000	-0.57449	15.130	-94800.00E-6	-2.2581	5.6921E-6	
36.00000	-2.00000	15.50000	-0.42857	15.130	-99200.00E-6	-1.6953	4.3394E-6	
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38.00000	-2.00000	15.50000	-0.20649	15.130	-108300.00E-6	-1.0455	2.7133E-6	
39.00000	-2.00000	15.50000	-0.12560	15.130	-113000.00E-6	-0.85647	2.2294E-6	
40.00000	-2.00000	15.50000	-0.060396	15.130	-117800.00E-6	-0.71643	1.8683E-6	
41.00000	-2.00000	15.50000	-0.0080454	15.130	-122700.00E-6	-0.60924	1.5908E-6	
42.00000	-2.00000	15.50000	0.033800	15.130	-127.67E-6	-0.52499	1.3720E-6	
43.00000	-2.00000	15.50000	0.067052	15.130	-132.16E-6	-0.45731	1.1955E-6	
44.00000	-2.00000	15.50000	0.093264	15.130	-136.19E-6	-0.40194	1.0516E-6	
45.00000	-2.00000	15.50000	0.11370	15.130	-140.30E-6	-0.35598	0.0	
46.00000	-2.00000	15.50000	0.12941	15.130	-112.82E-6	-0.31733	0.0	
47.00000	-2.00000	15.50000	0.14123	15.130	-89.670E-6	-0.28448	0.0	
48.00000	-2.00000	15.50000	0.14997	15.130	-72.287E-6	-0.25631	0.0	
49.00000	-2.00000	15.50000	0.15589	15.130	-58.995E-6	-0.23195	0.0	
50.00000	-2.00000	15.50000	0.15979	15.130	-48.669E-6	-0.21074	0.0	
51.00000	-2.00000	15.50000	0.16194	15.130	-40.534E-6	-0.19216	0.0	
52.00000	-2.00000	15.50000	0.16269	15.130	-34.045E-6	-0.17578	0.0	
53.00000	-2.00000	15.50000	0.16229	15.130	-28.812E-6	-0.16129	0.0	
54.00000	-2.00000	15.50000	0.16097	15.130	-24.551E-6	-0.14839	0.0	
55.00000	-2.00000	15.50000	0.15893	15.130	-21.051E-6	-0.13688	0.0	
-25.00000	-1.00000	15.50000	0.16743	15.130	-18.914E-6	-0.13663	0.0	
-24.00000	-1.00000	15.50000	0.17042	15.130	-21.810E-6	-0.14782	0.0	
-23.00000	-1.00000	15.50000	0.17292	15.130	-25.262E-6	-0.16029	0.0	
-22.00000	-1.00000	15.50000	0.17445	15.130	-29.428E-6	-0.17422	0.0	
-21.00000	-1.00000	15.50000	0.17512	15.130	-34.464E-6	-0.18985	0.0	
-20.00000	-1.00000	15.50000	0.17459	15.130	-40.609E-6	-0.20745	0.0	
-19.00000	-1.00000	15.50000	0.17257	15.130	-48.172E-6	-0.22736	0.0	
-18.00000	-1.00000	15.50000	0.16891	15.130	-57.567E-6	-0.24998	0.0	
-17.00								



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Dr. Ref.		
Made by	Date	Checked
MP		

Name	Location	Z [Level] [m]	Z [mm]	Calc Level [mOD]	Stresses		
					Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
14.00000	-1.00000	15.50000	-3.8360	15.130	-0.73451	-19.602	39.868E-6
15.00000	-1.00000	15.50000	-3.7909	15.130	-0.73407	-19.502	39.612E-6
16.00000	-1.00000	15.50000	-3.7252	15.130	-0.73314	-19.337	39.194E-6
17.00000	-1.00000	15.50000	-3.6345	15.130	-0.73083	-19.063	38.511E-6
18.00000	-1.00000	15.50000	-3.5122	15.130	-0.72380	-18.577	37.348E-6
19.00000	-1.00000	15.50000	-3.3494	15.130	-0.69455	-17.835	35.281E-6
20.00000	-1.00000	15.50000	-3.1451	15.130	-0.57439	-15.726	32.219E-6
21.00000	-1.00000	15.50000	-2.9367	15.130	-0.45422	-13.831	29.139E-6
22.00000	-1.00000	15.50000	-2.7615	15.130	-0.42495	-12.848	27.020E-6
23.00000	-1.00000	15.50000	-2.6177	15.130	-0.41788	-12.328	25.767E-6
24.00000	-1.00000	15.50000	-2.4958	15.130	-0.41552	-12.004	24.954E-6
25.00000	-1.00000	15.50000	-2.3876	15.130	-0.41450	-11.769	24.355E-6
26.00000	-1.00000	15.50000	-2.2869	15.130	-0.41393	-11.576	23.858E-6
27.00000	-1.00000	15.50000	-2.1883	15.130	-0.41350	-11.397	23.394E-6
28.00000	-1.00000	15.50000	-2.0869	15.130	-0.41304	-11.210	22.911E-6
29.00000	-1.00000	15.50000	-1.9973	15.130	-0.41236	-10.993	22.352E-6
30.00000	-1.00000	15.50000	-1.8538	15.130	-0.41108	-10.713	21.638E-6
31.00000	-1.00000	15.50000	-1.7088	15.130	-0.40807	-10.310	20.626E-6
32.00000	-1.00000	15.50000	-1.5324	15.130	-0.39899	-9.6482	19.034E-6
33.00000	-1.00000	15.50000	-1.3126	15.130	-0.36138	-8.3845	16.310E-6
34.00000	-1.00000	15.50000	-1.0471	15.130	-0.26687	-5.9491	12.327E-6
35.00000	-1.00000	15.50000	-0.78396	15.130	-0.052375	-3.5044	8.3702E-6
36.00000	-1.00000	15.50000	-0.57118	15.130	-0.014769	-2.2490	5.6685E-6
37.00000	-1.00000	15.50000	-0.40689	15.130	-0.0057087	-1.6020	4.1134E-6
38.00000	-1.00000	15.50000	-0.27933	15.130	-0.0027329	-1.2203	3.1588E-6
39.00000	-1.00000	15.50000	-0.17937	15.130	-0.001501	-0.7106	2.5282E-6
40.00000	-1.00000	15.50000	-0.10055	15.130	-912.86E-6	-0.79637	2.0751E-6
41.00000	-1.00000	15.50000	-0.038221	15.130	-593.64E-6	-0.66761	1.7423E-6
42.00000	-1.00000	15.50000	0.011068	15.130	-406.82E-6	-0.56908	1.4867E-6
43.00000	-1.00000	15.50000	0.045448	15.130	-290.36E-6	-0.49149	1.2850E-6
44.00000	-1.00000	15.50000	0.080459	15.130	-214.08E-6	-0.429901	1.1223E-6
45.00000	-1.00000	15.50000	0.10421	15.130	-161.99E-6	-0.37777	0.0
46.00000	-1.00000	15.50000	0.12247	15.130	-125.29E-6	-0.33512	0.0
47.00000	-1.00000	15.50000	0.13627	15.130	-98.683E-6	-0.29918	0.0
48.00000	-1.00000	15.50000	0.14644	15.130	-78.944E-6	-0.26858	0.0
49.00000	-1.00000	15.50000	0.15366	15.130	-64.001E-6	-0.24228	0.0
50.00000	-1.00000	15.50000	0.15848	15.130	-52.494E-6	-0.21950	0.0
51.00000	-1.00000	15.50000	0.16134	15.130	-43.496E-6	-0.19964	0.0
52.00000	-1.00000	15.50000	0.16263	15.130	-36.368E-6	-0.18221	0.0
53.00000	-1.00000	15.50000	0.16265	15.130	-30.654E-6	-0.16684	0.0
54.00000	-1.00000	15.50000	0.16165	15.130	-26.028E-6	-0.15321	0.0
55.00000	-1.00000	15.50000	0.15983	15.130	-22.240E-6	-0.14108	0.0
-25.00000	0.00000	15.50000	0.16868	15.130	-19.777E-6	-0.14025	0.0
-24.00000	0.00000	15.50000	0.17154	15.130	-22.857E-6	-0.15194	0.0
-23.00000	0.00000	15.50000	0.17374	15.130	-26.547E-6	-0.16499	0.0
-22.00000	0.00000	15.50000	0.17512	15.130	-30.999E-6	-0.17961	0.0
-21.00000	0.00000	15.50000	0.17544	15.130	-36.408E-6	-0.19606	0.0
-20.00000	0.00000	15.50000	0.17445	15.130	-43.036E-6	-0.21463	0.0
-19.00000	0.00000	15.50000	0.17183	15.130	-51.227E-6	-0.23570	0.0
-18.00000	0.00000	15.50000	0.16717	15.130	-61.451E-6	-0.25972	0.0
-17.00000	0.00000	15.50000	0.16002	15.130	-74.355E-6	-0.28725	0.0
-16.00000	0.00000	15.50000	0.14980	15.130	-90.842E-6	-0.31902	0.0
-15.00000	0.00000	15.50000	0.13580	15.130	-112.21E-6	-0.35591	0.0
-14.00000	0.00000	15.50000	0.11717	15.130	-140.33E-6	-0.39910	1.0449E-6
-13.00000	0.00000	15.50000	0.092851	15.130	-178.04E-6	-0.45010	1.1782E-6
-12.00000	0.00000	15.50000	0.061534	15.130	-229.69E-6	-0.51097	1.3371E-6
-11.00000	0.00000	15.50000	0.021594	15.130	-302.23E-6	-0.58448	1.5288E-6
-10.00000	0.00000	15.50000	-0.029011	15.130	-407.17E-6	-0.67454	1.7634E-6
-9.00000	0.00000	15.50000	-0.092872	15.130	-564.56E-6	-0.78681	2.0555E-6
-8.00000	0.00000	15.50000	-0.17132	15.130	-811.27E-6	-0.92976	2.4267E-6
-7.00000	0.00000	15.50000	-0.27472	15.130	-0.0012202	-1.1167	2.9108E-6
-6.00000	0.00000	15.50000	-0.40293	15.130	-0.0019487	-1.3698	3.5635E-6
-5.00000	0.00000	15.50000	-0.56607	15.130	-0.0033790	-1.7290	4.4832E-6
-4.00000	0.00000	15.50000	-0.77601	15.130	-0.0066023	-2.2734	5.8611E-6
-3.00000	0.00000	15.50000	-1.0514	15.130	-0.015570	-3.1866	8.1159E-6
-2.00000	0.00000	15.50000	-1.4251	15.130	-0.051471	-5.0071	12.327E-6
-1.00000	0.00000	15.50000	-1.9662	15.130	-0.36766	-10.224	21.036E-6
0.00000	0.00000	15.50000	-2.9661	15.130	-20.000	-47.381	190.54E-6
1.00000	0.00000	15.50000	-3.9654	15.130	-39.632	-84.536	402.11E-6
2.00000	0.00000	15.50000	-4.5048	15.130	-49.948	-99.748	393.42E-6
3.00000	0.00000	15.50000	-4.8756	15.130	-59.984	-91.561	389.22E-6
4.00000	0.00000	15.50000	-5.1466	15.130	-69.993	-82.464	387.00E-6
5.00000	0.00000	15.50000	-5.3506	15.130	-79.997	-82.994	385.66E-6
6.00000	0.00000	15.50000	-5.5057	15.130	-89.998	-83.335	384.78E-6
7.00000	0.00000	15.50000	-5.6235	15.130	-99.999	-83.566	384.19E-6
8.00000	0.00000	15.50000	-5.7114	15.130	-99.999	-83.724	383.78E-6
9.00000	0.00000	15.50000	-5.7746	15.130	-99.999	-83.832	383.50E-6
10.00000	0.00000	15.50000	-5.8166	15.130	-99.999	-83.900	383.32E-6
11.00000	0.00000	15.50000	-5.8394	15.130	-99.999	-83.935	383.23E-6
12.00000	0.00000	15.50000	-5.8440	15.130	-99.999	-83.939	383.22E-6
13.00000	0.00000	15.50000	-5.8306	15.130	-99.999	-83.909	383.30E-6
14.00000	0.00000	15.50000	-5.7980	15.130	-99.999	-83.838	383.48E-6
15.00000	0.00000	15.50000	-5.7437	15.130	-99.998	-83.711	383.80E-6
16.00000	0.00000	15.50000	-5.6634	15.130	-99.997	-83.495	384.35E-6
17.00000	0.00000	15.50000	-5.5496	15.130	-99.993	-83.109	385.30E-6
18.00000	0.00000	15.50000	-5.3881	15.130	-99.977	-82.319	387.13E-6
19.00000	0.00000	15.50000	-5.1489	15.130	-99.839	-80.036	390.94E-6
20.00000	0.00000	15.50000	-4.7044	15.130	-81.250	-73.772	298.40E-6
21.00000	0.00000	15.50000	-4.2553	15.130	-62.661	-57.500	205.87E-6
22.00000	0.00000	15.50000	-4.0022	15.130	-52.522	-55.195	209.74E-6
23.00000	0.00000	15.50000	-3.8167	15.130	-42.507	-54.367	211.67E-6
24.00000	0.00000	15.50000	-3.6678	15.130	-32.503	-53.926	212.76E-6
25.00000	0.00000	15.50000	-3.5396	15.130	-22.501	-53.631	213.51E-6
26.00000	0.00000	15.50000	-3.4223	15.130	-12.500	-53.399	214.11E-6
27.00000	0.00000	15.50000	-3.3083	15.130	-2.500	-53.188	214.59E-6
28.00000	0.00000	15.50000	-3.1908	15.130	-22.499	-52.967	215.22E-6
29.00000	0.00000	15.50000	-3.0628	15.130	-22.498	-52.705	215.90E-6
30.00000	0.00000	15.50000	-2.9155	15.130	-22.496	-52.351	216.80E-6
31.00000	0.00000	15.50000	-2.7373	15.130	-22.491	-51.799	218.17E-6
32.00000	0.00000	15.50000	-2.5082	15.130	-22.471	-50.742	220.33E-6
33.00000	0.00000	15.50000	-2.1887	15.130	-22.293	-47.780	225.59E-6
34.00000	0.00000	15.50000	-1.6140	15.130	-11.250	-26.854	106.65E-6
35.00000	0.00000	15.50000	-1.0419	15.130	-0.20687	-5.9313	12.306E-6
36.00000	0.00000	15.50000	-0.73029	15.130	-0.02998	-2.9783	7.3580E-6
37.00000	0.00000	15.50000	-0.53470	15.130	-0.0087952	-1.9382	4.9469E-6
38.00000	0.00000	15.50000	-0.35599	15.130	-0.0037447	-1.4105	3.6419E-6
39.00000	0.00000	15.50000	-0.23537	15.130	-0.0019266	-1.0920	2.8349E-6
40.00000	0.00000	15.50000	-0.14211	15.130	-0.0011179	-0.87926	2.2894E-6
41.00000	0.00000	15.50000	-0.069347	15.130	-704.82E-6	-0.72741	1.8975E-6
42.00000	0.00000	15.50000	-0.012335	15.130	-472.09E-6	-0.61386	1.6032E-6
43.00000	0.00000	15.50000	0.032350	15.130	-331.07E-6	-0.52599	1.3749E-6
44.00000	0.00000	15.50000	0.067274	15.130	-240.68E-6	-0.45618	1.1931E-6
45.00000	0.00000	15.50000	0.094403	15.130	-180.09E-6	-0.39955	1.0455E-6
46.00000	0.00000	15.50000	0.11527	15.130	-137.98E-6	-0.35284	0.9199E-6
47.00000	0.00000	15.50000	0.13109	15.130	-107.82E-6	-0.31377	0.0
48.00000	0.00000	15.50000	0.14282	15.130	-85.663E-6	-0.28071	0.0

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Dr. Ref.		
Made by	Date	Checked
MP		

Name	Location		Stresses					
	X [m]	Y [m]	Z [Level]	Z [mm]	Calc Level [mOD]	Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
-7.00000	1.00000	15.50000	-0.33036	15.130	-0.0014159	-1.2167	3.1700E-6	
-6.00000	1.00000	15.50000	-0.47669	15.130	-0.0023109	-1.5099	3.9253E-6	
-5.00000	1.00000	15.50000	-0.66494	15.130	-0.0041254	-1.9356	5.0137E-6	
-4.00000	1.00000	15.50000	-0.91087	15.130	-0.0083974	-2.6019	6.6945E-6	
-3.00000	1.00000	15.50000	-1.2407	15.130	-0.021052	-3.7730	9.5682E-6	
-2.00000	1.00000	15.50000	-1.7044	15.130	-0.076762	-6.2904	1.5296E-5	
-1.00000	1.00000	15.50000	-2.4197	15.130	-0.64230	-14.522	2.7992E-5	
0.00000	1.00000	15.50000	-3.9669	15.130	-39.632	-84.537	-402.11E-6	
1.00000	1.00000	15.50000	-5.5135	15.130	-78.622	-154.55	-832.22E-6	
2.00000	1.00000	15.50000	-6.2269	15.130	-118.188	-162.78	-819.54E-6	
3.00000	1.00000	15.50000	-6.6895	15.130	-79.243	-165.29	-817.83E-6	
4.00000	1.00000	15.50000	-7.0124	15.130	-79.256	-166.45	-810.98E-6	
5.00000	1.00000	15.50000	-7.2517	15.130	-79.260	-167.10	-809.34E-6	
6.00000	1.00000	15.50000	-7.4310	15.130	-79.262	-167.50	-808.31E-6	
7.00000	1.00000	15.50000	-7.5657	15.130	-79.263	-167.77	-807.61E-6	
8.00000	1.00000	15.50000	-7.6655	15.130	-79.263	-167.95	-807.14E-6	
9.00000	1.00000	15.50000	-7.7367	15.130	-79.264	-168.08	-806.83E-6	
10.00000	1.00000	15.50000	-7.7837	15.130	-79.264	-168.15	-806.63E-6	
11.00000	1.00000	15.50000	-7.8089	15.130	-79.264	-168.19	-806.53E-6	
12.00000	1.00000	15.50000	-7.8135	15.130	-79.264	-168.19	-806.52E-6	
13.00000	1.00000	15.50000	-7.7975	15.130	-79.264	-168.16	-806.61E-6	
14.00000	1.00000	15.50000	-7.7594	15.130	-79.263	-168.07	-806.83E-6	
15.00000	1.00000	15.50000	-7.6960	15.130	-79.263	-167.92	-807.22E-6	
16.00000	1.00000	15.50000	-7.6012	15.130	-79.261	-167.65	-807.90E-6	
17.00000	1.00000	15.50000	-7.4642	15.130	-79.255	-167.15	-809.12E-6	
18.00000	1.00000	15.50000	-7.2635	15.130	-79.231	-166.06	-811.20E-6	
19.00000	1.00000	15.50000	-6.9479	15.130	-78.983	-162.46	-817.16E-6	
20.00000	1.00000	15.50000	-6.2633	15.130	-61.925	-131.82	-629.01E-6	
21.00000	1.00000	15.50000	-5.5736	15.130	-44.867	-101.17	-440.89E-6	
22.00000	1.00000	15.50000	-5.2426	15.130	-44.620	-97.542	-446.51E-6	
23.00000	1.00000	15.50000	-4.8154	15.130	-44.405	-96.405	-449.10E-6	
24.00000	1.00000	15.50000	-4.8395	15.130	-44.590	-95.846	-450.48E-6	
25.00000	1.00000	15.50000	-4.6914	15.130	-44.588	-95.492	-451.38E-6	
26.00000	1.00000	15.50000	-4.5575	15.130	-44.587	-95.221	-452.08E-6	
27.00000	1.00000	15.50000	-4.4281	15.130	-44.586	-94.978	-452.70E-6	
28.00000	1.00000	15.50000	-4.2946	15.130	-44.589	-94.723	-453.36E-6	
29.00000	1.00000	15.50000	-4.1480	15.130	-44.584	-94.416	-454.15E-6	
30.00000	1.00000	15.50000	-3.9771	15.130	-44.582	-93.988	-455.23E-6	
31.00000	1.00000	15.50000	-3.7656	15.130	-44.575	-93.287	-456.96E-6	
32.00000	1.00000	15.50000	-3.4839	15.130	-44.543	-91.835	-460.23E-6	
33.00000	1.00000	15.50000	-3.0648	15.130	-44.225	-87.174	-461.50E-6	
34.00000	1.00000	15.50000	-2.1809	15.130	-22.293	-47.764	-225.63E-6	
35.00000	1.00000	15.50000	-1.2998	15.130	-0.36136	-8.3573	16.239E-6	
36.00000	1.00000	15.50000	-0.88936	15.130	-0.043227	-3.7069	9.0455E-6	
37.00000	1.00000	15.50000	-0.62249	15.130	-0.011824	-2.2737	5.7786E-6	
38.00000	1.00000	15.50000	-0.43265	15.130	-0.0047563	-1.6001	4.1233E-6	
39.00000	1.00000	15.50000	-0.29139	15.130	-0.0023479	-1.2124	3.1440E-6	
40.00000	1.00000	15.50000	-0.18371	15.130	-0.0013228	-0.96160	2.5022E-6	
41.00000	1.00000	15.50000	-0.10052	15.130	-815.86E-6	-0.78670	2.0513E-6	
42.00000	1.00000	15.50000	-0.03395	15.130	-537.24E-6	-0.65818	1.7195E-6	
43.00000	1.00000	15.50000	0.014683	15.130	-371.68E-6	-0.56007	1.4636E-6	
44.00000	1.00000	15.50000	0.054010	15.130	-267.22E-6	-0.48296	1.2630E-6	
45.00000	1.00000	15.50000	0.084514	15.130	-198.11E-6	-0.42098	1.1014E-6	
46.00000	1.00000	15.50000	0.10798	15.130	-150.59E-6	-0.37023	0.0	
47.00000	1.00000	15.50000	0.12591	15.130	-116.80E-6	-0.32006	0.0	
48.00000	1.00000	15.50000	0.13911	15.130	-92.319E-6	-0.29258	0.0	
49.00000	1.00000	15.50000	0.14875	15.130	-74.017E-6	-0.26240	0.0	
50.00000	1.00000	15.50000	0.15544	15.130	-60.115E-6	-0.23651	0.0	
51.00000	1.00000	15.50000	0.15975	15.130	-49.377E-6	-0.21411	0.0	
52.00000	1.00000	15.50000	0.16205	15.130	-40.962E-6	-0.19460	0.0	
53.00000	1.00000	15.50000	0.16301	15.130	-34.282E-6	-0.17751	0.0	
54.00000	1.00000	15.50000	0.16265	15.130	-28.919E-6	-0.16245	0.0	
55.00000	1.00000	15.50000	0.16131	15.130	-24.568E-6	-0.14911	0.0	
-25.00000	2.00000	15.50000	0.17084	15.130	-21.425E-6	-0.14705	0.0	
-24.00000	2.00000	15.50000	0.17143	15.130	-24.861E-6	-0.15949	0.0	
-23.00000	2.00000	15.50000	0.17526	15.130	-29.000E-6	-0.17386	0.0	
-22.00000	2.00000	15.50000	0.17612	15.130	-34.020E-6	-0.18980	0.0	
-21.00000	2.00000	15.50000	0.17575	15.130	-40.158E-6	-0.20781	0.0	
-20.00000	2.00000	15.50000	0.17385	15.130	-47.726E-6	-0.22825	0.0	
-19.00000	2.00000	15.50000	0.17002	15.130	-57.145E-6	-0.25155	0.0	
-18.00000	2.00000	15.50000	0.16381	15.130	-68.992E-6	-0.27828	0.0	
-17.00000	2.00000	15.50000	0.15465	15.130	-84.068E-6	-0.30911	0.0	
-16.00000	2.00000	15.50000	0.14184	15.130	-103.51E-6	-0.34491	0.0	
-15.00000	2.00000	15.50000	0.12453	15.130	-128.94E-6	-0.38681	1.0129E-6	
-14.00000	2.00000	15.50000	0.10166	15.130	-162.80E-6	-0.43627	1.1421E-6	
-13.00000	2.00000	15.50000	0.071900	15.130	-208.77E-6	-0.49523	1.2961E-6	
-12.00000	2.00000	15.50000	0.033608	15.130	-272.62E-6	-0.56631	1.4816E-6	
-11.00000	2.00000	15.50000	-0.015307	15.130	-363.73E-6	-0.65320	1.7081E-6	
-10.00000	2.00000	15.50000	-0.077514	15.130	-497.96E-6	-0.76112	1.9892E-6	
-9.00000	2.00000	15.50000	-0.15646	15.130	-703.61E-6	-0.89781	2.3446E-6	
-8.00000	2.00000	15.50000	-0.25671	15.130	-0.0010342	-1.0752	2.8047E-6	
-7.00000	2.00000	15.50000	-0.38437	15.130	-0.0015988	-1.3125	3.4186E-6	
-6.00000	2.00000	15.50000	-0.54796	15.130	-0.0026420	-1.6431	4.2695E-6	
-5.00000	2.00000	15.50000	-0.75981	15.130	-0.0047838	-2.1291	5.5111E-6	
-4.00000	2.00000	15.50000	-1.0309	15.130	-0.009846	-2.9010	7.4561E-6	
-3.00000	2.00000	15.50000	-1.4169	15.130	-0.025069	-4.2781	1.0830E-5	
-2.00000	2.00000	15.50000	-1.9542	15.130	-0.090736	-7.2595	1.7619E-5	
-1.00000	2.00000	15.50000	-2.7868	15.130	-0.70914	-16.720	3.2707E-5	
0.00000	2.00000	15.50000	-4.5082	15.130	-39.948	-89.750	-393.41E-6	
1.00000	2.00000	15.50000	-6.2289	15.130	-79.188	-162.78	-819.54E-6	
2.00000	2.00000	15.50000	-7.0594	15.130	-79.806	-172.23	-804.46E-6	
3.00000	2.00000	15.50000	-7.5931	15.130	-79.872	-175.21	-797.69E-6	
4.00000	2.00000	15.50000	-7.9658	15.130	-79.887	-176.57	-794.35E-6	
5.00000	2.00000	15.50000	-8.2375	15.130	-79.892	-177.33	-792.45E-6	
6.00000	2.00000	15.50000	-8.4396	15.130	-79.894	-177.79	-791.26E-6	
7.00000	2.00000	15.50000	-8.5904	15.130	-79.895	-178.10	-790.48E-6	
8.00000	2.00000	15.50000	-8.7015	15.130	-79.896	-178.30	-789.95E-6	
9.00000	2.00000	15.50000	-8.7804	15.130	-79.896	-178.44	-789.60E-6	
10.00000	2.00000	15.50000	-8.8322	15.130	-79.896	-178.52	-789.38E-6	
11.00000	2.00000	15.50000	-8.8598	15.130	-79.896	-178.56	-789.27E-6	
12.00000	2.00000	15.50000	-8.8645	15.130	-79.896	-178.57	-789.26E-6	
13.00000	2.00000	15.50000	-8.8461	15.130	-79.896	-178.52	-789.37E-6	
14.00000	2.00000	15.50000	-8.8029	15.130	-79.896	-178.43	-789.62E-6	
15.00000	2.00000	15.50000	-8.7308	15.130	-79.895	-178.25	-790.07E-6	
16.00000	2.00000	15.50000	-8.6227	15.130	-79.892	-177.93	-790.86E-6	
17.00000	2.00000	15.50000	-8.4653	15.130	-79.886	-177.35	-792.29E-6	
18.00000	2.00000	15.50000	-8.2327	15.130	-79.857	-176.05	-795.25E-6	
19.00000	2.00000	15.50000	-7.8655	15.130	-79.587	-171.91	-801.85E-6	
20.00000	2.00000	15.50000	-7.1041	15.130	-62.419	-139.95	-615.45E-6	
21.00000	2.00000	15.50000	-6.3371	15.130	-45.252	-107.98	-429.07E-6	
22.00000	2.00000	15.50000	-5.9531	15.130	-44.982	-103.82	-435.74E-6	
23.00000	2.00000	15.50000	-5.6914	15.130	-44.953	-102.47	-438.81E-6	
24.00000								



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
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Dr. Ref.		
Made by	Date	Checked
MP		

Name	Location	Z [Level] [m]	Z [mm]	Stresses			
				Calc Level [mOD]	Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
53.00000	2.00000	15.50000	0.16305	15.130	-36.024E-6	-0.18254	0.0
54.00000	2.00000	15.50000	0.16300	15.130	-30.305E-6	-0.16679	0.0
55.00000	2.00000	15.50000	0.16189	15.130	-25.681E-6	-0.15288	0.0
-25.00000	3.00000	15.50000	0.17176	15.130	-22.194E-6	-0.15017	0.0
-24.00000	3.00000	15.50000	0.17422	15.130	-25.798E-6	-0.16326	0.0
-23.00000	3.00000	15.50000	0.17587	15.130	-30.148E-6	-0.17795	0.0
-22.00000	3.00000	15.50000	0.17648	15.130	-35.437E-6	-0.19451	0.0
-21.00000	3.00000	15.50000	0.17578	15.130	-41.919E-6	-0.21325	0.0
-20.00000	3.00000	15.50000	0.17343	15.130	-49.931E-6	-0.23456	0.0
-19.00000	3.00000	15.50000	0.16903	15.130	-59.931E-6	-0.25892	0.0
-18.00000	3.00000	15.50000	0.16207	15.130	-72.548E-6	-0.28692	0.0
-17.00000	3.00000	15.50000	0.15195	15.130	-88.644E-6	-0.31930	0.0
-16.00000	3.00000	15.50000	0.13792	15.130	-109.47E-6	-0.35701	0.0
-15.00000	3.00000	15.50000	0.11903	15.130	-136.82E-6	-0.40126	1.0507E-6
-14.00000	3.00000	15.50000	0.094145	15.130	-173.36E-6	-0.45367	1.1876E-6
-13.00000	3.00000	15.50000	0.061818	15.130	-223.15E-6	-0.51635	1.3512E-6
-12.00000	3.00000	15.50000	0.020238	15.130	-292.60E-6	-0.59221	1.5492E-6
-11.00000	3.00000	15.50000	-0.032890	15.130	-392.12E-6	-0.68532	1.7919E-6
-10.00000	3.00000	15.50000	-0.10051	15.130	-539.42E-6	-0.80146	2.0944E-6
-9.00000	3.00000	15.50000	-0.18646	15.130	-766.12E-6	-0.94927	2.4786E-6
-8.00000	3.00000	15.50000	-0.28579	15.130	-1001.32E-6	-1.14421	2.9387E-6
-7.00000	3.00000	15.50000	-0.43534	15.130	-1300.75E-6	-1.4014	3.6493E-6
-6.00000	3.00000	15.50000	-0.61465	15.130	-1692.22E-6	-1.7646	4.5838E-6
-5.00000	3.00000	15.50000	-0.84753	15.130	-2205.30E-6	-2.3011	5.9540E-6
-4.00000	3.00000	15.50000	-1.1551	15.130	-2880.95E-6	-3.1553	8.1063E-6
-3.00000	3.00000	15.50000	-1.5724	15.130	-3770.3E-6	-4.6746	11.832E-6
-2.00000	3.00000	15.50000	-2.1640	15.130	-4968.71E-6	-7.9139	19.239E-6
-1.00000	3.00000	15.50000	-3.0701	15.130	-6625.23E-6	-17.838	35.387E-6
0.00000	3.00000	15.50000	-4.8813	15.130	-8998.4E-6	-91.565	-389.21E-6
1.00000	3.00000	15.50000	-6.6918	15.130	-12243.3E-6	-165.29	-813.82E-6
2.00000	3.00000	15.50000	-9.4956	15.130	-16872.7E-6	-175.21	-787.68E-6
3.00000	3.00000	15.50000	-8.1834	15.130	-79.941	-178.44	-790.30E-6
4.00000	3.00000	15.50000	-8.5949	15.130	-79.958	-179.95	-786.61E-6
5.00000	3.00000	15.50000	-8.8945	15.130	-79.963	-180.78	-784.50E-6
6.00000	3.00000	15.50000	-9.1187	15.130	-79.966	-181.30	-783.19E-6
7.00000	3.00000	15.50000	-9.2820	15.130	-79.967	-181.63	-782.33E-6
8.00000	3.00000	15.50000	-9.4036	15.130	-79.967	-181.86	-781.75E-6
9.00000	3.00000	15.50000	-9.4898	15.130	-79.968	-182.01	-781.36E-6
10.00000	3.00000	15.50000	-9.5461	15.130	-79.968	-182.10	-781.13E-6
11.00000	3.00000	15.50000	-9.5759	15.130	-79.968	-182.14	-781.01E-6
12.00000	3.00000	15.50000	-9.5807	15.130	-79.968	-182.14	-781.01E-6
13.00000	3.00000	15.50000	-9.5602	15.130	-79.968	-182.10	-781.13E-6
14.00000	3.00000	15.50000	-9.5124	15.130	-79.967	-181.99	-781.41E-6
15.00000	3.00000	15.50000	-9.4328	15.130	-79.966	-181.79	-781.91E-6
16.00000	3.00000	15.50000	-9.3133	15.130	-79.964	-181.44	-782.78E-6
17.00000	3.00000	15.50000	-9.1394	15.130	-79.957	-180.79	-784.37E-6
18.00000	3.00000	15.50000	-8.8833	15.130	-79.926	-179.38	-787.59E-6
19.00000	3.00000	15.50000	-8.4838	15.130	-79.651	-175.04	-794.66E-6
20.00000	3.00000	15.50000	-7.6824	15.130	-62.475	-142.77	-608.92E-6
21.00000	3.00000	15.50000	-6.8750	15.130	-45.300	-102.21	-423.21E-6
22.00000	3.00000	15.50000	-6.4572	15.130	-45.025	-106.13	-430.35E-6
23.00000	3.00000	15.50000	-6.1697	15.130	-44.994	-104.67	-433.70E-6
24.00000	3.00000	15.50000	-5.9495	15.130	-44.987	-103.95	-435.47E-6
25.00000	3.00000	15.50000	-5.7666	15.130	-44.984	-103.50	-436.61E-6
26.00000	3.00000	15.50000	-5.6028	15.130	-44.983	-103.16	-437.48E-6
27.00000	3.00000	15.50000	-5.4451	15.130	-44.982	-102.86	-438.25E-6
28.00000	3.00000	15.50000	-5.2823	15.130	-44.981	-102.55	-439.06E-6
29.00000	3.00000	15.50000	-5.1023	15.130	-44.980	-102.17	-440.04E-6
30.00000	3.00000	15.50000	-4.8905	15.130	-44.976	-101.62	-441.41E-6
31.00000	3.00000	15.50000	-4.6248	15.130	-44.967	-100.72	-443.64E-6
32.00000	3.00000	15.50000	-4.2672	15.130	-44.928	-98.854	-447.92E-6
33.00000	3.00000	15.50000	-3.7376	15.130	-44.575	-93.237	-457.09E-6
34.00000	3.00000	15.50000	-2.7027	15.130	-22.491	-51.735	-218.33E-6
35.00000	3.00000	15.50000	-1.6712	15.130	-0.40801	-10.238	20.438E-6
36.00000	3.00000	15.50000	-0.5158	15.130	-0.054544	-0.63264	-1.2965E-6
37.00000	3.00000	15.50000	-0.81170	15.130	-0.015515	-2.7914	7.0798E-6
38.00000	3.00000	15.50000	-0.57170	15.130	-0.0061998	-1.9204	4.9410E-6
39.00000	3.00000	15.50000	-0.39502	15.130	-0.0030160	-1.4257	3.6931E-6
40.00000	3.00000	15.50000	-0.26165	15.130	-0.0016689	-1.1115	2.8900E-6
41.00000	3.00000	15.50000	-0.15946	15.130	-0.011110	-0.89533	2.3358E-6
42.00000	3.00000	15.50000	-0.080482	15.130	-654.79E-6	-0.74089	1.9336E-6
43.00000	3.00000	15.50000	-0.019174	15.130	-446.25E-6	-0.62400	1.6302E-6
44.00000	3.00000	15.50000	0.028447	15.130	-316.55E-6	-0.53336	1.3944E-6
45.00000	3.00000	15.50000	0.065342	15.130	-231.87E-6	-0.46135	1.2068E-6
46.00000	3.00000	15.50000	0.093759	15.130	-174.37E-6	-0.40301	1.0547E-6
47.00000	3.00000	15.50000	0.11543	15.130	-134.03E-6	-0.35498	0.0
48.00000	3.00000	15.50000	0.13171	15.130	-104.94E-6	-0.31490	0.0
49.00000	3.00000	15.50000	0.14367	15.130	-83.472E-6	-0.28107	0.0
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51.00000	3.00000	15.50000	0.15787	15.130	-54.918E-6	-0.22747	0.0
52.00000	3.00000	15.50000	0.16134	15.130	-45.283E-6	-0.20601	0.0
53.00000	3.00000	15.50000	0.16302	15.130	-37.688E-6	-0.18730	0.0
54.00000	3.00000	15.50000	0.16327	15.130	-31.628E-6	-0.17090	0.0
55.00000	3.00000	15.50000	0.16240	15.130	-26.743E-6	-0.15644	0.0
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-23.00000	4.00000	15.50000	0.17639	15.130	-31.228E-6	-0.18176	0.0
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-14.00000	4.00000	15.50000	0.086989	15.130	-183.20E-6	-0.46997	1.2302E-6
-13.00000	4.00000	15.50000	0.052251	15.130	-236.50E-6	-0.53613	1.4030E-6
-12.00000	4.00000	15.50000	0.0076010	15.130	-311.02E-6	-0.61642	1.6125E-6
-11.00000	4.00000	15.50000	-0.049444	15.130	-418.06E-6	-0.71525	1.8701E-6
-10.00000	4.00000	15.50000	-0.12207	15.130	-576.82E-6	-0.83900	2.1922E-6
-9.00000	4.00000	15.50000	-0.21443	15.130	-821.55E-6	-0.99673	2.6023E-6
-8.00000	4.00000	15.50000	-0.33200	15.130	-1001.21E-6	-1.2031	3.1376E-6
-7.00000	4.00000	15.50000	-0.48219	15.130	-1300.89E-6	-1.4815	3.8572E-6
-6.00000	4.00000	15.50000	-0.67531	15.130	-1700.145E-6	-1.8718	4.8616E-6
-5.00000	4.00000	15.50000	-0.92615	15.130	-2200.6981E-6	-2.4481	6.3336E-6
-4.00000	4.00000	15.50000	-1.2572	15.130	-2800.11674E-6	-3.3624	8.6385E-6
-3.00000	4.00000	15.50000	-1.7050	15.130	-3500.028889E-6	-4.9743	12.597E-6
-2.00000	4.00000	15.50000	-2.3358	15.130	-4400.099619E-6	-6.8556	17.335E-6
-1.00000	4.00000	15.50000	-3.2899	15.130	-5600.73051E-6	-9.4886	23.003E-6
0.00000	4.00000	15.50000	-5.1553	15.130	-7300.3993E-6	-12.470	31.98E-6
1.00000	4.00000	15.50000	-7.0199	15.130	-9400.256E-6	-16.645	41.97E-6
2.00000	4.00000	15.50000	-7.9716	15.130	-11900.887E-6	-22.176	54.34E-6
3.00000	4.00000	15.50000	-8.5982	15.130	-15000.958E-6	-29.579	71.60E-6
4.00000	4.00000	15.50000	-9.5098	15.130	-18900.975E-6	-39.515	94.68E-6
5.00000	4.00000	15.50000	-9.3622	15.130	-79.981	-182.44	-782.68E-6
6.00000	4.00000	15.50000	-9.6016	15.130			



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Dr. Ref.		
Made by	Date	Checked
MP		

