

DENOTES SECANT PILES -	400kN/m DEAD	100 kN/m LIVE			
DENOTES SECANT PILES -	350kN/m DEAD	100 kN/m LIVE			
DENOTES SECANT PILES -	350kN/m DEAD	100 kN/m LIVE			
DENOTES SECANT PILES -	NON-LOAD BEARING PILES, TO BE DESIGNED AS PROPPED CANTILEVERS FOR HIGHWAY LOADING ONLY. CONTRACTOR / PILING CONTRACTOR TO OBTAIN HIGHWAYS AUTHORITY TECHNICAL APPROVAL / APPROVAL IN PRINCIPLE.				
PILES FOR THE TOWER CRANE ARE NOT INDICATED.					
PILES TO BE DESIGNED FOR A FACTOR OF SAFETY OF 3 (NO LOAD TESTING).					
ALL PILES TO BE INTEGRITY TESTED.					
PILES TO BE DESIGNED BY PILING CONTRACTOR IN ACCORDANCE WITH BASEMENT IMPACT ASSESSMENT BY AHIG LTD AND TO APPROVAL OF LONDON UNDERGROUND LTD.					

PILE SCHEDULE							
ILE REF:	CUT OFF LEVEL (m):	PILE DEAD LOAD (kN):	PILE LIVE LOAD (kN)				
P01	24.813	470	190				
P02	24.813	470	190				
P03	24.813	470	190				
P04	24.813	470	190				
P05	24.813	460	190				
P06	24.813	460	190				
P07	24.813	460	190				
P08	24.813	460	190				
P09	24.813	390	170				
P10	24.813	390	170				
P11	24.813	390	170				
P12	24.813	390	170				
P13	25.463	150	25				
P14	25.463	150	25				
P15	25.463	150	25				
P16	25.463	150	25				
P17	25.463	150	25				
P18	25.463	150	25				
P20	25.463	150	25				
P21	25 163	200	45				
P22	25 163	200	<u>45</u>				
P23	20.100	550	45				
D24	24.000	550	40				
F 24	24.303	550	40				
F20	24.563	550	45				
F20	24.563	550	45				
P27	25.163	550	45				
P28	24.563	550	45				
P29	25.163	550	45				
P30	25.163	550	45				
P31	24.563	550	45				
P32	24.563	200	45				
P33	24.563	200	45				
P34	24.563	200	45				
P35	24.713	600	210				
P36	24.713	600	210				
P37	24.713	600	210				
P38	24.713	600	210				
P39	24.813	480	200				
P40	24.813	480	200				
P41	24.813	480	200				
P42	24.813	480	200				
P43	24 713	550	210				
P44	24 713	550	210				
P45	24.713	550	210				
P/6	24.713	550	210				
P47	27.713	<u> </u>	210				
D/0	0/ 010	430	210				
D40	24.010	490	210				
F49	24.013	490	210				
F3U	24.013	490	210				
PDI DEC	24.813	520	100				
P52	24.813	520	180				
P53	24.813	520	180				
P54	24.813	520	180				
P55	24.813	450	190				
P56	24.813	450	190				
P57	24.813	450	190				
P58	24.813	450	190				
P59	24.813	470	200				
P60	24.813	470	200				
P61	24.813	470	200				
P62	24.813	470	200				
P63	25.588	370	150				
P64	25.588	270	100				
P65	25.588	270	100				
P66	25 588	300	120				
P67	25.500	200	120				
	25.500	200	120				
1 UO	20.000	200	120				
r09	25.588	300	120				
P/0	25.588	300	120				
P71	25.588	250	100				
P72	25.588	250	100				
P73	25.588	400	150				
P74	24 563	550	45				

TOWER CRANE PILE LOADS

PROPOSED TOWER CRANE:

PILE REFS P21 TO 34 INCLUSIVE & PILE 74 ARE SUBJECT TO THE FOLLOWING LOADS FROM THE

MAX. COMPRESSION = 350kN MAX. TENSION = 150kN

MAX. HORIZONTAL = 30kN

ALL SECANT PILES TO BE DESIGNED TO A MINIMUM RETAINED HEIGHT OF 5.3m U.N.O SECANT PILED WALL IS TO BE DESIGNED AS FREE STANDING CANTILEVERS IN THE TEMPORARY CASE AND PROPPED CANTILEVERS IN THE PERMANENT CASE

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1.0 FOUNDATION NOTES - PILED

