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34.652

34.652

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Piling Schedule							
Mark	Tension (kN)	Compression (kN) Permanent	Compression (kN) Variable	Horizontal (in all directions)	Cut-off level		
P1		100	30	10	34.264		
P2		395	85	10	34.652		
P3		395	85	10	34.652		
P4		395	85	10	34.652		
P5		395	85	10	34.652		
P6		100	30	10	34.652		
P7		150	45	10	34.264		
P8		395	85	10	34.264		
P9		525	115	10	34.652		
P10		525	115	10	34.652		
P11		395	85	10	34.652		
P12		150	45	10	34.652		
P13		150	45	10	34.114		
P14		395	85	10	34.114		
P15		525	115	10	34.652		
P16		525	115	10	34.652		

Piling Sc						
Mark	Tension (kN)	Compression (kN) Permanent	Compr V			
man		Termanoni				
P17		395				
P18		150				
P19		100				
P20		150				
P21		150				
P22		395				
P23		395				
P24		395				
P25		395				
P26		395				
P27		395				
P29		150				
P30		150				
P31		150				
P32		100				
P33		150				

Note: All loads are unfactored

Indicative Section Showing Pile Cut-Off Level

(Scale 1:25)

All Structural Engineering drawings are to be read with the specification and with all relevant Architects drawings and specifications. a)Vertical loads - the most onerous upwards and downwards vertical loads shall be determined by appropriately Do not scale from any Structural Engineers drawing. All dimensions are in millimetres and levels in metres. All waterproofing (DPM & DPC) works to Architects details. All fire protection works to Architects details unless specifically noted otherwise. Abbreviations: SSL - Structural slab level FFL - Finished floor level C\S - Column Stops C\C - Column Capped UNO - Unless Noted OtherwiseOSA - Or SimilarApproved The Contractor is responsible for the design, installation and maintenance of all necessary temporary works to ensure the strength and stability of the building throughout the course of the works. Drawings and calculations detailing all temporary works shall be submitted to the Engineer for comment prior to commencement of See Contract Administrator's drawings for the setting out of the building grid lines. Wherever the dimensions the works. The Piling Contractor is required to provide a full and detailed method statement in respect of the piling contract is to be inspected by the Local Authority to ensure compliance with contract drawings, Building The concrete shall be properly graded and compacted to give the required strength without excess water. A sufficient head of concrete shall be maintained to prevent an inflow of soil or water during the extraction of 02 01.05.18 DA TF Pile P29 Removed 19.04.18 NC TF Revisions Clouded 06.04.18 | NC | TF | Issued for Information Rev Date Drn Chk Amendment **PRINGUER-JAMES** c) Tensile resistance of the pile concrete shall be ignored. where piles are subject to net uplift forces CONSULTING ENGINEERS 10 Beulah Road, Wimbledon, London, SW19 3SB d) Where piles are subject to net tensile forces the piling contractor shall in his design limit the sum of the Phone/Fax : 020 8940 4159 In the temporary construction stage case the concrete piles shall be designed to resist the following vertical and Email : mail@pjce.com Website : www.pjce.com STREETPLOT LTD. ii) Additional loads due to temporary works, construction method and sequence for sub and super structure and 27A WEST END LANE LONDON, NW6 4QJ v) Deflections due to horizontal forces shall be limited to 20mm at ground level / 10mm adjacent to buildings. **PILING LAYOUT INFORMATION** Status s: As indicated @ A1 Checked : SPJ Engineer : **TF** ^{awn :} NC Drawing No. L2216-S-20-009 02

Piling Notes

In the permanent design case the concrete piles shall be designed to resist the following vertical and horizontal loads which can be combined appropriately to produce the most onerous loading combination.

b) Moments due to eccentric vertical loading of piles. - Piles shall be designed to resist moments due to

ii) Eccentricity due to the most adverse combination of construction tolerances. of both piles and the supported

The Contractor is required to submit and obtain approval to his/her design for the piles from Local Building Control Officer. The Contractor is also required to submit and obtain approval to his/her design for the piles as required from the party wall surveyours acting for the neighbouring owners. Contractor to make allowance for coordination with any temporary works required as part of the design and detail package, including liaising with

The contractor shall determine the piling platform levels and advise the structural engineer accordingly. The Contractor shall provide any necessary temporary steelwork for the support of piling equipment whilst installing the sheet piles. The Contractor is also responsible for the design and detail of the piling mat required for the

