



Titles

Job No.: GGC16550
 Job Title: 190 Goldhurst Terrace
 Sub-title:
 Calculation Heading:
 Initials: KRG
 Checker:
 Date Saved:
 Date Checked:
 Notes:
 File Name: S2.pdd
 File Path: C:\Users\gkite\goldhurst

History

Date	Time	By	Notes
19-Oct-2015	13:26	Michael Southall	
19-Oct-2015	13:41	Michael Southall	
19-Oct-2015	13:47	Michael Southall	
19-Oct-2015	14:59	Michael Southall	
19-Oct-2015	15:04	Michael Southall	
19-Oct-2015	15:19	Michael Southall	
28-Dec-2015	10:47	m	
28-Dec-2015	10:52	m	
01-Jan-2016	23:55	m	
06-Jan-2016	20:04	m	
24-Apr-2016	14:32	m	
24-Apr-2016	16:25	m	
24-Apr-2016	16:29	m	
09-Sep-2016	17:12	Alex	
12-Sep-2016	10:25	Alex	
12-Sep-2016	14:44	Alex	
25-Oct-2016	17:14	Alex	
26-Oct-2016	11:11	Alex	
26-Oct-2016	14:12	Alex	
16-Nov-2016	12:37	Alex	
16-Nov-2016	17:13	Alex	
03-Dec-2021	14:18	Keith G	
09-Dec-2021	12:54	Keith G	
09-Dec-2021	22:39	Keith G	
10-Dec-2021	10:35	Keith G	
25-May-2022	14:58	gkite	

Analysis Options

General

Global Poisson's ratio: 0.50
 Maximum allowable ratio between values of E: 1.5
 Horizontal rigid boundary level: 19.00 [m OD]
 Displacements at load centroids: Yes
 GSA piled raft data: No

Elastic

Elastic: Yes

Consolidation

Consolidation: No

Soil Profiles Soil Profile 1

Layer ref.	Name	Level at top [mOD]	Number of intermediate displacement levels	Youngs Modulus : Top [kN/m²]	Youngs Modulus : Btm. [kN/m²]	Poissons ratio	Non-linear curve
1	Layer 1	37.000	35	40000.	104500.	0.50000	None

Soil Zones

Zone	Name	X min [m]	X max [m]	Y min [m]	Y max [m]	Profile
1	basement footprint	-2.0000	23.000	-3.0000	12.000	Soil Profile 1

Polygonal Load Data

Load ref.	Name	Position : Level [m]	Position : Polygon [m]	Coords. : Polygon	Position : Polygon : Rect. tolerance [%]	No. of Rectangles	Value : Normal (local z) [kN/m²]
1 1		36.95000	(0,4.45)	(0,6.8)	(2.4,6.8)	10.000	1 -10.390
2 2		36.95000	(2.4,4.45)	(0,6.8)	(0,9)	10.000	1 12.450
3 3		36.95000	(2.4,6.6)	(2.4,9)	(12.4,9)	10.000	1 -8.9000
4 4		36.95000	(12.4,5.5)	(12.4,9)	(14.8,9)	10.000	1 -11.820
5 5		36.95000	(14.8,5.5)	(14.8,7.9)		10.000	1 -3.7000
6 6		36.95000	(16.6,5.25)	(16.6,7.9)		10.000	1 42.260
7 7		36.95000	(19.7,9)	(19.5,25)		10.000	1 1.1700
8 1a		36.95000	(7.4,0)	(7.4,2.4)	(18.1,2.4)	10.000	1 0.0
9 2a		36.95000	(18.1,0)	(0.25,4.45)	(0.25,6.8)	10.000	1 0.0
10 3a		36.95000	(2.4,6.8)	(2.4,4.45)		10.000	1 0.0
11 4a		36.95000	(0.25,6.8)	(0.25,8.75)		10.000	2 0.0
12 5a		36.95000	(2.4,8.75)	(2.4,6.8)		10.000	1 0.0
13 6a		36.95000	(2.4,6.6)	(2.4,8.75)		10.000	1 0.0
14 7a		36.95000	(12.4,8.75)	(12.4,6.6)		10.000	1 0.0
15 8		36.95000	(14.6,8.75)	(14.6,7.65)		10.000	1 0.0
16 9		36.95000	(14.8,7.65)	(14.8,5.5)		10.000	1 0.0
17 10		36.95000	(16.6,7.65)	(16.6,5.5)		10.000	3 -12.200
			(18.8,7.65)	(18.8,5.25)			
			(7.4,0.25)	(7.4,2.4)			
			(18.1,2.4)	(18.1,0.25)			
			(18.1,0.65)	(18.1,2.4)			
			(18.2,2.4)	(18.2,3.6)			
			(16.7,3.6)	(16.7,5.25)			
			(20.4,5.25)	(20.4,0.65)			
			(6,0.4)	(6,2.45)	(6,3.7)		
			(7.95,3.7)	(7.4,3.3)	(7.4,2.8)		
			(7.95,2.4)	(7.4,2.4)	(7.4,0.4)		
			(2.3,0.4)	(2.3,2.45)	(6,2.45)		
			(6,0.4)				



