

Job No.	Sheet No.	Rev.
Drg. Ref.		
Made by	Date	Checked Date

### Titles

**Job No.:**  
**Job Title:**  
**Sub-title:**  
**Calculation Heading:**  
**Initials:**  
**Checker:**  
**Date Saved:**  
**Date Checked:**  
**Notes:**  
**File Name:** GWPR5173 Pdisp Model 1.pdd  
**File Path:** C:\Users\RobertTerrell\Ground and Water Limited\GWShare - Documents\Project Files\GWPR5151 - GWPR5200\GWPR5173 71 Avenue Road, London, NW8 6HP\Modelling\10 2023

### History

Date	Time	By	Notes
28-Feb-2023	12:19	RobertTerrell	New
28-Feb-2023	12:54	RobertTerrell	
25-Apr-2023	15:34	RobertTerrell	
25-Apr-2023	15:35	RobertTerrell	
15-Aug-2023	16:31	RobertTerrell	
02-Nov-2023	12:18	RobertTerrell	

## Analysis Options

### General

Global Poisson's ratio: 0.20  
 Maximum allowable ratio between values of E: 1.5  
 Horizontal rigid boundary level: -82.52 [m OD]  
 Displacements at load centroids: Yes  
 GSA piled raft data : No

### Elastic

Elastic : Yes  
 Analysis: Mindlin  
 Calculate horizontal displacements: Yes  
 Stiffness for horizontal displacement calculations: Weighted average  
 Using legacy heave correction factor: Yes  
 Soil above horizontal load on horizontal plane dampens displacements below load: Yes  
 Soil above vertical load on horizontal plane dampens displacements below load: No

### Consolidation

Consolidation : No

### Soil ProfilesST

Layer ref.	Name	Level at top	Number of intermediate displacement levels	Youngs Modulus : Top	Youngs Modulus : Btm.	Poissons ratio	Non-linear curve
		[mOD]		[kN/m <sup>2</sup> ]	[kN/m <sup>2</sup> ]		
1	1	0.0	5	10000.	10000.	0.45000	None
2	2	-0.20000	5	18576.	80000.	0.45000	None
3	3	-19.169	40	80000.	80000.	0.45000	None

### Soil ProfilesLT

Layer ref.	Name	Level at top	Number of intermediate displacement levels	Youngs Modulus : Top	Youngs Modulus : Btm.	Poissons ratio	Non-linear curve
		[mOD]		[kN/m <sup>2</sup> ]	[kN/m <sup>2</sup> ]		
1	1	0.0	5	10000.	10000.	0.20000	None
2	2	-0.20000	5	13932.	60000.	0.20000	None

Layer ref.	Name	Level at top	Number of intermediate displacement levels	Youngs Modulus : Top	Youngs Modulus : Btm.	Poissons ratio	Non-linear curve
3	3	-19.169	40	60000.	60000.	0.20000	None

### Soil Zones

Zone	Name	X min [m]	X max [m]	Y min [m]	Y max [m]	Profile
1	1	-75.000	75.000	-75.000	75.000	ST

### Polygonal Load Data

Load ref.	Name	Position : Level	Position : Polygon	Coords. : Polygon	Position : Rect. tolerance	No. of Rectangles	Value : Normal (local z)
		[m]	[m]	[m]	[%]		[kN/m <sup>2</sup> ]
1	Demolition	0.00000	(0,0)	(26.6,0) (26.6,-12.2) (13.3,-12.2) (13.3,-6.4) (0,-6.4) (0,0)	10.000	2	-60.000
2	Mass Excavation	-6.40000	(0,4.9)	(26.6,4.9) (26.6,-12.2) (0,-12.2) (0,4.9)	10.000	1	-121.60

### Polygonal Loads' Rectangles

No.	Centre x	Centre y	Angle of local x from global X [Degrees]	Width [m]	Depth [m]
<b>Load 1 : Demolition</b>					
(Edge 2 optimal)					
1	13.30000	-3.20000	-90.000	6.4000	26.600
2	19.95000	-9.30000	-90.000	5.8000	13.300
<b>Load 2 : Mass Excavation</b>					
(Edge 2 optimal)					
1	13.30000	-3.65000	-90.000	17.100	26.600

### Displacement Lines

Name	X1 [m]	Y1 [m]	Z1 [m]	X2 [m]	Y2 [m]	Z2 [m]	Intervals [No.]	Calculate	Detailed Results
1	20.00000	-12.20100	0.00000	20.00000	-15.55000	0.00000	3	Yes	No
2	20.00000	-15.55000	0.00000	27.40000	-15.50000	0.00000	6	Yes	No
3	27.40000	-15.50000	0.00000	27.40000	-24.10000	0.00000	8	Yes	No
4	27.40000	-24.10000	0.00000	20.00000	-24.10000	0.00000	6	Yes	No
5	20.00000	-24.10000	0.00000	20.00000	-29.30000	0.00000	4	Yes	No
6	20.00000	-29.30000	0.00000	23.00000	-29.30000	0.00000	3	Yes	No
7	23.00000	-29.30000	0.00000	23.00000	-41.90000	0.00000	10	Yes	No
8	23.00000	-41.90000	0.00000	35.90000	-41.90000	0.00000	10	Yes	No
9	35.90000	-41.90000	0.00000	35.90000	-49.40000	0.00000	5	Yes	No
10	35.90000	-49.40000	0.00000	12.50000	-49.40000	0.00000	15	Yes	No
11	12.50000	-49.40000	0.00000	12.50000	-12.20100	0.00000	23	Yes	No
12	-10.40000	-1.00000	0.00000	-24.10000	-1.00000	0.00000	10	Yes	No
13	-24.10000	-1.00000	0.00000	-24.10000	-16.30000	0.00000	10	Yes	No
14	-10.40000	-1.00000	0.00000	-10.40000	-7.70000	0.00000	5	Yes	No
15	-10.40000	-7.70000	0.00000	-14.50000	-7.70000	0.00000	3	Yes	No
16	-14.50000	-7.70000	0.00000	-14.50000	-12.90000	0.00000	4	Yes	No
17	-14.50000	-12.90000	0.00000	-19.60000	-12.90000	0.00000	4	Yes	No
18	-19.60000	-12.90000	0.00000	-19.60000	-16.30000	0.00000	3	Yes	No
19	-19.60000	-16.30000	0.00000	-24.00000	-16.30000	0.00000	3	Yes	No

### Displacement Grids

Name	Extrusion: Calculate Results	X1 [m]	Y1 [m]	Z1 [m]	X2 [m]	Y2 [m]	Z2 [m]	Intervals	Extrusion: Distance [m]	Extrusion: Intervals [No.]
1	Global Y	0.00000	-12.20000	-6.40000	26.60000	-	-6.40000	27	17.10000	18 Yes



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Name Extrusion: X1 Y1 Z1 X2 Y2 Z2 Intervals Extrusion: Extrusion:  
Calculate Detailed Direction Along Distance Intervals  
Results

**Results : Immediate : Load Centres : Polygonal**

Ref.	Name	x [m]	y [m]	z [mOD]	δx [mm]	δy [mm]	δz [mm]
1	Demolition	15.37366	-5.10215	0.00000	1.77329	-3.04293	-37.79712
2	Mass Excavation	13.30000	-3.65000	-6.40000	0.88869	-0.73123	-35.31511