Name	Location		Z [Level] [m]	Z [mm]	Calc Level [mOD]	Stresses		Vert Strain [-]
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	
32.00000	4.00000	15.50000	-4.4849	15.130	-44.937	-99.636	-446.00E-6	
33.00000	4.00000	15.50000	-3.9269	15.130	-44.582	-93.901	-455.46E-6	
34.00000	4.00000	15.50000	-2.8604	15.130	-22.496	-52.252	-217.05E-6	
35.00000	4.00000	15.50000	-1.7974	15.130	-0.41098	-10.609	21.365E-6	
36.00000	4.00000	15.50000	-1.2503	15.130	-0.056093	-4.8668	11.939E-6	
37.00000	4.00000	15.50000	-0.8959	15.130	-0.016297	-2.9648	7.5226E-6	
38.00000	4.00000	15.50000	-0.62996	15.130	-0.0066049	-2.0410	5.2512E-6	
39.00000	4.00000	15.50000	-0.43972	15.130	-0.0032367	-1.5119	3.9158E-6	
40.00000	4.00000	15.50000	-0.29598	15.130	-0.0017957	-1.1748	3.0541E-6	
41.00000	4.00000	15.50000	-0.18582	15.130	-0.0010877	-0.94396	2.4596E-6	
42.00000	4.00000	15.50000	-0.10069	15.130	-703.29E-6	-0.77749	2.0289E-6	
43.00000	4.00000	15.50000	-0.034631	15.130	-477.98E-6	-0.65264	1.7049E-6	
44.00000	4.00000	15.50000	0.016683	15.130	-338.03E-6	-0.55612	1.4538E-6	
45.00000	4.00000	15.50000	0.056455	15.130	-246.83E-6	-0.47967	1.2547E-6	
46.00000	4.00000	15.50000	0.087116	15.130	-185.04E-6	-0.41793	1.0937E-6	
47.00000	4.00000	15.50000	0.11954	15.130	-141.79E-6	-0.36725	0.0	
48.00000	4.00000	15.50000	0.12819	15.130	-110.69E-6	-0.32509	0.0	
49.00000	4.00000	15.50000	0.14122	15.130	-87.792E-6	-0.28960	0.0	
50.00000	4.00000	15.50000	0.15055	15.130	-70.600E-6	-0.25942	0.0	
51.00000	4.00000	15.50000	0.15690	15.130	-57.462E-6	-0.23355	0.0	
52.00000	4.00000	15.50000	0.16087	15.130	-47.268E-6	-0.21120	0.0	
53.00000	4.00000	15.50000	0.16293	15.130	-39.253E-6	-0.19175	0.0	
54.00000	4.00000	15.50000	0.16348	15.130	-32.873E-6	-0.17473	0.0	
55.00000	4.00000	15.50000	0.16282	15.130	-27.741E-6	-0.15976	0.0	
-25.00000	5.00000	15.50000	0.17330	15.130	-23.583E-6	-0.15574	0.0	
-24.00000	5.00000	15.50000	0.17250	15.130	-53.929E-6	-0.24592	0.0	
-23.00000	5.00000	15.50000	0.17683	15.130	-32.227E-6	-0.18527	0.0	
-22.00000	5.00000	15.50000	0.17698	15.130	-38.004E-6	-0.20295	0.0	
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-19.00000	5.00000	15.50000	0.16704	15.130	-64.979E-6	-0.27218	0.0	
-18.00000	5.00000	15.50000	0.15872	15.130	-78.974E-6	-0.30248	0.0	
-17.00000	5.00000	15.50000	0.14685	15.130	-96.913E-6	-0.33766	0.0	
-16.00000	5.00000	15.50000	0.13058	15.130	-120.22E-6	-0.37881	0.0	
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-13.00000	5.00000	15.50000	0.043363	15.130	-248.61E-6	-0.55432	1.4505E-6	
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-10.00000	5.00000	15.50000	-0.14183	15.130	-609.60E-6	-0.87292	2.2808E-6	
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-8.00000	5.00000	15.50000	-0.36477	15.130	-0.0012879	-1.2576	3.2795E-6	
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-6.00000	5.00000	15.50000	-0.72908	15.130	-0.0033173	-1.9638	5.1005E-6	
-5.00000	5.00000	15.50000	-0.99483	15.130	-0.005973	-2.5706	6.6505E-6	
-4.00000	5.00000	15.50000	-1.3447	15.130	-0.012141	-3.5276	8.0646E-6	
-3.00000	5.00000	15.50000	-1.8158	15.130	-0.029683	-5.1995	13.175E-6	
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-1.00000	5.00000	15.50000	-3.4619	15.130	-0.73268	-18.898	38.050E-6	
0.00000	5.00000	15.50000	-5.3699	15.130	-39.997	-93.003	385.63E-6	
1.00000	5.00000	15.50000	-7.2630	15.130	-79.260	-167.11	809.32E-6	
2.00000	5.00000	15.50000	-8.2474	15.130	-79.892	-177.34	792.42E-6	
3.00000	5.00000	15.50000	-8.9020	15.130	-79.963	-180.79	784.48E-6	
4.00000	5.00000	15.50000	-9.3666	15.130	-79.981	-182.45	780.41E-6	
5.00000	5.00000	15.50000	-9.7073	15.130	-79.987	-183.39	778.04E-6	
6.00000	5.00000	15.50000	-9.9608	15.130	-79.990	-183.97	776.56E-6	
7.00000	5.00000	15.50000	-10.150	15.130	-79.991	-184.35	775.58E-6	
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9.00000	5.00000	15.50000	-10.387	15.130	-79.992	-184.77	774.48E-6	
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16.00000	5.00000	15.50000	-10.185	15.130	-79.988	-184.13	776.09E-6	
17.00000	5.00000	15.50000	-9.9883	15.130	-79.980	-183.42	777.84E-6	
18.00000	5.00000	15.50000	-9.7031	15.130	-79.949	-181.91	781.30E-6	
19.00000	5.00000	15.50000	-9.2678	15.130	-79.672	-177.44	788.71E-6	
20.00000	5.00000	15.50000	-8.4260	15.130	-62.494	-145.00	603.38E-6	
21.00000	5.00000	15.50000	-7.5774	15.130	-45.316	-112.56	418.07E-6	
22.00000	5.00000	15.50000	-7.1215	15.130	-45.040	-108.05	425.56E-6	
23.00000	5.00000	15.50000	-6.8006	15.130	-45.009	-106.49	429.16E-6	
24.00000	5.00000	15.50000	-6.5538	15.130	-45.001	-105.69	431.13E-6	
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26.00000	5.00000	15.50000	-6.1570	15.130	-44.997	-104.81	433.38E-6	
27.00000	5.00000	15.50000	-5.9771	15.130	-44.996	-104.47	434.26E-6	
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33.00000	5.00000	15.50000	-4.0681	15.130	-44.584	-94.278	454.51E-6	
34.00000	5.00000	15.50000	-2.9805	15.130	-22.498	-52.560	216.28E-6	
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36.00000	5.00000	15.50000	-1.3303	15.130	-0.058850	-5.0649	12.394E-6	
37.00000	5.00000	15.50000	-0.95114	15.130	-0.016745	-3.0960	7.8595E-6	
38.00000	5.00000	15.50000	-0.67995	15.130	-0.0068690	-2.1377	5.5008E-6	
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41.00000	5.00000	15.50000	-0.20948	15.130	-0.0011496	-0.98589	2.5687E-6	
42.00000	5.00000	15.50000	-0.11900	15.130	-743.70E-6	-0.81020	2.1141E-6	
43.00000	5.00000	15.50000	-0.048735	15.130	-505.28E-6	-0.67851	1.7723E-6	
44.00000	5.00000	15.50000	0.0058822	15.130	-356.89E-6	-0.57682	1.5078E-6	
45.00000	5.00000	15.50000	0.048273	15.130	-260.15E-6	-0.45643	1.2057E-6	
46.00000	5.00000	15.50000	0.080953	15.130	-194.64E-6	-0.43162	1.1294E-6	
47.00000	5.00000	15.50000	0.10598	15.130	-148.83E-6	-0.37854	0.0	
48.00000	5.00000	15.50000	0.12489	15.130	-115.93E-6	-0.33447	0.0	
49.00000	5.00000	15.50000	0.13891	15.130	-91.757E-6	-0.29745	0.0	
50.00000	5.00000	15.50000	0.14900	15.130	-73.639E-6	-0.26604	0.0	
51.00000	5.00000	15.50000	0.15595	15.130	-59.808E-6	-0.23916	0.0	
52.00000	5.00000	15.50000	0.16039	15.130	-49.103E-6	-0.21598	0.0	
53.00000	5.00000	15.50000	0.16281	15.130	-40.700E-6	-0.19585	0.0	
54.00000	5.00000	15.50000	0.16363	15.130	-34.025E-6	-0.17829	0.0	
55.00000	5.00000	15.50000	0.16318	15.130	-28.565E-6	-0.16281	0.0	
-25.00000	6.00000	15.50000	0.17393	15.130	-24.189E-6	-0.15815	0.0	
-24.00000	6.00000	15.50000	0.17604	15.130	-28.231E-6	-0.17239	0.0	
-23.00000	6.00000	15.50000	0.17720	15.130	-33.134E-6	-0.18844	0.0	
-22.00000	6.00000	15.50000	0.17714	15.130	-39.125E-6	-0.20660	0.0	
-21.00000	6.00000	15.50000	0.17555	15.130	-46.503E-6	-0.22725	0.0	
-20.00000	6.00000	15.50000	0.17203	15.130	-55.673E-6	-0.25085	0.0	
-19.00000	6.00000	15.50000	0.16611	15.130	-67.179			



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No. Sheet No. Rev.

J15249

Dr. Ref.

Made by

Date

Checked

Name	Location		Z [Level] [m]	Z [mm]	Stresses			Vert Strain [-]
	X [m]	Y [m]			Calc Level [mOD]	Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	
11.00000	6.00000	15.50000	-10.781	15.130	-79.995	-185.58	-772.41E-6	
12.00000	6.00000	15.50000	-10.786	15.130	-79.995	-185.58	-772.41E-6	
13.00000	6.00000	15.50000	-10.762	15.130	-79.995	-185.52	-772.56E-6	
14.00000	6.00000	15.50000	-10.704	15.130	-79.994	-185.39	-772.89E-6	
15.00000	6.00000	15.50000	-10.609	15.130	-79.993	-185.16	-773.48E-6	
16.00000	6.00000	15.50000	-10.468	15.130	-79.990	-184.76	-774.50E-6	
17.00000	6.00000	15.50000	-10.264	15.130	-79.983	-184.03	-776.29E-6	
18.00000	6.00000	15.50000	-9.9701	15.130	-79.951	-182.50	-779.81E-6	
19.00000	6.00000	15.50000	-9.5246	15.130	-79.675	-177.99	-787.28E-6	
20.00000	6.00000	15.50000	-8.6715	15.130	-62.497	-145.53	-602.02E-6	
21.00000	6.00000	15.50000	-7.9312	15.130	-74.239	-113.06	-416.79E-6	
22.00000	6.00000	15.50000	-7.3441	15.130	-45.042	-108.52	-424.35E-6	
23.00000	6.00000	15.50000	-7.0126	15.130	-45.011	-106.93	-428.01E-6	
24.00000	6.00000	15.50000	-6.7540	15.130	-45.003	-106.12	-430.03E-6	
25.00000	6.00000	15.50000	-6.5367	15.130	-45.000	-105.60	-431.35E-6	
26.00000	6.00000	15.50000	-6.3482	15.130	-44.998	-105.20	-432.37E-6	
27.00000	6.00000	15.50000	-6.1526	15.130	-44.997	-104.85	-433.28E-6	
28.00000	6.00000	15.50000	-5.9579	15.130	-44.996	-104.48	-434.24E-6	
29.00000	6.00000	15.50000	-5.7431	15.130	-44.995	-104.02	-435.40E-6	
30.00000	6.00000	15.50000	-5.49316	15.130	-44.991	-103.40	-436.99E-6	
31.00000	6.00000	15.50000	-5.21797	15.130	-44.981	-102.97	-438.61E-6	
32.00000	6.00000	15.50000	-4.7677	15.130	-44.941	-100.35	-444.19E-6	
33.00000	6.00000	15.50000	-4.1757	15.130	-44.585	-94.517	-453.90E-6	
34.00000	6.00000	15.50000	-3.0733	15.130	-22.499	-52.761	-215.76E-6	
35.00000	6.00000	15.50000	-1.9748	15.130	-0.41280	-11.031	22.388E-6	
36.00000	6.00000	15.50000	-1.3948	15.130	-0.05924	-5.1933	12.725E-6	
37.00000	6.00000	15.50000	-1.0035	15.130	-0.017011	-3.1955	8.1166E-6	
38.00000	6.00000	15.50000	-0.72200	15.130	-0.0070414	-2.2145	5.6994E-6	
39.00000	6.00000	15.50000	-0.51226	15.130	-0.0035065	-1.6432	4.2563E-6	
40.00000	6.00000	15.50000	-0.35285	15.130	-0.0019662	-1.2754	3.3154E-6	
41.00000	6.00000	15.50000	-0.23202	15.130	-0.0011982	-0.92200	2.6627E-6	
42.00000	6.00000	15.50000	-0.13520	15.130	-776.74E-6	-0.83879	2.1886E-6	
43.00000	6.00000	15.50000	-0.061307	15.130	-528.15E-6	-0.70135	1.8319E-6	
44.00000	6.00000	15.50000	-0.0038063	15.130	-373.02E-6	-0.59525	1.5559E-6	
45.00000	6.00000	15.50000	0.040850	15.130	-271.73E-6	-0.51142	1.3336E-6	
46.00000	6.00000	15.50000	0.073566	15.130	-203.08E-6	-0.44393	1.1616E-6	
47.00000	6.00000	15.50000	0.10183	15.130	-155.08E-6	-0.38871	1.0175E-6	
48.00000	6.00000	15.50000	0.12187	15.130	-120.62E-6	-0.34294	0.0	
49.00000	6.00000	15.50000	0.13677	15.130	-95.318E-6	-0.30455	0.0	
50.00000	6.00000	15.50000	0.14757	15.130	-76.375E-6	-0.27203	0.0	
51.00000	6.00000	15.50000	0.15506	15.130	-61.930E-6	-0.24424	0.0	
52.00000	6.00000	15.50000	0.15992	15.130	-50.764E-6	-0.22031	0.0	
53.00000	6.00000	15.50000	0.16267	15.130	-42.012E-6	-0.19956	0.0	
54.00000	6.00000	15.50000	0.16374	15.130	-35.070E-6	-0.18145	0.0	
55.00000	6.00000	15.50000	0.16347	15.130	-29.503E-6	-0.16557	0.0	
-25.00000	7.00000	15.50000	-0.17446	15.130	-24.727E-6	-0.16028	0.0	
-24.00000	7.00000	15.50000	-0.17648	15.130	-28.888E-6	-0.17483	0.0	
-23.00000	7.00000	15.50000	-0.17750	15.130	-33.940E-6	-0.19125	0.0	
-22.00000	7.00000	15.50000	-0.17726	15.130	-40.120E-6	-0.20984	0.0	
-21.00000	7.00000	15.50000	-0.17542	15.130	-47.741E-6	-0.23101	0.0	
-20.00000	7.00000	15.50000	-0.17158	15.130	-57.221E-6	-0.25521	0.0	
-19.00000	7.00000	15.50000	-0.16525	15.130	-69.129E-6	-0.28305	0.0	
-18.00000	7.00000	15.50000	-0.15580	15.130	-84.246E-6	-0.31524	0.0	
-17.00000	7.00000	15.50000	-0.14248	15.130	-103.67E-6	-0.35272	0.0	
-16.00000	7.00000	15.50000	-0.12486	15.130	-128.95E-6	-0.39656	1.0387E-6	
-15.00000	7.00000	15.50000	-0.10028	15.130	-162.34E-6	-0.44860	1.1745E-6	
-14.00000	7.00000	15.50000	-0.068810	15.130	-207.21E-6	-0.51054	1.3363E-6	
-13.00000	7.00000	15.50000	-0.028135	15.130	-268.64E-6	-0.58516	1.5311E-6	
-12.00000	7.00000	15.50000	-0.024008	15.130	-354.65E-6	-0.67611	1.7684E-6	
-11.00000	7.00000	15.50000	-0.049498	15.130	-478.16E-6	-0.78946	2.0612E-6	
-10.00000	7.00000	15.50000	-0.17502	15.130	-660.98E-6	-0.92946	2.4283E-6	
-9.00000	7.00000	15.50000	-0.28234	15.130	-941.56E-6	-1.1098	2.8970E-6	
-8.00000	7.00000	15.50000	-0.41871	15.130	-0.0013916	-1.3456	3.5087E-6	
-7.00000	7.00000	15.50000	-0.59248	15.130	-0.0021540	-1.6628	4.3290E-6	
-6.00000	7.00000	15.50000	-0.81504	15.130	-0.0035404	-2.1051	5.4676E-6	
-5.00000	7.00000	15.50000	-1.1025	15.130	-0.0063114	-2.7514	7.1198E-6	
-4.00000	7.00000	15.50000	-1.4786	15.130	-0.012645	-3.7600	9.6664E-6	
-3.00000	7.00000	15.50000	-1.9809	15.130	-0.030442	-5.4978	13.946E-6	
-2.00000	7.00000	15.50000	-2.6759	15.130	-0.10208	-9.0429	22.119E-6	
-1.00000	7.00000	15.50000	-3.7027	15.130	-0.73428	-19.374	39.275E-6	
0.00000	7.00000	15.50000	-5.6458	15.130	-39.999	-93.584	-384.14E-6	
1.00000	7.00000	15.50000	-7.5880	15.130	-79.263	-167.79	-807.56E-6	
2.00000	7.00000	15.50000	-8.6119	15.130	-79.895	-178.12	-790.42E-6	
3.00000	7.00000	15.50000	-9.3020	15.130	-79.967	-181.65	-782.28E-6	
4.00000	7.00000	15.50000	-9.7970	15.130	-79.985	-183.38	-778.05E-6	
5.00000	7.00000	15.50000	-10.163	15.130	-79.991	-184.36	-775.54E-6	
6.00000	7.00000	15.50000	-10.437	15.130	-79.994	-184.98	-773.96E-6	
7.00000	7.00000	15.50000	-10.642	15.130	-79.995	-185.39	-772.91E-6	
8.00000	7.00000	15.50000	-10.793	15.130	-79.996	-185.67	-772.20E-6	
9.00000	7.00000	15.50000	-10.900	15.130	-79.996	-185.95	-771.72E-6	
10.00000	7.00000	15.50000	-10.970	15.130	-79.996	-185.96	-771.43E-6	
11.00000	7.00000	15.50000	-11.007	15.130	-79.996	-186.02	-771.29E-6	
12.00000	7.00000	15.50000	-11.013	15.130	-79.996	-186.02	-771.29E-6	
13.00000	7.00000	15.50000	-10.987	15.130	-79.996	-185.96	-771.44E-6	
14.00000	7.00000	15.50000	-10.928	15.130	-79.996	-185.93	-771.70E-6	
15.00000	7.00000	15.50000	-10.830	15.130	-79.994	-185.59	-772.38E-6	
16.00000	7.00000	15.50000	-10.684	15.130	-79.992	-185.18	-773.42E-6	
17.00000	7.00000	15.50000	-10.475	15.130	-79.984	-184.44	-775.24E-6	
18.00000	7.00000	15.50000	-10.175	15.130	-79.953	-182.90	-778.79E-6	
19.00000	7.00000	15.50000	-9.7219	15.130	-79.721	-178.37	-786.30E-6	
20.00000	7.00000	15.50000	-8.8607	15.130	-62.498	-145.89	-601.09E-6	
21.00000	7.00000	15.50000	-7.9922	15.130	-45.320	-113.40	-415.91E-6	
22.00000	7.00000	15.50000	-7.5166	15.130	-45.043	-108.85	-423.51E-6	
23.00000	7.00000	15.50000	-7.1770	15.130	-45.012	-107.24	-427.22E-6	
24.00000	7.00000	15.50000	-6.8108	15.130	-45.004	-106.42	-429.27E-6	
25.00000	7.00000	15.50000	-6.6862	15.130	-45.001	-105.88	-430.62E-6	
26.00000	7.00000	15.50000	-6.4836	15.130	-44.999	-105.47	-431.67E-6	
27.00000	7.00000	15.50000	-6.2879	15.130	-44.998	-105.11	-432.62E-6	
28.00000	7.00000	15.50000	-6.0859	15.130	-44.997	-104.72	-433.60E-6	
29.00000	7.00000	15.50000	-5.8904	15.130	-44.995	-104.26	-434.70E-6	
30.00000	7.00000	15.50000	-5.6036	15.130	-44.992	-103.62	-436.43E-6	
31.00000	7.00000	15.50000	-5.2826	15.130	-44.982	-102.58	-438.99E-6	
32.00000	7.00000	15.50000	-4.8608	15.130	-44.941	-100.53	-443.72E-6	
33.00000	7.00000	15.50000	-4.2584	15.130	-44.586	-94.679	-453.48E-6	
34.00000	7.00000	15.50000	-3.4353	15.130	-22.499	-52.990	-215.40E-6	
35.00000	7.00000	15.50000	-2.0363	15.130	-0.41311	-11.125	22.687E-6	
36.00000	7.00000	15.50000	-1.4464	15.130	-0.057485	-5.2877	12.969E-6	
37.00000	7.00000	15.50000	-1.0461	15.130	-0.017175	-3.2714	8.3131E-6	
38.00000	7.00000	15.50000	-0.75670	15.130	-0.007552	-2.2749	5.8562E-6	
39.00000	7.00000	15.50000	-0.54024	15.130	-0.003549	-1.6912	4.3810E-6	
40.00000	7.00000	15.50000	-0.37522	15.130	-0.0020203	-1.3135	3.4146E-6	
41.00000	7.00000	15.50000	-0.24797	15.130	-0.0012357</			



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Dr. Ref.		
Made by	Date	Checked
MP		

Name	Location	Z [Level]	Z [mm]	Calc Level [mOD]	Stresses		
					Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
X [m]	Y [m]						
-10.00000	8.00000	15.50000	-0.18816	15.130	-679.91E-6	-0.95167	2.4863E-6
-9.00000	8.00000	15.50000	-0.29898	15.130	-967.44E-6	-1.1370	2.9681E-6
-8.00000	8.00000	15.50000	-0.43966	15.130	-0.0014272	-1.3792	3.5963E-6
-7.00000	8.00000	15.50000	-0.61866	15.130	-0.0022035	-1.7044	4.4373E-6
-6.00000	8.00000	15.50000	-0.84753	15.130	-0.0036094	-2.1567	5.6018E-6
-5.00000	8.00000	15.50000	-1.12925	15.130	-0.0064076	-2.8152	7.2859E-6
-4.00000	8.00000	15.50000	-1.52773	15.130	-0.012779	-3.8391	9.8717E-6
-3.00000	8.00000	15.50000	-2.0397	15.130	-0.030625	-5.5950	14.198E-6
-2.00000	8.00000	15.50000	-2.7460	15.130	-0.10233	-9.1610	22.426E-6
-1.00000	8.00000	15.50000	-3.7849	15.130	-0.73460	-19.516	39.641E-6
0.00000	8.00000	15.50000	-5.7405	15.130	-0.39.999	-93.752	183.70E-6
1.00000	8.00000	15.50000	-7.6952	15.130	-79.264	-167.98	-807.07E-6
2.00000	8.00000	15.50000	-8.7312	15.130	-79.896	-178.33	-789.87E-6
3.00000	8.00000	15.50000	-9.4323	15.130	-79.967	-181.89	-781.67E-6
4.00000	8.00000	15.50000	-9.9371	15.130	-79.985	-183.63	-777.38E-6
5.00000	8.00000	15.50000	-10.3319	15.130	-79.992	-184.63	-774.38E-6
6.00000	8.00000	15.50000	-10.592	15.130	-79.994	-185.26	-773.24E-6
7.00000	8.00000	15.50000	-10.803	15.130	-79.996	-185.68	-772.16E-6
8.00000	8.00000	15.50000	-10.959	15.130	-79.997	-185.96	-771.44E-6
9.00000	8.00000	15.50000	-11.069	15.130	-79.997	-186.15	-770.95E-6
10.00000	8.00000	15.50000	-11.141	15.130	-79.997	-186.27	-770.65E-6
11.00000	8.00000	15.50000	-11.180	15.130	-79.997	-186.32	-770.50E-6
12.00000	8.00000	15.50000	-11.186	15.130	-79.997	-186.32	-770.50E-6
13.00000	8.00000	15.50000	-11.159	15.130	-79.997	-186.26	-770.66E-6
14.00000	8.00000	15.50000	-11.099	15.130	-79.996	-186.13	-771.00E-6
15.00000	8.00000	15.50000	-10.998	15.130	-79.995	-185.88	-771.60E-6
16.00000	8.00000	15.50000	-10.850	15.130	-79.992	-185.47	-772.67E-6
17.00000	8.00000	15.50000	-10.637	15.130	-79.985	-184.72	-774.50E-6
18.00000	8.00000	15.50000	-10.331	15.130	-79.953	-183.17	-778.08E-6
19.00000	8.00000	15.50000	-9.8728	15.130	-79.677	-178.64	-785.62E-6
20.00000	8.00000	15.50000	-9.4058	15.130	-62.438	-146.15	-600.43E-6
21.00000	8.00000	15.50000	-8.1311	15.130	-45.320	-113.64	-415.29E-6
22.00000	8.00000	15.50000	-7.6494	15.130	-45.044	-109.08	-422.91E-6
23.00000	8.00000	15.50000	-7.3038	15.130	-45.012	-107.46	-426.65E-6
24.00000	8.00000	15.50000	-7.0316	15.130	-45.004	-106.62	-428.73E-6
25.00000	8.00000	15.50000	-6.8013	15.130	-45.001	-106.08	-430.11E-6
26.00000	8.00000	15.50000	-6.5930	15.130	-45.000	-105.66	-431.18E-6
27.00000	8.00000	15.50000	-6.3917	15.130	-44.999	-105.29	-432.14E-6
28.00000	8.00000	15.50000	-6.1838	15.130	-44.998	-104.90	-433.15E-6
29.00000	8.00000	15.50000	-5.9553	15.130	-44.996	-104.42	-434.37E-6
30.00000	8.00000	15.50000	-5.6890	15.130	-44.992	-103.77	-436.03E-6
31.00000	8.00000	15.50000	-5.3610	15.130	-44.982	-102.72	-438.63E-6
32.00000	8.00000	15.50000	-4.9319	15.130	-44.942	-100.66	-443.39E-6
33.00000	8.00000	15.50000	-4.3218	15.130	-44.586	-94.793	-453.19E-6
34.00000	8.00000	15.50000	-3.2009	15.130	-22.500	-52.990	-215.15E-6
35.00000	8.00000	15.50000	-2.0842	15.130	-0.48329	-11.209	22.905E-6
36.00000	8.00000	15.50000	-1.4871	15.130	-0.057625	-5.3579	13.151E-6
37.00000	8.00000	15.50000	-1.0801	15.130	-0.017280	-3.3292	8.4630E-6
38.00000	8.00000	15.50000	-0.78473	15.130	-0.0072313	-2.3220	5.9786E-6
39.00000	8.00000	15.50000	-0.56311	15.130	-0.0036398	-1.7294	4.4803E-6
40.00000	8.00000	15.50000	-0.39369	15.130	-0.0020598	-1.3444	3.4951E-6
41.00000	8.00000	15.50000	-0.26274	15.130	-0.0012641	-1.0775	2.8072E-6
42.00000	8.00000	15.50000	-0.16091	15.130	-823.55E-6	-0.88353	2.3052E-6
43.00000	8.00000	15.50000	-0.081465	15.130	-561.75E-6	-0.73764	1.9266E-6
44.00000	8.00000	15.50000	-0.019479	15.130	-397.41E-6	-0.62445	1.6332E-6
45.00000	8.00000	15.50000	0.028788	15.130	-289.63E-6	-0.53571	1.4010E-6
46.00000	8.00000	15.50000	0.066194	15.130	-216.37E-6	-0.46397	1.2140E-6
47.00000	8.00000	15.50000	0.094963	15.130	-165.05E-6	-0.40536	1.0610E-6
48.00000	8.00000	15.50000	0.11684	15.130	-128.18E-6	-0.35684	0.0
49.00000	8.00000	15.50000	0.13320	15.130	-101.10E-6	-0.31622	0.0
50.00000	8.00000	15.50000	0.14513	15.130	-80.834E-6	-0.28188	0.0
51.00000	8.00000	15.50000	0.15353	15.130	-65.410E-6	-0.25260	0.0
52.00000	8.00000	15.50000	0.15909	15.130	-53.498E-6	-0.22744	0.0
53.00000	8.00000	15.50000	0.16237	15.130	-44.177E-6	-0.20257	0.0
54.00000	8.00000	15.50000	0.16386	15.130	-36.79E-6	-0.16671	0.0
55.00000	8.00000	15.50000	0.16390	15.130	-30.890E-6	-0.17011	0.0
-25.00000	9.00000	15.50000	0.17528	15.130	-25.578E-6	-0.16363	0.0
-24.00000	9.00000	15.50000	0.17713	15.130	-29.927E-6	-0.17867	0.0
-23.00000	9.00000	15.50000	0.17793	15.130	-35.216E-6	-0.19567	0.0
-22.00000	9.00000	15.50000	0.17740	15.130	-41.695E-6	-0.21495	0.0
-21.00000	9.00000	15.50000	0.17517	15.130	-49.697E-6	-0.23693	0.0
-20.00000	9.00000	15.50000	0.17083	15.130	-59.665E-6	-0.26211	0.0
-19.00000	9.00000	15.50000	0.16383	15.130	-72.203E-6	-0.29110	0.0
-18.00000	9.00000	15.50000	0.15394	15.130	-88.139E-6	-0.32470	0.0
-17.00000	9.00000	15.50000	0.13915	15.130	-108.13E-6	-0.36387	0.0
-16.00000	9.00000	15.50000	0.11968	15.130	-135.32E-6	-0.40987	1.0733E-6
-15.00000	9.00000	15.50000	0.093885	15.130	-170.59E-6	-0.46432	1.2156E-6
-14.00000	9.00000	15.50000	0.060260	15.130	-217.97E-6	-0.52933	1.3854E-6
-13.00000	9.00000	15.50000	0.016896	15.130	-282.79E-6	-0.60774	1.5901E-6
-12.00000	9.00000	15.50000	-0.038599	15.130	-373.40E-6	-0.70337	1.8396E-6
-11.00000	9.00000	15.50000	-0.10925	15.130	-503.23E-6	-0.82154	2.1476E-6
-10.00000	9.00000	15.50000	-0.19890	15.130	-694.77E-6	-0.96977	2.5335E-6
-9.00000	9.00000	15.50000	-0.31253	15.130	-987.43E-6	-1.1591	3.0257E-6
-8.00000	9.00000	15.50000	-0.45661	15.130	-0.0014542	-1.4062	3.6666E-6
-7.00000	9.00000	15.50000	-0.63970	15.130	-0.002401	-1.7374	4.5234E-6
-6.00000	9.00000	15.50000	-0.87345	15.130	-0.0036589	-2.1971	5.7071E-6
-5.00000	9.00000	15.50000	-1.1741	15.130	-0.0064745	-2.8647	7.4145E-6
-4.00000	9.00000	15.50000	-1.5656	15.130	-0.012868	-3.8992	10.028E-6
-3.00000	9.00000	15.50000	-2.0854	15.130	-0.030743	-5.6675	14.386E-6
-2.00000	9.00000	15.50000	-2.7998	15.130	-0.10248	-9.2476	22.650E-6
-1.00000	9.00000	15.50000	-3.8475	15.130	-0.73479	-19.618	39.905E-6
0.00000	9.00000	15.50000	-5.8121	15.130	-39.999	-93.868	-383.41E-6
1.00000	9.00000	15.50000	-7.7758	15.130	-79.264	-168.12	-806.72E-6
2.00000	9.00000	15.50000	-8.8204	15.130	-79.896	-178.48	-789.48E-6
3.00000	9.00000	15.50000	-9.5296	15.130	-79.967	-182.05	-781.28E-6
4.00000	9.00000	15.50000	-10.042	15.130	-79.986	-183.80	-776.93E-6
5.00000	9.00000	15.50000	-10.422	15.130	-79.992	-184.82	-774.37E-6
6.00000	9.00000	15.50000	-10.709	15.130	-79.995	-185.46	-772.74E-6
7.00000	9.00000	15.50000	-10.923	15.130	-79.996	-185.88	-771.64E-6
8.00000	9.00000	15.50000	-11.082	15.130	-79.997	-186.17	-770.90E-6
9.00000	9.00000	15.50000	-11.195	15.130	-79.997	-186.36	-770.41E-6
10.00000	9.00000	15.50000	-11.269	15.130	-79.998	-186.48	-770.10E-6
11.00000	9.00000	15.50000	-11.309	15.130	-79.998	-186.54	-769.95E-6
12.00000	9.00000	15.50000	-11.315	15.130	-79.998	-186.54	-769.95E-6
13.00000	9.00000	15.50000	-11.289	15.130	-79.997	-186.47	-770.10E-6
14.00000	9.00000	15.50000	-11.227	15.130	-79.997	-186.34	-770.46E-6
15.00000	9.00000	15.50000	-11.125	15.130	-79.996	-186.09	-771.08E-6
16.00000	9.00000	15.50000	-10.973	15.130	-79.993	-185.67	-772.14E-6
17.00000	9.00000	15.50000	-10.758	15.130	-79.981	-184.92	-773.99E-6
18.00000	9.00000	15.50000	-10.449	15.130	-79.954	-183.36	-771.58E-6
19.00000	9.00000	15.50000	-9.9864	15.130	-79.677	-178.82	-785.14E-6
20.00000	9.00000	15.50000	-9.1152	15.130	-62.499	-146.32	-599.97E-6
21.00000	9.00000	15.50000	-8.2361	15.130	-45.321	-113.81	-414.84E-6
22.00000	9.00000	15.50000	-7.7489	15.130	-45.044	-109.24	-422.49E-6
23.00000	9.00000	15.50000	-7.3997	15.130	-45.012	-107.52	-426.46E-6
24.00000	9.00000	15.50000	-7.1231	15.130	-45.004	-106.77	-428.34E-6
25.							



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Dr. Ref.		
Made by	Date	Checked
MP		

Name	Location	Z [Level] [m]	Z [mm]	Calc Level [mOD]	Stresses		
					Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
50.00000	9.00000	15.50000	0.14418	15.130	-82.531E-6	-0.28566	0.0
51.00000	9.00000	15.50000	0.15292	15.130	-66.739E-6	-0.25581	0.0
52.00000	9.00000	15.50000	0.15875	15.130	-54.546E-6	-0.23018	0.0
53.00000	9.00000	15.50000	0.16224	15.130	-45.008E-6	-0.20801	0.0
54.00000	9.00000	15.50000	0.16389	15.130	-37.460E-6	-0.18873	0.0
55.00000	9.00000	15.50000	0.16495	15.130	-31.424E-6	-0.17156	0.0
-25.00000	10.00000	15.50000	0.17556	15.130	-25.883E-6	-0.16483	0.0
-24.00000	10.00000	15.50000	0.17736	15.130	-30.300E-6	-0.18005	0.0
-23.00000	10.00000	15.50000	0.17808	15.130	-35.673E-6	-0.19725	0.0
-22.00000	10.00000	15.50000	0.17744	15.130	-42.259E-6	-0.21677	0.0
-21.00000	10.00000	15.50000	0.17507	15.130	-50.396E-6	-0.23904	0.0
-20.00000	10.00000	15.50000	0.17054	15.130	-60.538E-6	-0.26457	0.0
-19.00000	10.00000	15.50000	0.16331	15.130	-73.298E-6	-0.29398	0.0
-18.00000	10.00000	15.50000	0.15272	15.130	-89.522E-6	-0.32807	0.0
-17.00000	10.00000	15.50000	0.13795	15.130	-110.39E-6	-0.36785	0.0
-16.00000	10.00000	15.50000	0.11799	15.130	-137.57E-6	-0.41458	1.0856E-6
-15.00000	10.00000	15.50000	0.091595	15.130	-173.49E-6	-0.46991	1.2302E-6
-14.00000	10.00000	15.50000	0.057213	15.130	-221.72E-6	-0.53600	1.4029E-6
-13.00000	10.00000	15.50000	0.012907	15.130	-287.68E-6	-0.61573	1.6110E-6
-12.00000	10.00000	15.50000	-0.043753	15.130	-379.80E-6	-0.71298	1.8647E-6
-11.00000	10.00000	15.50000	-0.13584	15.130	-511.68E-6	-0.83312	2.1702E-6
-10.00000	10.00000	15.50000	-0.20725	15.130	-705.91E-6	-0.98379	2.5701E-6
-9.00000	10.00000	15.50000	-0.32301	15.130	-0.0010022	-1.1761	3.0700E-6
-8.00000	10.00000	15.50000	-0.46965	15.130	-0.0014739	-1.4268	3.7204E-6
-7.00000	10.00000	15.50000	-0.65581	15.130	-0.0022662	-1.7625	4.5887E-6
-6.00000	10.00000	15.50000	-0.89316	15.130	-0.003935	-2.2275	5.7862E-6
-5.00000	10.00000	15.50000	-1.1980	15.130	-0.0065200	-2.9014	7.5101E-6
-4.00000	10.00000	15.50000	-1.5942	15.130	-0.012928	-3.9432	10.143E-6
-3.00000	10.00000	15.50000	-2.1194	15.130	-0.030819	-5.7200	14.523E-6
-2.00000	10.00000	15.50000	-2.8396	15.130	-0.10258	-9.305	22.811E-6
-1.00000	10.00000	15.50000	-3.8934	15.130	-0.34981	-19.690	40.092E-6
0.00000	10.00000	15.50000	-5.8644	15.130	-0.99999	-93.951	383.19E-6
1.00000	10.00000	15.50000	-7.8344	15.130	-79.264	-168.21	806.48E-6
2.00000	10.00000	15.50000	-8.8851	15.130	-79.896	-178.58	789.22E-6
3.00000	10.00000	15.50000	-9.9999	15.130	-79.968	-182.16	780.96E-6
4.00000	10.00000	15.50000	-10.117	15.130	-79.986	-183.92	776.62E-6
5.00000	10.00000	15.50000	-10.502	15.130	-79.992	-184.94	774.04E-6
6.00000	10.00000	15.50000	-10.792	15.130	-79.995	-185.59	772.39E-6
7.00000	10.00000	15.50000	-11.011	15.130	-79.997	-186.02	771.29E-6
8.00000	10.00000	15.50000	-11.172	15.130	-79.997	-186.31	770.54E-6
9.00000	10.00000	15.50000	-11.287	15.130	-79.998	-186.50	770.03E-6
10.00000	10.00000	15.50000	-11.362	15.130	-79.998	-186.62	769.72E-6
11.00000	10.00000	15.50000	-11.402	15.130	-79.998	-186.68	769.57E-6
12.00000	10.00000	15.50000	-11.409	15.130	-79.998	-186.68	769.57E-6
13.00000	10.00000	15.50000	-11.382	15.130	-79.998	-186.62	769.72E-6
14.00000	10.00000	15.50000	-11.320	15.130	-79.997	-186.48	770.08E-6
15.00000	10.00000	15.50000	-11.216	15.130	-79.996	-186.24	770.71E-6
16.00000	10.00000	15.50000	-11.063	15.130	-79.993	-185.81	771.77E-6
17.00000	10.00000	15.50000	-10.846	15.130	-79.985	-185.06	773.63E-6
18.00000	10.00000	15.50000	-10.584	15.130	-79.954	-183.50	777.23E-6
19.00000	10.00000	15.50000	-10.269	15.130	-79.677	-178.95	784.80E-6
20.00000	10.00000	15.50000	-9.950	15.130	-62.499	-146.45	599.65E-6
21.00000	10.00000	15.50000	-8.3127	15.130	-45.321	-113.93	414.53E-6
22.00000	10.00000	15.50000	-7.8233	15.130	-45.044	-109.35	422.19E-6
23.00000	10.00000	15.50000	-7.4698	15.130	-45.013	-107.73	425.96E-6
24.00000	10.00000	15.50000	-7.1899	15.130	-45.005	-106.88	428.07E-6
25.00000	10.00000	15.50000	-6.9520	15.130	-45.002	-106.32	429.48E-6
26.00000	10.00000	15.50000	-6.7361	15.130	-45.000	-105.90	430.58E-6
27.00000	10.00000	15.50000	-6.5271	15.130	-44.999	-105.51	431.57E-6
28.00000	10.00000	15.50000	-6.3113	15.130	-44.998	-105.10	432.62E-6
29.00000	10.00000	15.50000	-6.0746	15.130	-44.996	-104.62	433.86E-6
30.00000	10.00000	15.50000	-5.7998	15.130	-44.992	-103.95	435.56E-6
31.00000	10.00000	15.50000	-5.4628	15.130	-44.982	-102.89	438.19E-6
32.00000	10.00000	15.50000	-5.0243	15.130	-44.942	-100.91	442.99E-6
33.00000	10.00000	15.50000	-4.4046	15.130	-44.806	-94.929	452.83E-6
34.00000	10.00000	15.50000	-3.2740	15.130	-22.500	-53.119	214.84E-6
35.00000	10.00000	15.50000	-2.1478	15.130	-0.41347	-11.314	23.175E-6
36.00000	10.00000	15.50000	-1.5416	15.130	-0.057767	-5.4468	13.382E-6
37.00000	10.00000	15.50000	-0.1263	15.130	-0.017391	-3.4041	8.6578E-6
38.00000	10.00000	15.50000	0.82327	15.130	0.0073166	2.3845	6.1412E-6
39.00000	10.00000	15.50000	0.59491	15.130	0.0037043	1.7812	4.6151E-6
40.00000	10.00000	15.50000	0.41965	15.130	0.0021081	1.3871	3.6063E-6
41.00000	10.00000	15.50000	0.28373	15.130	0.0013002	1.1126	2.8987E-6
42.00000	10.00000	15.50000	0.17771	15.130	850.44E-6	-0.91243	2.3806E-6
43.00000	10.00000	15.50000	0.09496	15.130	581.82E-6	-0.76145	1.9888E-6
44.00000	10.00000	15.50000	0.02945	15.130	412.46E-6	-0.64451	1.6846E-6
45.00000	10.00000	15.50000	0.020661	15.130	300.97E-6	-0.55199	1.4436E-6
46.00000	10.00000	15.50000	0.05967	15.130	224.96E-6	-0.47752	1.2494E-6
47.00000	10.00000	15.50000	0.090268	15.130	171.60E-6	-0.41666	1.0905E-6
48.00000	10.00000	15.50000	0.11337	15.130	133.21E-6	-0.36132	0.9622E-6
49.00000	10.00000	15.50000	0.13071	15.130	104.99E-6	-0.32420	0.0
50.00000	10.00000	15.50000	0.14343	15.130	83.858E-6	-0.28863	0.0
51.00000	10.00000	15.50000	0.15243	15.130	67.780E-6	-0.25834	0.0
52.00000	10.00000	15.50000	0.15847	15.130	55.368E-6	-0.23233	0.0
53.00000	10.00000	15.50000	0.16213	15.130	45.662E-6	-0.20986	0.0
54.00000	10.00000	15.50000	0.16390	15.130	37.983E-6	-0.19032	0.0
55.00000	10.00000	15.50000	0.16417	15.130	31.844E-6	-0.17323	0.0
-25.00000	11.00000	15.50000	0.17576	15.130	-26.103E-6	-0.16569	0.0
-24.00000	11.00000	15.50000	0.17751	15.130	-30.568E-6	-0.18103	0.0
-23.00000	11.00000	15.50000	0.17818	15.130	-36.002E-6	-0.19839	0.0
-22.00000	11.00000	15.50000	0.17746	15.130	-42.665E-6	-0.21809	0.0
-21.00000	11.00000	15.50000	0.17499	15.130	-50.900E-6	-0.24057	0.0
-20.00000	11.00000	15.50000	0.17033	15.130	-61.167E-6	-0.26634	0.0
-19.00000	11.00000	15.50000	0.16294	15.130	-74.087E-6	-0.29605	0.0
-18.00000	11.00000	15.50000	0.15213	15.130	-90.517E-6	-0.33051	0.0
-17.00000	11.00000	15.50000	0.13708	15.130	-111.65E-6	-0.37071	0.0
-16.00000	11.00000	15.50000	0.11677	15.130	-139.18E-6	-0.41796	1.0945E-6
-15.00000	11.00000	15.50000	0.089945	15.130	-175.55E-6	-0.47393	1.2407E-6
-14.00000	11.00000	15.50000	0.055021	15.130	-224.38E-6	-0.54080	1.4154E-6
-13.00000	11.00000	15.50000	0.010444	15.130	-291.14E-6	-0.62146	1.6240E-6
-12.00000	11.00000	15.50000	-0.047444	15.130	-384.31E-6	-0.71985	1.8827E-6
-11.00000	11.00000	15.50000	-0.12054	15.130	-517.55E-6	-0.84139	2.1995E-6
-10.00000	11.00000	15.50000	-0.21319	15.130	-713.64E-6	-0.99376	2.5962E-6
-9.00000	11.00000	15.50000	-0.33045	15.130	-0.0010124	-1.1891	3.1014E-6
-8.00000	11.00000	15.50000	-0.47888	15.130	-0.0038972	-1.4414	3.7584E-6
-7.00000	11.00000	15.50000	-0.66716	15.130	-0.0022837	-1.7800	4.6345E-6
-6.00000	11.00000	15.50000	-0.90699	15.130	-0.0037163	-2.2486	5.8413E-6
-5.00000	11.00000	15.50000	-1.2147	15.130	-0.0065494	-2.9267	7.5760E-6
-4.00000	11.00000	15.50000	-1.6141	15.130	-0.012965	-3.9794	10.221E-6
-3.00000	11.00000	15.50000	-2.1429	15.130	-0.030866	-5.7556	14.616E-6
-2.00000	11.00000	15.50000	-2.8670	15.130	-0.10263	-9.3511	22.920E-6
-1.00000	11.00000	15.50000	-3.9249	15.130	-0.73498	-19.738	40.217E-6
0.00000	11.00000	15.50000	-5.9001	15.130	-40.000	-94.005	383.05E-6
1.00000	11.00000	15.50000	-7.8742	15.130	-79.264	-168.27	806.32E-6
2.00000	11.00000	15.50000	-8.8851	15.130	-79.896	-178.58	789.22E-6
3.00000							