- 1.1 ALL CONCRETE WORK IS TO BE IN ACCORDANCE WITH BJB CONSULTING'S SPECIFICATION FOR STRUCTURAL CONCRETE.
- 1.2 CONCRETE TO ALL FOUNDATIONS TO HAVE A MINIMUM WORKS CUBE CRUSHING STRENGTH OF 35N/mm2 AT 28 DAYS.
- 1.3 ALL CONCRETE BELOW GROUND IS SUBJECT TO THE FOLLOWING CONDITIONS:-DESIGN SULPHATE CLASS - DS3 AGGRESIVE CHEMICAL ENVIRONMENT FOR CONCRETE (ACEC) - AC3.
- 1.4 COVER TO ALL REINFORCEMENT IS TO BE MINIMUM 40mm UNLESS NOTED OTHERWISE. COVER TO UNDERSIDE OF PILECAPS TO BE 75mm.
- 1.5 ALL FOUNDATION CONCRETE IS TO BE COMPACTED BY MEANS OF SUITABLE MECHANICAL PLANT.
- 1.6 LEVELS TO TOPS OF FOUNDATIONS TO BE AS NOTED ON PLAN.

REINFORCED FOUNDATIONS WITHOUT BJB ADVICE.

- 1.7 ALL FRESHLY CAST CONCRETE MUST BE PROTECTED FROM RAINFALL. 1.8 ANY SERVICES PASSING THROUGH OR UNDER THE FOUNDATIONS TO BE SLEEVED AS BJB DETAIL. NO SERVICES PERMITTED THROUGH
- 1.9 ENSURE EXCAVATIONS ARE STABLE AND TAKE MEASURES IF REQUIRED TO SUPPORT SIDES DURING CONSTRUCTION.
- 1.10 ALL PILES TO HAVE 75mm PROJECTION INTO THE PILECAPS/GROUND BEAMS & PILE REBAR TO EXTEND BY A MINIMUM ANCHORAGE LENGTH INTO THE FOUNDATIONS U.N.O
- 1.11 FINAL DESIGN AND PILE ARRANGEMENT TO BE CONFIRMED BY PILING CONTRACTOR TO SUIT THE RELEVANT GROUND AND SITE CONDITIONS.
- 1.12 ALL PILES SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH EC7 AND TO CARRY THE UNFACTORED WORKING LOADS SHOWN ON THE PILE SCHEDULE WITH A FACTOR OF SAFETY OF 3.0. NO ALLOWANCE HAS BEEN MADE FOR NEGATIVE SKIN FRICTION ON THE PILE.
- 1.13 ATTENTION IS DRAWN TO THE SOIL INVESTIGATION REPORT BY GEA FOR A DESCRIPTION OF THE GROUND TO BE ENCOUNTERED.
- 1.14 PILING MAT TO BE PLACED PRIOR TO COMMENCEMENT OF PILING. PILING MAT TO BE CONTRACTOR DESIGNED.
- 1.15 CONCRETE IN THE PILES SHALL BE OF ADEQUATE STRENGTH AND DENSITY TO SUPPORT THE APPLIED LOADS, IN ACCORDANCE WITH EC2 AND ALL RELEVANT EURO CODES.
- 1.16 REFER TO SPECIFICATION FOR DETAILS OF PILE TESTING REQUIREMENTS (ASSUMED 100% INTEGRITY TESTING, NO LOAD TESTING).
- 1.17 THE MAXIMUM PERMITTED DEVIATION FROM THE CENTRE LINE OF THE PILE AS SHOWN WILL BE 75mm IN ANY DIRECTION.
- 1.18 ALL PILE LOCATIONS ARE TO BE PROBED TO ENSURE THE PILE DOES NOT CLASH WITH ANY UNDERGROUND OBSTRUCTIONS
- 1.19 ALL UNDERGROUND CABLES, DRAINS ETC. REDUNDANT OR OTHERWISE, ARE TO BE CLEARLY MARKED OUT ON SITE AND EXPOSED IF NECESSARY.

REV	DATE	AMENDMENT	BY
P01	21.10.2020	PRELIMINARY ISSUE	AK
P02	15.12.2020	ISSUED FOR PRICING	AK
P03	25.01.2021	UPDATED & ISSUED FOR PRICING FOLLOWING RECEIPT OF NEW LAYOUT. REBAR QUANTITIES TO COLUMNS & SLABS AMENDED.	AK
P04	01.02.2021	PILE 74 ADDED, PILES 21-34 UPDATED TO SUIT ENGINEERED CORE BASE TO ACCOMMODATE TOWER CRANE	AK
C01	24.05.2021	CONSTRUCTION ISSUE	AK

DRAWING STATUS: FOR CONSTRUCTION

CLIENT:

RIBA STAGE: STAGE 5





PROJECT: Kentish Town Road, London

TITLE: Piling Works GA

DATE:	SCALE:	DRAWN:	AK						
OCT 2020	As indicated @ A1	CHECKED:	BJB						
BJB PROJECT REF:	BJB DRAWING REF:	REVISION:							
2394	0104	C01							
BIM DRAWING REF: 2394 - BJB - 00 - FN - DR - S - 0104 - C01									
Constructionline Part of Capita pic									



ALSO REFER TO NOTE BELOW