**Results : Consolidation : Load Centres : Polygonal**

None

**Results : Total : Load Centres : Polygonal**

None

**Results : Immediate : Displacement Data : Lines**

Ref.	Name	x [m]	y [m]	z [mOD]	δx [mm]	δy [mm]	δz [mm]
1	1	20.00000	-12.20100	0.00000	6.43836	-18.26846	-23.54868
1	1	20.00000	-13.31733	0.00000	5.91533	-17.69837	-17.72480
1	1	20.00000	-14.43367	0.00000	5.39655	-16.90440	-14.82499
1	1	20.00000	-15.55000	0.00000	4.89664	-15.95913	-12.74514
2	2	20.00000	-15.55000	0.00000	4.89664	-15.95913	-12.74514
2	2	21.23333	-15.54167	0.00000	5.91361	-15.35494	-12.35864
2	2	22.46667	-15.53333	0.00000	6.87527	-14.59825	-11.86155
2	2	23.70000	-15.52500	0.00000	7.74337	-13.68630	-11.25326
2	2	24.93333	-15.51667	0.00000	8.46679	-12.62835	-10.53989
2	2	26.16667	-15.50833	0.00000	8.98830	-11.45816	-9.74314
2	2	27.40000	-15.50000	0.00000	9.26832	-10.24257	-8.90692
3	3	27.40000	-15.50000	0.00000	9.26832	-10.24257	-8.90692
3	3	27.40000	-16.57500	0.00000	8.28114	-9.90259	-8.03961
3	3	27.40000	-17.65000	0.00000	7.42065	-9.50993	-7.29204
3	3	27.40000	-18.72500	0.00000	6.66973	-9.09453	-6.63956
3	3	27.40000	-19.80000	0.00000	6.01335	-8.67589	-6.06451
3	3	27.40000	-20.87500	0.00000	5.43831	-8.26598	-5.55359
3	3	27.40000	-21.95000	0.00000	4.93311	-7.87170	-5.09648
3	3	27.40000	-23.02500	0.00000	4.48790	-7.49664	-4.68507
3	3	27.40000	-24.10000	0.00000	4.09429	-7.14234	-4.31287
4	4	27.40000	-24.10000	0.00000	4.09429	-7.14234	-4.31287
4	4	26.16667	-24.10000	0.00000	3.89009	-7.56217	-4.52490
4	4	24.93333	-24.10000	0.00000	3.63925	-7.96634	-4.72657
4	4	23.70000	-24.10000	0.00000	3.34359	-8.34651	-4.91441
4	4	22.46667	-24.10000	0.00000	3.00662	-8.69503	-5.08522
4	4	21.23333	-24.10000	0.00000	2.63315	-9.00532	-5.23617
4	4	20.00000	-24.10000	0.00000	2.22889	-9.27220	-5.36495
5	5	20.00000	-24.10000	0.00000	2.22889	-9.27220	-5.36495
5	5	20.00000	-25.40000	0.00000	1.98900	-8.58378	-4.80459
5	5	20.00000	-26.70000	0.00000	1.78018	-7.96990	-4.31416
5	5	20.00000	-28.00000	0.00000	1.59820	-7.42151	-3.88185
5	5	20.00000	-29.30000	0.00000	1.43931	-6.93036	-3.49851
6	6	20.00000	-29.30000	0.00000	1.43931	-6.93036	-3.49851
6	6	21.00000	-29.30000	0.00000	1.65274	-6.80785	-3.44213
6	6	22.00000	-29.30000	0.00000	1.85560	-6.66950	-3.37804
6	6	23.00000	-29.30000	0.00000	2.04659	-6.51665	-3.30676
7	7	23.00000	-29.30000	0.00000	2.04659	-6.51665	-3.30676
7	7	23.00000	-30.56000	0.00000	1.85792	-6.13832	-2.99963
7	7	23.00000	-31.82000	0.00000	1.69173	-5.79426	-2.72277
7	7	23.00000	-33.08000	0.00000	1.54485	-5.48055	-2.47245
7	7	23.00000	-34.34000	0.00000	1.41463	-5.19377	-2.24554
7	7	23.00000	-35.60000	0.00000	1.29882	-4.93094	-2.03940
7	7	23.00000	-36.86000	0.00000	1.19552	-4.68950	-1.85178
7	7	23.00000	-38.12000	0.00000	1.10311	-4.46718	-1.68075
7	7	23.00000	-39.38000	0.00000	1.02020	-4.26200	-1.52464
7	7	23.00000	-40.64000	0.00000	0.94561	-4.07224	-1.38197
7	7	23.00000	-41.90000	0.00000	0.87834	-3.89637	-1.25148
8	8	23.00000	-41.90000	0.00000	0.87834	-3.89637	-1.25148
8	8	24.29000	-41.90000	0.00000	0.98665	-3.82728	-1.22243
8	8	25.58000	-41.90000	0.00000	1.08896	-3.75135	-1.19037
8	8	26.87000	-41.90000	0.00000	1.18483	-3.66936	-1.15559



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Ref.	Name	x [m]	y [m]	z [mOD]	δx [mm]	δy [mm]	δz [mm]
8	8	28.16000	-41.90000	0.00000	1.27393	-3.58211	-1.11840
8	8	29.45000	-41.90000	0.00000	1.35603	-3.49041	-1.07914
8	8	30.74000	-41.90000	0.00000	1.43099	-3.39508	-1.03812
8	8	32.03000	-41.90000	0.00000	1.49877	-3.29693	-0.99568
8	8	33.32000	-41.90000	0.00000	1.55943	-3.19672	-0.95214
8	8	34.61000	-41.90000	0.00000	1.61308	-3.09520	-0.90782
8	8	35.90000	-41.90000	0.00000	1.65992	-2.99305	-0.86300
9	9	35.90000	-41.90000	0.00000	1.65992	-2.99305	-0.86300
9	9	35.90000	-43.40000	0.00000	1.54649	-2.89170	-0.76953
9	9	35.90000	-44.90000	0.00000	1.44320	-2.79486	-0.68386
9	9	35.90000	-46.40000	0.00000	1.34897	-2.70244	-0.60540
9	9	35.90000	-47.90000	0.00000	1.26287	-2.61430	-0.53360
9	9	35.90000	-49.40000	0.00000	1.18406	-2.53029	-0.46794
10	10	35.90000	-49.40000	0.00000	1.18406	-2.53029	-0.46794
10	10	34.34000	-49.40000	0.00000	1.13244	-2.60797	-0.49720
10	10	32.78000	-49.40000	0.00000	1.07503	-2.68374	-0.52575
10	10	31.22000	-49.40000	0.00000	1.01181	-2.75694	-0.55332
10	10	29.66000	-49.40000	0.00000	0.94284	-2.82689	-0.57965
10	10	28.10000	-49.40000	0.00000	0.86826	-2.89291	-0.60448
10	10	26.54000	-49.40000	0.00000	0.78829	-2.95432	-0.62755
10	10	24.98000	-49.40000	0.00000	0.70325	-3.01045	-0.64860
10	10	23.42000	-49.40000	0.00000	0.61354	-3.06068	-0.66739
10	10	21.86000	-49.40000	0.00000	0.51965	-3.10441	-0.68372
10	10	20.30000	-49.40000	0.00000	0.42213	-3.14112	-0.69737
10	10	18.74000	-49.40000	0.00000	0.32162	-3.17037	-0.70820
10	10	17.18000	-49.40000	0.00000	0.21880	-3.19180	-0.71607
10	10	15.62000	-49.40000	0.00000	0.11441	-3.20513	-0.72088
10	10	14.06000	-49.40000	0.00000	0.00921	-3.21022	-0.72257
10	10	12.50000	-49.40000	0.00000	-0.09603	-3.20699	-0.72114
11	11	12.50000	-49.40000	0.00000	-0.09603	-3.20699	-0.72114
11	11	12.50000	-47.78265	0.00000	-0.10414	-3.37399	-0.82975
11	11	12.50000	-46.16530	0.00000	-0.11326	-3.55688	-0.95142
11	11	12.50000	-44.54796	0.00000	-0.12358	-3.75782	-1.08782
11	11	12.50000	-42.93061	0.00000	-0.13529	-3.97935	-1.24089
11	11	12.50000	-41.31326	0.00000	-0.14865	-4.22444	-1.41289
11	11	12.50000	-39.69591	0.00000	-0.16396	-4.49664	-1.60644
11	11	12.50000	-38.07857	0.00000	-0.18158	-4.80013	-1.82466
11	11	12.50000	-36.46122	0.00000	-0.20197	-5.13992	-2.07125
11	11	12.50000	-34.84387	0.00000	-0.22571	-5.52199	-2.35063
11	11	12.50000	-33.22652	0.00000	-0.25348	-5.95352	-2.66819
11	11	12.50000	-31.60917	0.00000	-0.28618	-6.44308	-3.03052
11	11	12.50000	-29.99183	0.00000	-0.32489	-7.00094	-3.44584
11	11	12.50000	-28.37448	0.00000	-0.37099	-7.63926	-3.92449
11	11	12.50000	-26.75713	0.00000	-0.42621	-8.37222	-4.47975
11	11	12.50000	-25.13978	0.00000	-0.49274	-9.21586	-5.12891
11	11	12.50000	-23.52243	0.00000	-0.57332	-10.18714	-5.89497
11	11	12.50000	-21.90509	0.00000	-0.67142	-11.30150	-6.80902
11	11	12.50000	-20.28774	0.00000	-0.79153	-12.56701	-7.91389
11	11	12.50000	-18.67039	0.00000	-0.93957	-13.97207	-9.26946
11	11	12.50000	-17.05304	0.00000	-1.12406	-15.46208	-10.96095
11	11	12.50000	-15.43570	0.00000	-1.35892	-16.90384	-13.11565
11	11	12.50000	-13.81835	0.00000	-1.67230	-18.05597	-15.96974
11	11	12.50000	-12.20100	0.00000	-2.12049	-18.56474	-20.58329
12	12	-10.40000	-1.00000	0.00000	-9.39596	1.19322	-4.98832
12	12	-11.77000	-1.00000	0.00000	-8.58348	1.02850	-4.40117
12	12	-13.14000	-1.00000	0.00000	-7.87405	0.89278	-3.89830
12	12	-14.51000	-1.00000	0.00000	-7.25340	0.78030	-3.46346
12	12	-15.88000	-1.00000	0.00000	-6.70862	0.68646	-3.08442
12	12	-17.25000	-1.00000	0.00000	-6.22850	0.60766	-2.75178
12	12	-18.62000	-1.00000	0.00000	-5.80354	0.54102	-2.45821
12	12	-19.99000	-1.00000	0.00000	-5.42570	0.48430	-2.19789
12	12	-21.36000	-1.00000	0.00000	-5.08829	0.43571	-1.96613
12	12	-22.73000	-1.00000	0.00000	-4.78569	0.39383	-1.75909
12	12	-24.10000	-1.00000	0.00000	-4.51318	0.35752	-1.57360
13	13	-24.10000	-1.00000	0.00000	-4.51318	0.35752	-1.57360
13	13	-24.10000	-2.53000	0.00000	-4.54061	0.16500	-1.58480
13	13	-24.10000	-4.06000	0.00000	-4.54692	-0.02967	-1.58733
13	13	-24.10000	-5.59000	0.00000	-4.53198	-0.22369	-1.58116
13	13	-24.10000	-7.12000	0.00000	-4.49619	-0.41433	-1.56642
13	13	-24.10000	-8.65000	0.00000	-4.44052	-0.59897	-1.54343
13	13	-24.10000	-10.18000	0.00000	-4.36636	-0.77526	-1.51269
13	13	-24.10000	-11.71000	0.00000	-4.27555	-0.94118	-1.47483
13	13	-24.10000	-13.24000	0.00000	-4.17018	-1.09512	-1.43059
13	13	-24.10000	-14.77000	0.00000	-4.05254	-1.23589	-1.38080
13	13	-24.10000	-16.30000	0.00000	-3.92500	-1.36273	-1.32633
14	14	-10.40000	-1.00000	0.00000	-9.39596	1.19322	-4.98832
14	14	-10.40000	-2.34000	0.00000	-9.53028	0.61710	-5.04769