Job No.	Sheet No.	Rev.
J15249		
Dr. Ref.		
Made by	Date	Checked
MP		

Name	Location	Z [Level] [m]	Z [mm]	Calc Level [mOD]	Stresses		
					Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
29.00000	11.00000	15.50000	-6.1088	15.130	-44.996	-104.67	-433.73E-6
30.00000	11.00000	15.50000	-5.8315	15.130	-44.992	-104.00	-435.43E-6
31.00000	11.00000	15.50000	-5.4920	15.130	-44.982	-102.93	-438.07E-6
32.00000	11.00000	15.50000	-5.0508	15.130	-44.942	-100.85	-442.89E-6
33.00000	11.00000	15.50000	-4.4284	15.130	-44.586	-94.967	-452.73E-6
34.00000	11.00000	15.50000	-3.2952	15.130	-42.500	-53.152	-214.70E-6
35.00000	11.00000	15.50000	-2.1664	15.130	-40.41351	-11.343	23.251E-6
36.00000	11.00000	15.50000	-1.5576	15.130	-0.057801	-5.4719	13.447E-6
37.00000	11.00000	15.50000	-1.1399	15.130	-0.017418	-3.4256	8.7137E-6
38.00000	11.00000	15.50000	-0.83476	15.130	-0.0073382	-2.4027	6.1886E-6
39.00000	11.00000	15.50000	-0.60449	15.130	-0.0037232	-1.7965	4.6550E-6
40.00000	11.00000	15.50000	-0.42753	15.130	-0.0021212	-1.3999	3.6397E-6
41.00000	11.00000	15.50000	-0.29015	15.130	-0.0013102	-1.1232	2.9265E-6
42.00000	11.00000	15.50000	-0.18289	15.130	-858.13E-6	-0.92128	2.4037E-6
43.00000	11.00000	15.50000	-0.098925	15.130	-587.70E-6	-0.76880	2.0079E-6
44.00000	12.00000	15.50000	-0.033205	15.130	-416.94E-6	-0.65062	1.7032E-6
45.00000	11.00000	15.50000	0.018118	15.130	-304.39E-6	-0.55709	1.4569E-6
46.00000	11.00000	15.50000	0.058009	15.130	-227.58E-6	-0.48177	1.2605E-6
47.00000	11.00000	15.50000	0.088786	15.130	-173.62E-6	-0.42023	1.0998E-6
48.00000	11.00000	15.50000	0.11227	15.130	-134.77E-6	-0.36931	0.0
49.00000	11.00000	15.50000	0.12992	15.130	-106.20E-6	-0.32973	0.0
50.00000	11.00000	15.50000	0.14288	15.130	-84.808E-6	-0.29077	0.0
51.00000	11.00000	15.50000	0.15208	15.130	-68.527E-6	-0.26015	0.0
52.00000	11.00000	15.50000	0.15827	15.130	-55.959E-6	-0.23388	0.0
53.00000	11.00000	15.50000	0.16205	15.130	-46.132E-6	-0.21119	0.0
54.00000	11.00000	15.50000	0.16391	15.130	-38.359E-6	-0.19146	0.0
55.00000	11.00000	15.50000	0.16425	15.130	-32.148E-6	-0.17422	0.0
-25.00000	12.00000	15.50000	0.17588	15.130	-26.236E-6	-0.16621	0.0
-24.00000	12.00000	15.50000	0.17761	15.130	-30.730E-6	-0.18163	0.0
-23.00000	12.00000	15.50000	0.17824	15.130	-36.201E-6	-0.19907	0.0
-22.00000	12.00000	15.50000	0.17747	15.130	-42.911E-6	-0.21388	0.0
-21.00000	12.00000	15.50000	0.17495	15.130	-51.205E-6	-0.24149	0.0
-20.00000	12.00000	15.50000	0.17021	15.130	-61.546E-6	-0.26741	0.0
-19.00000	12.00000	15.50000	0.16271	15.130	-74.562E-6	-0.29731	0.0
-18.00000	12.00000	15.50000	0.15177	15.130	-91.116E-6	-0.33197	0.0
-17.00000	12.00000	15.50000	0.13655	15.130	-112.418E-6	-0.37244	0.0
-16.00000	12.00000	15.50000	0.11604	15.130	-140.15E-6	-0.42001	1.0998E-6
-15.00000	12.00000	15.50000	0.088949	15.130	-176.79E-6	-0.47635	1.2471E-6
-14.00000	12.00000	15.50000	0.053701	15.130	-225.98E-6	-0.54368	1.4229E-6
-13.00000	12.00000	15.50000	0.0032210	15.130	-293.20E-6	-0.62491	1.6350E-6
-12.00000	12.00000	15.50000	-0.048662	15.130	-386.98E-6	-0.72398	1.8935E-6
-11.00000	12.00000	15.50000	-0.12337	15.130	-521.03E-6	-0.84635	2.2124E-6
-10.00000	12.00000	15.50000	-0.21675	15.130	-718.18E-6	-0.99972	2.6118E-6
-9.00000	12.00000	15.50000	-0.33489	15.130	-0.0010183	-1.1953	3.1202E-6
-8.00000	12.00000	15.50000	-0.48438	15.130	-0.0014949	-1.4500	3.7809E-6
-7.00000	12.00000	15.50000	-0.67931	15.130	-0.0022937	-1.7904	4.6616E-6
-6.00000	12.00000	15.50000	-0.91519	15.130	-0.0037292	-2.2610	5.8737E-6
-5.00000	12.00000	15.50000	-1.2246	15.130	-0.0065659	-2.9416	7.6147E-6
-4.00000	12.00000	15.50000	-1.6259	15.130	-0.012986	-3.9909	10.267E-6
-3.00000	12.00000	15.50000	-2.1567	15.130	-0.030922	-5.7763	14.669E-6
-2.00000	12.00000	15.50000	-2.8830	15.130	-0.10267	-9.3751	22.982E-6
-1.00000	12.00000	15.50000	-3.9432	15.130	-0.73501	-19.765	40.289E-6
0.00000	12.00000	15.50000	-5.9208	15.130	-40.000	-94.037	382.97E-6
1.00000	12.00000	15.50000	-7.8973	15.130	-79.264	-168.31	806.23E-6
2.00000	12.00000	15.50000	-9.8543	15.130	-97.806	-171.59	788.94E-6
3.00000	12.00000	15.50000	-9.6751	15.130	-79.968	-182.28	780.66E-6
4.00000	12.00000	15.50000	-10.198	15.130	-79.986	-184.05	776.30E-6
5.00000	12.00000	15.50000	-10.588	15.130	-79.993	-185.07	773.70E-6
6.00000	12.00000	15.50000	-10.882	15.130	-79.995	-185.73	772.04E-6
7.00000	12.00000	15.50000	-11.104	15.130	-79.997	-186.16	770.92E-6
8.00000	12.00000	15.50000	-11.268	15.130	-79.997	-186.45	770.16E-6
9.00000	12.00000	15.50000	-11.385	15.130	-79.998	-186.65	769.65E-6
10.00000	12.00000	15.50000	-11.462	15.130	-79.998	-186.77	769.33E-6
11.00000	12.00000	15.50000	-11.503	15.130	-79.998	-186.83	769.17E-6
12.00000	12.00000	15.50000	-11.510	15.130	-79.998	-186.83	769.17E-6
13.00000	12.00000	15.50000	-11.483	15.130	-79.998	-186.77	769.33E-6
14.00000	12.00000	15.50000	-11.419	15.130	-79.997	-186.63	769.69E-6
15.00000	12.00000	15.50000	-11.315	15.130	-79.996	-186.38	770.32E-6
16.00000	12.00000	15.50000	-11.160	15.130	-79.993	-185.96	771.39E-6
17.00000	12.00000	15.50000	-10.940	15.130	-79.985	-185.20	773.26E-6
18.00000	12.00000	15.50000	-10.626	15.130	-79.954	-183.63	776.88E-6
19.00000	12.00000	15.50000	-10.158	15.130	-79.677	-179.09	784.45E-6
20.00000	12.00000	15.50000	-9.2808	15.130	-62.499	-146.58	599.32E-6
21.00000	12.00000	15.50000	-8.3952	15.130	-45.321	-114.06	414.21E-6
22.00000	12.00000	15.50000	-7.5023	15.130	-25.044	-109.47	421.81E-6
23.00000	12.00000	15.50000	-7.5454	15.130	-45.013	-107.84	425.67E-6
24.00000	12.00000	15.50000	-7.2620	15.130	-45.005	-106.99	427.79E-6
25.00000	12.00000	15.50000	-7.0206	15.130	-45.002	-106.43	429.21E-6
26.00000	12.00000	15.50000	-6.8012	15.130	-45.000	-105.99	430.32E-6
27.00000	12.00000	15.50000	-6.5886	15.130	-44.999	-105.60	431.32E-6
28.00000	12.00000	15.50000	-6.3691	15.130	-44.998	-105.19	432.39E-6
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30.00000	12.00000	15.50000	-5.8499	15.130	-44.993	-104.03	435.36E-6
31.00000	12.00000	15.50000	-5.5089	15.130	-44.982	-102.96	438.01E-6
32.00000	12.00000	15.50000	-5.0662	15.130	-44.942	-100.98	442.82E-6
33.00000	12.00000	15.50000	-4.4423	15.130	-44.586	-94.988	452.68E-6
34.00000	12.00000	15.50000	-3.3075	15.130	-22.500	-53.171	214.70E-6
35.00000	12.00000	15.50000	-2.1772	15.130	-0.41353	-11.359	23.294E-6
36.00000	12.00000	15.50000	-1.5670	15.130	-0.057819	-5.4864	13.485E-6
37.00000	12.00000	15.50000	-1.1479	15.130	-0.017433	-3.4391	8.7463E-6
38.00000	12.00000	15.50000	-0.84153	15.130	-0.0073502	-2.4133	6.2163E-6
39.00000	12.00000	15.50000	-0.61013	15.130	-0.0037307	-1.8055	4.6784E-6
40.00000	12.00000	15.50000	-0.43220	15.130	-0.0021286	-1.4075	3.6593E-6
41.00000	12.00000	15.50000	-0.28937	15.130	-0.0013160	-1.1296	2.9430E-6
42.00000	12.00000	15.50000	-0.18597	15.130	-862.59E-6	-0.92655	2.4172E-6
43.00000	12.00000	15.50000	-0.10139	15.130	-591.13E-6	-0.77319	2.0194E-6
44.00000	12.00000	15.50000	-0.035157	15.130	-419.57E-6	-0.65428	1.7101E-6
45.00000	12.00000	15.50000	0.016592	15.130	-306.42E-6	-0.56014	1.4649E-6
46.00000	12.00000	15.50000	0.056833	15.130	-229.14E-6	-0.48432	1.2671E-6
47.00000	12.00000	15.50000	0.087894	15.130	-174.89E-6	-0.42237	1.1054E-6
48.00000	12.00000	15.50000	0.11161	15.130	-135.70E-6	-0.37111	0.0
49.00000	12.00000	15.50000	0.12944	15.130	-106.93E-6	-0.32825	0.0
50.00000	12.00000	15.50000	0.14255	15.130	-85.378E-6	-0.29206	0.0
51.00000	12.00000	15.50000	0.15187	15.130	-68.976E-6	-0.26125	0.0
52.00000	12.00000	15.50000	0.15815	15.130	-56.315E-6	-0.23482	0.0
53.00000	12.00000	15.50000	0.16200	15.130	-46.415E-6	-0.21199	0.0
54.00000	12.00000	15.50000	0.16392	15.130	-38.587E-6	-0.19216	0.0
55.00000	12.00000	15.50000	0.16429	15.130	-32.330E-6	-0.17482	0.0
-25.00000	13.00000	15.50000	0.17592	15.130	-26.280E-6	-0.16638	0.0
-24.00000	13.00000	15.50000	0.17764	15.130	-30.788E-6	-0.18183	0.0
-23.00000	13.00000	15.50000	0.17826	15.130	-36.268E-6	-0.19930	0.0
-22.00000	13.00000	15.50000	0.17748	15.130	-42.993E-6	-0.21915	0.0
-21.00000	13.00000	15.50000	0.17493	15.130	-51.306E-6	-0.24180	0.0
-20.00000	13.00000	15.50000	0.17016	15.130	-61.673E-6	-0.26777	0.0
-19.00000	13.00000	15.50000	0.16433	15.130	-74.721E-6	-0.29772</	



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Dr. Ref.		
Made by	Date	Checked
MP		

Name	Location	Z [Level]	Z [mm]	Calc Level [mOD]	Stresses		
					Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
8.00000	13.00000	15.50000	-11.279	15.130	-79.998	-186.47	-770.11E-6
9.00000	13.00000	15.50000	-11.397	15.130	-79.998	-186.67	-769.60E-6
10.00000	13.00000	15.50000	-11.474	15.130	-79.998	-186.79	-769.28E-6
11.00000	13.00000	15.50000	-11.515	15.130	-79.998	-186.85	-769.13E-6
12.00000	13.00000	15.50000	-11.522	15.130	-79.998	-186.85	-769.13E-6
13.00000	13.00000	15.50000	-11.495	15.130	-79.998	-186.79	-769.28E-6
14.00000	13.00000	15.50000	-11.431	15.130	-79.997	-186.65	-769.64E-6
15.00000	13.00000	15.50000	-11.327	15.130	-79.996	-186.40	-770.28E-6
16.00000	13.00000	15.50000	-11.172	15.130	-79.993	-185.98	-771.35E-6
17.00000	13.00000	15.50000	-10.951	15.130	-79.986	-185.22	-773.22E-6
18.00000	13.00000	15.50000	-10.637	15.130	-79.954	-183.65	-776.83E-6
19.00000	13.00000	15.50000	-10.169	15.130	-79.677	-179.10	-784.41E-6
20.00000	13.00000	15.50000	-9.2911	15.130	-62.499	-146.59	-599.28E-6
21.00000	13.00000	15.50000	-8.4052	15.130	-45.321	-114.07	-414.17E-6
22.00000	13.00000	15.50000	-7.9119	15.130	-45.044	-109.49	-421.85E-6
23.00000	13.00000	15.50000	-7.5545	15.130	-45.013	-107.86	-425.63E-6
24.00000	13.00000	15.50000	-7.2707	15.130	-45.005	-107.00	-427.75E-6
25.00000	13.00000	15.50000	-7.0289	15.130	-45.002	-106.44	-429.18E-6
26.00000	13.00000	15.50000	-6.8090	15.130	-45.000	-106.01	-430.29E-6
27.00000	13.00000	15.50000	-6.5960	15.130	-44.999	-105.61	-431.30E-6
28.00000	13.00000	15.50000	-6.3961	15.130	-44.998	-105.20	-432.33E-6
29.00000	13.00000	15.50000	-6.1351	15.130	-44.996	-104.71	-433.62E-6
30.00000	13.00000	15.50000	-5.8559	15.130	-44.993	-104.04	-435.33E-6
31.00000	13.00000	15.50000	-5.5144	15.130	-44.982	-102.97	-437.99E-6
32.00000	13.00000	15.50000	-5.0713	15.130	-44.942	-100.89	-442.80E-6
33.00000	13.00000	15.50000	-4.4468	15.130	-44.866	-94.95	-452.63E-6
34.00000	13.00000	15.50000	-3.3115	15.130	-22.500	-53.177	-214.68E-6
35.00000	13.00000	15.50000	-2.1807	15.130	-0.41354	-11.365	-23.308E-6
36.00000	13.00000	15.50000	-1.5701	15.130	-0.057825	-5.4912	13.497E-6
37.00000	13.00000	15.50000	-1.1506	15.130	-0.017438	-3.441	8.7569E-6
38.00000	13.00000	15.50000	-0.84376	15.130	-0.007841	-2.4168	6.238E-6
39.00000	13.00000	15.50000	-0.61200	15.130	-0.0037338	-1.8084	4.6861E-6
40.00000	13.00000	15.50000	-0.43375	15.130	-0.0021310	-1.4099	3.6658E-6
41.00000	13.00000	15.50000	-0.29523	15.130	-0.0013179	-1.1316	2.9484E-6
42.00000	13.00000	15.50000	-0.18700	15.130	-864.06E-6	-0.92830	2.4220E-6
43.00000	13.00000	15.50000	-0.10221	15.130	-592.26E-6	-0.77465	2.0232E-6
44.00000	13.00000	15.50000	-0.035807	15.130	-420.44E-6	-0.65550	1.7133E-6
45.00000	13.00000	15.50000	0.016083	15.130	-307.09E-6	-0.56116	1.4675E-6
46.00000	13.00000	15.50000	0.056440	15.130	-229.66E-6	-0.48517	1.2694E-6
47.00000	13.00000	15.50000	0.08396	15.130	-175.50E-6	-0.42308	1.1073E-6
48.00000	13.00000	15.50000	0.11139	15.130	-136.03E-6	-0.37171	0.0
49.00000	13.00000	15.50000	0.12928	15.130	-107.17E-6	-0.32876	0.0
50.00000	13.00000	15.50000	0.14244	15.130	-85.569E-6	-0.29249	0.0
51.00000	13.00000	15.50000	0.15179	15.130	-69.126E-6	-0.26162	0.0
52.00000	13.00000	15.50000	0.15811	15.130	-56.434E-6	-0.23513	0.0
53.00000	13.00000	15.50000	0.16198	15.130	-46.510E-6	-0.21226	0.0
54.00000	13.00000	15.50000	0.16392	15.130	-38.662E-6	-0.19239	0.0
55.00000	13.00000	15.50000	0.16431	15.130	-32.392E-6	-0.17502	0.0
-25.00000	14.00000	15.50000	0.17588	15.130	-26.236E-6	-0.16621	0.0
-24.00000	14.00000	15.50000	0.17761	15.130	-30.730E-6	-0.18153	0.0
-23.00000	14.00000	15.50000	0.17824	15.130	-36.201E-6	-0.19907	0.0
-22.00000	14.00000	15.50000	0.17747	15.130	-42.911E-6	-0.21888	0.0
-21.00000	14.00000	15.50000	0.17495	15.130	-51.205E-6	-0.24149	0.0
-20.00000	14.00000	15.50000	0.17021	15.130	-61.546E-6	-0.26741	0.0
-19.00000	14.00000	15.50000	0.16501	15.130	-74.562E-6	-0.29731	0.0
-18.00000	14.00000	15.50000	0.15177	15.130	-91.116E-6	-0.33197	0.0
-17.00000	14.00000	15.50000	0.13655	15.130	-112.41E-6	-0.37244	0.0
-16.00000	14.00000	15.50000	0.11604	15.130	-140.15E-6	-0.42001	1.0998E-6
-15.00000	14.00000	15.50000	0.088949	15.130	-176.79E-6	-0.47635	1.2471E-6
-14.00000	14.00000	15.50000	0.053701	15.130	-225.98E-6	-0.54359	1.4229E-6
-13.00000	14.00000	15.50000	0.0083210	15.130	-293.20E-6	-0.62491	1.6350E-6
-12.00000	14.00000	15.50000	-0.049662	15.130	-386.98E-6	-0.72398	1.8935E-6
-11.00000	14.00000	15.50000	-0.12337	15.130	-521.03E-6	-0.84635	2.2124E-6
-10.00000	14.00000	15.50000	-0.21675	15.130	-718.18E-6	-0.99972	2.6118E-6
-9.00000	14.00000	15.50000	-0.33489	15.130	-1001.83E-6	-1.19533	3.1202E-6
-8.00000	14.00000	15.50000	-0.48438	15.130	-1400.49E-6	-1.4500	3.7809E-6
-7.00000	14.00000	15.50000	-0.67391	15.130	-1900.29E-6	-1.7904	4.6616E-6
-6.00000	14.00000	15.50000	-0.91519	15.130	-2600.72E-6	-2.2610	5.8737E-6
-5.00000	14.00000	15.50000	-1.2246	15.130	-3500.65E-6	-2.9416	7.6147E-6
-4.00000	14.00000	15.50000	-1.6259	15.130	-4700.29E-6	-3.9909	1.0267E-5
-3.00000	14.00000	15.50000	-2.1567	15.130	-6300.89E-6	-5.7763	1.4669E-5
-2.00000	14.00000	15.50000	-2.8830	15.130	-8600.27E-6	-9.3751	2.2982E-5
-1.00000	14.00000	15.50000	-3.9432	15.130	-11700.1E-6	-19.765	4.0289E-5
0.00000	14.00000	15.50000	-5.9208	15.130	-16000.0E-6	-94.037	382.97E-5
1.00000	14.00000	15.50000	-7.9973	15.130	-21900.2E-6	-168.21	806.26E-5
2.00000	14.00000	15.50000	-8.9543	15.130	-29900.8E-6	-178.69	788.94E-5
3.00000	14.00000	15.50000	-9.6751	15.130	-40900.9E-6	-182.28	780.66E-5
4.00000	14.00000	15.50000	-10.198	15.130	-55900.9E-6	-184.05	776.30E-5
5.00000	14.00000	15.50000	-10.588	15.130	-76900.9E-6	-185.07	773.70E-5
6.00000	14.00000	15.50000	-10.882	15.130	-103900.9E-6	-185.73	772.51E-5
7.00000	14.00000	15.50000	-11.104	15.130	-140900.9E-6	-186.16	770.92E-5
8.00000	14.00000	15.50000	-11.268	15.130	-187900.9E-6	-186.45	770.16E-5
9.00000	14.00000	15.50000	-11.385	15.130	-250900.9E-6	-186.65	769.65E-5
10.00000	14.00000	15.50000	-11.462	15.130	-330900.9E-6	-186.77	769.33E-5
11.00000	14.00000	15.50000	-11.503	15.130	-430900.9E-6	-186.83	769.17E-5
12.00000	14.00000	15.50000	-11.510	15.130	-550900.9E-6	-186.83	769.17E-5
13.00000	14.00000	15.50000	-11.483	15.130	-690900.9E-6	-186.77	769.33E-5
14.00000	14.00000	15.50000	-11.419	15.130	-850900.9E-6	-186.63	769.69E-5
15.00000	14.00000	15.50000	-11.315	15.130	-1030900.9E-6	-186.38	770.32E-5
16.00000	14.00000	15.50000	-11.160	15.130	-1230900.9E-6	-185.96	771.33E-5
17.00000	14.00000	15.50000	-10.940	15.130	-1450900.9E-6	-185.20	773.26E-5
18.00000	14.00000	15.50000	-10.626	15.130	-1690900.9E-6	-183.63	776.88E-5
19.00000	14.00000	15.50000	-10.158	15.130	-2150900.9E-6	-179.09	784.45E-5
20.00000	14.00000	15.50000	-9.2808	15.130	-2840900.9E-6	-146.58	599.32E-5
21.00000	14.00000	15.50000	-8.3952	15.130	-3790900.9E-6	-114.06	414.21E-5
22.00000	14.00000	15.50000	-7.9023	15.130	-4500900.9E-6	-109.47	421.89E-5
23.00000	14.00000	15.50000	-7.5454	15.130	-5000900.9E-6	-107.84	425.67E-5
24.00000	14.00000	15.50000	-7.2620	15.130	-45.005	-106.99	427.79E-5
25.00000	14.00000	15.50000	-7.0206	15.130	-45.002	-106.43	429.21E-5
26.00000	14.00000	15.50000	-6.8012	15.130	-45.001	-105.99	430.29E-5
27.00000	14.00000	15.50000	-6.5886	15.130	-44.999	-105.60	431.33E-5
28.00000	14.00000	15.50000	-6.3691	15.130	-44.998	-105.19	432.39E-5
29.00000	14.00000	15.50000	-6.1286	15.130	-44.996	-104.70	433.65E-5
30.00000	14.00000	15.50000	-5.8499	15.130	-44.993	-104.03	435.36E-5
31.00000	14.00000	15.50000	-5.5089	15.130	-44.982	-102.96	437.99E-5
32.00000	14.00000	15.50000	-5.0662	15.130	-44.942	-100.88	442.82E-5
33.00000	14.00000	15.50000	-4.4423	15.130	-44.586	-94.988	452.68E-5
34.00000	14.00000	15.50000	-3.3075	15.130	-22.500	-53.171	214.70E-5
35.00000	14.00000	15.50000	-2.1772	15.130	-0.41353	-11.359	23.294E-5
36.00000	14.00000	15.50000	-1.5670	15.130	-0.057819	-5.4864	13.485E-5
37.00000	14.00000	15.50000	-1.1479	15.130	-0.017433	-3.4381	8.7463E-5
38.00000	14.00000	15.50000	-0.84153	15.130	-0.0073502	-2.4133	6.2163E-5
39.00000	14.00000	15.50000	-0.61013	15.130	-0.0037307	-1.8055	4.6784E-5
40.00000	14.00000	15.50000	-0.43220	15.130	-0.0021286	-1.4075	3.6593E-5
41.00000							



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Dr. Ref.		
Made by	Date	Checked
MP		

Name	Location	Z [Level]	Z [mm]	Calc Level [mOD]	Stresses		
					Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
-13.00000	15.00000	15.50000	0.010044	15.130	-291.14E-6	-0.62146	1.6260E-6
-12.00000	15.00000	15.50000	-0.047444	15.130	-384.31E-6	-0.71985	1.8827E-6
-11.00000	15.00000	15.50000	-0.12054	15.130	-517.55E-6	-0.84139	2.1995E-6
-10.00000	15.00000	15.50000	-0.21319	15.130	-713.64E-6	-0.99376	2.5962E-6
-9.00000	15.00000	15.50000	-0.33045	15.130	-0.0010124	-1.1891	3.1014E-6
-8.00000	15.00000	15.50000	-0.47888	15.130	-0.0014872	-1.4434	3.7584E-6
-7.00000	15.00000	15.50000	-0.66716	15.130	-0.0022837	-1.7800	4.6345E-6
-6.00000	15.00000	15.50000	-0.90699	15.130	-0.0037163	-2.2486	5.8413E-6
-5.00000	15.00000	15.50000	-1.2147	15.130	-0.0065494	-2.9267	7.5760E-6
-4.00000	15.00000	15.50000	-1.6141	15.130	-0.012965	-3.9734	10.221E-6
-3.00000	15.00000	15.50000	-2.1428	15.130	-0.020866	-5.7556	14.616E-6
-2.00000	15.00000	15.50000	-2.8670	15.130	-0.03263	-9.3511	22.920E-6
-1.00000	15.00000	15.50000	-3.9249	15.130	-0.053498	-19.738	40.217E-6
0.00000	15.00000	15.50000	-5.9001	15.130	-0.084000	-38.005	73.056E-6
1.00000	15.00000	15.50000	-7.8742	15.130	-0.1264	-68.27	130.32E-6
2.00000	15.00000	15.50000	-9.9289	15.130	-0.1896	-128.55	238.04E-6
3.00000	15.00000	15.50000	-12.168	15.130	-0.28986	-248.00	458.42E-6
4.00000	15.00000	15.50000	-15.556	15.130	-0.44992	-468.03	888.83E-6
5.00000	15.00000	15.50000	-20.049	15.130	-0.71995	-888.68	1712.17E-6
6.00000	15.00000	15.50000	-26.750	15.130	-1.14011	-1488.11	2912.05E-6
7.00000	15.00000	15.50000	-35.783	15.130	-1.74997	-2388.60	4612.30E-6
8.00000	15.00000	15.50000	-48.149	15.130	-2.64998	-4088.60	7712.30E-6
9.00000	15.00000	15.50000	-64.858	15.130	-3.94998	-6388.60	11812.30E-6
10.00000	15.00000	15.50000	-86.910	15.130	-5.84998	-9688.60	18112.30E-6
11.00000	15.00000	15.50000	-114.315	15.130	-8.74998	-14488.60	27112.30E-6
12.00000	15.00000	15.50000	-158.074	15.130	-13.24998	-22488.60	41112.30E-6
13.00000	15.00000	15.50000	-218.187	15.130	-19.74998	-34488.60	61112.30E-6
14.00000	15.00000	15.50000	-294.654	15.130	-29.24998	-52488.60	89112.30E-6
15.00000	15.00000	15.50000	-398.475	15.130	-42.74998	-78488.60	131112.30E-6
16.00000	15.00000	15.50000	-540.650	15.130	-64.24998	-116488.60	191112.30E-6
17.00000	15.00000	15.50000	-732.079	15.130	-94.74998	-174488.60	271112.30E-6
18.00000	15.00000	15.50000	-984.762	15.130	-140.24998	-264488.60	391112.30E-6
19.00000	15.00000	15.50000	-1328.699	15.130	-204.74998	-394488.60	571112.30E-6
20.00000	15.00000	15.50000	-1804.892	15.130	-284.24998	-574488.60	831112.30E-6
21.00000	15.00000	15.50000	-2454.341	15.130	-394.74998	-834488.60	121112.30E-6
22.00000	15.00000	15.50000	-3348.056	15.130	-554.24998	-1214488.60	176112.30E-6
23.00000	15.00000	15.50000	-4566.037	15.130	-784.74998	-1814488.60	261112.30E-6
24.00000	15.00000	15.50000	-6208.284	15.130	-1104.24998	-2614488.60	381112.30E-6
25.00000	15.00000	15.50000	-8374.797	15.130	-1524.74998	-3714488.60	551112.30E-6
26.00000	15.00000	15.50000	-11265.576	15.130	-2104.24998	-5214488.60	781112.30E-6
27.00000	15.00000	15.50000	-15290.721	15.130	-2884.74998	-7214488.60	112112.30E-6
28.00000	15.00000	15.50000	-20760.232	15.130	-3984.24998	-10014488.60	162112.30E-6
29.00000	15.00000	15.50000	-28275.109	15.130	-5544.74998	-13814488.60	232112.30E-6
30.00000	15.00000	15.50000	-38435.352	15.130	-7644.24998	-19214488.60	332112.30E-6
31.00000	15.00000	15.50000	-51841.061	15.130	-10544.74998	-26214488.60	472112.30E-6
32.00000	15.00000	15.50000	-69991.236	15.130	-14544.24998	-36214488.60	672112.30E-6
33.00000	15.00000	15.50000	-94496.877	15.130	-19844.74998	-49214488.60	942112.30E-6
34.00000	15.00000	15.50000	-127247.884	15.130	-27244.24998	-66214488.60	1322112.30E-6
35.00000	15.00000	15.50000	-171244.257	15.130	-36844.74998	-89214488.60	1842112.30E-6
36.00000	15.00000	15.50000	-229686.096	15.130	-50844.24998	-121214488.60	2582112.30E-6
37.00000	15.00000	15.50000	-307683.501	15.130	-70444.74998	-166214488.60	3682112.30E-6
38.00000	15.00000	15.50000	-411236.482	15.130	-96444.24998	-230214488.60	5182112.30E-6
39.00000	15.00000	15.50000	-545245.039	15.130	-131444.74998	-310214488.60	7182112.30E-6
40.00000	15.00000	15.50000	-725700.172	15.130	-178444.24998	-410214488.60	9882112.30E-6
41.00000	15.00000	15.50000	-969701.881	15.130	-242444.74998	-550214488.60	13582112.30E-6
42.00000	15.00000	15.50000	-1296249.166	15.130	-328444.24998	-730214488.60	18582112.30E-6
43.00000	15.00000	15.50000	-1736343.027	15.130	-448444.74998	-980214488.60	25582112.30E-6
44.00000	15.00000	15.50000	-2329983.364	15.130	-614444.24998	-1330214488.60	35582112.30E-6
45.00000	15.00000	15.50000	-3128171.177	15.130	-834444.74998	-1830214488.60	49582112.30E-6
46.00000	15.00000	15.50000	-4128907.562	15.130	-1134444.24998	-2530214488.60	67582112.30E-6



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No. Sheet No. Rev.

J15249

Dr. Ref.

