

Notes : Loads taken from Davies Maguire drawing 15-21-DM-01-SC DR-S-098-C01
 Additional loads taken from email correspondence with Oliver Negus of Davies Marguire on 01/11/19
 Boundary between London Clay and Lambeth Group around -2.0mOD
 Pile heads assumed to be rotationally restrained in 2 No. directions

Pile Reference	Pile Diameter (mm)	Assumed PPL (mOD)	PCOL (mOD)	Provided Characteristic Actions							Design Actions												
				Vertical Load - Max Dead (kN)	Vertical Load - Min Dead (kN)	Vertical Load - Max Live (kN)	Vertical Load - Max Live (kN)	Vertical Load - Wind Max (kN)	H Load - Dead (kN)	H Load - Live (kN)	H Load - Wind (kN)	Total H Load (kN)	Max C1 (kN)	Max C2 (kN)	Design Horizontal Action (kN)	Pile Length from PPL (m)	Main Reinforcement Cage Toe Level (mOD)	Reinforcement Cage Length from PCOL (m)	Projection Length (m)	Total Reinforcement Length (m)	Main Reinforcement	Shear Reinforcement	Additional Tension Reinforcement
P034	600	22.25	20.175	1350		300			6.75	1.50		8	2273	1740	11	25.5	14.18	6.0	0.725	6.725	6 x B20	450mm OD B10 at 250 mm c.c.	Single Central 25mm Diameter GEWI Bar to 15m below PCOL
P035	600	22.25	20.175	1350		300			6.75	1.50		8	2273	1740	11	25.5	14.18	6.0	0.725	6.725	6 x B20	450mm OD B10 at 250 mm c.c.	Single Central 25mm Diameter GEWI Bar to 15m below PCOL
P036	600	22.25	20.175	1550		500			7.75	2.50		10	2843	2200	14	29.5	14.18	6.0	0.725	6.725	6 x B20	450mm OD B10 at 250 mm c.c.	Single Central 25mm Diameter GEWI Bar to 15m below PCOL
P037	600	22.25	20.175	1550		500			7.75	2.50		10	2843	2200	14	29.5	14.18	6.0	0.725	6.725	6 x B20	450mm OD B10 at 250 mm c.c.	Single Central 25mm Diameter GEWI Bar to 15m below PCOL
P039	600	22.25	20.175	1400		650			7.00	3.25		10	2865	2245	14	30.0	14.18	6.0	0.725	6.725	6 x B20	450mm OD B10 at 250 mm c.c.	Single Central 25mm Diameter GEWI Bar to 15m below PCOL
P040	600	22.25	20.175	1400		650			7.00	3.25		10	2865	2245	14	30.0	14.18	6.0	0.725	6.725	6 x B20	450mm OD B10 at 250 mm c.c.	Single Central 25mm Diameter GEWI Bar to 15m below PCOL
P041	600	22.25	20.175	1400		200			7.00	1.00		8	2190	1660	11	25.0	14.18	6.0	0.725	6.725	6 x B20	450mm OD B10 at 250 mm c.c.	Single Central 25mm Diameter GEWI Bar to 15m below PCOL
P042	600	22.25	20.175	1225		375			6.13	1.88		8	2216	1713	11	25.5	14.18	6.0	0.725	6.725	6 x B20	450mm OD B10 at 250 mm c.c.	Single Central 25mm Diameter GEWI Bar to 15m below PCOL
P043	600	22.25	20.175	850		100			4.25	0.50		5	1298	980	6	18.5	14.18	6.0	0.725	6.725	6 x B20	450mm OD B10 at 250 mm c.c.	Single Central 25mm Diameter GEWI Bar to 15m below PCOL
P044	600	22.25	20.175	1600		300			8.00	1.50		10	2610	1990	13	28.0	14.18	6.0	0.725	6.725	6 x B20	450mm OD B10 at 250 mm c.c.	Single Central 25mm Diameter GEWI Bar to 15m below PCOL