Ref.	Name	x [m]	y [m]	z [mOD]	δx [mm]	δy [mm]	δz [mm]
14	14	-10.40000	-3.68000	0.00000	-9.57535	0.02593	-5.06735
14	14	-10.40000	-5.02000	0.00000	-9.52965	-0.56464	-5.04670
14	14	-10.40000	-6.36000	0.00000	-9.39528	-1.13908	-4.98670
14	14	-10.40000	-7.70000	0.00000	-9.17786	-1.68275	-4.88979
15	15	-10.40000	-7.70000	0.00000	-9.17786	-1.68275	-4.88979
15	15	-11.76667	-7.70000	0.00000	-8.40838	-1.44572	-4.32463
15	15	-13.13333	-7.70000	0.00000	-7.73287	-1.25073	-3.83813
15	15	-14.50000	-7.70000	0.00000	-7.13902	-1.08935	-3.41570
16	16	-14.50000	-7.70000	0.00000	-7.13902	-1.08935	-3.41570
16	16	-14.50000	-9.00000	0.00000	-6.97971	-1.41666	-3.34740
16	16	-14.50000	-10.30000	0.00000	-6.78471	-1.71851	-3.26318
16	16	-14.50000	-11.60000	0.00000	-6.55976	-1.99103	-3.16509
16	16	-14.50000	-12.90000	0.00000	-6.31110	-2.23167	-3.05537
17	17	-14.50000	-12.90000	0.00000	-6.31110	-2.23167	-3.05537
17	17	-15.77500	-12.90000	0.00000	-5.94265	-1.99653	-2.76406
17	17	-17.05000	-12.90000	0.00000	-5.60605	-1.79383	-2.50178
17	17	-18.32500	-12.90000	0.00000	-5.29834	-1.61828	-2.26502
17	17	-19.60000	-12.90000	0.00000	-5.01667	-1.46555	-2.05081
18	18	-19.60000	-12.90000	0.00000	-5.01667	-1.46555	-2.05081
18	18	-19.60000	-14.03333	0.00000	-4.88545	-1.60348	-1.99372
18	18	-19.60000	-15.16667	0.00000	-4.74643	-1.72859	-1.93264
18	18	-19.60000	-16.30000	0.00000	-4.60143	-1.84075	-1.86824
19	19	-19.60000	-16.30000	0.00000	-4.60143	-1.84075	-1.86824
19	19	-21.06667	-16.30000	0.00000	-4.36253	-1.66268	-1.67275
19	19	-22.53333	-16.30000	0.00000	-4.14199	-1.50738	-1.49621
19	19	-24.00000	-16.30000	0.00000	-3.93831	-1.37138	-1.33663

**Results : Consolidation : Displacement Data : Lines**

None

**Results : Total : Displacement Data : Lines**

None

**Results : Immediate : Displacement Data : Grids**

Ref.	Name	x [m]	y [m]	z [mOD]	δx [mm]	δy [mm]	δz [mm]
1	1	0.00000	-12.20000	-6.40000	-0.51726	-0.35165	-12.95093
1	1	0.00000	-11.25000	-6.40000	-0.64586	-0.14337	-15.09788
1	1	0.00000	-10.30000	-6.40000	-0.66693	0.04526	-16.34104
1	1	0.00000	-9.35000	-6.40000	-0.64175	0.20405	-17.28802
1	1	0.00000	-8.40000	-6.40000	-0.58675	0.32070	-18.05862
1	1	0.00000	-7.45000	-6.40000	-0.51432	0.38281	-18.69569
1	1	0.00000	-6.50000	-6.40000	-0.43691	0.38158	-19.21084
1	1	0.00000	-5.55000	-6.40000	-0.36737	0.31607	-19.59979
1	1	0.00000	-4.60000	-6.40000	-0.31754	0.19564	-19.85141
1	1	0.00000	-3.65000	-6.40000	-0.29630	0.03931	-19.95448
1	1	0.00000	-2.70000	-6.40000	-0.30811	-0.12761	-19.90198
1	1	0.00000	-1.75000	-6.40000	-0.35215	-0.27780	-19.69291
1	1	0.00000	-0.80000	-6.40000	-0.42238	-0.38634	-19.33192
1	1	0.00000	0.15000	-6.40000	-0.50834	-0.43508	-18.82667
1	1	0.00000	1.10000	-6.40000	-0.59661	-0.41572	-18.18211
1	1	0.00000	2.05000	-6.40000	-0.67253	-0.33040	-17.39080
1	1	0.00000	3.00000	-6.40000	-0.72082	-0.18895	-16.41555
1	1	0.00000	3.95000	-6.40000	-0.72234	-0.00463	-15.14169
1	1	0.00000	4.90000	-6.40000	-0.61383	0.20953	-12.96521
1	1	0.98519	-12.20000	-6.40000	-0.34136	-0.48822	-15.19012
1	1	0.98519	-11.25000	-6.40000	-0.38974	-0.18872	-18.43915
1	1	0.98519	-10.30000	-6.40000	-0.39731	0.05363	-20.02815
1	1	0.98519	-9.35000	-6.40000	-0.36878	0.24823	-21.16872
1	1	0.98519	-8.40000	-6.40000	-0.31445	0.38809	-22.07318
1	1	0.98519	-7.45000	-6.40000	-0.24496	0.46119	-22.81283
1	1	0.98519	-6.50000	-6.40000	-0.17189	0.45799	-23.40886
1	1	0.98519	-5.55000	-6.40000	-0.10731	0.37766	-23.85888
1	1	0.98519	-4.60000	-6.40000	-0.06241	0.23158	-24.15050
1	1	0.98519	-3.65000	-6.40000	-0.04555	0.04263	-24.27051
1	1	0.98519	-2.70000	-6.40000	-0.06083	-0.15875	-24.21052
1	1	0.98519	-1.75000	-6.40000	-0.10734	-0.33975	-23.96916
1	1	0.98519	-0.80000	-6.40000	-0.17917	-0.47043	-23.55163
1	1	0.98519	0.15000	-6.40000	-0.26623	-0.52877	-22.96612