Made by

Date

Checked

Name	Location	Z [Level]	Z [mm]	Calc Level [mOD]	Stresses		
					Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
47.00000	16.00000	15.50000	0.090268	15.130	-171.60E-6	-0.41666	1.0905E-6
48.00000	16.00000	15.50000	0.11337	15.130	-133.21E-6	-0.36632	0.0
49.00000	16.00000	15.50000	0.13071	15.130	-104.99E-6	-0.32420	0.0
50.00000	16.00000	15.50000	0.14343	15.130	-83.85E-6	-0.28863	0.0
51.00000	16.00000	15.50000	0.15243	15.130	-67.780E-6	-0.25834	0.0
52.00000	16.00000	15.50000	0.15847	15.130	-55.368E-6	-0.23233	0.0
53.00000	16.00000	15.50000	0.16213	15.130	-45.662E-6	-0.20986	0.0
54.00000	16.00000	15.50000	0.16390	15.130	-37.983E-6	-0.19032	0.0
55.00000	16.00000	15.50000	0.16417	15.130	-31.844E-6	-0.17323	0.0
-25.00000	17.00000	15.50000	0.17528	15.130	-25.578E-6	-0.16363	0.0
-24.00000	17.00000	15.50000	0.17133	15.130	-29.927E-6	-0.17867	0.0
-23.00000	17.00000	15.50000	0.17793	15.130	-35.216E-6	-0.19567	0.0
-22.00000	17.00000	15.50000	0.17740	15.130	-41.695E-6	-0.21495	0.0
-21.00000	17.00000	15.50000	0.17517	15.130	-49.697E-6	-0.23693	0.0
-20.00000	17.00000	15.50000	0.17083	15.130	-59.665E-6	-0.26211	0.0
-19.00000	17.00000	15.50000	0.16382	15.130	-72.203E-6	-0.29110	0.0
-18.00000	17.00000	15.50000	0.15354	15.130	-88.138E-6	-0.32470	0.0
-17.00000	17.00000	15.50000	0.13915	15.130	-108.63E-6	-0.36387	0.0
-16.00000	17.00000	15.50000	0.11968	15.130	-135.32E-6	-0.40987	1.0733E-6
-15.00000	17.00000	15.50000	0.093885	15.130	-170.59E-6	-0.46432	1.2156E-6
-14.00000	17.00000	15.50000	0.060884	15.130	-217.97E-6	-0.52933	1.3834E-6
-13.00000	17.00000	15.50000	0.016896	15.130	-282.79E-6	-0.60774	1.5901E-6
-12.00000	17.00000	15.50000	-0.038599	15.130	-373.40E-6	-0.70337	1.8396E-6
-11.00000	17.00000	15.50000	-0.10925	15.130	-503.23E-6	-0.82154	2.1476E-6
-10.00000	17.00000	15.50000	-0.19890	15.130	-694.77E-6	-0.96977	2.5335E-6
-9.00000	17.00000	15.50000	-0.31243	15.130	-987.43E-6	-1.1591	3.0257E-6
-8.00000	17.00000	15.50000	-0.45661	15.130	-1400.15E-6	-1.4062	3.6666E-6
-7.00000	17.00000	15.50000	-0.63970	15.130	-2002.40E-6	-1.7374	4.5234E-6
-6.00000	17.00000	15.50000	-0.87345	15.130	-2803.65E-6	-2.1971	5.7071E-6
-5.00000	17.00000	15.50000	-1.1741	15.130	-3864.74E-6	-2.8647	7.4145E-6
-4.00000	17.00000	15.50000	-1.5656	15.130	-5329.82E-6	-3.8992	10.028E-6
-3.00000	17.00000	15.50000	-2.0854	15.130	-7430.74E-6	-5.6675	14.386E-6
-2.00000	17.00000	15.50000	-2.7998	15.130	-10424.8E-6	-8.2476	20.650E-6
-1.00000	17.00000	15.50000	-3.8475	15.130	-14379.9E-6	-11.618	29.905E-6
0.00000	17.00000	15.50000	-5.8121	15.130	-20067.4E-6	-16.868	43.41E-6
1.00000	17.00000	15.50000	-7.7758	15.130	-28264.4E-6	-24.12	60.70E-6
2.00000	17.00000	15.50000	-10.8204	15.130	-39896.6E-6	-34.178	89.48E-6
3.00000	17.00000	15.50000	-14.9296	15.130	-55199.8E-6	-48.05	129.25E-6
4.00000	17.00000	15.50000	-20.442	15.130	-75986.6E-6	-66.34	186.93E-6
5.00000	17.00000	15.50000	-27.922	15.130	-106474.5E-6	-92.82	274.37E-6
6.00000	17.00000	15.50000	-37.909	15.130	-148995.6E-6	-128.46	397.74E-6
7.00000	17.00000	15.50000	-51.923	15.130	-20996.6E-6	-185.88	551.64E-6
8.00000	17.00000	15.50000	-70.997	15.130	-29817.6E-6	-262.17	770.90E-6
9.00000	17.00000	15.50000	-96.997	15.130	-41997.6E-6	-369.34	1074.41E-6
10.00000	17.00000	15.50000	-132.997	15.130	-58998.6E-6	-524.48	1502.8E-6
11.00000	17.00000	15.50000	-180.998	15.130	-82999.6E-6	-735.54	2059.5E-6
12.00000	17.00000	15.50000	-244.998	15.130	-114999.6E-6	-1024.54	2859.5E-6
13.00000	17.00000	15.50000	-332.997	15.130	-159999.6E-6	-1424.54	3979.5E-6
14.00000	17.00000	15.50000	-454.997	15.130	-224999.6E-6	-1964.54	5479.5E-6
15.00000	17.00000	15.50000	-622.996	15.130	-309999.6E-6	-2724.54	7519.5E-6
16.00000	17.00000	15.50000	-854.993	15.130	-424999.6E-6	-3724.54	10379.5E-6
17.00000	17.00000	15.50000	-1174.985	15.130	-584999.6E-6	-5124.54	14379.5E-6
18.00000	17.00000	15.50000	-1624.97	15.130	-804999.6E-6	-6974.54	19979.5E-6
19.00000	17.00000	15.50000	-2244.954	15.130	-1114999.6E-6	-9624.54	27779.5E-6
20.00000	17.00000	15.50000	-3044.929	15.130	-1544999.6E-6	-13324.54	38779.5E-6
21.00000	17.00000	15.50000	-4084.895	15.130	-2144999.6E-6	-18424.54	53779.5E-6
22.00000	17.00000	15.50000	-5524.852	15.130	-2944999.6E-6	-25424.54	74779.5E-6
23.00000	17.00000	15.50000	-7444.799	15.130	-4044999.6E-6	-35424.54	103779.5E-6
24.00000	17.00000	15.50000	-10044.731	15.130	-5544999.6E-6	-49424.54	143779.5E-6
25.00000	17.00000	15.50000	-13644.64	15.130	-7644999.6E-6	-67424.54	199779.5E-6
26.00000	17.00000	15.50000	-18644.53	15.130	-10644999.6E-6	-93424.54	277779.5E-6
27.00000	17.00000	15.50000	-25644.4	15.130	-14644999.6E-6	-128424.54	397779.5E-6
28.00000	17.00000	15.50000	-34644.25	15.130	-20144999.6E-6	-178424.54	557779.5E-6
29.00000	17.00000	15.50000	-46644.09	15.130	-27644999.6E-6	-248424.54	787779.5E-6
30.00000	17.00000	15.50000	-62643.92	15.130	-37644999.6E-6	-343424.54	109779.5E-6
31.00000	17.00000	15.50000	-84643.73	15.130	-51644999.6E-6	-473424.54	151779.5E-6
32.00000	17.00000	15.50000	-113643.52	15.130	-70644999.6E-6	-638424.54	209779.5E-6
33.00000	17.00000	15.50000	-152643.29	15.130	-96644999.6E-6	-884424.54	291779.5E-6
34.00000	17.00000	15.50000	-204643.04	15.130	-133644999.6E-6	-1214424.54	399779.5E-6
35.00000	17.00000	15.50000	-274642.77	15.130	-181644999.6E-6	-1664424.54	559779.5E-6
36.00000	17.00000	15.50000	-368642.48	15.130	-246644999.6E-6	-2284424.54	789779.5E-6
37.00000	17.00000	15.50000	-494642.17	15.130	-336644999.6E-6	-3134424.54	1099779.5E-6
38.00000	17.00000	15.50000	-658641.84	15.130	-456644999.6E-6	-4284424.54	1519779.5E-6
39.00000	17.00000	15.50000	-878641.49	15.130	-616644999.6E-6	-5884424.54	2099779.5E-6
40.00000	17.00000	15.50000	-1178641.12	15.130	-836644999.6E-6	-8084424.54	2899779.5E-6
41.00000	17.00000	15.50000	-1588640.73	15.130	-1136644999.6E-6	-11084424.54	3999779.5E-6
42.00000	17.00000	15.50000	-2148640.32	15.130	-1536644999.6E-6	-15084424.54	5599779.5E-6
43.00000	17.00000	15.50000	-2888640.0	15.130	-2086644999.6E-6	-20084424.54	7899779.5E-6
44.00000	17.00000	15.50000	-3868640.0	15.130	-2866644999.6E-6	-27084424.54	10999779.5E-6
45.00000	17.00000	15.50000	-5168640.0	15.130	-3966644999.6E-6	-36084424.54	15199779.5E-6
46.00000	17.00000	15.50000	-6968640.0	15.130	-5366644999.6E-6	-48084424.54	20999779.5E-6
47.00000	17.00000	15.50000	-9568640.0	15.130	-7366644999.6E-6	-63084424.54	28999779.5E-6
48.00000	17.00000	15.50000	-12868640.0	15.130	-10066644999.6E-6	-83084424.54	39999779.5E-6
49.00000	17.00000	15.50000	-17168640.0	15.130	-13666644999.6E-6	-110084424.54	55999779.5E-6
50.00000	17.00000	15.50000	-22868640.0	15.130	-18666644999.6E-6	-146084424.54	78999779.5E-6
51.00000	17.00000	15.50000	-30668640.0	15.130	-25666644999.6E-6	-196084424.54	10999779.5E-6
52.00000	17.00000	15.50000	-40868640.0	15.130	-35666644999.6E-6	-266084424.54	15199779.5E-6
53.00000	17.00000	15.50000	-54868640.0	15.130	-48666644999.6E-6	-356084424.54	20999779.5E-6
54.00000	17.00000	15.50000	-73868640.0	15.130	-66666644999.6E-6	-486084424.54	28999779.5E-6
55.00000	17.00000	15.50000	-99868640.0	15.130	-90666644999.6E-6	-666084424.54	39999779.5E-6
-25.00000	18.00000	15.50000	0.17491	15.130	-25.191E-6	-0.16211	0.0
-24.00000	18.00000	15.50000	0.17684	15.130	-29.455E-6	-0.17693	0.0
-23.00000	18.00000	15.50000	0.17774	15.130	-34.637E-6	-0.19366	0.0
-22.00000	18.00000	15.50000	0.17734	15.130	-40.980E-6	-0.21263	0.0
-21.00000	18.00000	15.50000	0.17529	15.130	-48.809E-6	-0.23424	0.0
-20.00000	18.00000	15.50000	0.17118	15.130	-58.556E-6	-0.25898	0.0
-19.00000	18.00000	15.50000	0.16448	15.130	-70.809E-6	-0.28745	0.0
-18.00000	18.00000	15.50000	0.15457	15.130	-86.375E-6	-0.32041	0.0
-17.00000	18.00000	15.50000	0.14087	15.130	-106.39E-6	-0.35881	0.0
-16.00000	18.00000	15.50000	0.12181	15.130	-132.41E-6	-0.40398	1.0576E-6
-15.00000	18.00000	15.50000	0.096792	15.130	-166.87E-6	-0.45720	1.1970E-6
-14.00000	18.00000	15.50000	0.064138	15.130	-213.13E-6	-0.52082	1.3632E-6
-13.00000	18.00000	15.50000	0.021985	15.130	-276.46E-6	-0.59753	1.5634E-6
-12.00000	18.00000	15.50000	-0.032004	15.130	-365.04E-6	-0.69107	1.8075E-6
-11.00000	18.00000	15.50000	-0.10079	15.130	-492.12E-6	-0.80664	2.1087E-6
-10.00000	18.00000	15.50000	-0.18816	15.130	-679.91E-6	-0.95167	2.4863E-6
-9.00000	18.00000	15.50000	-0.29898	15.130	-967.44E-6	-1.1370	2.9681E-6
-8.00000	18.00000	15.50000	-0.43966	15.130	-1334.27E-6	-1.3792	3.5963E-6
-7.00000							



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Dr. Ref.		
Made by	Date	Checked
MP		

Name	Location	Z [Level] [m]	Z [mm]	Calc Level [mOD]	Stresses		
					Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
26.00000	18.00000	15.50000	-6.5930	15.130	-45.000	-105.66	-431.18E-6
27.00000	18.00000	15.50000	-6.3917	15.130	-44.999	-105.29	-432.14E-6
28.00000	18.00000	15.50000	-6.1838	15.130	-44.998	-104.90	-433.15E-6
29.00000	18.00000	15.50000	-5.9553	15.130	-44.996	-104.42	-434.37E-6
30.00000	18.00000	15.50000	-5.6890	15.130	-44.992	-103.77	-436.03E-6
31.00000	18.00000	15.50000	-5.3634	15.130	-44.982	-102.72	-438.63E-6
32.00000	18.00000	15.50000	-4.9319	15.130	-44.942	-100.66	-443.39E-6
33.00000	18.00000	15.50000	-4.3218	15.130	-44.586	-94.793	-453.19E-6
34.00000	18.00000	15.50000	-3.2009	15.130	-22.500	-52.998	-215.15E-6
35.00000	18.00000	15.50000	-2.0842	15.130	-0.41329	-11.209	22.905E-6
36.00000	18.00000	15.50000	-1.4804	15.130	-0.057625	-5.3579	13.151E-6
37.00000	18.00000	15.50000	-1.0801	15.130	-0.017280	-3.3292	8.4630E-6
38.00000	18.00000	15.50000	-0.78473	15.130	-0.0072313	-2.3220	5.9786E-6
39.00000	18.00000	15.50000	-0.56311	15.130	-0.0036398	-1.7294	4.4803E-6
40.00000	18.00000	15.50000	-0.39369	15.130	-0.0020598	-1.3444	3.4951E-6
41.00000	18.00000	15.50000	-0.26274	15.130	-0.0012661	-1.0775	2.8072E-6
42.00000	18.00000	15.50000	-0.16091	15.130	-823.55E-6	-0.88353	2.3052E-6
43.00000	18.00000	15.50000	-0.081465	15.130	-561.75E-6	-0.73764	1.9266E-6
44.00000	18.00000	15.50000	-0.019479	15.130	-397.41E-6	-0.62485	1.6332E-6
45.00000	18.00000	15.50000	0.028788	15.130	-289.63E-6	-0.53571	1.4010E-6
46.00000	18.00000	15.50000	0.066194	15.130	-216.37E-6	-0.46397	1.2148E-6
47.00000	18.00000	15.50000	0.094963	15.130	-165.05E-6	-0.40536	1.0610E-6
48.00000	18.00000	15.50000	0.11684	15.130	-128.18E-6	-0.35684	0.0
49.00000	18.00000	15.50000	0.13320	15.130	-101.10E-6	-0.31622	0.0
50.00000	18.00000	15.50000	0.14513	15.130	-80.834E-6	-0.28188	0.0
51.00000	18.00000	15.50000	0.15353	15.130	-65.410E-6	-0.25250	0.0
52.00000	18.00000	15.50000	0.15909	15.130	-53.498E-6	-0.22744	0.0
53.00000	18.00000	15.50000	0.16237	15.130	-44.177E-6	-0.20567	0.0
54.00000	18.00000	15.50000	0.16386	15.130	-36.796E-6	-0.18671	0.0
55.00000	18.00000	15.50000	0.16390	15.130	-30.890E-6	-0.17011	0.0
-19.00000	19.00000	15.50000	0.74446	15.130	-24.727E-6	-0.16028	0.0
-24.00000	19.00000	15.50000	0.17648	15.130	-28.888E-6	-0.17483	0.0
-23.00000	19.00000	15.50000	0.17750	15.130	-33.940E-6	-0.19125	0.0
-22.00000	19.00000	15.50000	0.17726	15.130	-40.120E-6	-0.20984	0.0
-21.00000	19.00000	15.50000	0.17542	15.130	-47.741E-6	-0.23101	0.0
-20.00000	19.00000	15.50000	0.17158	15.130	-57.221E-6	-0.25521	0.0
-19.00000	19.00000	15.50000	0.16525	15.130	-69.129E-6	-0.28305	0.0
-18.00000	19.00000	15.50000	0.15580	15.130	-84.246E-6	-0.31524	0.0
-17.00000	19.00000	15.50000	0.14248	15.130	-103.67E-6	-0.35272	0.0
-16.00000	19.00000	15.50000	0.12486	15.130	-128.93E-6	-0.39666	1.0387E-6
-15.00000	19.00000	15.50000	0.10028	15.130	-162.34E-6	-0.44860	1.1745E-6
-14.00000	19.00000	15.50000	0.068810	15.130	-207.21E-6	-0.51054	1.3363E-6
-13.00000	19.00000	15.50000	0.028135	15.130	-268.64E-6	-0.58516	1.5311E-6
-12.00000	19.00000	15.50000	-0.024008	15.130	-354.65E-6	-0.67611	1.7684E-6
-11.00000	19.00000	15.50000	-0.090498	15.130	-478.16E-6	-0.78846	2.0612E-6
-10.00000	19.00000	15.50000	-0.17502	15.130	-660.88E-6	-0.92846	2.4283E-6
-9.00000	19.00000	15.50000	-0.28234	15.130	-941.56E-6	-1.1098	2.8970E-6
-8.00000	19.00000	15.50000	-0.41871	15.130	-0.0013916	-1.3456	3.5087E-6
-7.00000	19.00000	15.50000	-0.59248	15.130	-0.0021540	-1.6628	4.3290E-6
-6.00000	19.00000	15.50000	-0.81504	15.130	-0.0035404	-2.1051	5.4676E-6
-5.00000	19.00000	15.50000	-1.1025	15.130	-0.0063114	-2.7514	7.1198E-6
-4.00000	19.00000	15.50000	-1.4786	15.130	-0.012645	-3.7600	9.6664E-6
-3.00000	19.00000	15.50000	-1.9809	15.130	-0.030442	-5.4978	13.946E-6
-2.00000	19.00000	15.50000	-2.6759	15.130	-0.10208	-9.0429	22.119E-6
-1.00000	19.00000	15.50000	-3.7027	15.130	-0.73428	-19.314	39.275E-6
0.00000	19.00000	15.50000	-5.6458	15.130	-39.999	-93.584	-384.14E-6
1.00000	19.00000	15.50000	-7.5880	15.130	-79.263	-167.79	-807.56E-6
2.00000	19.00000	15.50000	-8.6119	15.130	-79.895	-178.12	-790.42E-6
3.00000	19.00000	15.50000	-9.3020	15.130	-79.967	-181.65	-782.28E-6
4.00000	19.00000	15.50000	-9.7970	15.130	-79.985	-183.38	-778.04E-6
5.00000	19.00000	15.50000	-10.163	15.130	-79.991	-184.36	-775.54E-6
6.00000	19.00000	15.50000	-10.437	15.130	-79.994	-184.98	-773.96E-6
7.00000	19.00000	15.50000	-10.642	15.130	-79.995	-185.39	-772.91E-6
8.00000	19.00000	15.50000	-10.793	15.130	-79.996	-185.67	-772.20E-6
9.00000	19.00000	15.50000	-10.900	15.130	-79.996	-185.95	-771.72E-6
10.00000	19.00000	15.50000	-10.970	15.130	-79.996	-185.96	-771.43E-6
11.00000	19.00000	15.50000	-11.007	15.130	-79.996	-186.02	-771.29E-6
12.00000	19.00000	15.50000	-11.013	15.130	-79.996	-186.02	-771.29E-6
13.00000	19.00000	15.50000	-10.987	15.130	-79.996	-185.96	-771.44E-6
14.00000	19.00000	15.50000	-10.928	15.130	-79.996	-185.83	-771.78E-6
15.00000	19.00000	15.50000	-10.830	15.130	-79.994	-185.59	-772.38E-6
16.00000	19.00000	15.50000	-10.684	15.130	-79.992	-185.18	-773.42E-6
17.00000	19.00000	15.50000	-10.475	15.130	-79.984	-184.44	-775.24E-6
18.00000	19.00000	15.50000	-10.175	15.130	-79.953	-182.90	-778.79E-6
19.00000	19.00000	15.50000	-9.7970	15.130	-79.719	-178.27	-786.40E-6
20.00000	19.00000	15.50000	-8.8607	15.130	-62.498	-145.89	-601.09E-6
21.00000	19.00000	15.50000	-7.9922	15.130	-45.320	-113.40	-415.91E-6
22.00000	19.00000	15.50000	-7.5166	15.130	-45.043	-108.85	-423.51E-6
23.00000	19.00000	15.50000	-7.1770	15.130	-45.012	-107.24	-427.22E-6
24.00000	19.00000	15.50000	-6.9108	15.130	-45.008	-106.42	-429.27E-6
25.00000	19.00000	15.50000	-6.6862	15.130	-45.001	-105.88	-430.62E-6
26.00000	19.00000	15.50000	-6.4836	15.130	-44.999	-105.47	-431.67E-6
27.00000	19.00000	15.50000	-6.2879	15.130	-44.998	-105.11	-432.62E-6
28.00000	19.00000	15.50000	-6.0859	15.130	-44.997	-104.72	-433.60E-6
29.00000	19.00000	15.50000	-5.8634	15.130	-44.995	-104.26	-434.70E-6
30.00000	19.00000	15.50000	-5.6036	15.130	-44.992	-103.62	-436.43E-6
31.00000	19.00000	15.50000	-5.2826	15.130	-44.982	-102.58	-438.99E-6
32.00000	19.00000	15.50000	-4.8608	15.130	-44.941	-100.53	-443.72E-6
33.00000	19.00000	15.50000	-4.2584	15.130	-44.586	-94.679	-453.48E-6
34.00000	19.00000	15.50000	-3.4953	15.130	-22.499	-52.909	-215.05E-6
35.00000	19.00000	15.50000	-2.0363	15.130	-0.41311	-11.125	22.687E-6
36.00000	19.00000	15.50000	-1.4464	15.130	-0.057485	-5.2877	12.969E-6
37.00000	19.00000	15.50000	-1.0461	15.130	-0.017175	-3.2714	8.3131E-6
38.00000	19.00000	15.50000	-0.75670	15.130	-0.0071552	-2.2749	5.8562E-6
39.00000	19.00000	15.50000	-0.54024	15.130	-0.003919	-1.6912	4.3163E-6
40.00000	19.00000	15.50000	-0.37522	15.130	-0.0020203	-1.3335	3.4146E-6
41.00000	19.00000	15.50000	-0.24797	15.130	-0.0012357	-1.0524	2.7419E-6
42.00000	19.00000	15.50000	-0.14918	15.130	-803.05E-6	-0.86321	2.2522E-6
43.00000	19.00000	15.50000	-0.072235	15.130	-546.84E-6	-0.72107	1.8833E-6
44.00000	19.00000	15.50000	-0.032800	15.130	-386.42E-6	-0.51328	1.4938E-6
45.00000	19.00000	15.50000	0.034343	15.130	-281.54E-6	-0.52455	1.3719E-6
46.00000	19.00000	15.50000	0.070428	15.130	-210.33E-6	-0.45474	1.1898E-6
47.00000	19.00000	15.50000	0.098139	15.130	-160.50E-6	-0.39768	1.0409E-6
48.00000	19.00000	15.50000	0.11917	15.130	-124.71E-6	-0.35042	0.0
49.00000	19.00000	15.50000	0.13486	15.130	-98.440E-6	-0.31082	0.0
50.00000	19.00000	15.50000	0.14627	15.130	-78.774E-6	-0.27732	0.0
51.00000	19.00000	15.50000	0.15425	15.130	-63.803E-6	-0.24873	0.0
52.00000	19.00000	15.50000	0.15948	15.130	-52.234E-6	-0.22414	0.0
53.00000	19.00000	15.50000	0.16252	15.130	-43.175E-6	-0.20284	0.0
54.00000	19.00000	15.50000	0.16381	15.130	-35.997E-6	-0.18428	0.0
55.00000	19.00000	15.50000	0.16371	15.130	-30.248E-6	-0.16801	0.0
-25.00000	20.00000	15.50000	0.17393	15.130	-24.189E-6	-0.15815	0.0
-24.00000	20.00000	15.50000	0.17604	15.130	-28.231E-6	-0.17239	0.0
-23.00000	20.00000	15.50000	0.17720	15.130	-33.134E-6	-0.18844	0.0
-22.00000	20.00000	15.50000	0.17714	15.130	-39.123E-6	-0.20650	0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Dr. Ref.		
Made by	Date	Checked
MP		

Name	Location		Stresses				
	X [m]	Y [m]	Z [Level]	Z [mm]	Calc Level [mOD]	Vert Stress [kN/m ²]	Sum Princ [kN/m ²]
5.00000	20.00000	15.50000	-9.9666	15.130	-79.990	-183.97	-776.54E-6
6.00000	20.00000	15.50000	-10.232	15.130	-79.992	-184.58	-775.00E-6
7.00000	20.00000	15.50000	-10.429	15.130	-79.994	-184.98	-773.98E-6
8.00000	20.00000	15.50000	-10.575	15.130	-79.994	-185.24	-773.29E-6
9.00000	20.00000	15.50000	-10.678	15.130	-79.995	-185.42	-772.83E-6
10.00000	20.00000	15.50000	-10.745	15.130	-79.995	-185.53	-772.56E-6
11.00000	20.00000	15.50000	-10.781	15.130	-79.995	-185.58	-772.41E-6
12.00000	20.00000	15.50000	-10.786	15.130	-79.995	-185.58	-772.41E-6
13.00000	20.00000	15.50000	-10.762	15.130	-79.995	-185.52	-772.56E-6
14.00000	20.00000	15.50000	-10.704	15.130	-79.994	-185.39	-772.89E-6
15.00000	20.00000	15.50000	-10.604	15.130	-79.993	-185.16	-773.48E-6
16.00000	20.00000	15.50000	-10.468	15.130	-79.990	-184.76	-774.50E-6
17.00000	20.00000	15.50000	-10.264	15.130	-79.983	-184.03	-776.29E-6
18.00000	20.00000	15.50000	-9.9701	15.130	-79.951	-182.50	-779.81E-6
19.00000	20.00000	15.50000	-9.5246	15.130	-79.675	-177.99	-787.28E-6
20.00000	20.00000	15.50000	-8.6715	15.130	-79.0497	-145.53	-602.02E-6
21.00000	20.00000	15.50000	-7.8114	15.130	-45.319	-113.06	-416.79E-6
22.00000	20.00000	15.50000	-7.3441	15.130	-45.042	-108.52	-424.35E-6
23.00000	20.00000	15.50000	-7.0126	15.130	-45.011	-106.93	-428.01E-6
24.00000	20.00000	15.50000	-6.7540	15.130	-45.003	-106.12	-430.03E-6
25.00000	20.00000	15.50000	-6.5367	15.130	-45.000	-105.60	-431.33E-6
26.00000	20.00000	15.50000	-6.3412	15.130	-44.998	-105.20	-432.37E-6
27.00000	20.00000	15.50000	-6.1526	15.130	-44.997	-104.85	-433.28E-6
28.00000	20.00000	15.50000	-5.9579	15.130	-44.996	-104.48	-434.24E-6
29.00000	20.00000	15.50000	-5.7431	15.130	-44.995	-104.02	-435.40E-6
30.00000	20.00000	15.50000	-5.4916	15.130	-44.981	-103.40	-436.93E-6
31.00000	20.00000	15.50000	-5.1797	15.130	-44.981	-102.37	-439.52E-6
32.00000	20.00000	15.50000	-4.7677	15.130	-44.941	-100.35	-444.19E-6
33.00000	20.00000	15.50000	-4.1757	15.130	-44.585	-94.517	-453.90E-6
34.00000	20.00000	15.50000	-3.3733	15.130	-22.459	-52.761	-215.76E-6
35.00000	20.00000	15.50000	-2.9748	15.130	-41.820	-11.010	22.388E-6
36.00000	20.00000	15.50000	-1.3948	15.130	-0.057254	-5.1933	12.725E-6
37.00000	20.00000	15.50000	-1.0035	15.130	-0.017011	-3.1955	8.1166E-6
38.00000	20.00000	15.50000	-0.72200	15.130	-0.0070414	-2.2145	5.6994E-6
39.00000	20.00000	15.50000	-0.52226	15.130	-0.0035065	-1.6432	4.2563E-6
40.00000	20.00000	15.50000	-0.35285	15.130	-0.0019642	-1.2754	3.3154E-6
41.00000	20.00000	15.50000	-0.23022	15.130	-0.0011982	-1.0220	2.6627E-6
42.00000	20.00000	15.50000	-0.13520	15.130	-776.74E-6	-0.83879	2.1886E-6
43.00000	20.00000	15.50000	-0.061307	15.130	-528.15E-6	-0.70135	1.8319E-6
44.00000	20.00000	15.50000	-0.013063	15.130	-373.02E-6	-0.59525	1.5559E-6
45.00000	20.00000	15.50000	0.040850	15.130	-271.73E-6	-0.51142	1.3376E-6
46.00000	20.00000	15.50000	0.075366	15.130	-203.08E-6	-0.44393	1.1616E-6
47.00000	20.00000	15.50000	0.10183	15.130	-155.08E-6	-0.38871	1.0175E-6
48.00000	20.00000	15.50000	0.12187	15.130	-120.62E-6	-0.34294	0.0
49.00000	20.00000	15.50000	0.13677	15.130	-95.318E-6	-0.30455	0.0
50.00000	20.00000	15.50000	0.14757	15.130	-76.367E-6	-0.27203	0.0
51.00000	20.00000	15.50000	0.15506	15.130	-61.930E-6	-0.24424	0.0
52.00000	20.00000	15.50000	0.15992	15.130	-50.764E-6	-0.22031	0.0
53.00000	20.00000	15.50000	0.16267	15.130	-42.012E-6	-0.19956	0.0
54.00000	20.00000	15.50000	0.16374	15.130	-35.070E-6	-0.18145	0.0
55.00000	20.00000	15.50000	0.16347	15.130	-29.503E-6	-0.16557	0.0
-25.00000	21.00000	15.50000	0.17330	15.130	-23.583E-6	-0.15574	0.0
-24.00000	21.00000	15.50000	0.17552	15.130	-27.492E-6	-0.16963	0.0
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-22.00000	21.00000	15.50000	0.17698	15.130	-38.004E-6	-0.20295	0.0
-21.00000	21.00000	15.50000	0.17566	15.130	-45.110E-6	-0.22302	0.0
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-19.00000	21.00000	15.50000	0.16704	15.130	-64.979E-6	-0.27218	0.0
-18.00000	21.00000	15.50000	0.15872	15.130	-78.974E-6	-0.30248	0.0
-17.00000	21.00000	15.50000	0.14465	15.130	-96.913E-6	-0.33766	0.0
-16.00000	21.00000	15.50000	0.13058	15.130	-120.22E-6	-0.37881	0.0
-15.00000	21.00000	15.50000	0.10883	15.130	-150.95E-6	-0.42730	1.1188E-6
-14.00000	21.00000	15.50000	0.080313	15.130	-192.19E-6	-0.48499	1.2695E-6
-13.00000	21.00000	15.50000	0.043363	15.130	-248.61E-6	-0.55432	1.4505E-6
-12.00000	21.00000	15.50000	-0.0040929	15.130	-327.60E-6	-0.63863	1.6705E-6
-11.00000	21.00000	15.50000	-0.064695	15.130	-441.15E-6	-0.74260	1.9415E-6
-10.00000	21.00000	15.50000	-0.14183	15.130	-609.63E-6	-0.87292	2.2808E-6
-9.00000	21.00000	15.50000	-0.23992	15.130	-869.20E-6	-1.0395	2.7138E-6
-8.00000	21.00000	15.50000	-0.36477	15.130	-0.0012879	-1.2576	3.2795E-6
-7.00000	21.00000	15.50000	-0.52421	15.130	-0.0020031	-1.5518	4.0400E-6
-6.00000	21.00000	15.50000	-0.72908	15.130	-0.0033173	-1.9638	5.1005E-6
-5.00000	21.00000	15.50000	-0.99483	15.130	-0.0059773	-2.5706	6.6505E-6
-4.00000	21.00000	15.50000	-1.3447	15.130	-0.012141	-3.5276	9.0646E-6
-3.00000	21.00000	15.50000	-1.8158	15.130	-0.029683	-5.1995	13.175E-6
-2.00000	21.00000	15.50000	-2.4749	15.130	-0.06096	-8.6628	21.140E-6
-1.00000	21.00000	15.50000	-3.4619	15.130	-0.13268	-18.898	38.050E-6
0.00000	21.00000	15.50000	-5.3629	15.130	-39.997	-93.003	-385.63E-6
1.00000	21.00000	15.50000	-7.2630	15.130	-79.260	-167.11	-809.32E-6
2.00000	21.00000	15.50000	-8.2474	15.130	-79.892	-177.34	-792.42E-6
3.00000	21.00000	15.50000	-8.9020	15.130	-79.963	-180.79	-784.05E-6
4.00000	21.00000	15.50000	-9.3666	15.130	-79.981	-182.45	-780.41E-6
5.00000	21.00000	15.50000	-9.7073	15.130	-79.987	-183.39	-778.04E-6
6.00000	21.00000	15.50000	-9.9608	15.130	-79.990	-183.97	-776.56E-6
7.00000	21.00000	15.50000	-10.150	15.130	-79.991	-184.35	-775.58E-6
8.00000	21.00000	15.50000	-10.289	15.130	-79.992	-184.61	-774.92E-6
9.00000	21.00000	15.50000	-10.387	15.130	-79.992	-184.77	-774.48E-6
10.00000	21.00000	15.50000	-10.451	15.130	-79.992	-184.88	-774.21E-6
11.00000	21.00000	15.50000	-10.485	15.130	-79.992	-184.93	-774.08E-6
12.00000	21.00000	15.50000	-10.490	15.130	-79.992	-184.93	-774.08E-6
13.00000	21.00000	15.50000	-10.466	15.130	-79.992	-184.97	-774.22E-6
14.00000	21.00000	15.50000	-10.411	15.130	-79.991	-184.75	-774.54E-6
15.00000	21.00000	15.50000	-10.321	15.130	-79.990	-184.52	-775.11E-6
16.00000	21.00000	15.50000	-10.185	15.130	-79.988	-184.13	-776.09E-6
17.00000	21.00000	15.50000	-9.9883	15.130	-79.980	-183.42	-777.84E-6
18.00000	21.00000	15.50000	-9.7491	15.130	-79.949	-181.91	-781.30E-6
19.00000	21.00000	15.50000	-9.2678	15.130	-79.672	-177.44	-788.71E-6
20.00000	21.00000	15.50000	-8.4260	15.130	-62.494	-145.00	-603.38E-6
21.00000	21.00000	15.50000	-7.5774	15.130	-45.316	-112.56	-418.07E-6
22.00000	21.00000	15.50000	-7.1235	15.130	-45.040	-108.05	-425.56E-6
23.00000	21.00000	15.50000	-6.6006	15.130	-45.009	-105.49	-429.16E-6
24.00000	21.00000	15.50000	-6.0518	15.130	-45.001	-105.69	-431.13E-6
25.00000	21.00000	15.50000	-6.3438	15.130	-44.998	-105.19	-432.41E-6
26.00000	21.00000	15.50000	-6.1570	15.130	-44.997	-104.81	-433.38E-6
27.00000	21.00000	15.50000	-5.9771	15.130	-44.996	-104.47	-434.26E-6
28.00000	21.00000	15.50000	-5.7912	15.130	-44.995	-104.11	-435.18E-6
29.00000	21.00000	15.50000	-5.5860	15.130	-44.993	-103.68	-436.29E-6
30.00000	21.00000	15.50000	-5.3450	15.130	-44.990	-103.07	-437.83E-6
31.00000	21.00000	15.50000	-5.0448	15.130	-44.980	-102.07	-440.29E-6
32.00000	21.00000	15.50000	-4.6459	15.130	-44.939	-100.07	-444.89E-6
33.00000	21.00000	15.50000	-4.0681	15.130	-44.584	-94.278	-454.51E-6
34.00000	21.00000	15.50000	-2.9805	15.130	-22.498	-52.560	-216.28E-6
35.00000	21.00000	15.50000	-1.8966	15.130	-0.41221	-10.847	21.970E-6
36.00000	21.00000	15.50000	-1.3303	15.130	-0.056850	-5.0649	12.394E-6
37.00000	21.00000	15.50000	-0.95114	15.130	-0.016745	-3.0960	7.8595E-6
38.00000	21.00000	15.50000	-0.67995	15.130	-0.0068690	-2.1377	5.5008E-6
39.00000	21.00000	15.50000	-0.47882				

