

CARD GEOTECHNICS LIMITED
 Program: GWALL Version 3.01 Revision A02.B02.R35
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Run ID. Party Wall
 4 Hampstead Square
 Party Wall - Wall F Underpin D

| Sheet No.
 |
 | Job No. CG5919
 | Made by : RDB
 | Date:27-02-2012
 | Checked :

Units: kN,m

INPUT DATA

SOIL PROFILE

----- Active side -----			----- Passive side -----		
Stratum no.	Elevation of top of stratum	Soil type	Stratum no.	Elevation of top of stratum	Soil type
1	2.60	1	1	-0.30	1

SOIL PROPERTIES

----- Soil type -----		Bulk unit wt.		Strength parameters		Active
No.	Description	above GWL kN/m3	below GWL kN/m3	Phi degs.	Cohesion kN/m2	pressure due to compaction kN/m2
1	Bagshot Sand	20.00	21.00	34.00	0.00	0.00
2	Passive soil	18.00	20.00	30.00	0.00	0.00
3	Foundation soil	20.00	21.00	34.00	10.00	0.00

----- Active earth pressure coefficients -----						
----- ULS parameters -----						
----- SLS parameters -----						
----- for Stability calcs. -----						
----- for Moment calcs. -----						
-- Soil type --		Wall friction			Wall friction	
No.	Description	Ka	Kac	coefficient	Ka	Kac
1	Bagshot Sand	0.237	1.131	0.67	0.500	0.000
2	Passive soil	0.292	1.226	0.50	0.500	0.000
3	Foundation..	0.245	1.119	0.50	0.500	0.000

----- Passive earth pressure coefficients -----						
----- ULS parameters -----						
----- SLS parameters -----						
----- for Stability calcs. -----						
----- for Moment calcs. -----						
-- Soil type --		Wall friction			Wall friction	
No.	Description	Kp	Kpc	coefficient	Kp	Kpc
1	Bagshot Sand	3.537	3.761	0.00	1.500	0.000
2	Passive soil	4.701	6.411	0.67	1.500	0.000
3	Foundation..	6.204	7.715	0.67	1.500	0.000

GROUND WATER CONDITIONS

Density of water = 10.00 kN/m3

	Active side	Passive side
Water table elevation	0.60	-0.30
Piezometric elevation at base elev.	0.60	-0.30

WALL PROPERTIES

Backfill angle behind wall =	0.00 degs
Unit weight of wall =	25.00 kN/m3
Elevation of base of wall =	-0.300
Elevation of top of wall =	2.600
Width of base of stem =	0.300 m
Width of top of stem =	0.300 m
Batter angle of back of wall =	0.00 degs
Thickness of base of wall =	0.350 m
Width of heel of wall =	0.150 m
Width of toe of wall =	1.200 m
Depth of shear key =	0.000 m
Width of shear key =	0.000 m
Distance from toe to front of shear key =	0.000 m
Friction on base of wall =	24.00 degs
Adhesion on base of wall =	0.00 kN/m2