# GROUND AND WATER LIMITED

Job No.	Sheet No.	Rev.
Drg. Ref.		
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Ref.	Name	x [m]	y [m]	z [mOD]	δx [mm]	δy [mm]	δz [mm]
1	1	0.98519	1.10000	-6.40000	-0.35570	-0.50445	-22.21598
1	1	0.98519	2.05000	-6.40000	-0.43385	-0.39914	-21.28539
1	1	0.98519	3.00000	-6.40000	-0.48719	-0.22210	-20.11015
1	1	0.98519	3.95000	-6.40000	-0.50285	0.01815	-18.48426
1	1	0.98519	4.90000	-6.40000	-0.47430	0.32725	-15.20043
1	1	1.97037	-12.20000	-6.40000	-0.17726	-0.52631	-16.48799
1	1	1.97037	-11.25000	-6.40000	-0.18682	-0.20280	-20.06731
1	1	1.97037	-10.30000	-6.40000	-0.17567	0.07190	-21.88965
1	1	1.97037	-9.35000	-6.40000	-0.14179	0.29357	-23.19125
1	1	1.97037	-8.40000	-6.40000	-0.08968	0.45192	-24.21549
1	1	1.97037	-7.45000	-6.40000	-0.02698	0.53321	-25.04930
1	1	1.97037	-6.50000	-6.40000	0.03677	0.52666	-25.72000
1	1	1.97037	-5.55000	-6.40000	0.09128	0.43142	-26.22627
1	1	1.97037	-4.60000	-6.40000	0.12698	0.26067	-26.55440
1	1	1.97037	-3.65000	-6.40000	0.13671	0.04088	-26.68936
1	1	1.97037	-2.70000	-6.40000	0.11711	-0.19285	-26.62153
1	1	1.97037	-1.75000	-6.40000	0.06918	-0.40270	-26.34927
1	1	1.97037	-0.80000	-6.40000	-0.00168	-0.55411	-25.87835
1	1	1.97037	0.15000	-6.40000	-0.08649	-0.62166	-25.21769
1	1	1.97037	1.10000	-6.40000	-0.17407	-0.59341	-24.36989
1	1	1.97037	2.05000	-6.40000	-0.25286	-0.47121	-23.31406
1	1	1.97037	3.00000	-6.40000	-0.31270	-0.26593	-21.97162
1	1	1.97037	3.95000	-6.40000	-0.34686	0.01000	-20.10659
1	1	1.97037	4.90000	-6.40000	-0.35582	0.34777	-16.48766
1	1	2.95556	-12.20000	-6.40000	-0.02258	-0.53006	-17.47650
1	1	2.95556	-11.25000	-6.40000	-0.01069	-0.19324	-21.23263
1	1	2.95556	-10.30000	-6.40000	0.01304	0.09992	-23.20752
1	1	2.95556	-9.35000	-6.40000	0.04995	0.33890	-24.63227
1	1	2.95556	-8.40000	-6.40000	0.09754	0.50926	-25.75573
1	1	2.95556	-7.45000	-6.40000	0.15042	0.59469	-26.67014
1	1	2.95556	-6.50000	-6.40000	0.20133	0.58294	-27.40527
1	1	2.95556	-5.55000	-6.40000	0.24223	0.47303	-27.95979
1	1	2.95556	-4.60000	-6.40000	0.26565	0.27966	-28.31870
1	1	2.95556	-3.65000	-6.40000	0.26612	0.03228	-28.46546
1	1	2.95556	-2.70000	-6.40000	0.24121	-0.23004	-28.38944
1	1	2.95556	-1.75000	-6.40000	0.19207	-0.46524	-28.08887
1	1	2.95556	-0.80000	-6.40000	0.12338	-0.63492	-27.57014
1	1	2.95556	0.15000	-6.40000	0.04265	-0.71090	-26.84309
1	1	2.95556	1.10000	-6.40000	-0.04101	-0.68016	-25.91061
1	1	2.95556	2.05000	-6.40000	-0.11847	-0.54528	-24.75018
1	1	2.95556	3.00000	-6.40000	-0.18227	-0.31968	-23.27896
1	1	2.95556	3.95000	-6.40000	-0.22814	-0.02050	-21.25632
1	1	2.95556	4.90000	-6.40000	-0.25630	0.33632	-17.45662
1	1	3.94074	-12.20000	-6.40000	0.12572	-0.51405	-18.28586
1	1	3.94074	-11.25000	-6.40000	0.15064	-0.16949	-22.15675
1	1	3.94074	-10.30000	-6.40000	0.18148	0.13365	-24.23783
1	1	3.94074	-9.35000	-6.40000	0.21840	0.38181	-25.75534
1	1	3.94074	-8.40000	-6.40000	0.25942	0.55772	-26.95755
1	1	3.94074	-7.45000	-6.40000	0.30063	0.64293	-27.93743
1	1	3.94074	-6.50000	-6.40000	0.33681	0.62400	-28.72500
1	1	3.94074	-5.55000	-6.40000	0.36223	0.49983	-29.31832
1	1	3.94074	-4.60000	-6.40000	0.37164	0.28632	-29.70120
1	1	3.94074	-3.65000	-6.40000	0.36137	0.01532	-29.85596
1	1	3.94074	-2.70000	-6.40000	0.33004	-0.27099	-29.77128
1	1	3.94074	-1.75000	-6.40000	0.27899	-0.52724	-29.44539
1	1	3.94074	-0.80000	-6.40000	0.21220	-0.71207	-28.88531
1	1	3.94074	0.15000	-6.40000	0.13570	-0.79528	-28.10191
1	1	3.94074	1.10000	-6.40000	0.05660	-0.76316	-27.09900
1	1	3.94074	2.05000	-6.40000	-0.01816	-0.61915	-25.85444
1	1	3.94074	3.00000	-6.40000	-0.08298	-0.37896	-24.28541
1	1	3.94074	3.95000	-6.40000	-0.13466	-0.06317	-22.15247
1	1	3.94074	4.90000	-6.40000	-0.17278	0.30853	-18.23516
1	1	4.92593	-12.20000	-6.40000	0.27079	-0.48495	-18.97350
1	1	4.92593	-11.25000	-6.40000	0.30451	-0.13714	-22.92661
1	1	4.92593	-10.30000	-6.40000	0.33923	0.16961	-25.08560
1	1	4.92593	-9.35000	-6.40000	0.37414	0.42025	-26.67342
1	1	4.92593	-8.40000	-6.40000	0.40741	0.59585	-27.93673
1	1	4.92593	-7.45000	-6.40000	0.43620	0.67669	-28.96774
1	1	4.92593	-6.50000	-6.40000	0.45703	0.64858	-29.79588
1	1	4.92593	-5.55000	-6.40000	0.46628	0.51051	-30.41842
1	1	4.92593	-4.60000	-6.40000	0.46083	0.27936	-30.81827
1	1	4.92593	-3.65000	-6.40000	0.43876	-0.01125	-30.97700
1	1	4.92593	-2.70000	-6.40000	0.39977	-0.31687	-30.88290
1	1	4.92593	-1.75000	-6.40000	0.34547	-0.58970	-30.53434
1	1	4.92593	-0.80000	-6.40000	0.27923	-0.78631	-29.93900
1	1	4.92593	0.15000	-6.40000	0.20583	-0.87512	-29.10871
1	1	4.92593	1.10000	-6.40000	0.13068	-0.84204	-28.04841