Load ref.	Name	Position : Level	Position : Polygon	Coords.	Position : Polygon Rectangles : Rect. tolerance	No. of Rectangles	Value : Normal (local z)
18 11		36.95000	(0.25,0.4)	(0.25,2.25)	(2.3,2.25) (2.3,0.4)	10.000	1 -26.600
19 12		36.95000	(0.25,2.25)	(0.25,4.45)	(2.3,4.45) (2.3,2.25)	10.000	1 -47.210
20 13		36.95000	(2.4,3.85)	(2.4,5.35)	(5.3,5.35) (5.3,3.85)	10.000	1 -57.450
21 13A		36.95000	(2.3,3.85)	(2.3,4.45)	(2.4,4.45) (2.4,3.85)	10.000	1 -57.450
22 14		36.95000	(6.3,7)	(6.3,8.5)	(5.3,3.85) (5.3,5.35) (8.35,5.85) (8.35,3.7)	10.000	3 -13.140
23 15		36.60000	(8.65,4.35)	(8.65,5.85)	(10.2,5.85) (10.2,4.35)	10.000	1 59.990
24 16		36.85000	(12.4,8)	(12.5,5)	(13.5,5.5) (13.5,4.8)	10.000	1 140.46
25 17		36.85000	(14.2,4.8)	(14.2,5.5)	(15.7,5.5) (15.7,4.8)	10.000	1 106.17
26 18		36.95000	(5.5,0.1)	(5.5,0.4)	(7.4,0.4) (7.4,0.1)	10.000	1 90.880
27 19		36.95000	(7.95,2.4)	(7.4,2.8)	(7.4,3.3) (7.95,3.7) (8.35,3.7) (8.35,5.85) (5.8,5.85) (5.3,5.35) (2.4,5.35) (2.4,6.6) (12.4,6.6) (12.4,5.5) (16.7,5.5) (16.7,3.6) (18.2,3.6) (18.2,2.4)	10.000	8 -70.780
28 20		36.95000	(2.3,2.45)	(2.3,3.85)	(6.3,8.5) (6.2,4.5)	10.000	1 -70.780
29 21		36.95000	(12.9,5.25)	(12.9,8.4)	(14.3,8.4) (14.3,7.3) (18.4,7.3) (18.4,5.25)	10.000	2 34.200

Polygonal Loads' Rectangles

No. Centre : Centre : Angle of Width x Depth y
x y local x from global X [Degrees] [m] [m]