Job No.	Sheet No.	Rev.
J15249		
Dr. Ref.		
Made by	Date	Checked
MP		

Name	Location	Z [Level] [m]	Z [mm]	Calc Level [mOD]	Stresses		
					Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
-16.00000	22.00000	15.50000	0.13414	15.130	-115.07E-6	-0.36835	0.0
-15.00000	22.00000	15.50000	0.11377	15.130	-144.19E-6	-0.41481	1.0861E-6
-14.00000	22.00000	15.50000	0.086989	15.130	-183.20E-6	-0.46997	1.2302E-6
-13.00000	22.00000	15.50000	0.052251	15.130	-236.50E-6	-0.53613	1.4030E-6
-12.00000	22.00000	15.50000	0.0076010	15.130	-311.02E-6	-0.61642	1.6125E-6
-11.00000	22.00000	15.50000	-0.045944	15.130	-418.06E-6	-0.71525	1.8701E-6
-10.00000	22.00000	15.50000	-0.12207	15.130	-576.83E-6	-0.83890	2.1920E-6
-9.00000	22.00000	15.50000	-0.21443	15.130	-821.55E-6	-0.99673	2.6023E-6
-8.00000	22.00000	15.50000	-0.33200	15.130	-0.0012170	-1.2031	3.1376E-6
-7.00000	22.00000	15.50000	-0.48219	15.130	-0.0018945	-1.4815	3.8572E-6
-6.00000	22.00000	15.50000	-0.67531	15.130	-0.0031458	-1.8719	4.8616E-6
-5.00000	22.00000	15.50000	-0.92615	15.130	-0.0056981	-2.4481	6.3336E-6
-4.00000	22.00000	15.50000	-1.2572	15.130	-0.011674	-3.3624	8.6385E-6
-3.00000	22.00000	15.50000	-1.7050	15.130	-0.0208889	-4.9743	12.597E-6
-2.00000	22.00000	15.50000	-2.3358	15.130	-0.039619	-8.3556	20.355E-6
-1.00000	22.00000	15.50000	-3.2899	15.130	-0.075051	-18.486	37.003E-6
0.00000	22.00000	15.50000	-5.1553	15.130	-39.993	-92.470	-386.98E-6
1.00000	22.00000	15.50000	-7.0199	15.130	-79.256	-166.45	-810.97E-6
2.00000	22.00000	15.50000	-7.9716	15.130	-79.887	-176.58	-794.34E-6
3.00000	22.00000	15.50000	-8.5982	15.130	-79.958	-179.95	-786.60E-6
4.00000	22.00000	15.50000	-9.0398	15.130	-79.975	-181.55	-782.68E-6
5.00000	22.00000	15.50000	-9.3622	15.130	-79.981	-182.44	-780.42E-6
6.00000	22.00000	15.50000	-9.6016	15.130	-79.983	-183.00	-779.01E-6
7.00000	22.00000	15.50000	-9.7797	15.130	-79.985	-183.36	-778.08E-6
8.00000	22.00000	15.50000	-9.9105	15.130	-79.985	-183.60	-777.46E-6
9.00000	22.00000	15.50000	-10.0033	15.130	-79.986	-183.76	-777.00E-6
10.00000	22.00000	15.50000	-10.064	15.130	-79.986	-183.86	-776.79E-6
11.00000	22.00000	15.50000	-10.096	15.130	-79.986	-183.90	-776.67E-6
12.00000	22.00000	15.50000	-10.101	15.130	-79.986	-183.90	-776.67E-6
13.00000	22.00000	15.50000	-10.078	15.130	-79.986	-183.85	-776.80E-6
14.00000	22.00000	15.50000	-10.027	15.130	-79.985	-183.73	-777.10E-6
15.00000	22.00000	15.50000	-9.9407	15.130	-79.984	-183.52	-777.64E-6
16.00000	22.00000	15.50000	-9.8120	15.130	-79.981	-183.15	-778.58E-6
17.00000	22.00000	15.50000	-9.6254	15.130	-79.974	-182.46	-780.26E-6
18.00000	22.00000	15.50000	-9.3523	15.130	-79.943	-180.39	-783.64E-6
19.00000	22.00000	15.50000	-8.9316	15.130	-79.687	-176.56	-790.92E-6
20.00000	22.00000	15.50000	-8.1059	15.130	-62.489	-144.18	-605.46E-6
21.00000	22.00000	15.50000	-7.2738	15.130	-45.312	-111.79	-420.02E-6
22.00000	22.00000	15.50000	-6.8336	15.130	-45.036	-107.33	-427.39E-6
23.00000	22.00000	15.50000	-6.5269	15.130	-45.005	-105.29	-430.90E-6
24.00000	22.00000	15.50000	-6.2907	15.130	-44.997	-105.04	-432.78E-6
25.00000	22.00000	15.50000	-6.0940	15.130	-44.994	-104.56	-434.00E-6
26.00000	22.00000	15.50000	-5.9178	15.130	-44.993	-104.20	-434.93E-6
27.00000	22.00000	15.50000	-5.7482	15.130	-44.992	-103.87	-435.76E-6
28.00000	22.00000	15.50000	-5.5729	15.130	-44.991	-103.54	-436.63E-6
29.00000	22.00000	15.50000	-5.3993	15.130	-44.990	-103.22	-437.68E-6
30.00000	22.00000	15.50000	-5.1514	15.130	-44.986	-102.54	-439.15E-6
31.00000	22.00000	15.50000	-4.8663	15.130	-44.976	-101.58	-441.52E-6
32.00000	22.00000	15.50000	-4.4849	15.130	-44.937	-99.636	-446.00E-6
33.00000	22.00000	15.50000	-4.0269	15.130	-44.582	-93.901	-455.46E-6
34.00000	22.00000	15.50000	-2.8604	15.130	-22.496	-52.252	-217.05E-6
35.00000	22.00000	15.50000	-1.7974	15.130	-0.41098	-10.609	21.365E-6
36.00000	22.00000	15.50000	-1.2503	15.130	-0.056093	-4.8868	11.939E-6
37.00000	22.00000	15.50000	-0.88759	15.130	-0.016297	-2.9648	7.5226E-6
38.00000	22.00000	15.50000	-0.62996	15.130	-0.006649	-2.0410	5.2512E-6
39.00000	22.00000	15.50000	-0.43972	15.130	-0.0032367	-1.5119	3.9158E-6
40.00000	22.00000	15.50000	-0.29598	15.130	-0.0017957	-1.1748	3.0541E-6
41.00000	22.00000	15.50000	-0.18582	15.130	-0.0010877	-0.94396	2.4596E-6
42.00000	22.00000	15.50000	-0.10069	15.130	-703.17E-6	-0.77749	2.0289E-6
43.00000	22.00000	15.50000	-0.034001	15.130	-477.98E-6	-0.62626	1.7049E-6
44.00000	22.00000	15.50000	0.016683	15.130	-338.03E-6	-0.55612	1.4538E-6
45.00000	22.00000	15.50000	0.056455	15.130	-246.83E-6	-0.47967	1.2547E-6
46.00000	22.00000	15.50000	0.087116	15.130	-185.04E-6	-0.41793	1.0937E-6
47.00000	22.00000	15.50000	0.11054	15.130	-141.79E-6	-0.36725	0.0
48.00000	22.00000	15.50000	0.12819	15.130	-110.62E-6	-0.32509	0.0
49.00000	22.00000	15.50000	0.14122	15.130	-87.792E-6	-0.28960	0.0
50.00000	22.00000	15.50000	0.15055	15.130	-70.600E-6	-0.25942	0.0
51.00000	22.00000	15.50000	0.15690	15.130	-57.462E-6	-0.23355	0.0
52.00000	22.00000	15.50000	0.16087	15.130	-47.268E-6	-0.21120	0.0
53.00000	22.00000	15.50000	0.16293	15.130	-39.253E-6	-0.19175	0.0
54.00000	22.00000	15.50000	0.16348	15.130	-32.873E-6	-0.17473	0.0
55.00000	22.00000	15.50000	0.16282	15.130	-27.741E-6	-0.15976	0.0
-25.00000	23.00000	15.50000	0.17176	15.130	-22.194E-6	-0.15017	0.0
-24.00000	23.00000	15.50000	0.17422	15.130	-25.799E-6	-0.16326	0.0
-23.00000	23.00000	15.50000	0.17597	15.130	-30.142E-6	-0.17795	0.0
-22.00000	23.00000	15.50000	0.17648	15.130	-35.437E-6	-0.19451	0.0
-21.00000	23.00000	15.50000	0.17578	15.130	-41.919E-6	-0.21325	0.0
-20.00000	23.00000	15.50000	0.17343	15.130	-49.931E-6	-0.23456	0.0
-19.00000	23.00000	15.50000	0.16903	15.130	-59.931E-6	-0.25892	0.0
-18.00000	23.00000	15.50000	0.16207	15.130	-72.544E-6	-0.28692	0.0
-17.00000	23.00000	15.50000	0.15195	15.130	-88.644E-6	-0.31930	0.0
-16.00000	23.00000	15.50000	0.13792	15.130	-109.47E-6	-0.35701	0.0
-15.00000	23.00000	15.50000	0.11903	15.130	-136.82E-6	-0.40126	1.0507E-6
-14.00000	23.00000	15.50000	0.094145	15.130	-173.36E-6	-0.45367	1.1876E-6
-13.00000	23.00000	15.50000	0.061819	15.130	-223.15E-6	-0.51625	1.3516E-6
-12.00000	23.00000	15.50000	0.020238	15.130	-292.60E-6	-0.59221	1.5492E-6
-11.00000	23.00000	15.50000	-0.032890	15.130	-392.12E-6	-0.68532	1.7919E-6
-10.00000	23.00000	15.50000	-0.10051	15.130	-539.42E-6	-0.80146	2.0944E-6
-9.00000	23.00000	15.50000	-0.18646	15.130	-766.12E-6	-0.94927	2.4786E-6
-8.00000	23.00000	15.50000	-0.29579	15.130	-0.0013221	-1.1421	2.9787E-6
-7.00000	23.00000	15.50000	-0.43534	15.130	-0.0017597	-1.4014	3.6493E-6
-6.00000	23.00000	15.50000	-0.61465	15.130	-0.0029222	-1.7646	4.5838E-6
-5.00000	23.00000	15.50000	-0.84753	15.130	-0.0053082	-2.3011	5.9540E-6
-4.00000	23.00000	15.50000	-1.1551	15.130	-0.010957	-3.1553	8.1063E-6
-3.00000	23.00000	15.50000	-1.5724	15.130	-0.027503	-4.6746	1.1292E-5
-2.00000	23.00000	15.50000	-2.1640	15.130	-0.056871	-7.9139	1.9239E-5
-1.00000	23.00000	15.50000	-3.0701	15.130	-0.12523	-17.838	3.5387E-5
0.00000	23.00000	15.50000	-4.8813	15.130	-39.984	-91.565	-389.21E-6
1.00000	23.00000	15.50000	-6.6918	15.130	-79.243	-165.29	-813.82E-6
2.00000	23.00000	15.50000	-7.5966	15.130	-79.872	-175.21	-797.67E-6
3.00000	23.00000	15.50000	-8.1834	15.130	-79.941	-178.44	-790.30E-6
4.00000	23.00000	15.50000	-8.5949	15.130	-79.958	-179.95	-786.61E-6
5.00000	23.00000	15.50000	-8.8945	15.130	-79.963	-180.78	-784.50E-6
6.00000	23.00000	15.50000	-9.1167	15.130	-79.966	-181.30	-783.19E-6
7.00000	23.00000	15.50000	-9.2820	15.130	-79.967	-181.63	-782.33E-6
8.00000	23.00000	15.50000	-9.4036	15.130	-79.967	-181.86	-781.75E-6
9.00000	23.00000	15.50000	-9.4898	15.130	-79.968	-182.01	-781.36E-6
10.00000	23.00000	15.50000	-9.5461	15.130	-79.968	-182.10	-781.13E-6
11.00000	23.00000	15.50000	-9.5759	15.130	-79.968	-182.14	-781.01E-6
-12.00000	23.00000	15.50000	-9.5807	15.130	-79.968	-182.14	-781.01E-6
13.00000	23.00000	15.50000	-9.5602	15.130	-79.968	-182.10	-781.13E-6
14.00000	23.00000	15.50000	-9.5124	15.130	-79.967	-181.99	-781.41E-6
15.00000	23.00000	15.50000	-9.4328	15.130	-79.966	-181.79	-781.91E-6
16.00000	23.00000	15.50000	-9.3133	15.130	-79.964	-181.44	-782.78E-6
17.00000	23.00000	15.50000	-9.1394	15.130	-79.957	-179.79	-784.67E-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
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Made by	Date	Checked
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Name	Location		Z [Level] [m]	Z [mm]	Calc Level [mOD]	Stresses		
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
44.00000	23.00000	15.50000	0.028447	15.130	-316.55E-6	-0.53336	1.3944E-6	
45.00000	23.00000	15.50000	0.065342	15.130	-231.87E-6	-0.46135	1.2068E-6	
46.00000	23.00000	15.50000	0.093759	15.130	-174.37E-6	-0.40301	1.0547E-6	
47.00000	23.00000	15.50000	0.11543	15.130	-134.03E-6	-0.35498	0.0	
48.00000	23.00000	15.50000	0.13171	15.130	-104.94E-6	-0.31490	0.0	
49.00000	23.00000	15.50000	0.14367	15.130	-83.470E-6	-0.28107	0.0	
50.00000	23.00000	15.50000	0.15216	15.130	-67.305E-6	-0.25225	0.0	
51.00000	23.00000	15.50000	0.15787	15.130	-54.918E-6	-0.22747	0.0	
52.00000	23.00000	15.50000	0.16134	15.130	-45.283E-6	-0.20601	0.0	
53.00000	23.00000	15.50000	0.16302	15.130	-37.688E-6	-0.18730	0.0	
54.00000	23.00000	15.50000	0.16325	15.130	-31.628E-6	-0.17050	0.0	
55.00000	23.00000	15.50000	0.16240	15.130	-26.743E-6	-0.15644	0.0	
-25.00000	24.00000	15.50000	0.17084	15.130	-21.425E-6	-0.14705	0.0	
-24.00000	24.00000	15.50000	0.17343	15.130	-24.861E-6	-0.15969	0.0	
-23.00000	24.00000	15.50000	0.17526	15.130	-29.000E-6	-0.17386	0.0	
-22.00000	24.00000	15.50000	0.17632	15.130	-34.020E-6	-0.18980	0.0	
-21.00000	24.00000	15.50000	0.17575	15.130	-40.158E-6	-0.20781	0.0	
-20.00000	24.00000	15.50000	0.17385	15.130	-47.726E-6	-0.22825	0.0	
-19.00000	24.00000	15.50000	0.17002	15.130	-57.145E-6	-0.25155	0.0	
-18.00000	24.00000	15.50000	0.16381	15.130	-68.992E-6	-0.27828	0.0	
-17.00000	24.00000	15.50000	0.15465	15.130	-84.068E-6	-0.30911	0.0	
-16.00000	24.00000	15.50000	0.14184	15.130	-103.51E-6	-0.34491	0.0	
-15.00000	24.00000	15.50000	0.12453	15.130	-128.94E-6	-0.38681	1.0129E-6	
-14.00000	24.00000	15.50000	0.10166	15.130	-162.80E-6	-0.43627	1.1421E-6	
-13.00000	24.00000	15.50000	0.07300	15.130	-208.77E-6	-0.49523	1.2961E-6	
-12.00000	24.00000	15.50000	-0.03608	15.130	-272.63E-6	-0.56631	1.4816E-6	
-11.00000	24.00000	15.50000	-0.015307	15.130	-363.73E-6	-0.65320	1.7081E-6	
-10.00000	24.00000	15.50000	-0.077514	15.130	-497.96E-6	-0.76112	1.9892E-6	
-9.00000	24.00000	15.50000	-0.15646	15.130	-703.61E-6	-0.89781	2.3446E-6	
-8.00000	24.00000	15.50000	-0.25671	15.130	-0.0010342	-1.0752	2.8044E-6	
-7.00000	24.00000	15.50000	-0.38437	15.130	-0.0015988	-1.3125	3.4186E-6	
-6.00000	24.00000	15.50000	-0.54796	15.130	-0.0026420	-1.6431	4.2695E-6	
-5.00000	24.00000	15.50000	-0.75981	15.130	-0.0047838	-2.1291	5.5111E-6	
-4.00000	24.00000	15.50000	-1.0389	15.130	-0.0098846	-2.9010	7.4561E-6	
-3.00000	24.00000	15.50000	-1.4169	15.130	-0.020509	-4.2781	10.830E-6	
-2.00000	24.00000	15.50000	-1.8542	15.130	-0.030736	-7.2595	17.619E-6	
-1.00000	24.00000	15.50000	-2.7868	15.130	-0.70914	-16.720	32.707E-6	
0.00000	24.00000	15.50000	-4.5082	15.130	-39.948	-89.750	-393.41E-6	
1.00000	24.00000	15.50000	-6.2289	15.130	-79.188	-162.78	-819.53E-6	
2.00000	24.00000	15.50000	-7.9594	15.130	-99.806	-172.23	-804.46E-6	
3.00000	24.00000	15.50000	-7.5931	15.130	-79.272	-175.21	-797.69E-6	
4.00000	24.00000	15.50000	-7.9658	15.130	-79.887	-176.57	-794.35E-6	
5.00000	24.00000	15.50000	-8.2375	15.130	-79.892	-177.33	-792.45E-6	
6.00000	24.00000	15.50000	-8.4396	15.130	-79.894	-177.79	-791.26E-6	
7.00000	24.00000	15.50000	-8.5904	15.130	-79.895	-178.10	-790.48E-6	
8.00000	24.00000	15.50000	-8.7015	15.130	-79.896	-178.30	-789.95E-6	
9.00000	24.00000	15.50000	-8.7804	15.130	-79.896	-178.44	-789.60E-6	
10.00000	24.00000	15.50000	-8.8322	15.130	-79.896	-178.52	-789.38E-6	
11.00000	24.00000	15.50000	-8.8598	15.130	-79.896	-178.56	-789.27E-6	
12.00000	24.00000	15.50000	-8.8645	15.130	-79.896	-178.57	-789.26E-6	
13.00000	24.00000	15.50000	-8.8461	15.130	-79.896	-178.52	-789.37E-6	
14.00000	24.00000	15.50000	-8.8029	15.130	-79.896	-178.43	-789.62E-6	
15.00000	24.00000	15.50000	-8.7308	15.130	-79.895	-178.25	-790.07E-6	
16.00000	24.00000	15.50000	-8.6227	15.130	-79.892	-177.93	-790.86E-6	
17.00000	24.00000	15.50000	-8.4653	15.130	-79.886	-177.35	-792.29E-6	
18.00000	24.00000	15.50000	-8.2327	15.130	-79.857	-176.05	-795.25E-6	
19.00000	24.00000	15.50000	-7.8655	15.130	-79.587	-171.91	-801.85E-6	
20.00000	24.00000	15.50000	-7.1041	15.130	-62.419	-139.95	-615.45E-6	
21.00000	24.00000	15.50000	-6.3371	15.130	-45.252	-107.98	-429.07E-6	
22.00000	24.00000	15.50000	-5.4931	15.130	-44.982	-101.92	-435.74E-6	
23.00000	24.00000	15.50000	-5.6914	15.130	-44.953	-102.47	-438.81E-6	
24.00000	24.00000	15.50000	-5.4914	15.130	-44.946	-101.82	-440.42E-6	
25.00000	24.00000	15.50000	-5.3247	15.130	-44.944	-101.41	-441.45E-6	
26.00000	24.00000	15.50000	-5.1751	15.130	-44.943	-101.11	-442.24E-6	
27.00000	24.00000	15.50000	-4.9310	15.130	-44.942	-100.83	-442.94E-6	
28.00000	24.00000	15.50000	-4.8821	15.130	-44.941	-100.55	-443.68E-6	
29.00000	24.00000	15.50000	-4.7180	15.130	-44.940	-100.20	-444.57E-6	
30.00000	24.00000	15.50000	-4.5253	15.130	-44.937	-99.705	-445.82E-6	
31.00000	24.00000	15.50000	-4.2841	15.130	-44.928	-98.884	-447.84E-6	
32.00000	24.00000	15.50000	-3.9590	15.130	-44.911	-97.160	-451.76E-6	
33.00000	24.00000	15.50000	-3.4723	15.130	-44.543	-91.814	-460.33E-6	
34.00000	24.00000	15.50000	-2.4891	15.130	-22.471	-50.706	-220.71E-6	
35.00000	24.00000	15.50000	-1.5091	15.130	-0.39896	-9.6013	18.911E-6	
36.00000	24.00000	15.50000	-1.0318	15.130	-0.051091	-4.2584	10.369E-6	
37.00000	24.00000	15.50000	-0.7292	15.130	-0.014143	-2.5622	6.5027E-6	
38.00000	24.00000	15.50000	-0.50547	15.130	-0.0055947	-1.7730	4.5638E-6	
39.00000	24.00000	15.50000	-0.34520	15.130	-0.0027196	-1.3252	3.4342E-6	
40.00000	24.00000	15.50000	-0.22395	15.130	-0.0015102	-1.0399	2.7047E-6	
41.00000	24.00000	15.50000	-0.13082	15.130	-919.65E-6	-0.84355	2.1988E-6	
42.00000	24.00000	15.50000	-0.05898	15.130	-598.92E-6	-0.70066	1.829E-6	
43.00000	24.00000	15.50000	-0.0026240	15.130	-410.52E-6	-0.59296	1.5493E-6	
44.00000	24.00000	15.50000	0.040972	15.130	-292.76E-6	-0.50884	1.3305E-6	
45.00000	24.00000	15.50000	0.074757	15.130	-215.52E-6	-0.44169	1.1555E-6	
46.00000	24.00000	15.50000	0.10076	15.130	-162.82E-6	-0.38704	1.0129E-6	
47.00000	24.00000	15.50000	0.13055	15.130	-125.68E-6	-0.34186	0.0	
48.00000	24.00000	15.50000	0.13537	15.130	-98.785E-6	-0.30402	0.0	
49.00000	24.00000	15.50000	0.14620	15.130	-78.856E-6	-0.27198	0.0	
50.00000	24.00000	15.50000	0.15381	15.130	-63.792E-6	-0.24458	0.0	
51.00000	24.00000	15.50000	0.15883	15.130	-52.210E-6	-0.22096	0.0	
52.00000	24.00000	15.50000	0.16177	15.130	-43.172E-6	-0.20046	0.0	
53.00000	24.00000	15.50000	0.16305	15.130	-36.024E-6	-0.18254	0.0	
54.00000	24.00000	15.50000	0.16300	15.130	-30.305E-6	-0.16679	0.0	
55.00000	24.00000	15.50000	0.16189	15.130	-25.681E-6	-0.15288	0.0	
-25.00000	25.00000	15.50000	0.16981	15.130	-20.617E-6	-0.14373	0.0	
-24.00000	25.00000	15.50000	0.17254	15.130	-23.877E-6	-0.15591	0.0	
-23.00000	25.00000	15.50000	0.17456	15.130	-27.795E-6	-0.16953	0.0	
-22.00000	25.00000	15.50000	0.17567	15.130	-32.535E-6	-0.18482	0.0	
-21.00000	25.00000	15.50000	0.17565	15.130	-38.314E-6	-0.20206	0.0	
-20.00000	25.00000	15.50000	0.17420	15.130	-45.418E-6	-0.22158	0.0	
-19.00000	25.00000	15.50000	0.17096	15.130	-54.231E-6	-0.24379	0.0	
-18.00000	25.00000	15.50000	0.16552	15.130	-65.277E-6	-0.26918	0.0	
-17.00000	25.00000	15.50000	0.15736	15.130	-79.281E-6	-0.29839	0.0	
-16.00000	25.00000	15.50000	0.14583	15.130	-97.263E-6	-0.33220	0.0	
-15.00000	25.00000	15.50000	0.13016	15.130	-120.69E-6	-0.37164	0.0	
-14.00000	25.00000	15.50000	0.10938	15.130	-151.78E-6	-0.41800	1.0944E-6	
-13.00000	25.00000	15.50000	0.082312	15.130	-193.63E-6	-0.47304	1.2381E-6	
-12.00000	25.00000	15.50000	0.047464	15.130	-251.49E-6	-0.53909	1.4105E-6	
-11.00000	25.00000	15.50000	0.0029771	15.130	-333.50E-6	-0.61940	1.6199E-6	
-10.00000	25.00000	15.50000	-0.05352	15.130	-453.43E-6	-0.71855	1.8782E-6	
-9.00000	25.00000	15.50000	-0.12504	15.130	-635.63E-6	-0.84326	2.2025E-6	
-8.00000	25.00000	15.50000	-0.21556	15.130	-925.72E-6	-1.0038	2.6192E-6	
-7.00000	25.00000	15.50000	-0.33036	15.130	-0.0014159	-1.2167	3.1700E-6	
-6.00000	25.00000	15.50000	-0.47669	15.130	-0.0023109	-1.5099	3.9253E-6	
-5.00000	25.00000	15.50000	-0.66494	15.130	-0.0041254	-1.9356	5.0137E-6	
-4.00000	25.00000	15.50000	-0.91087	15.130	-0.0083974	-2.6019	6.694	



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
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MP		

Name	Location	Z [Level]	Z [mm]	Calc Level [mOD]	Stresses		
					Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
23.00000	25.00000	15.50000	-5.0154	15.130	-44.595	-96.405	-449.10E-6
24.00000	25.00000	15.50000	-4.8395	15.130	-44.590	-95.846	-450.48E-6
25.00000	25.00000	15.50000	-4.6914	15.130	-44.588	-95.492	-451.38E-6
26.00000	25.00000	15.50000	-4.5575	15.130	-44.587	-95.221	-452.08E-6
27.00000	25.00000	15.50000	-4.4281	15.130	-44.586	-94.978	-452.70E-6
28.00000	25.00000	15.50000	-4.2946	15.130	-44.585	-94.723	-453.36E-6
29.00000	25.00000	15.50000	-4.1480	15.130	-44.584	-94.416	-454.15E-6
30.00000	25.00000	15.50000	-3.9771	15.130	-44.582	-93.988	-455.23E-6
31.00000	25.00000	15.50000	-3.7656	15.130	-44.575	-93.287	-456.96E-6
32.00000	25.00000	15.50000	-3.4839	15.130	-44.543	-91.835	-460.28E-6
33.00000	25.00000	15.50000	-3.0649	15.130	-44.425	-87.174	-467.53E-6
34.00000	25.00000	15.50000	-2.1809	15.130	-22.293	-47.764	-225.63E-6
35.00000	25.00000	15.50000	-1.2998	15.130	-0.36136	-8.3573	16.239E-6
36.00000	25.00000	15.50000	-0.88936	15.130	-0.043227	-3.7069	9.0455E-6
37.00000	25.00000	15.50000	-0.62249	15.130	-0.011882	-2.2737	5.7786E-6
38.00000	25.00000	15.50000	-0.43265	15.130	-0.0047653	-1.5001	4.1233E-6
39.00000	25.00000	15.50000	-0.29139	15.130	-0.0023479	-1.2124	3.1440E-6
40.00000	25.00000	15.50000	-0.18371	15.130	-0.0013228	-0.96160	2.5022E-6
41.00000	25.00000	15.50000	-0.10052	15.130	-815.86E-6	-0.78670	2.0513E-6
42.00000	25.00000	15.50000	-0.035795	15.130	-537.24E-6	-0.65818	1.7185E-6
43.00000	25.00000	15.50000	0.014683	15.130	-371.63E-6	-0.56007	1.4638E-6
44.00000	25.00000	15.50000	0.054010	15.130	-267.22E-6	-0.48296	1.2630E-6
45.00000	25.00000	15.50000	0.084514	15.130	-198.11E-6	-0.42098	1.1014E-6
46.00000	25.00000	15.50000	0.10798	15.130	-150.59E-6	-0.37023	0.0
47.00000	25.00000	15.50000	0.12581	15.130	-116.88E-6	-0.32806	0.0
48.00000	25.00000	15.50000	0.13911	15.130	-92.319E-6	-0.29258	0.0
49.00000	25.00000	15.50000	0.14875	15.130	-74.017E-6	-0.26240	0.0
50.00000	25.00000	15.50000	0.15544	15.130	-60.115E-6	-0.23651	0.0
51.00000	25.00000	15.50000	0.15975	15.130	-49.377E-6	-0.21411	0.0
52.00000	25.00000	15.50000	0.16215	15.130	-40.962E-6	-0.19460	0.0
53.00000	25.00000	15.50000	0.16301	15.130	-34.283E-6	-0.17751	0.0
54.00000	25.00000	15.50000	0.16265	15.130	-28.919E-6	-0.16245	0.0
55.00000	25.00000	15.50000	0.16131	15.130	-24.568E-6	-0.14911	0.0
-25.00000	26.00000	15.50000	0.16868	15.130	-19.777E-6	-0.14025	0.0
-24.00000	26.00000	15.50000	0.17154	15.130	-22.857E-6	-0.15134	0.0
-23.00000	26.00000	15.50000	0.17374	15.130	-26.547E-6	-0.16499	0.0
-22.00000	26.00000	15.50000	0.17512	15.130	-30.999E-6	-0.17961	0.0
-21.00000	26.00000	15.50000	0.17544	15.130	-36.408E-6	-0.19606	0.0
-20.00000	26.00000	15.50000	0.17445	15.130	-43.036E-6	-0.21463	0.0
-19.00000	26.00000	15.50000	0.17183	15.130	-51.227E-6	-0.23570	0.0
-18.00000	26.00000	15.50000	0.16717	15.130	-61.451E-6	-0.25972	0.0
-17.00000	26.00000	15.50000	0.16002	15.130	-74.355E-6	-0.28725	0.0
-16.00000	26.00000	15.50000	0.14980	15.130	-90.842E-6	-0.31902	0.0
-15.00000	26.00000	15.50000	0.13580	15.130	-112.21E-6	-0.35591	0.0
-14.00000	26.00000	15.50000	0.11747	15.130	-140.33E-6	-0.39910	1.0449E-6
-13.00000	26.00000	15.50000	0.092851	15.130	-178.04E-6	-0.45010	1.1782E-6
-12.00000	26.00000	15.50000	0.061534	15.130	-229.69E-6	-0.51097	1.3371E-6
-11.00000	26.00000	15.50000	0.021594	15.130	-302.23E-6	-0.58448	1.5288E-6
-10.00000	26.00000	15.50000	-0.029011	15.130	-407.17E-6	-0.67454	1.7634E-6
-9.00000	26.00000	15.50000	-0.092872	15.130	-564.56E-6	-0.78663	2.0555E-6
-8.00000	26.00000	15.50000	-0.17332	15.130	-811.27E-6	-0.92976	2.4267E-6
-7.00000	26.00000	15.50000	-0.27472	15.130	-0.0012202	-1.1167	2.9108E-6
-6.00000	26.00000	15.50000	-0.40293	15.130	-0.0019487	-1.3698	3.5635E-6
-5.00000	26.00000	15.50000	-0.56607	15.130	-0.0033790	-1.7290	4.4832E-6
-4.00000	26.00000	15.50000	-0.77401	15.130	-0.006023	-2.2734	5.8611E-6
-3.00000	26.00000	15.50000	-1.0514	15.130	-0.015570	-3.1866	8.1159E-6
-2.00000	26.00000	15.50000	-1.4251	15.130	-0.051471	-5.0071	12.327E-6
-1.00000	26.00000	15.50000	-1.9662	15.130	-0.36766	-10.224	21.036E-6
0.00000	26.00000	15.50000	-2.9661	15.130	-20.000	-47.381	-190.54E-6
1.00000	26.00000	15.50000	-3.9654	15.130	-39.632	-84.536	-402.11E-6
2.00000	26.00000	15.50000	-4.5048	15.130	-59.948	-124.748	-633.42E-6
3.00000	26.00000	15.50000	-4.8756	15.130	-81.984	-175.561	-939.22E-6
4.00000	26.00000	15.50000	-5.1466	15.130	-106.993	-242.464	-1337.00E-6
5.00000	26.00000	15.50000	-5.3506	15.130	-136.997	-332.994	-1835.66E-6
6.00000	26.00000	15.50000	-5.5057	15.130	-173.000	-452.935	-2547.78E-6
7.00000	26.00000	15.50000	-5.6235	15.130	-216.999	-612.566	-3441.19E-6
8.00000	26.00000	15.50000	-5.7114	15.130	-269.999	-812.724	-4633.78E-6
9.00000	26.00000	15.50000	-5.7746	15.130	-332.999	-1062.332	-6235.50E-6
10.00000	26.00000	15.50000	-5.8166	15.130	-399.999	-1372.900	-8133.32E-6
11.00000	26.00000	15.50000	-5.8394	15.130	-473.999	-1822.935	-10452.23E-6
12.00000	26.00000	15.50000	-5.8440	15.130	-556.999	-2432.939	-13402.22E-6
13.00000	26.00000	15.50000	-5.8306	15.130	-650.999	-3212.909	-17133.30E-6
14.00000	26.00000	15.50000	-5.7980	15.130	-756.999	-4162.838	-21704.48E-6
15.00000	26.00000	15.50000	-5.7437	15.130	-876.998	-5292.711	-27288.80E-6
16.00000	26.00000	15.50000	-5.6684	15.130	-1003.997	-6612.495	-33914.78E-6
17.00000	26.00000	15.50000	-5.5496	15.130	-1139.993	-8032.109	-41633.30E-6
18.00000	26.00000	15.50000	-5.3881	15.130	-1287.977	-9562.319	-50483.13E-6
19.00000	26.00000	15.50000	-5.1489	15.130	-1448.939	-11202.330	-60523.94E-6
20.00000	26.00000	15.50000	-4.7044	15.130	-1725.250	-13852.772	-72894.40E-6
21.00000	26.00000	15.50000	-4.2533	15.130	-2126.661	-17502.500	-87875.67E-6
22.00000	26.00000	15.50000	-4.0022	15.130	-2552.522	-22192.195	-105746.74E-6
23.00000	26.00000	15.50000	-3.8167	15.130	-3003.507	-27502.367	-127267.67E-6
24.00000	26.00000	15.50000	-3.6678	15.130	-3479.503	-33402.926	-152868.66E-6
25.00000	26.00000	15.50000	-3.5596	15.130	-4081.501	-40002.631	-183069.51E-6
26.00000	26.00000	15.50000	-3.4823	15.130	-4819.500	-47402.339	-218470.16E-6
27.00000	26.00000	15.50000	-3.3083	15.130	-5695.500	-55802.188	-259671.65E-6
28.00000	26.00000	15.50000	-3.1908	15.130	-6719.499	-65302.967	-307472.22E-6
29.00000	26.00000	15.50000	-3.0628	15.130	-7903.498	-76002.705	-362472.90E-6
30.00000	26.00000	15.50000	-2.9155	15.130	-9247.496	-88002.351	-425473.80E-6
31.00000	26.00000	15.50000	-2.7973	15.130	-10761.491	-101402.199	-497474.78E-6
32.00000	26.00000	15.50000	-2.5082	15.130	-12445.471	-116402.042	-578475.82E-6
33.00000	26.00000	15.50000	-2.1887	15.130	-14299.463	-133402.042	-669476.92E-6
34.00000	26.00000	15.50000	-1.6140	15.130	-17353.456	-153402.042	-782478.06E-6
35.00000	26.00000	15.50000	-1.0419	15.130	-20707.450	-176402.042	-918479.24E-6
36.00000	26.00000	15.50000	-0.7929	15.130	-24361.443	-202402.042	-1068480.46E-6
37.00000	26.00000	15.50000	-0.51470	15.130	-28415.436	-231402.042	-1243481.72E-6
38.00000	26.00000	15.50000	-0.35599	15.130	-32869.429	-263402.042	-1436483.02E-6
39.00000	26.00000	15.50000	-0.23537	15.130	-37723.422	-300402.042	-1659484.36E-6
40.00000	26.00000	15.50000	-0.14211	15.130	-42977.415	-342402.042	-1924485.74E-6
41.00000	26.00000	15.50000	-0.069347	15.130	-48631.408	-389402.042	-2234487.16E-6
42.00000	26.00000	15.50000	-0.012335	15.130	-54685.401	-441402.042	-2684488.62E-6
43.00000	26.00000	15.50000	0.032350	15.130	-61139.394	-499402.042	-3184490.12E-6
44.00000	26.00000	15.50000	0.067274	15.130	-68093.387	-563402.042	-3744491.66E-6
45.00000	26.00000	15.50000	0.094403	15.130	-75547.380	-633402.042	-4364493.24E-6
46.00000	26.00000	15.50000	0.11527	15.130	-83501.373	-709402.042	-5044494.86E-6
47.00000	26.00000	15.50000	0.13109	15.130	-91955.366	-791402.042	-5784496.52E-6
48.00000	26.00000	15.50000	0.14282	15.130	-100909.359	-879402.042	-6584498.22E-6
49.00000	26.00000	15.50000	0.15126	15.130	-110363.352	-973402.042	-7444500.06E-6
50.00000	26.00000	15.50000	0.15701	15.130	-120317.345	-1073402.042	-8364502.06E-6
51.00000	26.00000	15.50000	0.16060	15.130	-130771.338	-1179402.042	-9344504.22E-6
52.00000	26.00000	15.50000	0.16244	15.130	-141725.331	-1291402.042	-10384506.44E-6
53.00000	26.00000	15.50000	0.16288	1			



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Dr. Ref.		
Made by	Date	Checked
MP		

Name	Location		Z [Level] [m]	Z [mm]	Calc Level [mOD]	Stresses		
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
2.00000	27.00000	15.50000	-2.7824	15.130	-0.70914	-16.718	32.700E-6	
3.00000	27.00000	15.50000	-3.0635	15.130	-0.72523	-17.835	35.377E-6	
4.00000	27.00000	15.50000	-3.2805	15.130	-0.73050	-18.480	36.987E-6	
5.00000	27.00000	15.50000	-3.4491	15.130	-0.73267	-18.889	38.028E-6	
6.00000	27.00000	15.50000	-3.5801	15.130	-0.73371	-19.165	38.735E-6	
7.00000	27.00000	15.50000	-3.6809	15.130	-0.73425	-19.357	39.203E-6	
8.00000	27.00000	15.50000	-3.7570	15.130	-0.73456	-19.492	39.579E-6	
9.00000	27.00000	15.50000	-3.8121	15.130	-0.73473	-19.585	39.821E-6	
10.00000	27.00000	15.50000	-3.8491	15.130	-0.73483	-19.645	39.977E-6	
11.00000	27.00000	15.50000	-3.8694	15.130	-0.73486	-19.677	40.060E-6	
12.00000	27.00000	15.50000	-3.8784	15.130	-0.73483	-19.682	40.073E-6	
13.00000	27.00000	15.50000	-3.8632	15.130	-0.73473	-19.658	40.013E-6	
14.00000	27.00000	15.50000	-3.8360	15.130	-0.73451	-19.602	39.868E-6	
15.00000	27.00000	15.50000	-3.7909	15.130	-0.73407	-19.502	39.612E-6	
16.00000	27.00000	15.50000	-3.7252	15.130	-0.73314	-19.337	39.194E-6	
17.00000	27.00000	15.50000	-3.6345	15.130	-0.73083	-19.053	38.511E-6	
18.00000	27.00000	15.50000	-3.5122	15.130	-0.72380	-18.577	37.348E-6	
19.00000	27.00000	15.50000	-3.3494	15.130	-0.69455	-17.614	35.281E-6	
20.00000	27.00000	15.50000	-3.1451	15.130	-0.57439	-15.726	32.219E-6	
21.00000	27.00000	15.50000	-2.9367	15.130	-0.45422	-13.831	29.139E-6	
22.00000	27.00000	15.50000	-2.7615	15.130	-0.32485	-12.848	27.020E-6	
23.00000	27.00000	15.50000	-2.6177	15.130	-0.41788	-12.328	25.767E-6	
24.00000	27.00000	15.50000	-2.4958	15.130	-0.41552	-12.004	24.954E-6	
25.00000	27.00000	15.50000	-2.3876	15.130	-0.41450	-11.769	24.355E-6	
26.00000	27.00000	15.50000	-2.2869	15.130	-0.41393	-11.576	23.858E-6	
27.00000	27.00000	15.50000	-2.1983	15.130	-0.41350	-11.397	23.394E-6	
28.00000	27.00000	15.50000	-2.0869	15.130	-0.41304	-11.210	22.911E-6	
29.00000	27.00000	15.50000	-1.9773	15.130	-0.41236	-10.993	22.352E-6	
30.00000	27.00000	15.50000	-1.8538	15.130	-0.41108	-10.713	21.638E-6	
31.00000	27.00000	15.50000	-1.7088	15.130	-0.40807	-10.310	20.626E-6	
32.00000	27.00000	15.50000	-1.5324	15.130	-0.39899	-9.682	19.031E-6	
33.00000	27.00000	15.50000	-1.3126	15.130	-0.36138	-8.3845	16.310E-6	
34.00000	27.00000	15.50000	-1.0471	15.130	-0.20687	-5.9431	12.337E-6	
35.00000	27.00000	15.50000	-0.78396	15.130	-0.052375	-3.5044	8.3702E-6	
36.00000	27.00000	15.50000	-0.51718	15.130	-0.014769	-2.2458	5.6685E-6	
37.00000	27.00000	15.50000	-0.40689	15.130	-0.0057087	-1.6020	4.1134E-6	
38.00000	27.00000	15.50000	-0.27933	15.130	-0.0027329	-1.2203	3.1588E-6	
39.00000	27.00000	15.50000	-0.17937	15.130	-0.0015051	-0.97106	2.5242E-6	
40.00000	27.00000	15.50000	-0.10055	15.130	-912.86E-6	-0.79637	2.0751E-6	
41.00000	27.00000	15.50000	-0.03221	15.130	-593.64E-6	-0.66761	1.7423E-6	
42.00000	27.00000	15.50000	0.011068	15.130	-406.82E-6	-0.56908	1.4867E-6	
43.00000	27.00000	15.50000	0.049948	15.130	-290.36E-6	-0.49149	1.2850E-6	
44.00000	27.00000	15.50000	0.080459	15.130	-214.05E-6	-0.42901	1.1223E-6	
45.00000	27.00000	15.50000	0.10421	15.130	-161.99E-6	-0.37777	0.0	
46.00000	27.00000	15.50000	0.12247	15.130	-125.29E-6	-0.33512	0.0	
47.00000	27.00000	15.50000	0.13627	15.130	-98.683E-6	-0.29918	0.0	
48.00000	27.00000	15.50000	0.14644	15.130	-78.944E-6	-0.26858	0.0	
49.00000	27.00000	15.50000	0.15366	15.130	-64.001E-6	-0.24228	0.0	
50.00000	27.00000	15.50000	0.15848	15.130	-52.494E-6	-0.21950	0.0	
51.00000	27.00000	15.50000	0.16134	15.130	-43.117E-6	-0.19954	0.0	
52.00000	27.00000	15.50000	0.16263	15.130	-36.368E-6	-0.18221	0.0	
53.00000	27.00000	15.50000	0.16265	15.130	-30.654E-6	-0.16684	0.0	
54.00000	27.00000	15.50000	0.16165	15.130	-26.025E-6	-0.15321	0.0	
55.00000	27.00000	15.50000	0.15983	15.130	-22.240E-6	-0.14108	0.0	
56.00000	27.00000	15.50000	0.16008	15.130	-18.036E-6	-0.13200	0.0	
57.00000	27.00000	15.50000	0.16919	15.130	-20.747E-6	-0.14358	0.0	
58.00000	27.00000	15.50000	0.17177	15.130	-23.974E-6	-0.15545	0.0	
59.00000	27.00000	15.50000	0.17365	15.130	-27.840E-6	-0.16868	0.0	
60.00000	27.00000	15.50000	0.17466	15.130	-32.502E-6	-0.18349	0.0	
61.00000	27.00000	15.50000	0.17459	15.130	-38.166E-6	-0.20111	0.0	
62.00000	27.00000	15.50000	0.17317	15.130	-45.104E-6	-0.21885	0.0	
63.00000	27.00000	15.50000	0.17008	15.130	-53.677E-6	-0.24007	0.0	
64.00000	27.00000	15.50000	0.16495	15.130	-64.376E-6	-0.26421	0.0	
65.00000	27.00000	15.50000	0.15734	15.130	-77.876E-6	-0.29182	0.0	
66.00000	27.00000	15.50000	0.14668	15.130	-95.122E-6	-0.32358	0.0	
67.00000	27.00000	15.50000	0.13232	15.130	-117.46E-6	-0.36036	0.0	
68.00000	27.00000	15.50000	0.11348	15.130	-146.86E-6	-0.40327	1.0558E-6	
69.00000	27.00000	15.50000	0.089186	15.130	-186.25E-6	-0.45375	1.1876E-6	
70.00000	27.00000	15.50000	0.058279	15.130	-240.16E-6	-0.51371	1.3441E-6	
71.00000	27.00000	15.50000	0.019342	15.130	-315.70E-6	-0.58973	1.5319E-6	
72.00000	27.00000	15.50000	-0.029355	15.130	-424.78E-6	-0.67338	1.7601E-6	
73.00000	27.00000	15.50000	-0.089928	15.130	-587.55E-6	-0.78170	2.0418E-6	
74.00000	27.00000	15.50000	-0.16498	15.130	-840.69E-6	-0.91805	2.3955E-6	
75.00000	27.00000	15.50000	-0.25770	15.130	-0.0012544	-1.0935	2.8494E-6	
76.00000	27.00000	15.50000	-0.37203	15.130	-0.0019723	-1.3255	3.4467E-6	
77.00000	27.00000	15.50000	-0.51272	15.130	-0.003188	-1.6423	4.2567E-6	
78.00000	27.00000	15.50000	-0.68532	15.130	-0.0060692	-2.0913	5.3916E-6	
79.00000	27.00000	15.50000	-0.89530	15.130	-0.012206	-2.7507	7.0251E-6	
80.00000	27.00000	15.50000	-1.1447	15.130	-0.026180	-3.7225	9.3548E-6	
81.00000	27.00000	15.50000	-1.4220	15.130	-0.051470	-5.0053	12.323E-6	
82.00000	27.00000	15.50000	-1.7010	15.130	-0.076760	-6.2889	15.292E-6	
83.00000	27.00000	15.50000	-1.9491	15.130	-0.090733	-7.2570	17.612E-6	
84.00000	27.00000	15.50000	-2.1568	15.130	-0.096866	-7.9100	19.229E-6	
85.00000	27.00000	15.50000	-2.3260	15.130	-0.099611	-8.3500	20.340E-6	
86.00000	27.00000	15.50000	-2.4621	15.130	-0.10095	-8.6547	21.193E-6	
87.00000	27.00000	15.50000	-2.5702	15.130	-0.10166	-8.8712	21.676E-6	
88.00000	27.00000	15.50000	-2.6549	15.130	-0.10206	-9.0275	22.079E-6	
89.00000	27.00000	15.50000	-2.7196	15.130	-0.10230	-9.1401	22.371E-6	
90.00000	27.00000	15.50000	-2.7670	15.130	-0.10243	-9.2194	22.577E-6	
91.00000	27.00000	15.50000	-2.7990	15.130	-0.10251	-9.2715	22.713E-6	
92.00000	27.00000	15.50000	-2.8170	15.130	-0.10253	-9.2998	22.787E-6	
93.00000	27.00000	15.50000	-2.8217	15.130	-0.10252	-9.3058	22.802E-6	
94.00000	27.00000	15.50000	-2.8131	15.130	-0.10244	-9.2885	22.758E-6	
95.00000	27.00000	15.50000	-2.7911	15.130	-0.10229	-9.2448	22.646E-6	
96.00000	27.00000	15.50000	-2.7586	15.130	-0.10199	-9.1696	22.451E-6	
97.00000	27.00000	15.50000	-2.7023	15.130	-0.10141	-9.0482	22.144E-6	
98.00000	27.00000	15.50000	-2.6320	15.130	-0.10022	-8.8636	21.678E-6	
99.00000	27.00000	15.50000	-2.5416	15.130	-0.097535	-8.5808	20.979E-6	
100.00000	27.00000	15.50000	-2.4305	15.130	-0.094149	-8.1553	19.959E-6	
101.00000	27.00000	15.50000	-2.3000	15.130	-0.080347	-7.5973	18.642E-6	
102.00000	27.00000	15.50000	-2.1720	15.130	-0.069270	-7.0134	17.311E-6	
103.00000	27.00000	15.50000	-2.0498	15.130	-0.063138	-6.5701	16.245E-6	
104.00000	27.00000	15.50000	-1.9406	15.130	-0.060426	-6.2567	15.465E-6	
105.00000	27.00000	15.50000	-1.8429	15.130	-0.059182	-6.0272	14.882E-6	
106.00000	27.00000	15.50000	-1.7583	15.130	-0.058534	-5.8456	14.416E-6	
107.00000	27.00000	15.50000	-1.6684	15.130	-0.058129	-5.6884	14.010E-6	
108.00000	27.00000	15.50000	-1.5846	15.130	-0.057807	-5.5391	13.623E-6	
109.00000	27.00000	15.50000	-1.4986	15.130	-0.057464	-5.3840	13.222E-6	
110.00000	27.00000	15.50000	-1.4067	15.130	-0.056989	-5.2084	12.768E-6	
111.00000	27.00000	15.50000	-1.3051	15.130	-0.056185	-4.9932	12.217E-6	
112.00								