**GROUND AND WATER  
LIMITED**

Job No.	Sheet No.	Rev.
Drg. Ref.		
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Ref.	Name	x [m]	y [m]	z [mOD]	δx [mm]	δy [mm]	δz [mm]
1	1	4.92593	2.05000	-6.40000	0.05897	-0.69127	-26.73708
1	1	4.92593	3.00000	-6.40000	-0.00511	-0.44022	-25.09316
1	1	4.92593	3.95000	-6.40000	-0.05903	-0.11176	-22.87920
1	1	4.92593	4.90000	-6.40000	-0.10206	0.27210	-18.87816
1	1	5.91111	-12.20000	-6.40000	0.41524	-0.44585	-19.57188
1	1	5.91111	-11.25000	-6.40000	0.45600	-0.09896	-23.58766
1	1	5.91111	-10.30000	-6.40000	0.49321	0.20594	-25.80607
1	1	5.91111	-9.35000	-6.40000	0.52532	0.45317	-27.44776
1	1	5.91111	-8.40000	-6.40000	0.55052	0.62315	-28.75779
1	1	5.91111	-7.45000	-6.40000	0.56684	0.69567	-29.82737
1	1	5.91111	-6.50000	-6.40000	0.57232	0.65638	-30.68520
1	1	5.91111	-5.55000	-6.40000	0.56524	0.50459	-31.32794
1	1	5.91111	-4.60000	-6.40000	0.54447	0.25797	-31.73799
1	1	5.91111	-3.65000	-6.40000	0.50971	-0.04861	-31.89655
1	1	5.91111	-2.70000	-6.40000	0.46172	-0.36916	-31.79185
1	1	5.91111	-1.75000	-6.40000	0.40245	-0.65433	-31.42254
1	1	5.91111	-0.80000	-6.40000	0.33489	-0.85935	-30.79688
1	1	5.91111	0.15000	-6.40000	0.26280	-0.95180	-29.92759
1	1	5.91111	1.10000	-6.40000	0.19025	-0.91748	-28.82069
1	1	5.91111	2.05000	-6.40000	0.12107	-0.76117	-27.45631
1	1	5.91111	3.00000	-6.40000	0.05832	-0.50149	-25.75427
1	1	5.91111	3.95000	-6.40000	0.00396	-0.16286	-23.47884
1	1	5.91111	4.90000	-6.40000	-0.04126	0.23125	-19.41518
1	1	6.89630	-12.20000	-6.40000	0.56056	-0.39775	-20.10249
1	1	6.89630	-11.25000	-6.40000	0.60814	-0.05584	-24.16847
1	1	6.89630	-10.30000	-6.40000	0.64776	0.24209	-26.43376
1	1	6.89630	-9.35000	-6.40000	0.67715	0.48041	-28.11717
1	1	6.89630	-8.40000	-6.40000	0.69451	0.63970	-29.46241
1	1	6.89630	-7.45000	-6.40000	0.69861	0.70003	-30.55983
1	1	6.89630	-6.50000	-6.40000	0.68886	0.64745	-31.43763
1	1	6.89630	-5.55000	-6.40000	0.66536	0.48180	-32.09222
1	1	6.89630	-4.60000	-6.40000	0.62879	0.22146	-32.50593
1	1	6.89630	-3.65000	-6.40000	0.58042	-0.09792	-32.66004
1	1	6.89630	-2.70000	-6.40000	0.52210	-0.42950	-32.54302
1	1	6.89630	-1.75000	-6.40000	0.45614	-0.72307	-32.15390
1	1	6.89630	-0.80000	-6.40000	0.38531	-0.93321	-31.50151
1	1	6.89630	0.15000	-6.40000	0.31262	-1.02715	-30.59931
1	1	6.89630	1.10000	-6.40000	0.24110	-0.99071	-29.45417
1	1	6.89630	2.05000	-6.40000	0.17349	-0.82917	-28.04723
1	1	6.89630	3.00000	-6.40000	0.11196	-0.56202	-26.29941
1	1	6.89630	3.95000	-6.40000	0.05791	-0.21470	-23.97626
1	1	6.89630	4.90000	-6.40000	0.01191	0.18830	-19.86442
1	1	7.88148	-12.20000	-6.40000	0.70636	-0.34033	-20.58112
1	1	7.88148	-11.25000	-6.40000	0.76149	-0.00744	-24.68935
1	1	7.88148	-10.30000	-6.40000	0.80420	0.27845	-26.99295
1	1	7.88148	-9.35000	-6.40000	0.83149	0.50237	-28.70908
1	1	7.88148	-8.40000	-6.40000	0.84148	0.64585	-30.08028
1	1	7.88148	-7.45000	-6.40000	0.83362	0.68996	-31.19630
1	1	7.88148	-6.50000	-6.40000	0.80869	0.62173	-32.08522
1	1	7.88148	-5.55000	-6.40000	0.76849	0.44180	-32.74372
1	1	7.88148	-4.60000	-6.40000	0.71556	0.16910	-33.15461
1	1	7.88148	-3.65000	-6.40000	0.65271	-0.16034	-33.29969
1	1	7.88148	-2.70000	-6.40000	0.58285	-0.49941	-33.16798
1	1	7.88148	-1.75000	-6.40000	0.50874	-0.79774	-32.75901
1	1	7.88148	-0.80000	-6.40000	0.43301	-1.00982	-32.08216
1	1	7.88148	0.15000	-6.40000	0.35812	-1.10290	-31.15144
1	1	7.88148	1.10000	-6.40000	0.28626	-1.06304	-29.97435
1	1	7.88148	2.05000	-6.40000	0.21930	-0.89595	-28.53274
1	1	7.88148	3.00000	-6.40000	0.15862	-0.62172	-26.74832
1	1	7.88148	3.95000	-6.40000	0.10509	-0.26651	-24.38754
1	1	7.88148	4.90000	-6.40000	0.05904	0.14452	-20.23797
1	1	8.86667	-12.20000	-6.40000	0.84970	-0.27266	-21.01986
1	1	8.86667	-11.25000	-6.40000	0.91342	0.04719	-25.16564
1	1	8.86667	-10.30000	-6.40000	0.96022	0.31587	-27.50189
1	1	8.86667	-9.35000	-6.40000	0.98623	0.51973	-29.24406
1	1	8.86667	-8.40000	-6.40000	0.98939	0.64200	-30.63361
1	1	8.86667	-7.45000	-6.40000	0.96982	0.66558	-31.75999
1	1	8.86667	-6.50000	-6.40000	0.92965	0.57906	-32.65169
1	1	8.86667	-5.55000	-6.40000	0.87250	0.38415	-33.30626
1	1	8.86667	-4.60000	-6.40000	0.80275	0.10021	-33.70763
1	1	8.86667	-3.65000	-6.40000	0.72483	-0.23677	-33.83866
1	1	8.86667	-2.70000	-6.40000	0.64267	-0.58004	-33.68923
1	1	8.86667	-1.75000	-6.40000	0.55951	-0.87967	-33.25951
1	1	8.86667	-0.80000	-6.40000	0.47789	-1.09058	-32.55934
1	1	8.86667	0.15000	-6.40000	0.39978	-1.18038	-31.60311
1	1	8.86667	1.10000	-6.40000	0.32669	-1.13551	-30.39871
1	1	8.86667	2.05000	-6.40000	0.25974	-0.96210	-28.92838



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Job No.	Sheet No.	Rev.
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Ref.	Name	x [m]	y [m]	z [mOD]	δx [mm]	δy [mm]	δz [mm]
1	1	8.86667	3.00000	-6.40000	0.19964	-0.68069	-27.11434
1	1	8.86667	3.95000	-6.40000	0.14675	-0.31790	-24.72355
1	1	8.86667	4.90000	-6.40000	0.10107	0.10067	-20.54419
1	1	9.85185	-12.20000	-6.40000	0.98428	-0.19379	-21.42746
1	1	9.85185	-11.25000	-6.40000	1.05732	0.10906	-25.60854
1	1	9.85185	-10.30000	-6.40000	1.10900	0.35528	-27.97398
1	1	9.85185	-9.35000	-6.40000	1.13444	0.53318	-29.73723
1	1	9.85185	-8.40000	-6.40000	1.13135	0.62859	-31.13870
1	1	9.85185	-7.45000	-6.40000	1.10047	0.62707	-32.26783
1	1	9.85185	-6.50000	-6.40000	1.04534	0.51943	-33.15411
1	1	9.85185	-5.55000	-6.40000	0.97143	0.30869	-33.79677
1	1	9.85185	-4.60000	-6.40000	0.88505	0.01455	-34.18159
1	1	9.85185	-3.65000	-6.40000	0.79221	-0.32755	-34.29312
1	1	9.85185	-2.70000	-6.40000	0.69785	-0.67183	-34.12241
1	1	9.85185	-1.75000	-6.40000	0.60563	-0.96943	-33.67038
1	1	9.85185	-0.80000	-6.40000	0.51799	-1.17612	-32.94722
1	1	9.85185	0.15000	-6.40000	0.43646	-1.26022	-31.96752
1	1	9.85185	1.10000	-6.40000	0.36193	-1.20865	-30.73925
1	1	9.85185	2.05000	-6.40000	0.29486	-1.02792	-29.24480
1	1	9.85185	3.00000	-6.40000	0.23536	-0.73892	-27.40658
1	1	9.85185	3.95000	-6.40000	0.18334	-0.36856	-24.99180
1	1	9.85185	4.90000	-6.40000	0.13846	0.05728	-20.78893
1	1	10.83704	-12.20000	-6.40000	1.10022	-0.10362	-21.80854
1	1	10.83704	-11.25000	-6.40000	1.18219	0.17854	-26.02434
1	1	10.83704	-10.30000	-6.40000	1.23877	0.39721	-28.41702
1	1	10.83704	-9.35000	-6.40000	1.26401	0.54336	-30.19761
1	1	10.83704	-8.40000	-6.40000	1.25534	0.60628	-31.60538
1	1	10.83704	-7.45000	-6.40000	1.21412	0.57512	-32.73010
1	1	10.83704	-6.50000	-6.40000	1.14520	0.44355	-33.60294
1	1	10.83704	-5.55000	-6.40000	1.05591	0.21622	-34.22567
1	1	10.83704	-4.60000	-6.40000	0.95439	-0.08706	-34.58681
1	1	10.83704	-3.65000	-6.40000	0.84814	-0.43189	-34.67320
1	1	10.83704	-2.70000	-6.40000	0.74301	-0.77411	-34.47746
1	1	10.83704	-1.75000	-6.40000	0.64296	-1.06648	-34.00127
1	1	10.83704	-0.80000	-6.40000	0.55028	-1.26611	-33.25505
1	1	10.83704	0.15000	-6.40000	0.46608	-1.34221	-32.25333
1	1	10.83704	1.10000	-6.40000	0.39069	-1.28228	-31.00393
1	1	10.83704	2.05000	-6.40000	0.32396	-1.09321	-29.48910
1	1	10.83704	3.00000	-6.40000	0.26552	-0.79610	-27.63116
1	1	10.83704	3.95000	-6.40000	0.21483	-0.41808	-25.19735
1	1	10.83704	4.90000	-6.40000	0.17128	0.01488	-20.97619
1	1	11.82222	-12.20000	-6.40000	1.18493	-0.00371	-22.16213
1	1	11.82222	-11.25000	-6.40000	1.27365	0.25467	-26.41269
1	1	11.82222	-10.30000	-6.40000	1.33384	0.44139	-28.83133
1	1	11.82222	-9.35000	-6.40000	1.35865	0.55070	-30.62620
1	1	11.82222	-8.40000	-6.40000	1.34531	0.57622	-32.03533
1	1	11.82222	-7.45000	-6.40000	1.29566	0.51147	-33.14913
1	1	11.82222	-6.50000	-6.40000	1.21571	0.35363	-34.00111
1	1	11.82222	-5.55000	-6.40000	1.11431	0.10920	-34.59646
1	1	11.82222	-4.60000	-6.40000	1.00114	-0.20206	-34.92732
1	1	11.82222	-3.65000	-6.40000	0.88489	-0.54732	-34.98346
1	1	11.82222	-2.70000	-6.40000	0.77210	-0.88467	-34.75932
1	1	11.82222	-1.75000	-6.40000	0.66688	-1.16901	-34.25735
1	1	11.82222	-0.80000	-6.40000	0.57135	-1.35909	-33.48806
1	1	11.82222	0.15000	-6.40000	0.48621	-1.42521	-32.46566
1	1	11.82222	1.10000	-6.40000	0.41131	-1.35552	-31.19757
1	1	11.82222	2.05000	-6.40000	0.34602	-1.15722	-29.66564
1	1	11.82222	3.00000	-6.40000	0.28953	-0.85159	-27.79191
1	1	11.82222	3.95000	-6.40000	0.24096	-0.46582	-25.34341
1	1	11.82222	4.90000	-6.40000	0.19943	-0.02590	-21.10856
1	1	12.80741	-12.20000	-6.40000	1.22595	0.10209	-22.48055
1	1	12.80741	-11.25000	-6.40000	1.31716	0.33464	-26.76512
1	1	12.80741	-10.30000	-6.40000	1.37816	0.48644	-29.20806
1	1	12.80741	-9.35000	-6.40000	1.40166	0.55547	-31.01428
1	1	12.80741	-8.40000	-6.40000	1.38481	0.54028	-32.42049
1	1	12.80741	-7.45000	-6.40000	1.32979	0.43938	-33.51800
1	1	12.80741	-6.50000	-6.40000	1.24334	0.25390	-34.34319
1	1	12.80741	-5.55000	-6.40000	1.13522	-0.00764	-34.90538
1	1	12.80741	-4.60000	-6.40000	1.01605	-0.32571	-35.20098
1	1	12.80741	-3.65000	-6.40000	0.89518	-0.66947	-35.22318
1	1	12.80741	-2.70000	-6.40000	0.77949	-0.99970	-34.96842
1	1	12.80741	-1.75000	-6.40000	0.67314	-1.27384	-34.43993
1	1	12.80741	-0.80000	-6.40000	0.57805	-1.45251	-33.64810
1	1	12.80741	0.15000	-6.40000	0.49458	-1.50723	-32.60666
1	1	12.80741	1.10000	-6.40000	0.42222	-1.42678	-31.32238
1	1	12.80741	2.05000	-6.40000	0.35999	-1.21869	-29.77657
1	1	12.80741	3.00000	-6.40000	0.30675	-0.90434	-27.89078