Load	x	y	Angle	Width	Depth
Load 1 : 1					
(Edge 2 optimal)					
1	1.20000	5.62500	90.000	2.3500	2.4000
Load 2 : 2					
(Edge 2 optimal)					
1	1.20000	7.90000	90.000	2.2000	2.4000
Load 3 : 3					
(Edge 2 optimal)					
1	7.42500	7.80000	90.000	2.4000	10.050
Load 4 : 4					
(Edge 2 optimal)					
1	13.65000	7.25000	90.000	3.5000	2.4000
Load 5 : 5					
(Edge 2 optimal)					
1	15.72500	6.70000	90.000	2.4000	1.7500
Load 6 : 6					
(Edge 2 optimal)					
1	17.80000	6.57500	90.000	2.6500	2.4000
Load 7 : 7					
(Edge 2 optimal)					
1	12.72500	1.20000	90.000	2.4000	10.650
Load 8 : 1a					
(Edge 2 optimal)					
1	1.32500	5.62500	90.000	2.3500	2.1500
Load 9 : 2a					
(Edge 2 optimal)					
1	1.32500	7.77500	90.000	1.9500	2.1500
Load 10 : 3a					
(Edge 2 optimal)					
1	7.42500	7.67500	90.000	2.1500	10.050
Load 11 : 4a					
(Edge 2 optimal)					
1	13.65000	6.57500	90.000	2.1500	2.4000
2	13.52500	8.20000	90.000	1.1000	2.1500
Load 12 : 5a					
(Edge 2 optimal)					
1	15.72500	6.57500	90.000	2.1500	1.7500
Load 13 : 6a					
(Edge 2 optimal)					
1	17.87500	6.45000	90.000	2.4000	2.1500
Load 14 : 7a					
(Edge 2 optimal)					
1	12.72500	1.32500	90.000	2.1500	10.650
Load 15 : 8					
(Edge 2 optimal)					
1	19.20000	1.52500	90.000	1.7500	2.3000
2	19.27500	3.00000	90.000	1.2000	2.1500
3	18.52500	4.42500	90.000	1.6500	3.6500
Load 16 : 9					
(Edge 2 optimal)					
1	6.70000	1.40000	90.000	2.0000	1.4000
2	6.95781	2.42500	90.000	0.050000	1.9156
3	6.82031	2.62500	90.000	0.35000	1.6406
4	6.70000	3.05000	90.000	0.50000	1.4000
5	6.83750	3.50000	90.000	0.40000	1.6750
Load 17 : 10					
(Edge 2 optimal)					
1	4.15000	1.42500	90.000	2.0500	3.7000
Load 18 : 11					
(Edge 2 optimal)					
1	1.27500	1.32500	90.000	1.8500	2.0500
Load 19 : 12					
(Edge 2 optimal)					
1	1.27500	3.35000	90.000	2.2000	2.0500
Load 20 : 13					
(Edge 2 optimal)					
1	3.85000	4.60000	90.000	1.5000	2.9000
Load 21 : 13A					
(Edge 2 optimal)					
1	2.35000	4.15000	90.000	0.60000	0.10000
Load 22 : 14					
(Edge 2 optimal)					
1	7.17500	3.77500	90.000	0.15000	2.3500
2	6.82500	4.60000	90.000	1.5000	3.0500
3	6.95000	5.60000	90.000	0.50000	2.8000
Load 23 : 15					
(Edge 2 optimal)					
1	9.40000	5.10000	90.000	1.5000	1.5000
Load 24 : 16					
(Edge 2 optimal)					
1	12.75000	5.15000	90.000	0.70000	1.5000
Load 25 : 17					
(Edge 2 optimal)					
1	14.95000	5.15000	90.000	0.70000	1.5000
Load 26 : 18					
(Edge 2 optimal)					
1	6.45000	0.25000	90.000	0.30000	1.9000
Load 27 : 19					



No. Centre : Centre : Angle of Width x Depth y
x y local x
from
global x

(Edge 2 optimal)

1	12.93750	2.60000	90.000	0.40000	10.525
2	12.80000	3.05000	90.000	0.50000	10.800
3	12.90312	3.45000	90.000	0.30000	10.594
4	12.29063	3.65000	90.000	0.10000	8.8188
5	12.52500	4.60000	90.000	1.80000	8.3500
6	10.40000	5.67500	90.000	0.35000	4.1000
7	7.42500	6.22500	90.000	0.75000	10.050
8	3.97500	5.60000	90.000	0.50000	3.1500

Load 28 : 20
(Edge 2 optimal)

1	4.15000	3.15000	90.000	1.40000	3.7000
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Load 29 : 21
(Edge 2 optimal)

1	15.67500	6.27500	90.000	2.05000	5.4500
2	13.60000	7.85000	90.000	1.10000	1.3000

Displacement Grids

Name	Extrusion: Direction	X1	Y1	Z1	X2	Y2	Z2	Intervals Along Line [No.]	Extrusion: Distance [m]	Extrusion: Intervals Along [No.]	Calculate	Detailed Results
		[m]	[m]	[m]	[m]	[m]	[m]					
Grid 1	Global Y	-2.00000	-3.00000	36.95000	23.00000	-	36.95000	125	15.00000	75	Yes	Yes