P045	600	22.25	20.175	950		200			4.75	1.00		6	1583	1210	8	21.0	14.18	6.0	0.725	6.725	6 x B20	450mm OD B10 at 250 mm c.c.	Single Central 25mm Diameter GEWI Bar to 15m below PCOL
P046	600	22.25	20.175	950		200			4.75	1.00		6	1583	1210	8	21.00	14.18	6.0	0.725	6.725	6 x B20	450mm OD B10 at 250 mm c.c.	Single Central 25mm Diameter GEWI Bar to 15m below PCOL
P048	600	22.25	20.175	1800		600			9.00	3.00		12	3330	2580	17	33.00	14.18	6.0	0.725	6.725	6 x B20	450mm OD B10 at 250 mm c.c.	Single Central 25mm Diameter GEWI Bar to 15m below PCOL
P049	600	22.25	20.175	1450		450			7.25	2.25		10	2633	2035	13	28.0	14.18	6.0	0.725	6.725	6 x B20	450mm OD B10 at 250 mm c.c.	Single Central 25mm Diameter GEWI Bar to 15m below PCOL
P050	600	22.25	20.175	1125		375			5.63	1.88		8	2081	1613	10	24.5	14.18	6.0	0.725	6.725	6 x B20	450mm OD B10 at 250 mm c.c.	Single Central 25mm Diameter GEWI Bar to 15m below PCOL
P077	600	22.25	20.175	1675		475			8.38	2.38		11	2974	2293	15	30.5	14.18	6.0	0.725	6.725	6 x B20	450mm OD B10 at 250 mm c.c.	Single Central 25mm Diameter GEWI Bar to 15m below PCOL
P078	600	22.25	20.175	1775		500			8.88	2.50		11	3146	2425	16	31.5	14.18	6.0	0.725	6.725	6 x B20	450mm OD B10 at 250 mm c.c.	Single Central 25mm Diameter GEWI Bar to 15m below PCOL
P152	600	22.25	20.175	1225		375			6.13	1.88		8	2216	1713	11	25.5	14.18	6.0	0.725	6.725	6 x B20	450mm OD B10 at 250 mm c.c.	Single Central 25mm Diameter GEWI Bar to 15m below PCOL
P168	600	22.25	20.175	625		250			3.13	1.25		4	1219	950	6	18.0	14.18	6.0	0.725	6.725	6 x B20	450mm OD B10 at 250 mm c.c.	Single Central 25mm Diameter GEWI Bar to 15m below PCOL
P169	600	22.25	20.175	1800		600			9.00	3.00		12	3330	2580	17	33.0	14.18	6.0	0.725	6.725	6 x B20	450mm OD B10 at 250 mm c.c.	Single Central 25mm Diameter GEWI Bar to 15m below PCOL
P170	600	22.25	20.175	1650		200			8.25	1.00		9	2528	1910	13	27.0	14.18	6.0	0.725	6.725	6 x B20	450mm OD B10 at 250 mm c.c.	Single Central 25mm Diameter GEWI Bar to 15m below PCOL
P171	600	22.25	20.175	1225		375			6.13	1.88		8	2216	1713	11	25.5	14.18	6.0	0.725	6.725	6 x B20	450mm OD B10 at 250 mm c.c.	Single Central 25mm Diameter GEWI Bar to 15m below PCOL
P172	600	22.25	20.175	1400		650			7.00	3.25		10	2865	2245	14	30.0	14.18	6.0	0.725	6.725	6 x B20	450mm OD B10 at 250 mm c.c.	Single Central 25mm Diameter GEWI Bar to 15m below PCOL
P173	600	22.25	20.175	1550		500			7.75	2.50		10	2843	2200	14	29.5	14.18	6.0	0.725	6.725	6 x B20	450mm OD B10 at 250 mm c.c.	Single Central 25mm Diameter GEWI Bar to 15m below PCOL

TOTALS 24 No. x 600 mm diameter bearing piles

18.0 m m
 33.0 m m
 20.5 m m