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Ref.	Name	x [m]	y [m]	z [mOD]	δx [mm]	δy [mm]	δz [mm]
1	1	12.80741	3.95000	-6.40000	0.26136	-0.51088	-25.43166
1	1	12.80741	4.90000	-6.40000	0.22275	-0.06427	-21.18739
1	1	13.79259	-12.20000	-6.40000	1.21509	0.20784	-22.74998
1	1	13.79259	-11.25000	-6.40000	1.30302	0.41393	-27.06569
1	1	13.79259	-10.30000	-6.40000	1.36094	0.52990	-29.52986
1	1	13.79259	-9.35000	-6.40000	1.38171	0.55770	-31.34407
1	1	13.79259	-8.40000	-6.40000	1.36264	0.50099	-32.74379
1	1	13.79259	-7.45000	-6.40000	1.30605	0.36347	-33.82134
1	1	13.79259	-6.50000	-6.40000	1.21883	0.15042	-34.61623
1	1	13.79259	-5.55000	-6.40000	1.11084	-0.12761	-35.14221
1	1	13.79259	-4.60000	-6.40000	0.99275	-0.45141	-35.40027
1	1	13.79259	-3.65000	-6.40000	0.87396	-0.79232	-35.38717
1	1	13.79259	-2.70000	-6.40000	0.76126	-1.11405	-35.10146
1	1	13.79259	-1.75000	-6.40000	0.65872	-1.37671	-34.54706
1	1	13.79259	-0.80000	-6.40000	0.56808	-1.54295	-33.73420
1	1	13.79259	0.15000	-6.40000	0.48951	-1.58553	-32.67598
1	1	13.79259	1.10000	-6.40000	0.42225	-1.49393	-31.37844
1	1	13.79259	2.05000	-6.40000	0.36511	-1.27593	-29.82218
1	1	13.79259	3.00000	-6.40000	0.31674	-0.95299	-27.92814
1	1	13.79259	3.95000	-6.40000	0.27583	-0.55217	-25.46249
1	1	13.79259	4.90000	-6.40000	0.24118	-0.09932	-21.21302
1	1	14.77778	-12.20000	-6.40000	1.15168	0.30666	-22.95339
1	1	14.77778	-11.25000	-6.40000	1.23042	0.48720	-27.29455
1	1	14.77778	-10.30000	-6.40000	1.28122	0.56882	-29.77489
1	1	14.77778	-9.35000	-6.40000	1.29769	0.55723	-31.59302
1	1	14.77778	-8.40000	-6.40000	1.27753	0.46102	-32.98326
1	1	14.77778	-7.45000	-6.40000	1.22304	0.28887	-34.03905
1	1	14.77778	-6.50000	-6.40000	1.14066	0.04995	-34.80289
1	1	14.77778	-5.55000	-6.40000	1.03957	-0.24322	-35.29280
1	1	14.77778	-4.60000	-6.40000	0.92966	-0.57178	-35.51414
1	1	14.77778	-3.65000	-6.40000	0.81967	-0.90917	-35.46710
1	1	14.77778	-2.70000	-6.40000	0.71597	-1.22193	-35.15224
1	1	14.77778	-1.75000	-6.40000	0.62236	-1.47284	-34.57421
1	1	14.77778	-0.80000	-6.40000	0.54041	-1.62652	-33.74303
1	1	14.77778	0.15000	-6.40000	0.47020	-1.65701	-32.67118
1	1	14.77778	1.10000	-6.40000	0.41085	-1.55446	-31.36393
1	1	14.77778	2.05000	-6.40000	0.36105	-1.32695	-29.80110
1	1	14.77778	3.00000	-6.40000	0.31935	-0.99594	-27.90295
1	1	14.77778	3.95000	-6.40000	0.28435	-0.58842	-25.43510
1	1	14.77778	4.90000	-6.40000	0.25480	-0.13004	-21.18483
1	1	15.76296	-12.20000	-6.40000	1.04273	0.39234	-23.07465
1	1	15.76296	-11.25000	-6.40000	1.10757	0.54963	-27.43296
1	1	15.76296	-10.30000	-6.40000	1.14798	0.60042	-29.92257
1	1	15.76296	-9.35000	-6.40000	1.15877	0.55376	-31.73968
1	1	15.76296	-8.40000	-6.40000	1.13821	0.42258	-33.11780
1	1	15.76296	-7.45000	-6.40000	1.08844	0.21992	-34.15139
1	1	15.76296	-6.50000	-6.40000	1.01510	-0.04163	-34.88562
1	1	15.76296	-5.55000	-6.40000	0.92610	-0.34785	-35.34219
1	1	15.76296	-4.60000	-6.40000	0.82999	-0.68015	-35.53022
1	1	15.76296	-3.65000	-6.40000	0.73435	-1.01380	-35.45294
1	1	15.76296	-2.70000	-6.40000	0.64478	-1.31787	-35.11271
1	1	15.76296	-1.75000	-6.40000	0.56466	-1.55754	-34.51485
1	1	15.76296	-0.80000	-6.40000	0.49536	-1.69931	-33.66929
1	1	15.76296	0.15000	-6.40000	0.43685	-1.71843	-32.58792
1	1	15.76296	1.10000	-6.40000	0.38821	-1.60574	-31.27527
1	1	15.76296	2.05000	-6.40000	0.34805	-1.36960	-29.71040
1	1	15.76296	3.00000	-6.40000	0.31487	-1.03149	-27.81284
1	1	15.76296	3.95000	-6.40000	0.28727	-0.61826	-25.34755
1	1	15.76296	4.90000	-6.40000	0.26399	-0.15535	-21.10128
1	1	16.74815	-12.20000	-6.40000	0.89974	0.46047	-23.10134
1	1	16.74815	-11.25000	-6.40000	0.94781	0.59778	-27.46673
1	1	16.74815	-10.30000	-6.40000	0.97579	0.62264	-29.95735
1	1	16.74815	-9.35000	-6.40000	0.97989	0.54686	-31.76772
1	1	16.74815	-8.40000	-6.40000	0.95902	0.38690	-33.13094
1	1	16.74815	-7.45000	-6.40000	0.91518	0.15934	-34.14239
1	1	16.74815	-6.50000	-6.40000	0.85304	-0.12048	-34.84943
1	1	16.74815	-5.55000	-6.40000	0.77905	-0.43696	-35.27670
1	1	16.74815	-4.60000	-6.40000	0.70015	-0.77172	-35.43631
1	1	16.74815	-3.65000	-6.40000	0.62254	-1.10149	-35.33392
1	1	16.74815	-2.70000	-6.40000	0.55081	-1.39742	-34.97343
1	1	16.74815	-1.75000	-6.40000	0.48775	-1.62679	-34.36079
1	1	16.74815	-0.80000	-6.40000	0.43441	-1.75777	-33.50585
1	1	16.74815	0.15000	-6.40000	0.39059	-1.76674	-32.42003
1	1	16.74815	1.10000	-6.40000	0.35525	-1.64521	-31.10717
1	1	16.74815	2.05000	-6.40000	0.32693	-1.40178	-29.54556
1	1	16.74815	3.00000	-6.40000	0.30410	-1.05794	-27.65401
1	1	16.74815	3.95000	-6.40000	0.28532	-0.64036	-25.19676