Job No.	Sheet No.	Rev.
J15249		
Dr. Ref.		
Made by	Date	Checked
MP		

Name	Location	Z [Level] [m]	Z [mm]	Stresses			Vert Strain [-]
				Calc Level [mOD]	Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	
-19.00000	29.00000	15.50000	0.17358	15.130	-42.060E-6	-0.21025	0.0
-18.00000	29.00000	15.50000	0.17125	15.130	-49.830E-6	-0.23007	0.0
-17.00000	29.00000	15.50000	0.16710	15.130	-59.464E-6	-0.25253	0.0
-16.00000	29.00000	15.50000	0.16074	15.130	-71.529E-6	-0.27809	0.0
-15.00000	29.00000	15.50000	0.15169	15.130	-86.811E-6	-0.30733	0.0
-14.00000	29.00000	15.50000	0.13939	15.130	-106.413E-6	-0.34039	0.0
-13.00000	29.00000	15.50000	0.12317	15.130	-131.92E-6	-0.37999	0.0
-12.00000	29.00000	15.50000	0.10223	15.130	-165.64E-6	-0.42549	1.1138E-6
-11.00000	29.00000	15.50000	0.075610	15.130	-211.04E-6	-0.47902	1.2535E-6
-10.00000	29.00000	15.50000	0.042176	15.130	-273.47E-6	-0.54258	1.4193E-6
-9.00000	29.00000	15.50000	571.75866	15.130	-361.36E-6	-0.61886	1.6181E-6
-8.00000	29.00000	15.50000	-0.050805	15.130	-488.58E-6	-0.71150	1.8591E-6
-7.00000	29.00000	15.50000	-0.11384	15.130	-678.62E-6	-0.82555	2.1554E-6
-6.00000	29.00000	15.50000	-0.19071	15.130	-972.95E-6	-0.96812	2.5248E-6
-5.00000	29.00000	15.50000	-0.28386	15.130	-0.0014474	-1.1493	2.9928E-6
-4.00000	29.00000	15.50000	-0.39589	15.130	-0.0022447	-1.3835	3.5947E-6
-3.00000	29.00000	15.50000	-0.52910	15.130	-0.0036328	-1.6901	4.3772E-6
-2.00000	29.00000	15.50000	-0.68458	15.130	-0.0060690	-2.0911	5.3911E-6
-1.00000	29.00000	15.50000	-0.86030	15.130	-0.010086	-2.5988	6.6599E-6
0.00000	29.00000	15.50000	-1.0486	15.130	-0.015568	-3.1857	8.1136E-6
1.00000	29.00000	15.50000	-1.2366	15.130	-0.021050	-3.7715	9.5642E-6
2.00000	29.00000	15.50000	-1.4112	15.130	-0.025065	-4.2757	10.824E-6
3.00000	29.00000	15.50000	-1.5648	15.130	-0.027499	-4.6710	11.823E-6
4.00000	29.00000	15.50000	-1.6951	15.130	-0.028882	-4.9692	12.583E-6
5.00000	29.00000	15.50000	-1.8031	15.130	-0.029474	-5.1923	13.156E-6
6.00000	29.00000	15.50000	-1.8910	15.130	-0.030140	-5.3594	13.589E-6
7.00000	29.00000	15.50000	-1.9610	15.130	-0.030423	-5.4844	13.911E-6
8.00000	29.00000	15.50000	-2.0151	15.130	-0.030598	-5.5770	14.151E-6
9.00000	29.00000	15.50000	-2.0553	15.130	-0.030704	-5.6436	14.324E-6
10.00000	29.00000	15.50000	-2.0827	15.130	-0.030764	-5.6882	14.440E-6
11.00000	29.00000	15.50000	-2.0984	15.130	-0.030786	-5.7134	14.500E-6
12.00000	29.00000	15.50000	-2.1029	15.130	-0.030774	-5.7201	14.524E-6
13.00000	29.00000	15.50000	-2.0965	15.130	-0.030722	-5.7081	14.493E-6
14.00000	29.00000	15.50000	-2.0790	15.130	-0.030616	-5.6755	14.409E-6
15.00000	29.00000	15.50000	-2.0501	15.130	-0.030424	-5.6191	14.264E-6
16.00000	29.00000	15.50000	-2.0091	15.130	-0.030086	-5.5332	14.044E-6
17.00000	29.00000	15.50000	-1.9554	15.130	-0.029485	-5.4098	13.730E-6
18.00000	29.00000	15.50000	-1.8887	15.130	-0.028421	-5.2397	13.300E-6
19.00000	29.00000	15.50000	-1.8100	15.130	-0.026662	-5.0175	12.745E-6
20.00000	29.00000	15.50000	-1.7220	15.130	-0.024257	-4.7552	12.095E-6
21.00000	29.00000	15.50000	-1.6320	15.130	-0.021848	-4.4877	11.431E-6
22.00000	29.00000	15.50000	-1.5436	15.130	-0.020075	-4.2496	10.834E-6
23.00000	29.00000	15.50000	-1.4605	15.130	-0.018986	-4.0523	10.334E-6
24.00000	29.00000	15.50000	-1.3829	15.130	-0.018346	-3.8895	9.9165E-6
25.00000	29.00000	15.50000	-1.3107	15.130	-0.01797	-3.7501	9.5570E-6
26.00000	29.00000	15.50000	-1.2392	15.130	-0.017672	-3.6237	9.2296E-6
27.00000	29.00000	15.50000	-1.1691	15.130	-0.017437	-3.5011	8.9117E-6
28.00000	29.00000	15.50000	-1.0972	15.130	-0.017189	-3.3741	8.5823E-6
29.00000	29.00000	15.50000	-1.0212	15.130	-0.016867	-3.2338	8.2193E-6
30.00000	29.00000	15.50000	-0.93886	15.130	-0.016380	-3.0703	7.7973E-6
31.00000	29.00000	15.50000	-0.84818	15.130	-0.015712	-2.8703	7.2860E-6
32.00000	29.00000	15.50000	-0.74794	15.130	-0.014181	-2.6210	6.6536E-6
33.00000	29.00000	15.50000	-0.63877	15.130	-0.011906	-2.3143	5.8848E-6
34.00000	29.00000	15.50000	-0.52450	15.130	-0.0088103	-1.9650	5.0171E-6
35.00000	29.00000	15.50000	-0.41205	15.130	-0.0057169	-1.6178	4.1547E-6
36.00000	29.00000	15.50000	-0.30836	15.130	-0.0034498	-1.3173	3.4021E-6
37.00000	29.00000	15.50000	-0.21745	15.130	-0.0020734	-1.0787	2.7977E-6
38.00000	29.00000	15.50000	-0.14021	15.130	-0.0012879	-0.89484	2.3276E-6
39.00000	29.00000	15.50000	-0.075820	15.130	-835.48E-6	-0.75300	1.9625E-6
40.00000	29.00000	15.50000	-0.022818	15.130	-565.43E-6	-0.64209	1.6758E-6
41.00000	29.00000	15.50000	0.020396	15.130	-397.26E-6	-0.55391	1.4471E-6
42.00000	29.00000	15.50000	0.055318	15.130	-288.20E-6	-0.48262	1.2617E-6
43.00000	29.00000	15.50000	0.083276	15.130	-214.83E-6	-0.42411	1.1094E-6
44.00000	29.00000	15.50000	0.10541	15.130	-163.87E-6	-0.37545	0.0
45.00000	29.00000	15.50000	0.12270	15.130	-127.42E-6	-0.33450	0.0
46.00000	29.00000	15.50000	0.13596	15.130	-100.85E-6	-0.29970	0.0
47.00000	29.00000	15.50000	0.14587	15.130	-80.953E-6	-0.26985	0.0
48.00000	29.00000	15.50000	0.15303	15.130	-65.810E-6	-0.24404	0.0
49.00000	29.00000	15.50000	0.15790	15.130	-54.099E-6	-0.22159	0.0
50.00000	29.00000	15.50000	0.16090	15.130	-44.910E-6	-0.20192	0.0
51.00000	29.00000	15.50000	0.16237	15.130	-37.609E-6	-0.18460	0.0
52.00000	29.00000	15.50000	0.16259	15.130	-31.743E-6	-0.16928	0.0
53.00000	29.00000	15.50000	0.16179	15.130	-26.982E-6	-0.15565	0.0
54.00000	29.00000	15.50000	0.16017	15.130	-23.082E-6	-0.14349	0.0
55.00000	29.00000	15.50000	0.15770	15.130	-19.861E-6	-0.13260	0.0
56.00000	29.00000	15.50000	0.15440	15.130	-16.266E-6	-0.12518	0.0
57.00000	29.00000	15.50000	0.14934	15.130	-13.382E-6	-0.11951	0.0
58.00000	29.00000	15.50000	0.14274	15.130	-10.247E-6	-0.11511	0.0
59.00000	29.00000	15.50000	0.13490	15.130	-7.000E-6	-0.11181	0.0
60.00000	29.00000	15.50000	0.12610	15.130	-3.700E-6	-0.10941	0.0
61.00000	29.00000	15.50000	0.11650	15.130	0.000E-6	-0.10781	0.0
62.00000	29.00000	15.50000	0.10630	15.130	0.000E-6	-0.10691	0.0
63.00000	29.00000	15.50000	0.09560	15.130	0.000E-6	-0.10661	0.0
64.00000	29.00000	15.50000	0.08450	15.130	0.000E-6	-0.10691	0.0
65.00000	29.00000	15.50000	0.07300	15.130	0.000E-6	-0.10781	0.0
66.00000	29.00000	15.50000	0.06030	15.130	0.000E-6	-0.10941	0.0
67.00000	29.00000	15.50000	0.04760	15.130	0.000E-6	-0.11181	0.0
68.00000	29.00000	15.50000	0.03490	15.130	0.000E-6	-0.11491	0.0
69.00000	29.00000	15.50000	0.02220	15.130	0.000E-6	-0.11941	0.0
70.00000	29.00000	15.50000	0.00950	15.130	0.000E-6	-0.12541	0.0
71.00000	29.00000	15.50000	-0.00320	15.130	0.000E-6	-0.13291	0.0
72.00000	29.00000	15.50000	-0.01590	15.130	0.000E-6	-0.14191	0.0
73.00000	29.00000	15.50000	-0.02860	15.130	0.000E-6	-0.15141	0.0
74.00000	29.00000	15.50000	-0.04130	15.130	0.000E-6	-0.16141	0.0
75.00000	29.00000	15.50000	-0.05400	15.130	0.000E-6	-0.17191	0.0
76.00000	29.00000	15.50000	-0.06670	15.130	0.000E-6	-0.18291	0.0
77.00000	29.00000	15.50000	-0.07940	15.130	0.000E-6	-0.19441	0.0
78.00000	29.00000	15.50000	-0.09210	15.130	0.000E-6	-0.20641	0.0
79.00000	29.00000	15.50000	-0.10480	15.130	0.000E-6	-0.21891	0.0
80.00000	29.00000	15.50000	-0.11750	15.130	0.000E-6	-0.23191	0.0
81.00000	29.00000	15.50000	-0.13020	15.130	0.000E-6	-0.24541	0.0
82.00000	29.00000	15.50000	-0.14290	15.130	0.000E-6	-0.25941	0.0
83.00000	29.00000	15.50000	-0.15560	15.130	0.000E-6	-0.27391	0.0
84.00000	29.00000	15.50000	-0.16830	15.130	0.000E-6	-0.28891	0.0
85.00000	29.00000	15.50000	-0.18100	15.130	0.000E-6	-0.30441	0.0
86.00000	29.00000	15.50000	-0.19370	15.130	0.000E-6	-0.32041	0.0
87.00000	29.00000	15.50000	-0.20640	15.130	0.000E-6	-0.33691	0.0
88.00000	29.00000	15.50000	-0.21910	15.130	0.000E-6	-0.35391	0.0
89.00000	29.00000	15.50000	-0.23180	15.130	0.000E-6	-0.37141	0.0
90.00000	29.00000	15.50000	-0.24450	15.130	0.000E-6	-0.38941	0.0
91.00000	29.00000	15.50000	-0.25720	15.130	0.000E-6	-0.40791	0.0
92.00000	29.00000	15.50000	-0.26990	15.130	0.000E-6	-0.42691	0.0
93.00000	29.00000	15.50000	-0.28260	15.130	0.000E-6	-0.44641	0.0
94.00000	29.00000	15.50000	-0.29530	15.130	0.000E-6	-0.46641	0.0
95.00000	29.00000	15.50000	-0.30800	15.130	0.000E-6	-0.48691	0.0
96.00000	29.00000	15.50000	-0.32				



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Dr. Ref.		
Made by	Date	Checked
MP		

Name	Location	Z [Level] [m]	Z [mm]	Calc Level [mOD]	Stresses		
					Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
41.00000	30.00000	15.50000	0.046514	15.130	-319.57E-6	-0.50266	1.3138E-6
42.00000	30.00000	15.50000	0.075193	15.130	-238.86E-6	-0.44269	1.1578E-6
43.00000	30.00000	15.50000	0.098308	15.130	-182.26E-6	-0.39241	1.0267E-6
44.00000	30.00000	15.50000	0.11668	15.130	-141.63E-6	-0.34989	0.0
45.00000	30.00000	15.50000	0.13102	15.130	-111.85E-6	-0.31362	0.0
46.00000	30.00000	15.50000	0.14189	15.130	-89.600E-6	-0.28244	0.0
47.00000	30.00000	15.50000	0.15010	15.130	-72.678E-6	-0.25544	0.0
48.00000	30.00000	15.50000	0.15585	15.130	-59.611E-6	-0.23191	0.0
49.00000	30.00000	15.50000	0.15964	15.130	-49.378E-6	-0.21129	0.0
50.00000	30.00000	15.50000	0.16179	15.130	-41.264E-6	-0.19313	0.0
51.00000	30.00000	15.50000	0.16260	15.130	-34.759E-6	-0.17705	0.0
52.00000	30.00000	15.50000	0.16231	15.130	-29.489E-6	-0.16275	0.0
53.00000	30.00000	15.50000	0.16113	15.130	-25.182E-6	-0.14998	0.0
54.00000	30.00000	15.50000	0.15924	15.130	-21.631E-6	-0.13854	0.0
55.00000	30.00000	15.50000	0.15677	15.130	-18.682E-6	-0.12826	0.0
-25.00000	31.00000	15.50000	0.16131	15.130	-15.389E-6	-0.11624	0.0
-24.00000	31.00000	15.50000	0.16475	15.130	-17.556E-6	-0.13039	0.0
-23.00000	31.00000	15.50000	0.16781	15.130	-20.107E-6	-0.14048	0.0
-22.00000	31.00000	15.50000	0.17038	15.130	-23.124E-6	-0.15162	0.0
-21.00000	31.00000	15.50000	0.17233	15.130	-26.713E-6	-0.16398	0.0
-20.00000	31.00000	15.50000	0.17352	15.130	-31.005E-6	-0.17971	0.0
-19.00000	31.00000	15.50000	0.17376	15.130	-36.174E-6	-0.19302	0.0
-18.00000	31.00000	15.50000	0.17283	15.130	-42.441E-6	-0.21015	0.0
-17.00000	31.00000	15.50000	0.17050	15.130	-50.096E-6	-0.22936	0.0
-16.00000	31.00000	15.50000	0.16647	15.130	-59.524E-6	-0.25101	0.0
-15.00000	31.00000	15.50000	0.16040	15.130	-71.241E-6	-0.27549	0.0
-14.00000	31.00000	15.50000	0.15189	15.130	-85.944E-6	-0.30330	0.0
-13.00000	31.00000	15.50000	0.14048	15.130	-104.59E-6	-0.33503	0.0
-12.00000	31.00000	15.50000	0.12564	15.130	-128.51E-6	-0.37141	0.0
-11.00000	31.00000	15.50000	0.10675	15.130	-159.60E-6	-0.41335	1.0820E-6
-10.00000	31.00000	15.50000	0.083139	15.130	-200.50E-6	-0.46136	1.2089E-6
-9.00000	31.00000	15.50000	0.054020	15.130	-255.20E-6	-0.51863	1.3567E-6
-8.00000	31.00000	15.50000	0.018550	15.130	-329.33E-6	-0.58506	1.5299E-6
-7.00000	31.00000	15.50000	-0.024165	15.130	-431.31E-6	-0.66337	1.7337E-6
-6.00000	31.00000	15.50000	-0.075015	15.130	-573.48E-6	-0.75607	1.9747E-6
-5.00000	31.00000	15.50000	-0.13479	15.130	-773.49E-6	-0.86607	2.2602E-6
-4.00000	31.00000	15.50000	-0.20403	15.130	-0.0010553	-0.99633	2.5975E-6
-3.00000	31.00000	15.50000	-0.28278	15.130	-0.0014471	-1.1492	2.9926E-6
-2.00000	31.00000	15.50000	-0.37024	15.130	-0.0019727	-1.3252	3.4461E-6
-1.00000	31.00000	15.50000	-0.46450	15.130	-0.0026316	-1.5210	3.9494E-6
0.00000	31.00000	15.50000	-0.56246	15.130	-0.0033777	-1.7282	4.4812E-6
1.00000	31.00000	15.50000	-0.66017	15.130	-0.0041234	-1.9344	5.0104E-6
2.00000	31.00000	15.50000	-0.75366	15.130	-0.0047809	-2.1273	5.5062E-6
3.00000	31.00000	15.50000	-0.83978	15.130	-0.0053042	-2.2984	5.9469E-6
4.00000	31.00000	15.50000	-0.91852	15.130	-0.0056927	-2.4444	6.3237E-6
5.00000	31.00000	15.50000	-0.98300	15.130	-0.0059658	-2.5654	6.6370E-6
6.00000	31.00000	15.50000	-1.0391	15.130	-0.0061636	-2.6637	6.8920E-6
7.00000	31.00000	15.50000	-1.0851	15.130	-0.0062975	-2.7421	7.0956E-6
8.00000	31.00000	15.50000	-1.1217	15.130	-0.0063887	-2.8031	7.2542E-6
9.00000	31.00000	15.50000	-1.1494	15.130	-0.0064486	-2.8488	7.3732E-6
10.00000	31.00000	15.50000	-1.1688	15.130	-0.0064844	-2.8808	7.4566E-6
11.00000	31.00000	15.50000	-1.1803	15.130	-0.0065002	-2.9002	7.5072E-6
12.00000	31.00000	15.50000	-1.1843	15.130	-0.0064972	-2.9075	7.5265E-6
13.00000	31.00000	15.50000	-1.1811	15.130	-0.0064745	-2.9029	7.5147E-6
14.00000	31.00000	15.50000	-1.1707	15.130	-0.0064284	-2.8860	7.4711E-6
15.00000	31.00000	15.50000	-1.1532	15.130	-0.0063525	-2.8563	7.3943E-6
16.00000	31.00000	15.50000	-1.1288	15.130	-0.0062370	-2.8128	7.2819E-6
17.00000	31.00000	15.50000	-1.0977	15.130	-0.0060703	-2.7548	7.1325E-6
18.00000	31.00000	15.50000	-1.0603	15.130	-0.0058420	-2.6824	6.9460E-6
19.00000	31.00000	15.50000	-1.0176	15.130	-0.0055527	-2.5970	6.7265E-6
20.00000	31.00000	15.50000	-0.97086	15.130	-0.0052221	-2.5023	6.4833E-6
21.00000	31.00000	15.50000	-0.92184	15.130	-0.0048885	-2.4036	6.2295E-6
22.00000	31.00000	15.50000	-0.87204	15.130	-0.0045894	-2.3059	5.9779E-6
23.00000	31.00000	15.50000	-0.82261	15.130	-0.0043442	-2.2126	5.7370E-6
24.00000	31.00000	15.50000	-0.77409	15.130	-0.0041515	-2.1246	5.5093E-6
25.00000	31.00000	15.50000	-0.72646	15.130	-0.0039989	-2.0411	5.2924E-6
26.00000	31.00000	15.50000	-0.67931	15.130	-0.0038708	-1.9600	5.0817E-6
27.00000	31.00000	15.50000	-0.63193	15.130	-0.0037521	-1.8790	4.8709E-6
28.00000	31.00000	15.50000	-0.58535	15.130	-0.0036281	-1.7953	4.6534E-6
29.00000	31.00000	15.50000	-0.53929	15.130	-0.0034935	-1.7084	4.4224E-6
30.00000	31.00000	15.50000	-0.48503	15.130	-0.0033013	-1.6096	4.1712E-6
31.00000	31.00000	15.50000	-0.42487	15.130	-0.0030629	-1.5028	3.8949E-6
32.00000	31.00000	15.50000	-0.36641	15.130	-0.0027534	-1.3853	3.5913E-6
33.00000	31.00000	15.50000	-0.30591	15.130	-0.0023718	-1.2582	3.2640E-6
34.00000	31.00000	15.50000	-0.24302	15.130	-0.0019431	-1.1261	2.9240E-6
35.00000	31.00000	15.50000	-0.18509	15.130	-0.0015162	-0.99539	2.5878E-6
36.00000	31.00000	15.50000	-0.12871	15.130	-0.0011397	-0.87277	2.2720E-6
37.00000	31.00000	15.50000	-0.077229	15.130	-839.37E-6	-0.76271	1.9880E-6
38.00000	31.00000	15.50000	-0.031533	15.130	-615.13E-6	-0.66688	1.7401E-6
39.00000	31.00000	15.50000	0.008037	15.130	-453.40E-6	-0.58436	1.5247E-6
40.00000	31.00000	15.50000	0.041771	15.130	-338.37E-6	-0.51517	1.3464E-6
41.00000	31.00000	15.50000	0.069940	15.130	-256.23E-6	-0.45601	1.1924E-6
42.00000	31.00000	15.50000	0.093129	15.130	-197.05E-6	-0.40565	1.0612E-6
43.00000	31.00000	15.50000	0.11192	15.130	-153.82E-6	-0.36259	0.0
44.00000	31.00000	15.50000	0.12688	15.130	-121.77E-6	-0.32556	0.0
45.00000	31.00000	15.50000	0.13854	15.130	-97.647E-6	-0.29355	0.0
46.00000	31.00000	15.50000	0.14738	15.130	-79.220E-6	-0.26572	0.0
47.00000	31.00000	15.50000	0.15384	15.130	-64.953E-6	-0.24139	0.0
48.00000	31.00000	15.50000	0.15829	15.130	-53.765E-6	-0.22002	0.0
49.00000	31.00000	15.50000	0.16105	15.130	-44.890E-6	-0.20115	0.0
50.00000	31.00000	15.50000	0.16241	15.130	-37.774E-6	-0.18443	0.0
51.00000	31.00000	15.50000	0.16260	15.130	-32.012E-6	-0.16954	0.0
52.00000	31.00000	15.50000	0.16185	15.130	-27.305E-6	-0.15624	0.0
53.00000	31.00000	15.50000	0.16031	15.130	-23.429E-6	-0.14431	0.0
54.00000	31.00000	15.50000	0.15805	15.130	-20.212E-6	-0.13358	0.0
55.00000	31.00000	15.50000	0.15549	15.130	-17.525E-6	-0.12390	0.0
-25.00000	32.00000	15.50000	0.15950	15.130	-14.523E-6	-0.11729	0.0
-24.00000	32.00000	15.50000	0.16302	15.130	-16.520E-6	-0.12593	0.0
-23.00000	32.00000	15.50000	0.16621	15.130	-18.860E-6	-0.13544	0.0
-22.00000	32.00000	15.50000	0.16908	15.130	-21.614E-6	-0.14591	0.0
-21.00000	32.00000	15.50000	0.17120	15.130	-24.872E-6	-0.15748	0.0
-20.00000	32.00000	15.50000	0.17275	15.130	-28.748E-6	-0.17030	0.0
-19.00000	32.00000	15.50000	0.17348	15.130	-33.385E-6	-0.18452	0.0
-18.00000	32.00000	15.50000	0.17319	15.130	-38.967E-6	-0.20036	0.0
-17.00000	32.00000	15.50000	0.17168	15.130	-45.732E-6	-0.21806	0.0
-16.00000	32.00000	15.50000	0.16870	15.130	-53.989E-6	-0.23788	0.0
-15.00000	32.00000	15.50000	0.16396	15.130	-64.146E-6	-0.26016	0.0
-14.00000	32.00000	15.50000	0.15713	15.130	-76.744E-6	-0.28530	0.0
-13.00000	32.00000	15.50000	0.14785	15.130	-92.506E-6	-0.31376	0.0
-12.00000	32.00000	15.50000	0.13569	15.130	-112.41E-6	-0.34610	0.0
-11.00000	32.00000	15.50000	0.12016	15.130	-137.80E-6	-0.38300	1.0028E-6
-10.00000	32.00000	15.50000	0.10075	15.130	-170.51E-6	-0.42527	1.1131E-6
-9.00000	32.00000	15.50000	0.076891	15.130	-213.09E-6	-0.47385	1.2399E-6
-8.00000	32.00000	15.50000	0.047982	15.130	-269.03E-6	-0.52988	1.3861E-6
-7.00000	32.00000	15.50000					



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Dr. Ref.		
Made by	Date	Checked
MP		

Name	Location		Z [Level] [mm]	Z [mm]	Stresses			Vert Strain [-]
	X [m]	Y [m]			Calc Level [mOD]	Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	
20.00000	32.00000	15.50000	-0.71892	15.130	-0.0029931	-1.9531	5.0775E-6	
21.00000	32.00000	15.50000	-0.68175	15.130	-0.0028288	-1.8847	4.9004E-6	
22.00000	32.00000	15.50000	-0.64356	15.130	-0.0026749	-1.8152	4.7205E-6	
23.00000	32.00000	15.50000	-0.60508	15.130	-0.0025396	-1.7465	4.5423E-6	
24.00000	32.00000	15.50000	-0.56675	15.130	-0.0024242	-1.6793	4.3679E-6	
25.00000	32.00000	15.50000	-0.52863	15.130	-0.0023255	-1.6135	4.1968E-6	
26.00000	32.00000	15.50000	-0.49056	15.130	-0.0022375	-1.5483	4.0271E-6	
27.00000	32.00000	15.50000	-0.45218	15.130	-0.0021534	-1.4824	3.8556E-6	
28.00000	32.00000	15.50000	-0.41303	15.130	-0.0020660	-1.4146	3.6790E-6	
29.00000	32.00000	15.50000	-0.37268	15.130	-0.0019679	-1.3433	3.4935E-6	
30.00000	32.00000	15.50000	-0.33079	15.130	-0.0018516	-1.2674	3.2962E-6	
31.00000	32.00000	15.50000	-0.28723	15.130	-0.0017105	-1.1860	3.0850E-6	
32.00000	32.00000	15.50000	-0.24219	15.130	-0.0015410	-1.0993	2.8600E-6	
33.00000	32.00000	15.50000	-0.19624	15.130	-0.0013453	-1.0081	2.6240E-6	
34.00000	32.00000	15.50000	-0.15029	15.130	-0.0011341	-0.91503	2.3830E-6	
35.00000	32.00000	15.50000	-0.10351	15.130	-9.24.20E-6	-0.82311	2.1451E-6	
36.00000	32.00000	15.50000	-0.063098	15.130	-732.63E-6	-0.73563	1.9186E-6	
37.00000	32.00000	15.50000	-0.024032	15.130	-570.29E-6	-0.65503	1.7097E-6	
38.00000	32.00000	15.50000	0.011033	15.130	-440.16E-6	-0.58262	1.5217E-6	
39.00000	32.00000	15.50000	0.041788	15.130	-339.53E-6	-0.51865	1.3555E-6	
40.00000	32.00000	15.50000	0.068218	15.130	-263.21E-6	-0.46272	1.2145E-6	
41.00000	32.00000	15.50000	0.090507	15.130	-205.72E-6	-0.41403	1.0831E-6	
42.00000	32.00000	15.50000	0.10897	15.130	-162.37E-6	-0.37168	0.0	
43.00000	32.00000	15.50000	0.12397	15.130	-129.51E-6	-0.33482	0.0	
44.00000	32.00000	15.50000	0.13550	15.130	-104.37E-6	-0.30264	0.0	
45.00000	32.00000	15.50000	0.14451	15.130	-84.950E-6	-0.27445	0.0	
46.00000	32.00000	15.50000	0.15209	15.130	-69.795E-6	-0.24968	0.0	
47.00000	32.00000	15.50000	0.15703	15.130	-57.844E-6	-0.22781	0.0	
48.00000	32.00000	15.50000	0.16029	15.130	-48.326E-6	-0.20845	0.0	
49.00000	32.00000	15.50000	0.16211	15.130	-40.675E-6	-0.19124	0.0	
50.00000	32.00000	15.50000	0.16274	15.130	-34.468E-6	-0.17598	0.0	
51.00000	32.00000	15.50000	0.16237	15.130	-29.393E-6	-0.16214	0.0	
52.00000	32.00000	15.50000	0.16118	15.130	-25.210E-6	-0.14979	0.0	
53.00000	32.00000	15.50000	0.15932	15.130	-21.738E-6	-0.13868	0.0	
54.00000	32.00000	15.50000	0.15692	15.130	-18.837E-6	-0.12864	0.0	
55.00000	32.00000	15.50000	0.15408	15.130	-16.398E-6	-0.11935	0.0	
-25.00000	33.00000	15.50000	0.15756	15.130	-13.677E-6	-0.11334	0.0	
-24.00000	33.00000	15.50000	0.16116	15.130	-15.510E-6	-0.12149	0.0	
-23.00000	33.00000	15.50000	0.16447	15.130	-17.648E-6	-0.13043	0.0	
-22.00000	33.00000	15.50000	0.16741	15.130	-20.153E-6	-0.14024	0.0	
-21.00000	33.00000	15.50000	0.16988	15.130	-23.100E-6	-0.15105	0.0	
-20.00000	33.00000	15.50000	0.17177	15.130	-26.585E-6	-0.16298	0.0	
-19.00000	33.00000	15.50000	0.17293	15.130	-30.726E-6	-0.17617	0.0	
-18.00000	33.00000	15.50000	0.17323	15.130	-35.676E-6	-0.19079	0.0	
-17.00000	33.00000	15.50000	0.17247	15.130	-41.625E-6	-0.20703	0.0	
-16.00000	33.00000	15.50000	0.17044	15.130	-48.820E-6	-0.22514	0.0	
-15.00000	33.00000	15.50000	0.16692	15.130	-57.578E-6	-0.24536	0.0	
-14.00000	33.00000	15.50000	0.16163	15.130	-68.313E-6	-0.26802	0.0	
-13.00000	33.00000	15.50000	0.15427	15.130	-81.563E-6	-0.29348	0.0	
-12.00000	33.00000	15.50000	0.14451	15.130	-98.037E-6	-0.32216	0.0	
-11.00000	33.00000	15.50000	0.13198	15.130	-118.67E-6	-0.35455	0.0	
-10.00000	33.00000	15.50000	0.11628	15.130	-144.70E-6	-0.39123	1.0242E-6	
-9.00000	33.00000	15.50000	0.097003	15.130	-177.74E-6	-0.43285	1.1329E-6	
-8.00000	33.00000	15.50000	0.073740	15.130	-219.92E-6	-0.48011	1.2562E-6	
-7.00000	33.00000	15.50000	0.046105	15.130	-273.14E-6	-0.53301	1.3963E-6	
-6.00000	33.00000	15.50000	0.013786	15.130	-343.09E-6	-0.59469	1.5549E-6	
-5.00000	33.00000	15.50000	-0.023402	15.130	-431.18E-6	-0.66342	1.7339E-6	
-4.00000	33.00000	15.50000	-0.065446	15.130	-541.98E-6	-0.74041	1.9342E-6	
-3.00000	33.00000	15.50000	-0.11204	15.130	-678.24E-6	-0.82555	2.1554E-6	
-2.00000	33.00000	15.50000	-0.16264	15.130	-840.10E-6	-0.91796	2.3953E-6	
-1.00000	33.00000	15.50000	-0.21589	15.130	-1011.02E-6	-1.0158	2.6491E-6	
0.00000	33.00000	15.50000	-0.27069	15.130	-1201.21E-6	-1.1163	2.9097E-6	
1.00000	33.00000	15.50000	-0.32533	15.130	-1414.42E-6	-1.2159	3.1681E-6	
2.00000	33.00000	15.50000	-0.37821	15.130	-1649.56E-6	-1.3114	3.4156E-6	
3.00000	33.00000	15.50000	-0.42787	15.130	-1916.77E-6	-1.3938	3.6450E-6	
4.00000	33.00000	15.50000	-0.47323	15.130	-2216.04E-6	-1.4791	3.8512E-6	
5.00000	33.00000	15.50000	-0.51355	15.130	-2547.37E-6	-1.5486	4.0317E-6	
6.00000	33.00000	15.50000	-0.54842	15.130	-2910.76E-6	-1.6079	4.1859E-6	
7.00000	33.00000	15.50000	-0.57771	15.130	-3307.21E-6	-1.6572	4.3145E-6	
8.00000	33.00000	15.50000	-0.60145	15.130	-3737.72E-6	-1.6971	4.4184E-6	
9.00000	33.00000	15.50000	-0.61978	15.130	-4202.23E-6	-1.7281	4.4993E-6	
10.00000	33.00000	15.50000	-0.63288	15.130	-4701.74E-6	-1.7507	4.5582E-6	
11.00000	33.00000	15.50000	-0.64097	15.130	-5237.25E-6	-1.7653	4.5963E-6	
12.00000	33.00000	15.50000	-0.64422	15.130	-5808.76E-6	-1.7722	4.6143E-6	
13.00000	33.00000	15.50000	-0.64281	15.130	-6416.27E-6	-1.7715	4.6126E-6	
14.00000	33.00000	15.50000	-0.63691	15.130	-7060.78E-6	-1.7633	4.5915E-6	
15.00000	33.00000	15.50000	-0.62668	15.130	-7743.29E-6	-1.7478	4.5511E-6	
16.00000	33.00000	15.50000	-0.61234	15.130	-8464.80E-6	-1.7249	4.4918E-6	
17.00000	33.00000	15.50000	-0.59418	15.130	-9226.31E-6	-1.6949	4.4140E-6	
18.00000	33.00000	15.50000	-0.57258	15.130	-10027.82E-6	-1.6593	4.3193E-6	
19.00000	33.00000	15.50000	-0.54806	15.130	-10870.33E-6	-1.6160	4.2095E-6	
20.00000	33.00000	15.50000	-0.52124	15.130	-11754.84E-6	-1.5692	4.0880E-6	
21.00000	33.00000	15.50000	-0.49277	15.130	-12681.35E-6	-1.5193	3.9586E-6	
22.00000	33.00000	15.50000	-0.46327	15.130	-13650.86E-6	-1.4677	3.8246E-6	
23.00000	33.00000	15.50000	-0.43224	15.130	-14664.37E-6	-1.4155	3.6887E-6	
24.00000	33.00000	15.50000	-0.40028	15.130	-15722.88E-6	-1.3631	3.5523E-6	
25.00000	33.00000	15.50000	-0.37262	15.130	-16826.39E-6	-1.3107	3.4158E-6	
26.00000	33.00000	15.50000	-0.34200	15.130	-17974.90E-6	-1.2579	3.2784E-6	
27.00000	33.00000	15.50000	-0.31124	15.130	-19168.41E-6	-1.2042	3.1385E-6	
28.00000	33.00000	15.50000	-0.27984	15.130	-20406.92E-6	-1.1490	2.9945E-6	
29.00000	33.00000	15.50000	-0.24766	15.130	-21690.43E-6	-1.0914	2.8465E-6	
30.00000	33.00000	15.50000	-0.21456	15.130	-23018.94E-6	-1.0311	2.6875E-6	
31.00000	33.00000	15.50000	-0.18053	15.130	-24392.45E-6	-0.96768	2.5225E-6	
32.00000	33.00000	15.50000	-0.14576	15.130	-25810.96E-6	-0.90141	2.3502E-6	
33.00000	33.00000	15.50000	-0.11065	15.130	-27274.47E-6	-0.83305	2.1726E-6	
34.00000	33.00000	15.50000	-0.075818	15.130	-28782.98E-6	-0.76397	1.9931E-6	
35.00000	33.00000	15.50000	-0.041991	15.130	-30326.49E-6	-0.69586	1.8163E-6	
36.00000	33.00000	15.50000	-0.0099130	15.130	-31904.99E-6	-0.63048	1.6464E-6	
37.00000	33.00000	15.50000	0.019771	15.130	-402.68E-6	-0.56924	1.4872E-6	
38.00000	33.00000	15.50000	0.048597	15.130	-323.13E-6	-0.51304	1.3410E-6	
39.00000	33.00000	15.50000	0.070304	15.130	-258.21E-6	-0.46226	1.2088E-6	
40.00000	33.00000	15.50000	0.090817	15.130	-206.56E-6	-0.41685	1.0905E-6	
41.00000	33.00000	15.50000	0.10821	15.130	-165.89E-6	-0.37651	0.0	
42.00000	33.00000	15.50000	0.12266	15.130	-134.01E-6	-0.34078	0.0	
43.00000	33.00000	15.50000	0.13440	15.130	-109.01E-6	-0.30918	0.0	
44.00000	33.00000	15.50000	0.14369	15.130	-89.336E-6	-0.28121	0.0	
45.00000	33.00000	15.50000	0.15082	15.130	-73.760E-6	-0.25642	0.0	
46.00000	33.00000	15.50000	0.15606	15.130	-61.347E-6	-0.23440	0.0	
47.00000	33.00000	15.50000	0.15964	15.130	-51.382E-6	-0.21479	0.0	
48.00000	33.00000	15.50000	0.16182	15.130	-43.323E-6	-0.19728	0.0	
49.00000	33.00000	15.50000	0.16280	15.130	-36.758E-6	-0.18161	0.0	
50.00000	33.00000	15.50000	0.16276	15.130	-31.370E-6	-0.16754	0.0	
51.00000	33.00000	15.50000	0.16188	15.130	-26.919E-6</			



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
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MP		

