

Attenuation Tank:
CL 51.290
Top of Tank 49.528
IL 47.700

DILAPIDATION SURVEY

1. Prior to commencement, a dilapidation survey of the Marble Arch Pub and surrounding commercial building should be carried out. This would involve a point cloud survey, a photographic survey and a full superficial inspection of the building. A report should be compiled and retained for records.
2. A detailed CCTV and condition survey of the combined UU Sewer to Rochdale Road should be carried out prior to piling works. Vibration monitoring at ground levels should be undertaken during piling works adjacent to the sewer. Refer to notes on vibration monitoring. A post completion CCTV condition survey upon completion of piling operations with records of vibration monitoring and camera inspection data during piling works should be obtained.

VIBRATION MONITORING

We envisage that building movement/vibration/acceleration will be monitored throughout works. This may take the form of placing transducers at key locations at the onset of these works. Threshold/trigger levels will be agreed prior to commencement and exceedance events will be identified by the specialist alerting the Contractor to cease or modify working practices. The placement and monitoring of this equipment is specialist work and an appropriately experienced and qualified specialist will be required to install and monitor accelerations. Relevant guidance to determine trigger levels can be obtained by referring to BRE digest 403, BS 5228, BS 7385, TRL report 429 and TRL report 53. TRL report 53, table 3 in particular refers to objects of historic interest or sensitive structures, setting PPV at 3mm/s for frequencies between 10 and 30 Hz or PPV 3 to 5 mm/s for frequencies between 30 and 60 Hz. Work must be suspended if vibration measurements reach 20mm/s and discussions held with United Utilities regarding ongoing risk to their assets. Contact BKP if ground vibration reaches 15mm/s as a precaution prior to potentially reaching 20mm/s.

Structural Pile Cap Schedule			
Ref.	Size	No.	Reinf. Estimate.
P.C.'1'	2700x900x1500 DP	20	120kg/m ²
P.C.'2'	2700x1500x1500 DP	4	120kg/m ²
P.C.'3'	2700x2460x1500 DP	8	120kg/m ²

Structural Ground Beam Schedule			
Ref.	Size	No.	Reinforcement Estimate.
R.C.'B1'	600x600	2	230kg/m ³
R.C.'B2'	960x600	19	230kg/m ³
R.C.'B3'	1300x600	1	230kg/m ³

NOTES:

1. Do not scale from this drawing.
2. This drawing is copyright and is sent to you in confidence. It must not be copied, used or disclosed, in whole or in part, to third parties without written permission. It remains the property of Booth King Partnership Ltd (BKPL) and must be returned on request.
3. This drawing is to be read in conjunction with all relevant contractual documents.
4. Anyone using this drawing must be aware of their legal duties under the CDM Regulations 2015, refer to the HSE website for further information. BKPL are not Principal Designers.
5. All dimensions shown on this drawing are in millimeters unless noted otherwise.
6. If the Contractor consider that they do not have sufficient information to safely complete the works detailed on this drawing, they should contact the Engineer.
7. This document uses revision codes in accordance with ISO EN 19650: S1 - Preliminary (non-contractual) - review, comment or approval. C - Contractual - Approved for stage completion.
8. This document uses status codes in accordance with ISO EN 19650: Work in progress. S0 - WIP. Shared (non-contractual). S1 - Coordination, S2 - Information, S3 - Review, S4 & S5 - Approval. Published (contractual). A1, A2, etc. (where 'n' relates to the project stage).
9. This document uses project stages in accordance with the IStructE Structural Plan of Work 2020. 2 - Concept, 3 - Coordination, 4 - Technical Design, 4.5 - Production Design, 5 - Construction, 6 - Handover.
10. Only documents with a revision code Cn (where 'n' relates to a revision number) and status code A4 or A5 are suitable for construction. Any deviations to that which is on site is not the liability of BKPL.

PILING NOTES

1. All piles are to be designed by specialist sub-contractor. All works to be in accordance with 'the Institution of Civil Engineers Specification for Piling'.
2. All works to be in accordance with the 'Federation of piling specialists guidance'.
3. For costing purposes assume all piles to be 600mm Ø CFA bearing piles, socketed into the Sandstone bedrock circa 29m bgl.
4. Foundations have been schemed for the following assumed Pile Carrying Capacity. Axial Compression = 2800kN per pile. Horizontal Shear = 20kN per pile. Pile diameters are assumed to be 600mm.
5. The Piling Contractor is to refer to the Phase 2 Site Investigation Report Ref. LK251336 September 2025, to advise on achievable Pile Carrying Capacity, depths, and piling solution.
6. To the South-West of the Site, a combined UU Sewer is in close proximity to the site boundary. Sleeved piles up to a depth of 10m should be considered in the design.
7. Piling contractor to allow 2No. piles to be load tested to 1.5 working load integrity testing required to 100% of piles.
8. Piling contractor to confirm location of below ground services and culverts with main contractor prior to commencement on site.
9. Agreement to be reached between main contractor and piling contractor with regards to exposure and removal of below-ground obstructions along piling lines.
10. In the tendering process for this contract, piling contractors to be made aware of the particular site constraints and risks associated.
11. Piling may need to be low vibration technique such as rotary bore, not driven pending condition surveys of surrounding buildings. Piling specialist to develop robust method statements and risk assessment to demonstrate how this part of works will proceed without causing damage to surrounding buildings.
12. A piling mat will be required in line with BRE470 Working Platform for Tracked plant.

CONCRETE NOTES

1. All foundations to be in accordance with BS EN1992, Foundations and BS EN206, Structural use of concrete.
2. All concrete to be in accordance with National Structural Concrete Specification for Building Construction.
3. Formations which are to be left exposed overnight prior to concreting shall receive grade S13 binding to BS5228 Part 2 1991.
4. Reinforced concrete foundations to be designated concrete mix RC32/40. Max aggregate size 20mm.
7. All concrete in contact with the ground to be suitable for use in the following conditions:

Design Sulphate Class	DS-1
Aggressive Chemical Environment	AC-1
8. Refer to Architect's Drawings for Waterproofing Details.
9. Cover to reinforcement to be:

9.1.	75mm Bottom
9.2.	40mm Top
9.3.	40mm Sides
10. Unless noted otherwise laps to be as follows:

10.1.	H10 - Minimum 400mm
10.2.	H12 - Minimum 500mm
10.3.	H16 - Minimum 650mm
10.4.	H20 - Minimum 800mm
10.5.	H25 - Minimum 1000mm

NOTE

For sections refer to BKP drawing 1001
Everything is indicative at this stage and is for costing / discussion

P03	20.03.26	Updated Foundation Arrangement	TB
P02	15.10.25	Updated Foundation Arrangement	RG
P01	02.09.25	2a - Proposed Scheme Design	CW
REV.	DATE	REVISION DETAILS	INITIALS
CURRENT DRAWING REVISION CHECKED BY			AA
CURRENT DRAWING REVISION APPROVED BY			IE

DRAWING STATUS: S1 PROJECT STAGE: Stage 2

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PROJECT: Rochdale Road 2

TITLE: Foundation GA Plan

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