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Ref.	Name	x [m]	y [m]	z [mOD]	δx [mm]	δy [mm]	δz [mm]
1	1	16.74815	4.90000	-6.40000	0.26940	-0.17425	-20.95991
1	1	17.73333	-12.20000	-6.40000	0.73486	0.50872	-23.02501
1	1	17.73333	-11.25000	-6.40000	0.76493	0.62983	-27.38638
1	1	17.73333	-10.30000	-6.40000	0.77951	0.63428	-29.86882
1	1	17.73333	-9.35000	-6.40000	0.77621	0.53602	-31.66598
1	1	17.73333	-8.40000	-6.40000	0.75464	0.35419	-33.01090
1	1	17.73333	-7.45000	-6.40000	0.71665	0.10804	-33.99986
1	1	17.73333	-6.50000	-6.40000	0.66606	-0.18502	-34.68194
1	1	17.73333	-5.55000	-6.40000	0.60792	-0.50837	-35.08397
1	1	17.73333	-4.60000	-6.40000	0.54760	-0.84382	-35.22032
1	1	17.73333	-3.65000	-6.40000	0.48987	-1.16923	-35.09848
1	1	17.73333	-2.70000	-6.40000	0.43826	-1.45745	-34.72353
1	1	17.73333	-1.75000	-6.40000	0.39477	-1.67748	-34.10194
1	1	17.73333	-0.80000	-6.40000	0.35999	-1.79892	-33.24352
1	1	17.73333	0.15000	-6.40000	0.33338	-1.79923	-32.15925
1	1	17.73333	1.10000	-6.40000	0.31365	-1.67047	-30.85232
1	1	17.73333	2.05000	-6.40000	0.29920	-1.42148	-29.30028
1	1	17.73333	3.00000	-6.40000	0.28836	-1.07368	-27.42111
1	1	17.73333	3.95000	-6.40000	0.27970	-0.65349	-24.97829
1	1	17.73333	4.90000	-6.40000	0.27208	-0.18581	-20.75718
1	1	18.71852	-12.20000	-6.40000	0.55838	0.53638	-22.83953
1	1	18.71852	-11.25000	-6.40000	0.57029	0.64515	-27.18497
1	1	18.71852	-10.30000	-6.40000	0.57119	0.63472	-29.64918
1	1	18.71852	-9.35000	-6.40000	0.55998	0.52059	-31.42568
1	1	18.71852	-8.40000	-6.40000	0.53696	0.32383	-32.74787
1	1	18.71852	-7.45000	-6.40000	0.50394	0.06556	-33.71293
1	1	18.71852	-6.50000	-6.40000	0.46405	-0.23538	-34.37127
1	1	18.71852	-5.55000	-6.40000	0.42119	-0.56175	-34.75133
1	1	18.71852	-4.60000	-6.40000	0.37938	-0.89553	-34.86906
1	1	18.71852	-3.65000	-6.40000	0.34209	-1.21555	-34.73327
1	1	18.71852	-2.70000	-6.40000	0.31174	-1.49599	-34.34989
1	1	18.71852	-1.75000	-6.40000	0.28949	-1.70730	-33.72572
1	1	18.71852	-0.80000	-6.40000	0.27526	-1.82037	-32.87048
1	1	18.71852	0.15000	-6.40000	0.26796	-1.81354	-31.79472
1	1	18.71852	1.10000	-6.40000	0.26588	-1.67940	-30.50097
1	1	18.71852	2.05000	-6.40000	0.26707	-1.42690	-28.96596
1	1	18.71852	3.00000	-6.40000	0.26966	-1.07729	-27.10682
1	1	18.71852	3.95000	-6.40000	0.27216	-0.65662	-24.68612
1	1	18.71852	4.90000	-6.40000	0.27352	-0.18936	-20.48830
1	1	19.70370	-12.20000	-6.40000	0.37828	0.54366	-22.53880
1	1	19.70370	-11.25000	-6.40000	0.37245	0.64382	-26.85518
1	1	19.70370	-10.30000	-6.40000	0.35976	0.62370	-29.28980
1	1	19.70370	-9.35000	-6.40000	0.34024	0.49991	-31.03683
1	1	19.70370	-8.40000	-6.40000	0.31488	0.29480	-32.33043
1	1	19.70370	-7.45000	-6.40000	0.28557	0.03069	-33.26871
1	1	19.70370	-6.50000	-6.40000	0.25497	-0.27273	-33.90315
1	1	19.70370	-5.55000	-6.40000	0.22614	-0.59789	-34.26331
1	1	19.70370	-4.60000	-6.40000	0.20201	-0.92708	-34.36624
1	1	19.70370	-3.65000	-6.40000	0.18494	-1.23996	-34.22157
1	1	19.70370	-2.70000	-6.40000	0.17633	-1.51190	-33.83578
1	1	19.70370	-1.75000	-6.40000	0.17641	-1.71463	-33.21581
1	1	19.70370	-0.80000	-6.40000	0.18425	-1.82016	-32.37119
1	1	19.70370	0.15000	-6.40000	0.19803	-1.80767	-31.31197
1	1	19.70370	1.10000	-6.40000	0.21534	-1.67014	-30.03996
1	1	19.70370	2.05000	-6.40000	0.23366	-1.41651	-28.53099
1	1	19.70370	3.00000	-6.40000	0.25080	-1.06765	-26.70119
1	1	19.70370	3.95000	-6.40000	0.26511	-0.64906	-24.31204
1	1	19.70370	4.90000	-6.40000	0.27570	-0.18459	-20.14685
1	1	20.68889	-12.20000	-6.40000	0.20112	0.53135	-22.11466
1	1	20.68889	-11.25000	-6.40000	0.17838	0.62630	-26.38664
1	1	20.68889	-10.30000	-6.40000	0.15247	0.60119	-28.77815
1	1	20.68889	-9.35000	-6.40000	0.12445	0.47336	-30.48484
1	1	20.68889	-8.40000	-6.40000	0.09594	0.26595	-31.74210
1	1	20.68889	-7.45000	-6.40000	0.06906	0.00192	-32.64902
1	1	20.68889	-6.50000	-6.40000	0.04624	-0.29862	-33.25789
1	1	20.68889	-5.55000	-6.40000	0.02996	-0.61809	-33.59902
1	1	20.68889	-4.60000	-6.40000	0.02236	-0.93924	-33.69006
1	1	20.68889	-3.65000	-6.40000	0.02492	-1.24256	-33.54113
1	1	20.68889	-2.70000	-6.40000	0.03812	-1.50457	-33.15895
1	1	20.68889	-1.75000	-6.40000	0.06123	-1.69825	-32.55043
1	1	20.68889	-0.80000	-6.40000	0.09236	-1.79671	-31.72476
1	1	20.68889	0.15000	-6.40000	0.12866	-1.77992	-30.69138
1	1	20.68889	1.10000	-6.40000	0.16676	-1.64115	-29.45128
1	1	20.68889	2.05000	-6.40000	0.20333	-1.38915	-27.97931
1	1	20.68889	3.00000	-6.40000	0.23561	-1.04412	-26.19043
1	1	20.68889	3.95000	-6.40000	0.26178	-0.63068	-23.84476
1	1	20.68889	4.90000	-6.40000	0.28115	-0.17175	-19.72409