Name	Location	Z [Level] [m]	Z [mm]	Calc Level [mOD]	Stresses		
					Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
-1.00000	34.00000	15.50000	-0.12774	15.130	-695.84E-6	-0.85498	2.2323E-6
0.00000	34.00000	15.50000	-0.16918	15.130	-810.19E-6	-0.92954	2.4262E-6
1.00000	34.00000	15.50000	-0.21051	15.130	-924.25E-6	-1.0034	2.6181E-6
2.00000	34.00000	15.50000	-0.25063	15.130	-0.0010322	-1.0744	2.8029E-6
3.00000	34.00000	15.50000	-0.28854	15.130	-0.0011295	-1.1409	2.9758E-6
4.00000	34.00000	15.50000	-0.32342	15.130	-0.0012935	-1.2033	3.1334E-6
5.00000	34.00000	15.50000	-0.35471	15.130	-0.0012834	-1.2554	3.2736E-6
6.00000	34.00000	15.50000	-0.38201	15.130	-0.0013398	-1.3021	3.3952E-6
7.00000	34.00000	15.50000	-0.40514	15.130	-0.0013839	-1.3416	3.4982E-6
8.00000	34.00000	15.50000	-0.42403	15.130	-0.0014173	-1.3740	3.5827E-6
9.00000	34.00000	15.50000	-0.43895	15.130	-0.0014500	-1.4023	3.6492E-6
10.00000	34.00000	15.50000	-0.44937	15.130	-0.0014573	-1.4185	3.6989E-6
11.00000	34.00000	15.50000	-0.45602	15.130	-0.0014659	-1.4311	3.7317E-6
12.00000	34.00000	15.50000	-0.45885	15.130	-0.0014674	-1.4375	3.7485E-6
13.00000	34.00000	15.50000	-0.45798	15.130	-0.0014622	-1.4378	3.7496E-6
14.00000	34.00000	15.50000	-0.45357	15.130	-0.0014500	-1.4323	3.7322E-6
15.00000	34.00000	15.50000	-0.44578	15.130	-0.0014305	-1.4210	3.7059E-6
16.00000	34.00000	15.50000	-0.43480	15.130	-0.0014034	-1.4041	3.6619E-6
17.00000	34.00000	15.50000	-0.42090	15.130	-0.0013686	-1.3818	3.6041E-6
18.00000	34.00000	15.50000	-0.40437	15.130	-0.0013266	-1.3547	3.5335E-6
19.00000	34.00000	15.50000	-0.38561	15.130	-0.0012786	-1.3232	3.4518E-6
20.00000	34.00000	15.50000	-0.36505	15.130	-0.0012263	-1.2883	3.3608E-6
21.00000	34.00000	15.50000	-0.34312	15.130	-0.0011724	-1.2506	3.2629E-6
22.00000	34.00000	15.50000	-0.32026	15.130	-0.0011191	-1.2111	3.1600E-6
23.00000	34.00000	15.50000	-0.29680	15.130	-0.0010681	-1.1704	3.0540E-6
24.00000	34.00000	15.50000	-0.27298	15.130	-0.0010191	-1.1298	2.9452E-6
25.00000	34.00000	15.50000	-0.24890	15.130	-974.89E-6	-1.0866	2.8356E-6
26.00000	34.00000	15.50000	-0.22460	15.130	-931.47E-6	-1.0436	2.7236E-6
27.00000	34.00000	15.50000	-0.20000	15.130	-888.38E-6	-0.99968	2.6090E-6
28.00000	34.00000	15.50000	-0.17501	15.130	-843.92E-6	-0.95446	2.4910E-6
29.00000	34.00000	15.50000	-0.14952	15.130	-796.41E-6	-0.90765	2.3689E-6
30.00000	34.00000	15.50000	-0.12351	15.130	-744.35E-6	-0.85906	2.2423E-6
31.00000	34.00000	15.50000	-0.097001	15.130	-686.82E-6	-0.80866	2.1109E-6
32.00000	34.00000	15.50000	-0.070174	15.130	-623.75E-6	-0.75670	1.9756E-6
33.00000	34.00000	15.50000	-0.043320	15.130	-556.23E-6	-0.70371	1.8376E-6
34.00000	34.00000	15.50000	-0.016845	15.130	-486.18E-6	-0.65053	1.6992E-6
35.00000	34.00000	15.50000	0.0087737	15.130	-417.61E-6	-0.59815	1.5628E-6
36.00000	34.00000	15.50000	0.033052	15.130	-352.60E-6	-0.54758	1.4312E-6
37.00000	34.00000	15.50000	0.055560	15.130	-293.87E-6	-0.49967	1.3064E-6
38.00000	34.00000	15.50000	0.077970	15.130	-242.76E-6	-0.45505	1.1901E-6
39.00000	34.00000	15.50000	0.094078	15.130	-199.57E-6	-0.41406	1.0833E-6
40.00000	34.00000	15.50000	0.10980	15.130	-163.82E-6	-0.37677	0.0
41.00000	34.00000	15.50000	0.12316	15.130	-134.64E-6	-0.34309	0.0
42.00000	34.00000	15.50000	0.13424	15.130	-111.00E-6	-0.31281	0.0
43.00000	34.00000	15.50000	0.14321	15.130	-91.905E-6	-0.28565	0.0
44.00000	34.00000	15.50000	0.15023	15.130	-76.484E-6	-0.26131	0.0
45.00000	34.00000	15.50000	0.15552	15.130	-63.999E-6	-0.23950	0.0
46.00000	34.00000	15.50000	0.15926	15.130	-53.853E-6	-0.21994	0.0
47.00000	34.00000	15.50000	0.16165	15.130	-45.567E-6	-0.20237	0.0
48.00000	34.00000	15.50000	0.16268	15.130	-38.765E-6	-0.18656	0.0
49.00000	34.00000	15.50000	0.16310	15.130	-33.151E-6	-0.17231	0.0
50.00000	34.00000	15.50000	0.16248	15.130	-28.491E-6	-0.15945	0.0
51.00000	34.00000	15.50000	0.16114	15.130	-24.601E-6	-0.14780	0.0
52.00000	34.00000	15.50000	0.15921	15.130	-21.337E-6	-0.13724	0.0
53.00000	34.00000	15.50000	0.15679	15.130	-18.584E-6	-0.12765	0.0
54.00000	34.00000	15.50000	0.15399	15.130	-16.251E-6	-0.11891	0.0
55.00000	34.00000	15.50000	0.15087	15.130	-14.264E-6	-0.11094	0.0
-25.00000	35.00000	15.50000	0.15337	15.130	-12.059E-6	-0.10550	0.0
-24.00000	35.00000	15.50000	0.15707	15.130	-13.590E-6	-0.11271	0.0
-23.00000	35.00000	15.50000	0.16056	15.130	-15.350E-6	-0.12057	0.0
-22.00000	35.00000	15.50000	0.16378	15.130	-17.409E-6	-0.12915	0.0
-21.00000	35.00000	15.50000	0.16666	15.130	-19.795E-6	-0.13853	0.0
-20.00000	35.00000	15.50000	0.16911	15.130	-22.582E-6	-0.14879	0.0
-19.00000	35.00000	15.50000	0.17104	15.130	-25.849E-6	-0.16006	0.0
-18.00000	35.00000	15.50000	0.17232	15.130	-29.696E-6	-0.17243	0.0
-17.00000	35.00000	15.50000	0.17284	15.130	-34.244E-6	-0.18604	0.0
-16.00000	35.00000	15.50000	0.17244	15.130	-39.643E-6	-0.20104	0.0
-15.00000	35.00000	15.50000	0.17098	15.130	-46.080E-6	-0.21761	0.0
-14.00000	35.00000	15.50000	0.16828	15.130	-53.786E-6	-0.23592	0.0
-13.00000	35.00000	15.50000	0.16414	15.130	-63.051E-6	-0.25618	0.0
-12.00000	35.00000	15.50000	0.15837	15.130	-74.229E-6	-0.27864	0.0
-11.00000	35.00000	15.50000	0.15074	15.130	-87.761E-6	-0.30353	0.0
-10.00000	35.00000	15.50000	0.14104	15.130	-104.18E-6	-0.33114	0.0
-9.00000	35.00000	15.50000	0.12907	15.130	-124.13E-6	-0.36174	0.0
-8.00000	35.00000	15.50000	0.11463	15.130	-148.36E-6	-0.39560	1.0356E-6
-7.00000	35.00000	15.50000	0.097566	15.130	-177.69E-6	-0.43296	1.1332E-6
-6.00000	35.00000	15.50000	0.077795	15.130	-212.99E-6	-0.47401	1.2404E-6
-5.00000	35.00000	15.50000	0.055313	15.130	-255.03E-6	-0.51882	1.3573E-6
-4.00000	35.00000	15.50000	0.030233	15.130	-304.36E-6	-0.56728	1.4836E-6
-3.00000	35.00000	15.50000	0.002105	15.130	-361.00E-6	-0.61907	1.6185E-6
-2.00000	35.00000	15.50000	-0.026545	15.130	-424.27E-6	-0.67356	1.7606E-6
-1.00000	35.00000	15.50000	-0.057270	15.130	-492.60E-6	-0.72987	1.9073E-6
0.00000	35.00000	15.50000	-0.088681	15.130	-563.59E-6	-0.78622	2.0556E-6
1.00000	35.00000	15.50000	-0.12002	15.130	-634.34E-6	-0.84313	2.2022E-6
2.00000	35.00000	15.50000	-0.15051	15.130	-701.92E-6	-0.89746	2.3437E-6
3.00000	35.00000	15.50000	-0.17946	15.130	-763.90E-6	-0.94865	2.4770E-6
4.00000	35.00000	15.50000	-0.20626	15.130	-818.68E-6	-0.99574	2.5997E-6
5.00000	35.00000	15.50000	-0.23046	15.130	-865.49E-6	-1.0381	2.7101E-6
6.00000	35.00000	15.50000	-0.25172	15.130	-904.28E-6	-1.0753	2.8070E-6
7.00000	35.00000	15.50000	-0.26996	15.130	-935.46E-6	-1.1071	2.8900E-6
8.00000	35.00000	15.50000	-0.28479	15.130	-959.66E-6	-1.1336	2.9591E-6
9.00000	35.00000	15.50000	-0.29650	15.130	-977.54E-6	-1.1547	3.0143E-6
10.00000	35.00000	15.50000	-0.30502	15.130	-989.67E-6	-1.1706	3.0559E-6
11.00000	35.00000	15.50000	-0.31044	15.130	-996.52E-6	-1.1815	3.0842E-6
12.00000	35.00000	15.50000	-0.31283	15.130	-998.32E-6	-1.1873	3.0996E-6
13.00000	35.00000	15.50000	-0.31233	15.130	-995.38E-6	-1.1884	3.1023E-6
14.00000	35.00000	15.50000	-0.30904	15.130	-987.55E-6	-1.1847	3.0928E-6
15.00000	35.00000	15.50000	-0.30311	15.130	-974.86E-6	-1.1764	3.0713E-6
16.00000	35.00000	15.50000	-0.29471	15.130	-957.31E-6	-1.1638	3.0384E-6
17.00000	35.00000	15.50000	-0.28406	15.130	-935.47E-6	-1.1470	2.9947E-6
18.00000	35.00000	15.50000	-0.27139	15.130	-908.43E-6	-1.1264	2.9410E-6
19.00000	35.00000	15.50000	-0.25700	15.130	-878.22E-6	-1.1024	2.8786E-6
20.00000	35.00000	15.50000	-0.24118	15.130	-845.43E-6	-1.0755	2.8087E-6
21.00000	35.00000	15.50000	-0.22426	15.130	-811.24E-6	-1.0469	2.7327E-6
22.00000	35.00000	15.50000	-0.20653	15.130	-776.80E-6	-1.0154	2.6520E-6
23.00000	35.00000	15.50000	-0.18822	15.130	-742.97E-6	-0.98306	2.5676E-6
24.00000	35.00000	15.50000	-0.16953	15.130	-710.15E-6	-0.94964	2.4805E-6
25.00000	35.00000	15.50000	-0.15056	15.130	-678.33E-6	-0.91530	2.3909E-6
26.00000	35.00000	15.50000	-0.13134	15.130	-647.09E-6	-0.88008	2.2989E-6
27.00000	35.00000	15.50000	-0.11189	15.130	-615.75E-6	-0.84390	2.2045E-6
28.00000	35.00000	15.50000	-0.092158	15.130	-583.50E-6	-0.80667	2.1073E-6
29.00000	35.00000	15.50000	-0.072131	15.130	-549.54E-6	-0.76828	2.0072E-6
30.00000	35.00000	15.50000	-0.051815	15.130	-513.21E-6	-0.72871	1.9039E-6
31.00000	35.						



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Dr. Ref.		
Made by	Date	Checked
MP		

Name	Location	Z [Level] [m]	Z [mm]	Calc Level [mOD]	Stresses		
					Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
-22.00000	36.00000	15.50000	0.16173	15.130	-16.137E-6	-0.12377	0.0
-21.00000	36.00000	15.50000	0.16477	15.130	-18.274E-6	-0.13248	0.0
-20.00000	36.00000	15.50000	0.16745	15.130	-20.756E-6	-0.14198	0.0
-19.00000	36.00000	15.50000	0.16968	15.130	-23.645E-6	-0.15236	0.0
-18.00000	36.00000	15.50000	0.17137	15.130	-27.022E-6	-0.16372	0.0
-17.00000	36.00000	15.50000	0.17242	15.130	-30.982E-6	-0.17635	0.0
-16.00000	36.00000	15.50000	0.17270	15.130	-35.638E-6	-0.18978	0.0
-15.00000	36.00000	15.50000	0.17209	15.130	-41.134E-6	-0.20473	0.0
-14.00000	36.00000	15.50000	0.17044	15.130	-47.642E-6	-0.22116	0.0
-13.00000	36.00000	15.50000	0.16761	15.130	-55.367E-6	-0.23922	0.0
-12.00000	36.00000	15.50000	0.16348	15.130	-64.560E-6	-0.25908	0.0
-11.00000	36.00000	15.50000	0.15776	15.130	-75.517E-6	-0.28091	0.0
-10.00000	36.00000	15.50000	0.15042	15.130	-88.587E-6	-0.30489	0.0
-9.00000	36.00000	15.50000	0.14127	15.130	-104.17E-6	-0.33120	0.0
-8.00000	36.00000	15.50000	0.13019	15.130	-122.70E-6	-0.36001	0.0
-7.00000	36.00000	15.50000	0.11706	15.130	-144.63E-6	-0.39142	1.0247E-6
-6.00000	36.00000	15.50000	0.10187	15.130	-170.41E-6	-0.42551	1.1138E-6
-5.00000	36.00000	15.50000	0.084632	15.130	-200.36E-6	-0.46224	1.2097E-6
-4.00000	36.00000	15.50000	0.065461	15.130	-234.65E-6	-0.50148	1.3121E-6
-3.00000	36.00000	15.50000	0.044568	15.130	-273.13E-6	-0.54291	1.4202E-6
-2.00000	36.00000	15.50000	0.022271	15.130	-315.27E-6	-0.58606	1.5327E-6
-1.00000	36.00000	15.50000	-0.0010175	15.130	-360.12E-6	-0.63028	1.6480E-6
0.00000	36.00000	15.50000	-0.024804	15.130	-406.33E-6	-0.67478	1.7641E-6
1.00000	36.00000	15.50000	-0.048550	15.130	-452.33E-6	-0.71870	1.8786E-6
2.00000	36.00000	15.50000	-0.071711	15.130	-496.54E-6	-0.76114	1.9892E-6
3.00000	36.00000	15.50000	-0.093776	15.130	-537.83E-6	-0.80130	2.0940E-6
4.00000	36.00000	15.50000	-0.11430	15.130	-574.46E-6	-0.83851	2.1910E-6
5.00000	36.00000	15.50000	-0.13293	15.130	-606.62E-6	-0.87224	2.2790E-6
6.00000	36.00000	15.50000	-0.14940	15.130	-633.83E-6	-0.90215	2.3571E-6
7.00000	36.00000	15.50000	-0.16354	15.130	-656.16E-6	-0.92801	2.4246E-6
8.00000	36.00000	15.50000	-0.17524	15.130	-673.83E-6	-0.94972	2.4812E-6
9.00000	36.00000	15.50000	-0.18447	15.130	-687.20E-6	-0.96726	2.5271E-6
10.00000	36.00000	15.50000	-0.19123	15.130	-696.50E-6	-0.98066	2.5621E-6
11.00000	36.00000	15.50000	-0.19558	15.130	-701.99E-6	-0.98999	2.5865E-6
12.00000	36.00000	15.50000	-0.19757	15.130	-703.87E-6	-0.99351	2.6004E-6
13.00000	36.00000	15.50000	-0.19728	15.130	-702.28E-6	-0.99672	2.6041E-6
14.00000	36.00000	15.50000	-0.19483	15.130	-697.24E-6	-0.99432	2.5979E-6
15.00000	36.00000	15.50000	-0.19032	15.130	-688.88E-6	-0.98826	2.5821E-6
16.00000	36.00000	15.50000	-0.18390	15.130	-677.25E-6	-0.97868	2.5572E-6
17.00000	36.00000	15.50000	-0.17574	15.130	-662.54E-6	-0.96579	2.5236E-6
18.00000	36.00000	15.50000	-0.16603	15.130	-645.05E-6	-0.94987	2.4812E-6
19.00000	36.00000	15.50000	-0.15498	15.130	-625.22E-6	-0.93121	2.4335E-6
20.00000	36.00000	15.50000	-0.14281	15.130	-603.64E-6	-0.91018	2.3786E-6
21.00000	36.00000	15.50000	-0.12975	15.130	-580.93E-6	-0.88714	2.3185E-6
22.00000	36.00000	15.50000	-0.11602	15.130	-557.69E-6	-0.86244	2.2541E-6
23.00000	36.00000	15.50000	-0.10179	15.130	-534.39E-6	-0.83638	2.1861E-6
24.00000	36.00000	15.50000	-0.087200	15.130	-511.28E-6	-0.80919	2.1151E-6
25.00000	36.00000	15.50000	-0.072345	15.130	-488.40E-6	-0.78102	2.0415E-6
26.00000	36.00000	15.50000	-0.057280	15.130	-465.59E-6	-0.75195	1.9656E-6
27.00000	36.00000	15.50000	-0.042028	15.130	-442.22E-6	-0.72199	1.8874E-6
28.00000	36.00000	15.50000	-0.026597	15.130	-418.83E-6	-0.69115	1.8068E-6
29.00000	36.00000	15.50000	-0.011000	15.130	-394.15E-6	-0.65943	1.7240E-6
30.00000	36.00000	15.50000	0.0047312	15.130	-368.18E-6	-0.62687	1.6390E-6
31.00000	36.00000	15.50000	0.0202529	15.130	-340.82E-6	-0.59358	1.5521E-6
32.00000	36.00000	15.50000	0.036200	15.130	-312.15E-6	-0.55975	1.4637E-6
33.00000	36.00000	15.50000	0.051828	15.130	-282.67E-6	-0.52567	1.3748E-6
34.00000	36.00000	15.50000	0.066977	15.130	-252.88E-6	-0.49170	1.2861E-6
35.00000	36.00000	15.50000	0.081507	15.130	-223.58E-6	-0.45823	1.1988E-6
36.00000	36.00000	15.50000	0.095198	15.130	-195.56E-6	-0.42569	1.1138E-6
37.00000	36.00000	15.50000	0.107875	15.130	-169.48E-6	-0.39443	1.0322E-6
38.00000	36.00000	15.50000	0.11930	15.130	-145.82E-6	-0.36476	0.0
39.00000	36.00000	15.50000	0.12943	15.130	-124.82E-6	-0.33689	0.0
40.00000	36.00000	15.50000	0.13818	15.130	-106.49E-6	-0.31092	0.0
41.00000	36.00000	15.50000	0.14554	15.130	-90.725E-6	-0.28688	0.0
42.00000	36.00000	15.50000	0.15154	15.130	-77.293E-6	-0.26477	0.0
43.00000	36.00000	15.50000	0.15623	15.130	-65.924E-6	-0.24448	0.0
44.00000	36.00000	15.50000	0.15971	15.130	-56.340E-6	-0.22593	0.0
45.00000	36.00000	15.50000	0.16207	15.130	-48.274E-6	-0.20900	0.0
46.00000	36.00000	15.50000	0.16343	15.130	-41.487E-6	-0.19354	0.0
47.00000	36.00000	15.50000	0.16389	15.130	-35.770E-6	-0.17945	0.0
48.00000	36.00000	15.50000	0.16356	15.130	-30.946E-6	-0.16658	0.0
49.00000	36.00000	15.50000	0.16256	15.130	-26.865E-6	-0.15484	0.0
50.00000	36.00000	15.50000	0.16097	15.130	-23.401E-6	-0.14412	0.0
51.00000	36.00000	15.50000	0.15888	15.130	-20.453E-6	-0.13431	0.0
52.00000	36.00000	15.50000	0.15639	15.130	-17.935E-6	-0.12533	0.0
53.00000	36.00000	15.50000	0.15356	15.130	-15.777E-6	-0.11709	0.0
54.00000	36.00000	15.50000	0.15045	15.130	-13.922E-6	-0.10954	0.0
55.00000	36.00000	15.50000	0.14714	15.130	-12.321E-6	-0.10259	0.0
-25.00000	37.00000	15.50000	0.14878	15.130	-10.562E-6	-0.097870	0.0
-24.00000	37.00000	15.50000	0.15252	15.130	-11.827E-6	-0.10421	0.0
-23.00000	37.00000	15.50000	0.15612	15.130	-13.274E-6	-0.11107	0.0
-22.00000	37.00000	15.50000	0.15953	15.130	-14.935E-6	-0.11852	0.0
-21.00000	37.00000	15.50000	0.16271	15.130	-16.846E-6	-0.12660	0.0
-20.00000	37.00000	15.50000	0.16557	15.130	-19.050E-6	-0.13539	0.0
-19.00000	37.00000	15.50000	0.16807	15.130	-21.590E-6	-0.14494	0.0
-18.00000	37.00000	15.50000	0.17011	15.130	-24.556E-6	-0.15535	0.0
-17.00000	37.00000	15.50000	0.17161	15.130	-27.996E-6	-0.16669	0.0
-16.00000	37.00000	15.50000	0.17247	15.130	-32.006E-6	-0.17906	0.0
-15.00000	37.00000	15.50000	0.17259	15.130	-36.693E-6	-0.19255	0.0
-14.00000	37.00000	15.50000	0.17185	15.130	-42.182E-6	-0.20729	0.0
-13.00000	37.00000	15.50000	0.17015	15.130	-48.622E-6	-0.22338	0.0
-12.00000	37.00000	15.50000	0.16734	15.130	-56.186E-6	-0.24094	0.0
-11.00000	37.00000	15.50000	0.16332	15.130	-65.073E-6	-0.26010	0.0
-10.00000	37.00000	15.50000	0.15797	15.130	-75.509E-6	-0.28097	0.0
-9.00000	37.00000	15.50000	0.15117	15.130	-87.739E-6	-0.30366	0.0
-8.00000	37.00000	15.50000	0.14285	15.130	-102.02E-6	-0.32826	0.0
-7.00000	37.00000	15.50000	0.13295	15.130	-118.60E-6	-0.35481	0.0
-6.00000	37.00000	15.50000	0.12146	15.130	-137.70E-6	-0.38332	1.0036E-6
-5.00000	37.00000	15.50000	0.10841	15.130	-159.44E-6	-0.41372	1.0830E-6
-4.00000	37.00000	15.50000	0.093909	15.130	-183.84E-6	-0.44585	1.1669E-6
-3.00000	37.00000	15.50000	0.078122	15.130	-210.74E-6	-0.47946	1.2547E-6
-2.00000	37.00000	15.50000	0.061294	15.130	-239.75E-6	-0.51418	1.3453E-6
-1.00000	37.00000	15.50000	0.043730	15.130	-270.27E-6	-0.54952	1.4376E-6
0.00000	37.00000	15.50000	0.025789	15.130	-301.51E-6	-0.58494	1.5300E-6
1.00000	37.00000	15.50000	0.0078600	15.130	-332.57E-6	-0.61982	1.6210E-6
2.00000	37.00000	15.50000	-0.0096649	15.130	-362.54E-6	-0.65356	1.7091E-6
3.00000	37.00000	15.50000	-0.026413	15.130	-390.60E-6	-0.68558	1.7927E-6
4.00000	37.00000	15.50000	-0.042054	15.130	-416.14E-6	-0.71538	1.8705E-6
5.00000	37.00000	15.50000	-0.056313	15.130	-438.74E-6	-0.74258	1.9414E-6
6.00000	37.00000	15.50000	-0.068979	15.130	-458.17E-6	-0.76685	2.0048E-6
7.00000	37.00000	15.50000	-0.079901	15.130	-474.39E-6	-0.78802	2.0601E-6
8.00000	37.00000	15.50000	-0.088986	15.130	-487.47E-6	-0.80594	2.1069E-6
9.00000	37.00000	15.50000	-0.096187	15.130	-497.51E-6	-0.82056	2.1451E-6
10.00000	37.00000	15.50000	-0.10150	15.130	-504.66E-6</		

Short Term Heave

Job No.	Sheet No.	Rev.
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Name	Location		Z [Level] [mm]	Z [mm]	Calc Level [mOD]	Stresses		Vert Strain [-]
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	
38.00000	37.00000	15.50000	0.13467	15.130	-116.00E-6	-0.32918	0.0	
39.00000	37.00000	15.50000	0.14200	15.130	-100.76E-6	-0.30578	0.0	
40.00000	37.00000	15.50000	0.14826	15.130	-87.228E-6	-0.28380	0.0	
41.00000	37.00000	15.50000	0.15344	15.130	-75.359E-6	-0.26327	0.0	
42.00000	37.00000	15.50000	0.15756	15.130	-65.052E-6	-0.24421	0.0	
43.00000	37.00000	15.50000	0.16085	15.130	-56.167E-6	-0.22638	0.0	
44.00000	37.00000	15.50000	0.16278	15.130	-48.545E-6	-0.21032	0.0	
45.00000	37.00000	15.50000	0.16402	15.130	-42.026E-6	-0.19535	0.0	
46.00000	37.00000	15.50000	0.16445	15.130	-36.457E-6	-0.18159	0.0	
47.00000	37.00000	15.50000	0.16415	15.130	-31.702E-6	-0.16896	0.0	
48.00000	37.00000	15.50000	0.16322	15.130	-27.639E-6	-0.15736	0.0	
49.00000	37.00000	15.50000	0.16173	15.130	-24.163E-6	-0.14670	0.0	
50.00000	37.00000	15.50000	0.15976	15.130	-21.182E-6	-0.13692	0.0	
51.00000	37.00000	15.50000	0.15739	15.130	-18.621E-6	-0.12792	0.0	
52.00000	37.00000	15.50000	0.15467	15.130	-16.415E-6	-0.11965	0.0	
53.00000	37.00000	15.50000	0.15168	15.130	-14.510E-6	-0.11204	0.0	
54.00000	37.00000	15.50000	0.14847	15.130	-12.861E-6	-0.10502	0.0	
55.00000	37.00000	15.50000	0.14509	15.130	-11.428E-6	-0.098555	0.0	
-25.00000	38.00000	15.50000	0.14635	15.130	-9.8643E-6	-0.094162	0.0	
-24.00000	38.00000	15.50000	0.15009	15.130	-11.011E-6	-0.10009	0.0	
-23.00000	38.00000	15.50000	0.028372	15.130	-12.333E-6	-0.10650	0.0	
-22.00000	38.00000	15.50000	0.15719	15.130	-13.806E-6	-0.11342	0.0	
-21.00000	38.00000	15.50000	0.16047	15.130	-15.510E-6	-0.12091	0.0	
-20.00000	38.00000	15.50000	0.16349	15.130	-17.464E-6	-0.12902	0.0	
-19.00000	38.00000	15.50000	0.16620	15.130	-19.709E-6	-0.13781	0.0	
-18.00000	38.00000	15.50000	0.16844	15.130	-22.295E-6	-0.14734	0.0	
-17.00000	38.00000	15.50000	0.17042	15.130	-25.279E-6	-0.15768	0.0	
-16.00000	38.00000	15.50000	0.17178	15.130	-28.728E-6	-0.16889	0.0	
-15.00000	38.00000	15.50000	0.17252	15.130	-32.721E-6	-0.18107	0.0	
-14.00000	38.00000	15.50000	0.17256	15.130	-37.351E-6	-0.19428	0.0	
-13.00000	38.00000	15.50000	0.17180	15.130	-42.722E-6	-0.20862	0.0	
-12.00000	38.00000	15.50000	0.17016	15.130	-48.954E-6	-0.22417	0.0	
-11.00000	38.00000	15.50000	0.16752	15.130	-56.181E-6	-0.24101	0.0	
-10.00000	38.00000	15.50000	0.16382	15.130	-64.547E-6	-0.25921	0.0	
-9.00000	38.00000	15.50000	0.15898	15.130	-74.204E-6	-0.27883	0.0	
-8.00000	38.00000	15.50000	0.15293	15.130	-85.301E-6	-0.29992	0.0	
-7.00000	38.00000	15.50000	0.14565	15.130	-97.971E-6	-0.32249	0.0	
-6.00000	38.00000	15.50000	0.13714	15.130	-112.31E-6	-0.34650	0.0	
-5.00000	38.00000	15.50000	0.12743	15.130	-128.37E-6	-0.37187	0.0	
-4.00000	38.00000	15.50000	0.11662	15.130	-146.11E-6	-0.39846	1.0432E-6	
-3.00000	38.00000	15.50000	0.10483	15.130	-165.38E-6	-0.42605	1.1153E-6	
-2.00000	38.00000	15.50000	0.092259	15.130	-185.90E-6	-0.45435	1.1892E-6	
-1.00000	38.00000	15.50000	0.079127	15.130	-207.31E-6	-0.48301	1.2641E-6	
0.00000	38.00000	15.50000	0.065698	15.130	-229.09E-6	-0.51163	1.3388E-6	
1.00000	38.00000	15.50000	0.052055	15.130	-250.72E-6	-0.53976	1.4123E-6	
2.00000	38.00000	15.50000	0.039086	15.130	-271.65E-6	-0.56697	1.4833E-6	
3.00000	38.00000	15.50000	0.026463	15.130	-291.37E-6	-0.59285	1.5509E-6	
4.00000	38.00000	15.50000	0.014635	15.130	-309.48E-6	-0.61702	1.6140E-6	
5.00000	38.00000	15.50000	0.0038116	15.130	-325.68E-6	-0.63917	1.6719E-6	
6.00000	38.00000	15.50000	-0.005398	15.130	-339.80E-6	-0.65906	1.7239E-6	
7.00000	38.00000	15.50000	-0.014195	15.130	-351.74E-6	-0.67650	1.7695E-6	
8.00000	38.00000	15.50000	-0.021170	15.130	-361.50E-6	-0.69139	1.8084E-6	
9.00000	38.00000	15.50000	-0.026718	15.130	-369.12E-6	-0.70363	1.8404E-6	
10.00000	38.00000	15.50000	-0.030824	15.130	-374.66E-6	-0.71321	1.8654E-6	
11.00000	38.00000	15.50000	-0.033495	15.130	-378.19E-6	-0.72011	1.8835E-6	
12.00000	38.00000	15.50000	-0.034761	15.130	-379.78E-6	-0.72437	1.8946E-6	
13.00000	38.00000	15.50000	-0.034669	15.130	-379.52E-6	-0.72603	1.8990E-6	
14.00000	38.00000	15.50000	-0.033281	15.130	-377.46E-6	-0.72515	1.8967E-6	
15.00000	38.00000	15.50000	-0.030673	15.130	-373.68E-6	-0.72181	1.8880E-6	
16.00000	38.00000	15.50000	-0.026905	15.130	-368.20E-6	-0.71614	1.8732E-6	
17.00000	38.00000	15.50000	-0.022170	15.130	-361.37E-6	-0.70826	1.8526E-6	
18.00000	38.00000	15.50000	-0.016490	15.130	-353.12E-6	-0.69832	1.8267E-6	
19.00000	38.00000	15.50000	-0.010017	15.130	-343.70E-6	-0.68651	1.7958E-6	
20.00000	38.00000	15.50000	-0.0028768	15.130	-333.32E-6	-0.67299	1.7605E-6	
21.00000	38.00000	15.50000	0.0048079	15.130	-322.22E-6	-0.65797	1.7213E-6	
22.00000	38.00000	15.50000	0.012921	15.130	-310.58E-6	-0.64163	1.6786E-6	
23.00000	38.00000	15.50000	0.021361	15.130	-298.57E-6	-0.62413	1.6329E-6	
24.00000	38.00000	15.50000	0.030042	15.130	-286.30E-6	-0.60562	1.5845E-6	
25.00000	38.00000	15.50000	0.038895	15.130	-273.83E-6	-0.58623	1.5338E-6	
26.00000	38.00000	15.50000	0.047870	15.130	-261.14E-6	-0.56604	1.4811E-6	
27.00000	38.00000	15.50000	0.056928	15.130	-248.20E-6	-0.54514	1.4264E-6	
28.00000	38.00000	15.50000	0.066035	15.130	-234.92E-6	-0.52359	1.3701E-6	
29.00000	38.00000	15.50000	0.075157	15.130	-221.26E-6	-0.50146	1.3122E-6	
30.00000	38.00000	15.50000	0.084253	15.130	-207.18E-6	-0.47885	1.2531E-6	
31.00000	38.00000	15.50000	0.093267	15.130	-192.70E-6	-0.45586	1.1930E-6	
32.00000	38.00000	15.50000	0.10213	15.130	-177.91E-6	-0.43262	1.1323E-6	
33.00000	38.00000	15.50000	0.11075	15.130	-162.94E-6	-0.40932	1.0714E-6	
34.00000	38.00000	15.50000	0.11903	15.130	-148.02E-6	-0.38612	1.0108E-6	
35.00000	38.00000	15.50000	0.12687	15.130	-133.40E-6	-0.36324	0.0	
36.00000	38.00000	15.50000	0.13415	15.130	-119.31E-6	-0.34088	0.0	
37.00000	38.00000	15.50000	0.14078	15.130	-106.00E-6	-0.31921	0.0	
38.00000	38.00000	15.50000	0.14667	15.130	-93.634E-6	-0.29840	0.0	
39.00000	38.00000	15.50000	0.15177	15.130	-82.331E-6	-0.27858	0.0	
40.00000	38.00000	15.50000	0.15604	15.130	-72.146E-6	-0.25992	0.0	
41.00000	38.00000	15.50000	0.15946	15.130	-63.079E-6	-0.24217	0.0	
42.00000	38.00000	15.50000	0.16205	15.130	-55.072E-6	-0.22566	0.0	
43.00000	38.00000	15.50000	0.16383	15.130	-48.065E-6	-0.21026	0.0	
44.00000	38.00000	15.50000	0.16485	15.130	-41.962E-6	-0.19596	0.0	
45.00000	38.00000	15.50000	0.16515	15.130	-36.667E-6	-0.18271	0.0	
46.00000	38.00000	15.50000	0.16481	15.130	-32.082E-6	-0.17044	0.0	
47.00000	38.00000	15.50000	0.16389	15.130	-28.120E-6	-0.15910	0.0	
48.00000	38.00000	15.50000	0.16245	15.130	-24.694E-6	-0.14863	0.0	
49.00000	38.00000	15.50000	0.16055	15.130	-21.732E-6	-0.13897	0.0	
50.00000	38.00000	15.50000	0.15827	15.130	-19.167E-6	-0.13004	0.0	
51.00000	38.00000	15.50000	0.15566	15.130	-16.944E-6	-0.12180	0.0	
52.00000	38.00000	15.50000	0.15277	15.130	-15.014E-6	-0.11419	0.0	
53.00000	38.00000	15.50000	0.14965	15.130	-13.334E-6	-0.10715	0.0	
54.00000	38.00000	15.50000	0.14636	15.130	-11.869E-6	-0.10064	0.0	
55.00000	38.00000	15.50000	0.14293	15.130	-10.590E-6	-0.094622	0.0	
-15.00000	39.00000	15.50000	0.14384	15.130	-9.2023E-6	-0.08904	0.0	
-24.00000	39.00000	15.50000	0.14757	15.130	-10.239E-6	-0.096084	0.0	
-23.00000	39.00000	15.50000	0.15120	15.130	-11.414E-6	-0.10205	0.0	
-22.00000	39.00000	15.50000	0.15472	15.130	-12.748E-6	-0.10849	0.0	
-21.00000	39.00000	15.50000	0.15807	15.130	-14.266E-6	-0.11542	0.0	
-20.00000	39.00000	15.50000	0.16122	15.130	-15.996E-6	-0.12290	0.0	
-19.00000	39.00000	15.50000	0.16411	15.130	-17.971E-6	-0.13098	0.0	
-18.00000	39.00000	15.50000	0.16669	15.130	-20.229E-6	-0.13970	0.0	
-17.00000	39.00000	15.50000	0.16889	15.130	-22.815E-6	-0.14911	0.0	
-16.00000	39.00000	15.50000	0.17066	15.130	-25.780E-6	-0.15928	0.0	
-15.00000	39.00000	15.50000	0.17193	15.130	-29.182E-6	-0.17026	0.0	
-14.00000	39.00000	15.50000	0.17261	15.130	-33.088E-6	-0.18212	0.0	
-13.00000	39.00000	15.50000	0.17265	15.130	-37.573E-6	-0.19491	0.0	
-12.00000	39.00000	15.50000	0.17197	15.130	-42.719E-6	-0.20868	0.0	
-11.00000	39.00000	15.50000	0.17049	15.130	-48.615E-6	-0.22351	0.0	
-10.00000	39.00000	15.50000	0.1681					



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
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Made by	Date	Checked
MP		

Name	Location	Z [Level] [m]	Z [mm]	Calc Level [mOD]	Stresses		
					Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
17.00000	39.00000	15.50000	0.031241	15.130	-275.64E-6	-0.61482	1.6088E-6
18.00000	39.00000	15.50000	0.035556	15.130	-269.77E-6	-0.60683	1.5879E-6
19.00000	39.00000	15.50000	0.040469	15.130	-263.03E-6	-0.59725	1.5629E-6
20.00000	39.00000	15.50000	0.045887	15.130	-255.55E-6	-0.58622	1.5341E-6
21.00000	39.00000	15.50000	0.051718	15.130	-247.48E-6	-0.57389	1.5019E-6
22.00000	39.00000	15.50000	0.057873	15.130	-238.98E-6	-0.56039	1.4666E-6
23.00000	39.00000	15.50000	0.064274	15.130	-230.04E-6	-0.54586	1.4286E-6
24.00000	39.00000	15.50000	0.070854	15.130	-220.86E-6	-0.53042	1.3882E-6
25.00000	39.00000	15.50000	0.077556	15.130	-211.44E-6	-0.51417	1.3457E-6
26.00000	39.00000	15.50000	0.084335	15.130	-201.81E-6	-0.49720	1.3014E-6
27.00000	39.00000	15.50000	0.091184	15.130	-191.98E-6	-0.47959	1.2553E-6
28.00000	39.00000	15.50000	0.097978	15.130	-181.83E-6	-0.46142	1.2078E-6
29.00000	39.00000	15.50000	0.10477	15.130	-171.46E-6	-0.44276	1.1590E-6
30.00000	39.00000	15.50000	0.11151	15.130	-160.83E-6	-0.42371	1.1092E-6
31.00000	39.00000	15.50000	0.11812	15.130	-149.98E-6	-0.40435	1.0586E-6
32.00000	39.00000	15.50000	0.12457	15.130	-138.96E-6	-0.38481	1.0073E-6
33.00000	39.00000	15.50000	0.13079	15.130	-127.88E-6	-0.36523	0.0
34.00000	39.00000	15.50000	0.13670	15.130	-116.88E-6	-0.34573	0.0
35.00000	39.00000	15.50000	0.14223	15.130	-106.10E-6	-0.32648	0.0
36.00000	39.00000	15.50000	0.14730	15.130	-95.69E-6	-0.30761	0.0
37.00000	39.00000	15.50000	0.15185	15.130	-85.65E-6	-0.28928	0.0
38.00000	39.00000	15.50000	0.15581	15.130	-76.548E-6	-0.27159	0.0
39.00000	39.00000	15.50000	0.15914	15.130	-68.001E-6	-0.25464	0.0
40.00000	39.00000	15.50000	0.16182	15.130	-60.207E-6	-0.23852	0.0
41.00000	39.00000	15.50000	0.16383	15.130	-53.177E-6	-0.22325	0.0
42.00000	39.00000	15.50000	0.16518	15.130	-46.893E-6	-0.20887	0.0
43.00000	39.00000	15.50000	0.16590	15.130	-41.317E-6	-0.19538	0.0
44.00000	39.00000	15.50000	0.16601	15.130	-36.396E-6	-0.18277	0.0
45.00000	39.00000	15.50000	0.16556	15.130	-32.073E-6	-0.17100	0.0
46.00000	39.00000	15.50000	0.16458	15.130	-28.285E-6	-0.16005	0.0
47.00000	39.00000	15.50000	0.16314	15.130	-24.972E-6	-0.14986	0.0
48.00000	39.00000	15.50000	0.16128	15.130	-22.079E-6	-0.14041	0.0
49.00000	39.00000	15.50000	0.15906	15.130	-19.552E-6	-0.13163	0.0
50.00000	39.00000	15.50000	0.15652	15.130	-17.344E-6	-0.12349	0.0
51.00000	39.00000	15.50000	0.15371	15.130	-15.414E-6	-0.11594	0.0
52.00000	39.00000	15.50000	0.15068	15.130	-13.728E-6	-0.10894	0.0
53.00000	39.00000	15.50000	0.14747	15.130	-12.245E-6	-0.10244	0.0
54.00000	39.00000	15.50000	0.14412	15.130	-10.946E-6	-0.096406	0.0
55.00000	39.00000	15.50000	0.14066	15.130	-9.8044E-6	-0.090803	0.0
-25.00000	40.00000	15.50000	0.14126	15.130	-8.5762E-6	-0.085701	0.0
-24.00000	40.00000	15.50000	0.14496	15.130	-9.5126E-6	-0.092188	0.0
-23.00000	40.00000	15.50000	0.14859	15.130	-10.569E-6	-0.097747	0.0
-22.00000	40.00000	15.50000	0.15213	15.130	-11.762E-6	-0.10372	0.0
-21.00000	40.00000	15.50000	0.15553	15.130	-13.112E-6	-0.11013	0.0
-20.00000	40.00000	15.50000	0.15877	15.130	-14.642E-6	-0.11703	0.0
-19.00000	40.00000	15.50000	0.16180	15.130	-16.377E-6	-0.12445	0.0
-18.00000	40.00000	15.50000	0.16457	15.130	-18.348E-6	-0.13242	0.0
-17.00000	40.00000	15.50000	0.16704	15.130	-20.588E-6	-0.14100	0.0
-16.00000	40.00000	15.50000	0.16914	15.130	-23.137E-6	-0.15022	0.0
-15.00000	40.00000	15.50000	0.17098	15.130	-26.037E-6	-0.16012	0.0
-14.00000	40.00000	15.50000	0.17206	15.130	-29.336E-6	-0.17076	0.0
-13.00000	40.00000	15.50000	0.17276	15.130	-33.088E-6	-0.18218	0.0
-12.00000	40.00000	15.50000	0.17287	15.130	-37.347E-6	-0.19440	0.0
-11.00000	40.00000	15.50000	0.17234	15.130	-42.175E-6	-0.20748	0.0
-10.00000	40.00000	15.50000	0.17112	15.130	-47.626E-6	-0.22142	0.0
-9.00000	40.00000	15.50000	0.16918	15.130	-53.764E-6	-0.23624	0.0
-8.00000	40.00000	15.50000	0.16649	15.130	-60.630E-6	-0.25194	0.0
-7.00000	40.00000	15.50000	0.16303	15.130	-68.261E-6	-0.26849	0.0
-6.00000	40.00000	15.50000	0.15882	15.130	-76.670E-6	-0.28585	0.0
-5.00000	40.00000	15.50000	0.15389	15.130	-85.841E-6	-0.30392	0.0
-4.00000	40.00000	15.50000	0.14829	15.130	-95.725E-6	-0.32261	0.0
-3.00000	40.00000	15.50000	0.14211	15.130	-106.23E-6	-0.34177	0.0
-2.00000	40.00000	15.50000	0.13546	15.130	-117.22E-6	-0.36121	0.0
-1.00000	40.00000	15.50000	0.12845	15.130	-128.52E-6	-0.38073	0.0
0.00000	40.00000	15.50000	0.12124	15.130	-139.93E-6	-0.40010	1.0476E-6
1.00000	40.00000	15.50000	0.11397	15.130	-151.23E-6	-0.41908	1.0972E-6
2.00000	40.00000	15.50000	0.10681	15.130	-162.18E-6	-0.43743	1.1452E-6
3.00000	40.00000	15.50000	0.099905	15.130	-172.55E-6	-0.45490	1.1908E-6
4.00000	40.00000	15.50000	0.093392	15.130	-182.25E-6	-0.47129	1.2337E-6
5.00000	40.00000	15.50000	0.087395	15.130	-191.04E-6	-0.48640	1.2732E-6
6.00000	40.00000	15.50000	0.082016	15.130	-198.83E-6	-0.50007	1.3090E-6
7.00000	40.00000	15.50000	0.077336	15.130	-205.55E-6	-0.51218	1.3406E-6
8.00000	40.00000	15.50000	0.073413	15.130	-211.17E-6	-0.52262	1.3679E-6
9.00000	40.00000	15.50000	0.070283	15.130	-215.67E-6	-0.53133	1.3907E-6
10.00000	40.00000	15.50000	0.067967	15.130	-219.05E-6	-0.53826	1.4088E-6
11.00000	40.00000	15.50000	0.066465	15.130	-221.33E-6	-0.54340	1.4223E-6
12.00000	40.00000	15.50000	0.065766	15.130	-222.54E-6	-0.54674	1.4310E-6
13.00000	40.00000	15.50000	0.065844	15.130	-222.70E-6	-0.54830	1.4351E-6
14.00000	40.00000	15.50000	0.066663	15.130	-221.87E-6	-0.54812	1.4347E-6
15.00000	40.00000	15.50000	0.068179	15.130	-220.08E-6	-0.54625	1.4298E-6
16.00000	40.00000	15.50000	0.070336	15.130	-217.41E-6	-0.54276	1.4207E-6
17.00000	40.00000	15.50000	0.073073	15.130	-213.90E-6	-0.53772	1.4075E-6
18.00000	40.00000	15.50000	0.076325	15.130	-209.64E-6	-0.53123	1.3905E-6
19.00000	40.00000	15.50000	0.080021	15.130	-204.72E-6	-0.52339	1.3700E-6
20.00000	40.00000	15.50000	0.084099	15.130	-199.22E-6	-0.51420	1.3462E-6
21.00000	40.00000	15.50000	0.088459	15.130	-193.24E-6	-0.50409	1.3196E-6
22.00000	40.00000	15.50000	0.093064	15.130	-186.86E-6	-0.49285	1.2902E-6
23.00000	40.00000	15.50000	0.097844	15.130	-180.16E-6	-0.48070	1.2584E-6
24.00000	40.00000	15.50000	0.10275	15.130	-173.19E-6	-0.46773	1.2245E-6
25.00000	40.00000	15.50000	0.10772	15.130	-165.90E-6	-0.45403	1.1887E-6
26.00000	40.00000	15.50000	0.11274	15.130	-158.59E-6	-0.43968	1.1511E-6
27.00000	40.00000	15.50000	0.11775	15.130	-150.99E-6	-0.42477	1.1121E-6
28.00000	40.00000	15.50000	0.12274	15.130	-143.20E-6	-0.40937	1.0718E-6
29.00000	40.00000	15.50000	0.12768	15.130	-135.23E-6	-0.39354	1.0304E-6
30.00000	40.00000	15.50000	0.13252	15.130	-127.12E-6	-0.37719	0.9879E-6
31.00000	40.00000	15.50000	0.13723	15.130	-118.83E-6	-0.36098	0.0
32.00000	40.00000	15.50000	0.14177	15.130	-110.48E-6	-0.34442	0.0
33.00000	40.00000	15.50000	0.14609	15.130	-102.11E-6	-0.32782	0.0
34.00000	40.00000	15.50000	0.15013	15.130	-93.819E-6	-0.31128	0.0
35.00000	40.00000	15.50000	0.15389	15.130	-85.698E-6	-0.29493	0.0
36.00000	40.00000	15.50000	0.15718	15.130	-77.845E-6	-0.27887	0.0
37.00000	40.00000	15.50000	0.16009	15.130	-70.349E-6	-0.26322	0.0
38.00000	40.00000	15.50000	0.16253	15.130	-63.286E-6	-0.24807	0.0
39.00000	40.00000	15.50000	0.16446	15.130	-56.710E-6	-0.23348	0.0
40.00000	40.00000	15.50000	0.16598	15.130	-50.657E-6	-0.21953	0.0
41.00000	40.00000	15.50000	0.16676	15.130	-45.139E-6	-0.20625	0.0
42.00000	40.00000	15.50000	0.16713	15.130	-40.152E-6	-0.19367	0.0
43.00000	40.00000	15.50000	0.16699	15.130	-35.675E-6	-0.18181	0.0
44.00000	40.00000	15.50000	0.16637	15.130	-31.679E-6	-0.17064	0.0
45.00000	40.00000	15.50000	0.16530	15.130	-28.129E-6	-0.16017	0.0
46.00000	40.00000	15.50000	0.16382	15.130	-24.986E-6	-0.15037	0.0
47.00000	40.00000	15.50000	0.16195	15.130	-22.208E-6	-0.14121	0.0
48.00000	40.00000	15.50000	0.15976	15.130	-19.759E-6	-0.13266	0.0
49.00000	40.00000	15.50000	0.15727	15.130	-17.600E-6	-0.12469	0.0
50.00000	40.00000	15.50000	0.15				