The contractor is responsible for all trimming, cutting, recesses and drilling into piles and ensuring that piles are

differ from those shown on the 'GA' drawings, the dimensions given by the 'GA' shall take precedence. All fire protection to all piles shall be in accordance with Architects specification and to satisfy the life satisfy

installation. The method statement is to be submitted to the Engineer for comment. The responsibility for the design and installation of piles is to remain fully with the Piling Contractor. The successful Piling Contrator will be required to submit all calculations and drawings to the Engineer for his consideration prior to the commencement of works. The Piling Contractor must state in his quotation the length of pile upon which his price is based. The Piling Contractor should stat the extra costs associated with an increase in the pile lengths due to site conditions and the credit allowed for pile length reduction. All work throughout the course of the

The accurate positioning of the piles is the responsibility of the Piling Contractor, and maximum tolerance of 75mm is permitted. The piles shall not deviate from the vertical by more than one degree angle. If these tolerances are exceeded and, in the opinion of the Engineer, this is detrimental to the structural adequacy of the

The Piling Contractor is to calculate a suitable piling platform level based on final pile cut off levels. The Piling Contractor is to provide details of piling platform level and to take due account of pile head cut down in his

The Piling Contractor shall guarantee that each pile will sustain without appreciable deformations or undue progressive settlement, the full loads as derived from the Engineers drawings. Any defects or damage to the works or supported structure resulting from any inadequacy of the Piling Contractor's design, materials or workmanship are to be made good at the Piling Contractor's expense and to the satisfaction of the Engineer. Indicative bearing pile diameter for this scheme to be 300mm diameter unless noted otherwise.

Full intrusive Site Investigation report data to be used to determine geotechnical parameters for use in Pile

Integrity testing - After the piles have been trimmed and prior to any additional concrete being placed, ALL foundation piles will be sonically tested for integrity by an independent testing authority. Any proven pile defects will be repaired to the Structural Engineer's satisfaction and counter-charge to the Piling Contractor.

33 Piles to be formed / concreted to required cut off levels with granular backfill up to piling mat level.

Working platform to be generally set at approximate existing ground level. Piling mat to be designed by main Contractor in accordance with Federation of Piling Specialists guidance on the design of piling mats. Piling mat design to be undertaken to BRE report "Working platforms for tracked plant" by the Main Contractor's suitably

The Contractor to take suitable precautions when piling in vicinity of existing structures. Method statements for manoeuvring of piling rig/other plant and detailed proposals for ensuring ground-borne vibration levels are kept

Piles are to be installed to achieve the specified SWL's in accordance with the 'Specification for Piling and

Casings (if required) shall be installed through unstable fill to natural stable strata using vibration less methods. In addition to the loads shown allow for a horizontal force at the head of pile of a value equal to as specified in

Concrete to be minimum of grade C28/35 as per BS 8500 and BRE special digest 1 corresponding to a design

Inclusions of soil and other extraneous matter causing wasting must be avoided and any piles affected with be

42 At all stages of the work every precaution shall be taken to prevent the formation of voids in the concrete caused by faulty consolidation. Particular attention shall be paid during withdrawal of any temorary liner.

The minimum pitch centres of pile reinforcement shall not be less than 200mm centres to allow the placing of slab, pilecap or capping beam reinforcement through pile reinforcement. the minimum length of reinforcement

b) The length of the reinforcement cage shall be determined by the piling Contractor to adequately reinforce

elongation of the pile and upward deflection of the pile to a maximum of 5 mm.

horizontal loads which can be combined appropriately to produce the most onerous loading combinations.

ii) Additional loads due to temporary works, construction method and sequence for sub and super structure and

The pile reinforcement projecting from piles into the ground beam above should be designed to resist the forces and moments from wall above the pile. The pile reinforcement shall extend a lap length anchorage length into the ground beams. The projecting pile reinforcement length shall take due account of the depth of the ground beam. For larger dia. pile reinforcement, cranked bars and mechanical reinforcement couplers may be required to provide the anchorage to the pile reinforcement. Where cranked bars and mechanical couplers are required, these shall be the responsibility of the contractor to design and install. The minimum pile reinforcement

For General Notes Drawing refer to PJCE drawing L2216-S-15-001.