# GROUND AND WATER LIMITED

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Ref.	Name	x [m]	y [m]	z [mOD]	δx [mm]	δy [mm]	δz [mm]
1	1	21.67407	-12.20000	-6.40000	0.03353	0.50079	-21.55502
1	1	21.67407	-11.25000	-6.40000	-0.00462	0.59353	-25.76332
1	1	21.67407	-10.30000	-6.40000	-0.04280	0.56752	-28.09462
1	1	21.67407	-9.35000	-6.40000	-0.07910	0.44058	-29.74713
1	1	21.67407	-8.40000	-6.40000	-0.11124	0.23627	-30.95793
1	1	21.67407	-7.45000	-6.40000	-0.13675	-0.02216	-31.82702
1	1	21.67407	-6.50000	-6.40000	-0.15318	-0.31462	-32.40719
1	1	21.67407	-5.55000	-6.40000	-0.15837	-0.62378	-32.72902
1	1	21.67407	-4.60000	-6.40000	-0.15069	-0.93302	-32.81035
1	1	21.67407	-3.65000	-6.40000	-0.12932	-1.22377	-32.66143
1	1	21.67407	-2.70000	-6.40000	-0.09458	-1.47377	-32.28898
1	1	21.67407	-1.75000	-6.40000	-0.04811	-1.65733	-31.69969
1	1	21.67407	-0.80000	-6.40000	0.00709	-1.74879	-30.90228
1	1	21.67407	0.15000	-6.40000	0.06693	-1.72896	-29.90552
1	1	21.67407	1.10000	-6.40000	0.12675	-1.59135	-28.70947
1	1	21.67407	2.05000	-6.40000	0.18205	-1.34424	-27.28796
1	1	21.67407	3.00000	-6.40000	0.22929	-1.00678	-25.55467
1	1	21.67407	3.95000	-6.40000	0.26641	-0.60219	-23.26808
1	1	21.67407	4.90000	-6.40000	0.29308	-0.15201	-19.20778
1	1	22.65926	-12.20000	-6.40000	-0.11629	0.45443	-20.84159
1	1	22.65926	-11.25000	-6.40000	-0.16689	0.54745	-24.96005
1	1	22.65926	-10.30000	-6.40000	-0.21522	0.52377	-27.20821
1	1	22.65926	-9.35000	-6.40000	-0.25873	0.40174	-28.78842
1	1	22.65926	-8.40000	-6.40000	-0.29439	0.20519	-29.93974
1	1	22.65926	-7.45000	-6.40000	-0.31917	-0.04271	-30.76262
1	1	22.65926	-6.50000	-6.40000	-0.33037	-0.32217	-31.30963
1	1	22.65926	-5.55000	-6.40000	-0.32586	-0.61644	-31.61098
1	1	22.65926	-4.60000	-6.40000	-0.30428	-0.90966	-31.68418
1	1	22.65926	-3.65000	-6.40000	-0.26526	-1.18438	-31.53929
1	1	22.65926	-2.70000	-6.40000	-0.20974	-1.41973	-31.18279
1	1	22.65926	-1.75000	-6.40000	-0.14022	-1.59158	-30.62106
1	1	22.65926	-0.80000	-6.40000	-0.06086	-1.67576	-29.86226
1	1	22.65926	0.15000	-6.40000	0.02277	-1.65411	-28.91439
1	1	22.65926	1.10000	-6.40000	0.10436	-1.52038	-27.77670
1	1	22.65926	2.05000	-6.40000	0.17791	-1.28211	-26.42215
1	1	22.65926	3.00000	-6.40000	0.23875	-0.95686	-24.76344
1	1	22.65926	3.95000	-6.40000	0.28445	-0.56566	-22.55721
1	1	22.65926	4.90000	-6.40000	0.31526	-0.12789	-18.57979
1	1	23.64444	-12.20000	-6.40000	-0.23745	0.39698	-19.94554
1	1	23.64444	-11.25000	-6.40000	-0.29470	0.49195	-23.93503
1	1	23.64444	-10.30000	-6.40000	-0.34894	0.47242	-26.06728
1	1	23.64444	-9.35000	-6.40000	-0.39728	0.35792	-27.55106
1	1	23.64444	-8.40000	-6.40000	-0.43559	0.17268	-28.62661
1	1	23.64444	-7.45000	-6.40000	-0.45981	-0.06051	-29.39317
1	1	23.64444	-6.50000	-6.40000	-0.46667	-0.32257	-29.90158
1	1	23.64444	-5.55000	-6.40000	-0.45384	-0.59758	-30.18062
1	1	23.64444	-4.60000	-6.40000	-0.42002	-0.87070	-30.24685
1	1	23.64444	-3.65000	-6.40000	-0.36508	-1.12574	-30.10976
1	1	23.64444	-2.70000	-6.40000	-0.29040	-1.34347	-29.77545
1	1	23.64444	-1.75000	-6.40000	-0.19924	-1.50166	-29.24989
1	1	23.64444	-0.80000	-6.40000	-0.09691	-1.57803	-28.54069
1	1	23.64444	0.15000	-6.40000	0.00942	-1.55579	-27.65516
1	1	23.64444	1.10000	-6.40000	0.11156	-1.42904	-26.59205
1	1	23.64444	2.05000	-6.40000	0.20152	-1.20440	-25.32437
1	1	23.64444	3.00000	-6.40000	0.27298	-0.89720	-23.76515
1	1	23.64444	3.95000	-6.40000	0.32275	-0.52519	-21.67015
1	1	23.64444	4.90000	-6.40000	0.35196	-0.10413	-17.81074
1	1	24.62963	-12.20000	-6.40000	-0.31641	0.33764	-18.81529
1	1	24.62963	-11.25000	-6.40000	-0.36917	0.43442	-22.60735
1	1	24.62963	-10.30000	-6.40000	-0.42211	0.41788	-24.57297
1	1	24.62963	-9.35000	-6.40000	-0.47162	0.31123	-25.92828
1	1	24.62963	-8.40000	-6.40000	-0.51104	0.13932	-26.90892
1	1	24.62963	-7.45000	-6.40000	-0.53450	-0.07602	-27.60812
1	1	24.62963	-6.50000	-6.40000	-0.53775	-0.31701	-28.07218
1	1	24.62963	-5.55000	-6.40000	-0.51810	-0.56895	-28.32686
1	1	24.62963	-4.60000	-6.40000	-0.47415	-0.81824	-28.38698
1	1	24.62963	-3.65000	-6.40000	-0.40587	-1.05014	-28.26106
1	1	24.62963	-2.70000	-6.40000	-0.31492	-1.24730	-27.95475
1	1	24.62963	-1.75000	-6.40000	-0.20516	-1.38978	-27.47362
1	1	24.62963	-0.80000	-6.40000	-0.08291	-1.45769	-26.82477
1	1	24.62963	0.15000	-6.40000	0.04312	-1.43606	-26.01505
1	1	24.62963	1.10000	-6.40000	0.16278	-1.31967	-25.04352
1	1	24.62963	2.05000	-6.40000	0.26582	-1.11426	-23.88536
1	1	24.62963	3.00000	-6.40000	0.34343	-0.83265	-22.45835
1	1	24.62963	3.95000	-6.40000	0.39014	-0.48802	-20.52328
1	1	24.62963	4.90000	-6.40000	0.40755	-0.08917	-16.84616
1	1	25.61481	-12.20000	-6.40000	-0.33884	0.29512	-17.33043

Job No.	Sheet No.	Rev.
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Ref.	Name	x [m]	y [m]	z [mOD]	δx [mm]	δy [mm]	δz [mm]
1	1	25.61481	-11.25000	-6.40000	-0.36541	0.38737	-20.76618
1	1	25.61481	-10.30000	-6.40000	-0.40799	0.36588	-22.48066
1	1	25.61481	-9.35000	-6.40000	-0.45528	0.26416	-23.66824
1	1	25.61481	-8.40000	-6.40000	-0.49440	0.10600	-24.53455
1	1	25.61481	-7.45000	-6.40000	-0.51677	-0.08945	-25.15632
1	1	25.61481	-6.50000	-6.40000	-0.51711	-0.30668	-25.57103
1	1	25.61481	-5.55000	-6.40000	-0.49231	-0.53263	-25.79960
1	1	25.61481	-4.60000	-6.40000	-0.44087	-0.75513	-25.85424
1	1	25.61481	-3.65000	-6.40000	-0.36280	-0.96108	-25.74221
1	1	25.61481	-2.70000	-6.40000	-0.25995	-1.13520	-25.46862
1	1	25.61481	-1.75000	-6.40000	-0.13656	-1.26022	-25.03870
1	1	25.61481	-0.80000	-6.40000	0.00030	-1.31907	-24.45916
1	1	25.61481	0.15000	-6.40000	0.14077	-1.29913	-23.73674
1	1	25.61481	1.10000	-6.40000	0.27311	-1.19627	-22.87194
1	1	25.61481	2.05000	-6.40000	0.38497	-1.01585	-21.84571
1	1	25.61481	3.00000	-6.40000	0.46437	-0.76915	-20.59074
1	1	25.61481	3.95000	-6.40000	0.49979	-0.46556	-18.89827
1	1	25.61481	4.90000	-6.40000	0.48594	-0.09963	-15.55870
1	1	26.60000	-12.20000	-6.40000	-0.29352	0.33957	-14.87360
1	1	26.60000	-11.25000	-6.40000	-0.24660	0.36300	-17.17787
1	1	26.60000	-10.30000	-6.40000	-0.28011	0.31908	-18.52641
1	1	26.60000	-9.35000	-6.40000	-0.32568	0.21801	-19.51280
1	1	26.60000	-8.40000	-6.40000	-0.36413	0.07337	-20.25142
1	1	26.60000	-7.45000	-6.40000	-0.38532	-0.10105	-20.78951
1	1	26.60000	-6.50000	-6.40000	-0.38347	-0.29284	-21.15197
1	1	26.60000	-5.55000	-6.40000	-0.35534	-0.49100	-21.35350
1	1	26.60000	-4.60000	-6.40000	-0.29947	-0.68493	-21.40314
1	1	26.60000	-3.65000	-6.40000	-0.21593	-0.86323	-21.30671
1	1	26.60000	-2.70000	-6.40000	-0.10672	-1.01286	-21.06870
1	1	26.60000	-1.75000	-6.40000	0.02371	-1.11936	-20.69407
1	1	26.60000	-0.80000	-6.40000	0.16797	-1.16882	-20.18925
1	1	26.60000	0.15000	-6.40000	0.31571	-1.15127	-19.56109
1	1	26.60000	1.10000	-6.40000	0.45453	-1.06403	-18.81247
1	1	26.60000	2.05000	-6.40000	0.57117	-0.91273	-17.93345
1	1	26.60000	3.00000	-6.40000	0.65180	-0.70922	-16.88434
1	1	26.60000	3.95000	-6.40000	0.67871	-0.46779	-15.54825
1	1	26.60000	4.90000	-6.40000	0.58990	-0.20183	-13.31923

### Results : Consolidation : Displacement Data : Grids

None

### Results : Total : Displacement Data : Grids

None