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Dr. Ref.		
Made by	Date	Checked
MP		

Name	Location	Z [Level] [m]	Z [mm]	Calc Level [mOD]	Stresses		
					Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
-4.00000	41.00000	15.50000	0.15869	15.130	-78.707E-6	-0.29204	0.0
-3.00000	41.00000	15.50000	0.15445	15.130	-86.662E-6	-0.30820	0.0
-2.00000	41.00000	15.50000	0.14982	15.130	-94.929E-6	-0.32454	0.0
-1.00000	41.00000	15.50000	0.14491	15.130	-103.38E-6	-0.34088	0.0
0.00000	41.00000	15.50000	0.13981	15.130	-111.89E-6	-0.35706	0.0
1.00000	41.00000	15.50000	0.13465	15.130	-120.39E-6	-0.37328	0.0
2.00000	41.00000	15.50000	0.12953	15.130	-128.46E-6	-0.38817	1.0164E-6
3.00000	41.00000	15.50000	0.12458	15.130	-136.22E-6	-0.40273	1.0545E-6
4.00000	41.00000	15.50000	0.11990	15.130	-143.47E-6	-0.41640	1.0903E-6
5.00000	41.00000	15.50000	0.11557	15.130	-150.08E-6	-0.42904	1.1233E-6
6.00000	41.00000	15.50000	0.11168	15.130	-155.99E-6	-0.44050	1.1533E-6
7.00000	41.00000	15.50000	0.10829	15.130	-161.12E-6	-0.45068	1.1799E-6
8.00000	41.00000	15.50000	0.10545	15.130	-165.45E-6	-0.45950	1.2030E-6
9.00000	41.00000	15.50000	0.10319	15.130	-168.95E-6	-0.46689	1.2224E-6
10.00000	41.00000	15.50000	0.10152	15.130	-171.62E-6	-0.47282	1.2379E-6
11.00000	41.00000	15.50000	0.10045	15.130	-173.46E-6	-0.47726	1.2495E-6
12.00000	41.00000	15.50000	0.099980	15.130	-174.49E-6	-0.48021	1.2572E-6
13.00000	41.00000	15.50000	0.10008	15.130	-174.73E-6	-0.48167	1.2611E-6
14.00000	41.00000	15.50000	0.10073	15.130	-174.21E-6	-0.48168	1.2611E-6
15.00000	41.00000	15.50000	0.10188	15.130	-172.96E-6	-0.48027	1.2574E-6
16.00000	41.00000	15.50000	0.10351	15.130	-171.00E-6	-0.47749	1.2501E-6
17.00000	41.00000	15.50000	0.10556	15.130	-168.48E-6	-0.47341	1.2395E-6
18.00000	41.00000	15.50000	0.10799	15.130	-165.34E-6	-0.46809	1.2256E-6
19.00000	41.00000	15.50000	0.11073	15.130	-161.68E-6	-0.46161	1.2086E-6
20.00000	41.00000	15.50000	0.11374	15.130	-157.57E-6	-0.45407	1.1889E-6
21.00000	41.00000	15.50000	0.11696	15.130	-153.00E-6	-0.44534	1.1663E-6
22.00000	41.00000	15.50000	0.12034	15.130	-148.22E-6	-0.43612	1.1419E-6
23.00000	41.00000	15.50000	0.12383	15.130	-143.10E-6	-0.42589	1.1152E-6
24.00000	41.00000	15.50000	0.12739	15.130	-137.74E-6	-0.41493	1.0865E-6
25.00000	41.00000	15.50000	0.13099	15.130	-132.18E-6	-0.40332	1.0561E-6
26.00000	41.00000	15.50000	0.13459	15.130	-126.43E-6	-0.39113	1.0243E-6
27.00000	41.00000	15.50000	0.13817	15.130	-120.53E-6	-0.37844	0.0
28.00000	41.00000	15.50000	0.14169	15.130	-114.47E-6	-0.36532	0.0
29.00000	41.00000	15.50000	0.14513	15.130	-108.28E-6	-0.35183	0.0
30.00000	41.00000	15.50000	0.14846	15.130	-101.97E-6	-0.33804	0.0
31.00000	41.00000	15.50000	0.15166	15.130	-95.58E-6	-0.32404	0.0
32.00000	41.00000	15.50000	0.15469	15.130	-89.153E-6	-0.30991	0.0
33.00000	41.00000	15.50000	0.15751	15.130	-82.727E-6	-0.29574	0.0
34.00000	41.00000	15.50000	0.16009	15.130	-76.368E-6	-0.28161	0.0
35.00000	41.00000	15.50000	0.16238	15.130	-70.137E-6	-0.26762	0.0
36.00000	41.00000	15.50000	0.16436	15.130	-64.101E-6	-0.25385	0.0
37.00000	41.00000	15.50000	0.16598	15.130	-58.319E-6	-0.24039	0.0
38.00000	41.00000	15.50000	0.16721	15.130	-52.841E-6	-0.22731	0.0
39.00000	41.00000	15.50000	0.16805	15.130	-47.707E-6	-0.21468	0.0
40.00000	41.00000	15.50000	0.16846	15.130	-42.942E-6	-0.20254	0.0
41.00000	41.00000	15.50000	0.16846	15.130	-38.560E-6	-0.19093	0.0
42.00000	41.00000	15.50000	0.16805	15.130	-34.562E-6	-0.17988	0.0
43.00000	41.00000	15.50000	0.16723	15.130	-30.937E-6	-0.16940	0.0
44.00000	41.00000	15.50000	0.16602	15.130	-27.671E-6	-0.15949	0.0
45.00000	41.00000	15.50000	0.16446	15.130	-24.739E-6	-0.15015	0.0
46.00000	41.00000	15.50000	0.16256	15.130	-22.119E-6	-0.14137	0.0
47.00000	41.00000	15.50000	0.16037	15.130	-19.783E-6	-0.13311	0.0
48.00000	41.00000	15.50000	0.15791	15.130	-17.704E-6	-0.12538	0.0
49.00000	41.00000	15.50000	0.15521	15.130	-15.856E-6	-0.11813	0.0
50.00000	41.00000	15.50000	0.15231	15.130	-14.216E-6	-0.11136	0.0
51.00000	41.00000	15.50000	0.14925	15.130	-12.759E-6	-0.10502	0.0
52.00000	41.00000	15.50000	0.14604	15.130	-11.466E-6	-0.099089	0.0
53.00000	41.00000	15.50000	0.14273	15.130	-10.318E-6	-0.093549	0.0
54.00000	41.00000	15.50000	0.13932	15.130	-9.2978E-6	-0.088370	0.0
55.00000	41.00000	15.50000	0.13586	15.130	-8.3903E-6	-0.083530	0.0
-25.00000	42.00000	15.50000	0.13591	15.130	-7.4312E-6	-0.080257	0.0
-24.00000	42.00000	15.50000	0.13952	15.130	-8.1923E-6	-0.084761	0.0
-23.00000	42.00000	15.50000	0.14310	15.130	-9.0429E-6	-0.089570	0.0
-22.00000	42.00000	15.50000	0.14663	15.130	-9.9945E-6	-0.094704	0.0
-21.00000	42.00000	15.50000	0.15007	15.130	-11.0605E-6	-0.100119	0.0
-20.00000	42.00000	15.50000	0.15341	15.130	-12.253E-6	-0.10604	0.0
-19.00000	42.00000	15.50000	0.15661	15.130	-13.591E-6	-0.11229	0.0
-18.00000	42.00000	15.50000	0.15964	15.130	-15.091E-6	-0.11896	0.0
-17.00000	42.00000	15.50000	0.16247	15.130	-16.774E-6	-0.12607	0.0
-16.00000	42.00000	15.50000	0.16507	15.130	-18.660E-6	-0.13365	0.0
-15.00000	42.00000	15.50000	0.16739	15.130	-20.773E-6	-0.14173	0.0
-14.00000	42.00000	15.50000	0.16940	15.130	-23.138E-6	-0.15032	0.0
-13.00000	42.00000	15.50000	0.17106	15.130	-25.780E-6	-0.15945	0.0
-12.00000	42.00000	15.50000	0.17234	15.130	-28.727E-6	-0.16912	0.0
-11.00000	42.00000	15.50000	0.17320	15.130	-32.002E-6	-0.17935	0.0
-10.00000	42.00000	15.50000	0.17361	15.130	-35.630E-6	-0.19014	0.0
-9.00000	42.00000	15.50000	0.17357	15.130	-39.630E-6	-0.20148	0.0
-8.00000	42.00000	15.50000	0.17304	15.130	-44.014E-6	-0.21335	0.0
-7.00000	42.00000	15.50000	0.17203	15.130	-48.787E-6	-0.22573	0.0
-6.00000	42.00000	15.50000	0.17055	15.130	-53.943E-6	-0.23866	0.0
-5.00000	42.00000	15.50000	0.16861	15.130	-59.460E-6	-0.25178	0.0
-4.00000	42.00000	15.50000	0.16625	15.130	-65.301E-6	-0.26530	0.0
-3.00000	42.00000	15.50000	0.16352	15.130	-71.414E-6	-0.27904	0.0
-2.00000	42.00000	15.50000	0.16048	15.130	-77.727E-6	-0.29287	0.0
-1.00000	42.00000	15.50000	0.15719	15.130	-84.155E-6	-0.30657	0.0
0.00000	42.00000	15.50000	0.15375	15.130	-90.602E-6	-0.32029	0.0
1.00000	42.00000	15.50000	0.15022	15.130	-96.965E-6	-0.33359	0.0
2.00000	42.00000	15.50000	0.14670	15.130	-103.14E-6	-0.34643	0.0
3.00000	42.00000	15.50000	0.14327	15.130	-109.02E-6	-0.35867	0.0
4.00000	42.00000	15.50000	0.14002	15.130	-114.53E-6	-0.37016	0.0
5.00000	42.00000	15.50000	0.13700	15.130	-119.58E-6	-0.38080	0.0
6.00000	42.00000	15.50000	0.13428	15.130	-124.11E-6	-0.39046	1.0225E-6
7.00000	42.00000	15.50000	0.13191	15.130	-128.07E-6	-0.39908	1.0451E-6
8.00000	42.00000	15.50000	0.12993	15.130	-131.44E-6	-0.40657	1.0647E-6
9.00000	42.00000	15.50000	0.12836	15.130	-134.18E-6	-0.41287	1.0812E-6
10.00000	42.00000	15.50000	0.12722	15.130	-136.30E-6	-0.41796	1.0945E-6
11.00000	42.00000	15.50000	0.12651	15.130	-137.79E-6	-0.42181	1.1046E-6
12.00000	42.00000	15.50000	0.12623	15.130	-138.66E-6	-0.42441	1.1114E-6
13.00000	42.00000	15.50000	0.12635	15.130	-138.93E-6	-0.42576	1.1149E-6
14.00000	42.00000	15.50000	0.12687	15.130	-138.61E-6	-0.42589	1.1153E-6
15.00000	42.00000	15.50000	0.12776	15.130	-137.73E-6	-0.42482	1.1125E-6
16.00000	42.00000	15.50000	0.12898	15.130	-136.33E-6	-0.42259	1.1066E-6
17.00000	42.00000	15.50000	0.13050	15.130	-134.43E-6	-0.41925	1.0979E-6
18.00000	42.00000	15.50000	0.13228	15.130	-132.08E-6	-0.41486	1.0864E-6
19.00000	42.00000	15.50000	0.13428	15.130	-129.34E-6	-0.40947	1.0723E-6
20.00000	42.00000	15.50000	0.13645	15.130	-126.21E-6	-0.40316	1.0558E-6
21.00000	42.00000	15.50000	0.13877	15.130	-122.76E-6	-0.39599	1.0371E-6
22.00000	42.00000	15.50000	0.14118	15.130	-119.04E-6	-0.38804	1.0163E-6
23.00000	42.00000	15.50000	0.14365	15.130	-115.09E-6	-0.37937	0.0
24.00000	42.00000	15.50000	0.14615	15.130	-110.92E-6	-0.37007	0.0
25.00000	42.00000	15.50000	0.14865	15.130	-106.58E-6	-0.36018	0.0
26.00000	42.00000	15.50000	0.15112	15.130	-102.08E-6	-0.34978	0.0
27.00000	42.00000	15.50000	0.15354	15.130	-97.441E-6	-0.33893	0.0
28.00000	42.00000	15.50000	0.15589	15.130	-92.685E-6	-0.32769	0.0
29.00000	42.00000	15.50000	0.15815	15.130	-87.826E-6	-0.31613	0.0
30.00000							



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Dr. Ref.		
Made by	Date	Checked
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Name	Location		Z [Level] [m]	Z [mm]	Calc Level [mOD]	Stresses		Vert Strain [-]
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	
-25.00000	43.00000	15.50000	0.13316	15.130	-6.9111E-6	-0.077039	0.0	
-24.00000	43.00000	15.50000	0.13672	15.130	-7.5963E-6	-0.081238	0.0	
-23.00000	43.00000	15.50000	0.14025	15.130	-8.3588E-6	-0.085707	0.0	
-22.00000	43.00000	15.50000	0.14375	15.130	-9.2077E-6	-0.090465	0.0	
-21.00000	43.00000	15.50000	0.14718	15.130	-10.153E-6	-0.095530	0.0	
-20.00000	43.00000	15.50000	0.15053	15.130	-11.207E-6	-0.10092	0.0	
-19.00000	43.00000	15.50000	0.15377	15.130	-12.382E-6	-0.10666	0.0	
-18.00000	43.00000	15.50000	0.15688	15.130	-13.691E-6	-0.11275	0.0	
-17.00000	43.00000	15.50000	0.15983	15.130	-15.150E-6	-0.11924	0.0	
-16.00000	43.00000	15.50000	0.16258	15.130	-16.775E-6	-0.12612	0.0	
-15.00000	43.00000	15.50000	0.16512	15.130	-18.580E-6	-0.13342	0.0	
-14.00000	43.00000	15.50000	0.16740	15.130	-20.590E-6	-0.14115	0.0	
-13.00000	43.00000	15.50000	0.16940	15.130	-22.817E-6	-0.14932	0.0	
-12.00000	43.00000	15.50000	0.17108	15.130	-25.280E-6	-0.15795	0.0	
-11.00000	43.00000	15.50000	0.17243	15.130	-27.995E-6	-0.16703	0.0	
-10.00000	43.00000	15.50000	0.17343	15.130	-30.977E-6	-0.17656	0.0	
-9.00000	43.00000	15.50000	0.17405	15.130	-34.236E-6	-0.18652	0.0	
-8.00000	43.00000	15.50000	0.17428	15.130	-37.778E-6	-0.19691	0.0	
-7.00000	43.00000	15.50000	0.17413	15.130	-41.602E-6	-0.20768	0.0	
-6.00000	43.00000	15.50000	0.17359	15.130	-45.699E-6	-0.21879	0.0	
-5.00000	43.00000	15.50000	0.17269	15.130	-50.049E-6	-0.23019	0.0	
-4.00000	43.00000	15.50000	0.17145	15.130	-54.622E-6	-0.24180	0.0	
-3.00000	43.00000	15.50000	0.16990	15.130	-59.379E-6	-0.25355	0.0	
-2.00000	43.00000	15.50000	0.16809	15.130	-64.265E-6	-0.26534	0.0	
-1.00000	43.00000	15.50000	0.16607	15.130	-69.221E-6	-0.27707	0.0	
0.00000	43.00000	15.50000	0.16391	15.130	-74.177E-6	-0.28863	0.0	
1.00000	43.00000	15.50000	0.16165	15.130	-79.061E-6	-0.29990	0.0	
2.00000	43.00000	15.50000	0.15937	15.130	-83.799E-6	-0.31076	0.0	
3.00000	43.00000	15.50000	0.15713	15.130	-88.320E-6	-0.32111	0.0	
4.00000	43.00000	15.50000	0.15499	15.130	-92.559E-6	-0.33084	0.0	
5.00000	43.00000	15.50000	0.15290	15.130	-96.458E-6	-0.33985	0.0	
6.00000	43.00000	15.50000	0.15120	15.130	-99.971E-6	-0.34806	0.0	
7.00000	43.00000	15.50000	0.14964	15.130	-103.06E-6	-0.35539	0.0	
8.00000	43.00000	15.50000	0.14834	15.130	-105.70E-6	-0.36177	0.0	
9.00000	43.00000	15.50000	0.14732	15.130	-107.87E-6	-0.36718	0.0	
10.00000	43.00000	15.50000	0.14650	15.130	-109.56E-6	-0.37156	0.0	
11.00000	43.00000	15.50000	0.14617	15.130	-110.77E-6	-0.37490	0.0	
12.00000	43.00000	15.50000	0.14604	15.130	-111.50E-6	-0.37719	0.0	
13.00000	43.00000	15.50000	0.14620	15.130	-111.77E-6	-0.37843	0.0	
14.00000	43.00000	15.50000	0.14663	15.130	-111.58E-6	-0.37863	0.0	
15.00000	43.00000	15.50000	0.14731	15.130	-110.96E-6	-0.37782	0.0	
16.00000	43.00000	15.50000	0.14822	15.130	-109.93E-6	-0.37601	0.0	
17.00000	43.00000	15.50000	0.14933	15.130	-108.51E-6	-0.37326	0.0	
18.00000	43.00000	15.50000	0.15060	15.130	-106.73E-6	-0.36960	0.0	
19.00000	43.00000	15.50000	0.15202	15.130	-104.62E-6	-0.36500	0.0	
20.00000	43.00000	15.50000	0.15354	15.130	-102.22E-6	-0.35978	0.0	
21.00000	43.00000	15.50000	0.15514	15.130	-99.560E-6	-0.35372	0.0	
22.00000	43.00000	15.50000	0.15679	15.130	-96.669E-6	-0.34697	0.0	
23.00000	43.00000	15.50000	0.15845	15.130	-93.575E-6	-0.33959	0.0	
24.00000	43.00000	15.50000	0.16011	15.130	-90.306E-6	-0.33165	0.0	
25.00000	43.00000	15.50000	0.16174	15.130	-86.884E-6	-0.32319	0.0	
26.00000	43.00000	15.50000	0.16332	15.130	-83.330E-6	-0.31427	0.0	
27.00000	43.00000	15.50000	0.16483	15.130	-79.661E-6	-0.30495	0.0	
28.00000	43.00000	15.50000	0.16625	15.130	-75.893E-6	-0.29529	0.0	
29.00000	43.00000	15.50000	0.16757	15.130	-72.046E-6	-0.28534	0.0	
30.00000	43.00000	15.50000	0.16876	15.130	-68.136E-6	-0.27515	0.0	
31.00000	43.00000	15.50000	0.16982	15.130	-64.187E-6	-0.26480	0.0	
32.00000	43.00000	15.50000	0.17072	15.130	-60.224E-6	-0.25433	0.0	
33.00000	43.00000	15.50000	0.17144	15.130	-56.273E-6	-0.24380	0.0	
34.00000	43.00000	15.50000	0.17197	15.130	-52.365E-6	-0.23329	0.0	
35.00000	43.00000	15.50000	0.17228	15.130	-48.533E-6	-0.22284	0.0	
36.00000	43.00000	15.50000	0.17236	15.130	-44.806E-6	-0.21253	0.0	
37.00000	43.00000	15.50000	0.17219	15.130	-41.214E-6	-0.20239	0.0	
38.00000	43.00000	15.50000	0.17176	15.130	-37.782E-6	-0.19248	0.0	
39.00000	43.00000	15.50000	0.17106	15.130	-34.531E-6	-0.18285	0.0	
40.00000	43.00000	15.50000	0.17008	15.130	-31.477E-6	-0.17352	0.0	
41.00000	43.00000	15.50000	0.16884	15.130	-28.627E-6	-0.16453	0.0	
42.00000	43.00000	15.50000	0.16733	15.130	-25.987E-6	-0.15591	0.0	
43.00000	43.00000	15.50000	0.16556	15.130	-23.556E-6	-0.14765	0.0	
44.00000	43.00000	15.50000	0.16354	15.130	-21.329E-6	-0.13978	0.0	
45.00000	43.00000	15.50000	0.16130	15.130	-19.298E-6	-0.13230	0.0	
46.00000	43.00000	15.50000	0.15884	15.130	-17.452E-6	-0.12520	0.0	
47.00000	43.00000	15.50000	0.15619	15.130	-15.780E-6	-0.11847	0.0	
48.00000	43.00000	15.50000	0.15338	15.130	-14.270E-6	-0.11211	0.0	
49.00000	43.00000	15.50000	0.15042	15.130	-12.908E-6	-0.10611	0.0	
50.00000	43.00000	15.50000	0.14733	15.130	-11.681E-6	-0.10045	0.0	
51.00000	43.00000	15.50000	0.14415	15.130	-10.578E-6	-0.095124	0.0	
52.00000	43.00000	15.50000	0.14088	15.130	-9.5857E-6	-0.090105	0.0	
53.00000	43.00000	15.50000	0.13755	15.130	-8.6939E-6	-0.085382	0.0	
54.00000	43.00000	15.50000	0.13417	15.130	-7.8924E-6	-0.080940	0.0	
55.00000	43.00000	15.50000	0.13077	15.130	-7.1718E-6	-0.076763	0.0	
-25.00000	44.00000	15.50000	0.13038	15.130	-6.4245E-6	-0.073931	0.0	
-24.00000	44.00000	15.50000	0.13387	15.130	-7.0411E-6	-0.077843	0.0	
-23.00000	44.00000	15.50000	0.13735	15.130	-7.7242E-6	-0.081995	0.0	
-22.00000	44.00000	15.50000	0.14080	15.130	-8.4813E-6	-0.086404	0.0	
-21.00000	44.00000	15.50000	0.14420	15.130	-9.3206E-6	-0.091083	0.0	
-20.00000	44.00000	15.50000	0.14755	15.130	-10.251E-6	-0.096047	0.0	
-19.00000	44.00000	15.50000	0.15081	15.130	-11.283E-6	-0.10131	0.0	
-18.00000	44.00000	15.50000	0.15396	15.130	-12.426E-6	-0.10689	0.0	
-17.00000	44.00000	15.50000	0.15698	15.130	-13.692E-6	-0.11280	0.0	
-16.00000	44.00000	15.50000	0.15985	15.130	-15.094E-6	-0.11905	0.0	
-15.00000	44.00000	15.50000	0.16254	15.130	-16.643E-6	-0.12565	0.0	
-14.00000	44.00000	15.50000	0.16503	15.130	-18.352E-6	-0.13262	0.0	
-13.00000	44.00000	15.50000	0.16728	15.130	-20.233E-6	-0.13995	0.0	
-12.00000	44.00000	15.50000	0.16929	15.130	-22.290E-6	-0.14766	0.0	
-11.00000	44.00000	15.50000	0.17102	15.130	-24.539E-6	-0.15573	0.0	
-10.00000	44.00000	15.50000	0.17247	15.130	-27.022E-6	-0.16417	0.0	
-9.00000	44.00000	15.50000	0.17361	15.130	-29.694E-6	-0.17296	0.0	
-8.00000	44.00000	15.50000	0.17444	15.130	-32.575E-6	-0.18207	0.0	
-7.00000	44.00000	15.50000	0.17495	15.130	-35.663E-6	-0.19149	0.0	
-6.00000	44.00000	15.50000	0.17516	15.130	-38.946E-6	-0.20115	0.0	
-5.00000	44.00000	15.50000	0.17506	15.130	-42.410E-6	-0.21103	0.0	
-4.00000	44.00000	15.50000	0.17468	15.130	-46.029E-6	-0.22105	0.0	
-3.00000	44.00000	15.50000	0.17405	15.130	-49.772E-6	-0.23116	0.0	
-2.00000	44.00000	15.50000	0.17320	15.130	-53.600E-6	-0.24127	0.0	
-1.00000	44.00000	15.50000	0.17217	15.130	-57.468E-6	-0.25131	0.0	
0.00000	44.00000	15.50000	0.17099	15.130	-61.327E-6	-0.26117	0.0	
1.00000	44.00000	15.50000	0.16972	15.130	-65.123E-6	-0.27078	0.0	
2.00000	44.00000	15.50000	0.16841	15.130	-68.805E-6	-0.28004	0.0	
3.00000	44.00000	15.50000	0.16698	15.130	-72.320E-6	-0.28885	0.0	
4.00000	44.00000	15.50000	0.16581	15.130	-75.621E-6	-0.29714	0.0	
5.00000	44.00000	15.50000	0.16462	15.130	-78.665E-6	-0.30482	0.0	
6.00000	44.00000	15.50000	0.16354	15.130	-81.417E-6	-0.31182	0.0	
7.00000	44.00000	15.50000	0.16261	15.130	-83.848E-6	-0.31809	0.0	
8.00000	44.00000	15.50000	0.16184	15.130	-85.935E-6	-0.32356	0.0	
9.00000	44.00000	15.50000	0.16126	15.130	-87.662E-6	-0.32821	0.0	
10.00000	44.00000	15.50000	0.16087	15.130	-89.021E-6	-0.33200	0.0	
11.00000	44.00000	15.50000</						



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Dr. Ref.		
Made by	Date	Checked
MP		

Name	Location		Z [Level] [mOD]	Z [mm]	Calc Level [mOD]	Stresses		Vert Strain [-]
	X [m]	Y [m]				Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	
35.00000	44.00000	15.50000	0.17446	15.130	-40.924E-6	-0.20434	0.0	
36.00000	44.00000	15.50000	0.17390	15.130	-37.942E-6	-0.19534	0.0	
37.00000	44.00000	15.50000	0.17313	15.130	-35.061E-6	-0.18647	0.0	
38.00000	44.00000	15.50000	0.17213	15.130	-32.298E-6	-0.17779	0.0	
39.00000	44.00000	15.50000	0.17092	15.130	-29.669E-6	-0.16931	0.0	
40.00000	44.00000	15.50000	0.16948	15.130	-27.186E-6	-0.16109	0.0	
41.00000	44.00000	15.50000	0.16782	15.130	-24.857E-6	-0.15313	0.0	
42.00000	44.00000	15.50000	0.16594	15.130	-22.686E-6	-0.14547	0.0	
43.00000	44.00000	15.50000	0.16386	15.130	-20.674E-6	-0.13811	0.0	
44.00000	44.00000	15.50000	0.16158	15.130	-18.818E-6	-0.13107	0.0	
45.00000	44.00000	15.50000	0.15911	15.130	-17.118E-6	-0.12435	0.0	
46.00000	44.00000	15.50000	0.15648	15.130	-15.555E-6	-0.11795	0.0	
47.00000	44.00000	15.50000	0.15369	15.130	-14.133E-6	-0.11186	0.0	
48.00000	44.00000	15.50000	0.15077	15.130	-12.840E-6	-0.10609	0.0	
49.00000	44.00000	15.50000	0.14774	15.130	-11.667E-6	-0.10062	0.0	
50.00000	44.00000	15.50000	0.14462	15.130	-10.603E-6	-0.09549	0.0	
51.00000	44.00000	15.50000	0.14141	15.130	-9.6403E-6	-0.090549	0.0	
52.00000	44.00000	15.50000	0.13814	15.130	-8.7698E-6	-0.085928	0.0	
53.00000	44.00000	15.50000	0.13483	15.130	-7.9830E-6	-0.081566	0.0	
54.00000	44.00000	15.50000	0.13149	15.130	-7.2722E-6	-0.077452	0.0	
55.00000	44.00000	15.50000	0.12814	15.130	-6.6301E-6	-0.073572	0.0	
-25.00000	45.00000	15.50000	0.12757	15.130	-5.9702E-6	-0.070934	0.0	
-24.00000	45.00000	15.50000	0.13098	15.130	-6.5249E-6	-0.074577	0.0	
-23.00000	45.00000	15.50000	0.13439	15.130	-7.1367E-6	-0.078435	0.0	
-22.00000	45.00000	15.50000	0.13779	15.130	-7.8118E-6	-0.082519	0.0	
-21.00000	45.00000	15.50000	0.14116	15.130	-8.5567E-6	-0.086841	0.0	
-20.00000	45.00000	15.50000	0.14447	15.130	-9.3785E-6	-0.091413	0.0	
-19.00000	45.00000	15.50000	0.14773	15.130	-10.285E-6	-0.096246	0.0	
-18.00000	45.00000	15.50000	0.15090	15.130	-11.284E-6	-0.10135	0.0	
-17.00000	45.00000	15.50000	0.15397	15.130	-12.382E-6	-0.10674	0.0	
-16.00000	45.00000	15.50000	0.15691	15.130	-13.585E-6	-0.11242	0.0	
-15.00000	45.00000	15.50000	0.15971	15.130	-14.925E-6	-0.11840	0.0	
-14.00000	45.00000	15.50000	0.16234	15.130	-16.383E-6	-0.12468	0.0	
-13.00000	45.00000	15.50000	0.16479	15.130	-17.977E-6	-0.13127	0.0	
-12.00000	45.00000	15.50000	0.16704	15.130	-19.716E-6	-0.13817	0.0	
-11.00000	45.00000	15.50000	0.16906	15.130	-21.605E-6	-0.14537	0.0	
-10.00000	45.00000	15.50000	0.17085	15.130	-23.650E-6	-0.15286	0.0	
-9.00000	45.00000	15.50000	0.17239	15.130	-25.852E-6	-0.16063	0.0	
-8.00000	45.00000	15.50000	0.17368	15.130	-28.211E-6	-0.16865	0.0	
-7.00000	45.00000	15.50000	0.17471	15.130	-30.722E-6	-0.17694	0.0	
-6.00000	45.00000	15.50000	0.17548	15.130	-33.376E-6	-0.18535	0.0	
-5.00000	45.00000	15.50000	0.17601	15.130	-36.158E-6	-0.19395	0.0	
-4.00000	45.00000	15.50000	0.17631	15.130	-39.049E-6	-0.20265	0.0	
-3.00000	45.00000	15.50000	0.17638	15.130	-42.025E-6	-0.21139	0.0	
-2.00000	45.00000	15.50000	0.17627	15.130	-45.056E-6	-0.22011	0.0	
-1.00000	45.00000	15.50000	0.17599	15.130	-48.109E-6	-0.22875	0.0	
0.00000	45.00000	15.50000	0.17558	15.130	-51.147E-6	-0.23722	0.0	
1.00000	45.00000	15.50000	0.17507	15.130	-54.132E-6	-0.24546	0.0	
2.00000	45.00000	15.50000	0.17450	15.130	-57.024E-6	-0.25339	0.0	
3.00000	45.00000	15.50000	0.17389	15.130	-59.787E-6	-0.26094	0.0	
4.00000	45.00000	15.50000	0.17329	15.130	-62.385E-6	-0.26804	0.0	
5.00000	45.00000	15.50000	0.17271	15.130	-64.785E-6	-0.27462	0.0	
6.00000	45.00000	15.50000	0.17219	15.130	-66.961E-6	-0.28063	0.0	
7.00000	45.00000	15.50000	0.17175	15.130	-68.889E-6	-0.28601	0.0	
8.00000	45.00000	15.50000	0.17141	15.130	-70.552E-6	-0.29073	0.0	
9.00000	45.00000	15.50000	0.17116	15.130	-71.937E-6	-0.29474	0.0	
10.00000	45.00000	15.50000	0.17104	15.130	-73.036E-6	-0.29802	0.0	
11.00000	45.00000	15.50000	0.17103	15.130	-73.844E-6	-0.30056	0.0	
12.00000	45.00000	15.50000	0.17113	15.130	-74.361E-6	-0.30234	0.0	
13.00000	45.00000	15.50000	0.17135	15.130	-74.592E-6	-0.30336	0.0	
14.00000	45.00000	15.50000	0.17166	15.130	-74.542E-6	-0.30362	0.0	
15.00000	45.00000	15.50000	0.17207	15.130	-74.220E-6	-0.30315	0.0	
16.00000	45.00000	15.50000	0.17255	15.130	-73.639E-6	-0.30194	0.0	
17.00000	45.00000	15.50000	0.17309	15.130	-72.813E-6	-0.30003	0.0	
18.00000	45.00000	15.50000	0.17367	15.130	-71.757E-6	-0.29745	0.0	
19.00000	45.00000	15.50000	0.17428	15.130	-70.488E-6	-0.29423	0.0	
20.00000	45.00000	15.50000	0.17489	15.130	-69.024E-6	-0.29039	0.0	
21.00000	45.00000	15.50000	0.17550	15.130	-67.384E-6	-0.28599	0.0	
22.00000	45.00000	15.50000	0.17607	15.130	-65.585E-6	-0.28106	0.0	
23.00000	45.00000	15.50000	0.17661	15.130	-63.644E-6	-0.27564	0.0	
24.00000	45.00000	15.50000	0.17708	15.130	-61.578E-6	-0.26977	0.0	
25.00000	45.00000	15.50000	0.17748	15.130	-59.402E-6	-0.26349	0.0	
26.00000	45.00000	15.50000	0.17780	15.130	-57.132E-6	-0.25685	0.0	
27.00000	45.00000	15.50000	0.17803	15.130	-54.780E-6	-0.24990	0.0	
28.00000	45.00000	15.50000	0.17815	15.130	-52.361E-6	-0.24266	0.0	
29.00000	45.00000	15.50000	0.17815	15.130	-49.888E-6	-0.23519	0.0	
30.00000	45.00000	15.50000	0.17803	15.130	-47.375E-6	-0.22753	0.0	
31.00000	45.00000	15.50000	0.17777	15.130	-44.838E-6	-0.21973	0.0	
32.00000	45.00000	15.50000	0.17738	15.130	-42.292E-6	-0.21182	0.0	
33.00000	45.00000	15.50000	0.17683	15.130	-39.755E-6	-0.20395	0.0	
34.00000	45.00000	15.50000	0.17612	15.130	-37.242E-6	-0.19587	0.0	
35.00000	45.00000	15.50000	0.17524	15.130	-34.773E-6	-0.18791	0.0	
36.00000	45.00000	15.50000	0.17419	15.130	-32.363E-6	-0.18002	0.0	
37.00000	45.00000	15.50000	0.17295	15.130	-30.028E-6	-0.17223	0.0	
38.00000	45.00000	15.50000	0.17154	15.130	-27.783E-6	-0.16458	0.0	
39.00000	45.00000	15.50000	0.16993	15.130	-25.638E-6	-0.15710	0.0	
40.00000	45.00000	15.50000	0.16814	15.130	-23.603E-6	-0.14982	0.0	
41.00000	45.00000	15.50000	0.16617	15.130	-21.685E-6	-0.14275	0.0	
42.00000	45.00000	15.50000	0.16402	15.130	-19.887E-6	-0.13593	0.0	
43.00000	45.00000	15.50000	0.16170	15.130	-18.210E-6	-0.12935	0.0	
44.00000	45.00000	15.50000	0.15922	15.130	-16.655E-6	-0.12303	0.0	
45.00000	45.00000	15.50000	0.15660	15.130	-15.218E-6	-0.11698	0.0	
46.00000	45.00000	15.50000	0.15384	15.130	-13.896E-6	-0.11120	0.0	
47.00000	45.00000	15.50000	0.15097	15.130	-12.682E-6	-0.10568	0.0	
48.00000	45.00000	15.50000	0.14799	15.130	-11.572E-6	-0.10043	0.0	
49.00000	45.00000	15.50000	0.14492	15.130	-10.558E-6	-0.095440	0.0	
50.00000	45.00000	15.50000	0.14177	15.130	-9.6336E-6	-0.090702	0.0	
51.00000	45.00000	15.50000	0.13857	15.130	-8.7925E-6	-0.086209	0.0	
52.00000	45.00000	15.50000	0.13533	15.130	-8.0277E-6	-0.081953	0.0	
53.00000	45.00000	15.50000	0.13205	15.130	-7.3331E-6	-0.077924	0.0	
54.00000	45.00000	15.50000	0.12876	15.130	-6.7023E-6	-0.074112	0.0	
55.00000	45.00000	15.50000	0.12547	15.130	-6.1298E-6	-0.070508	0.0	