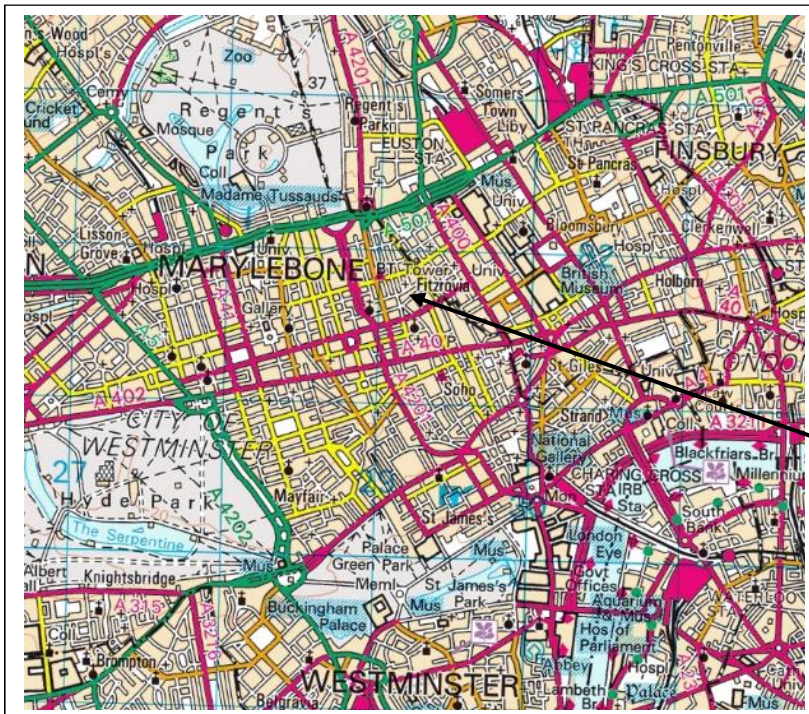
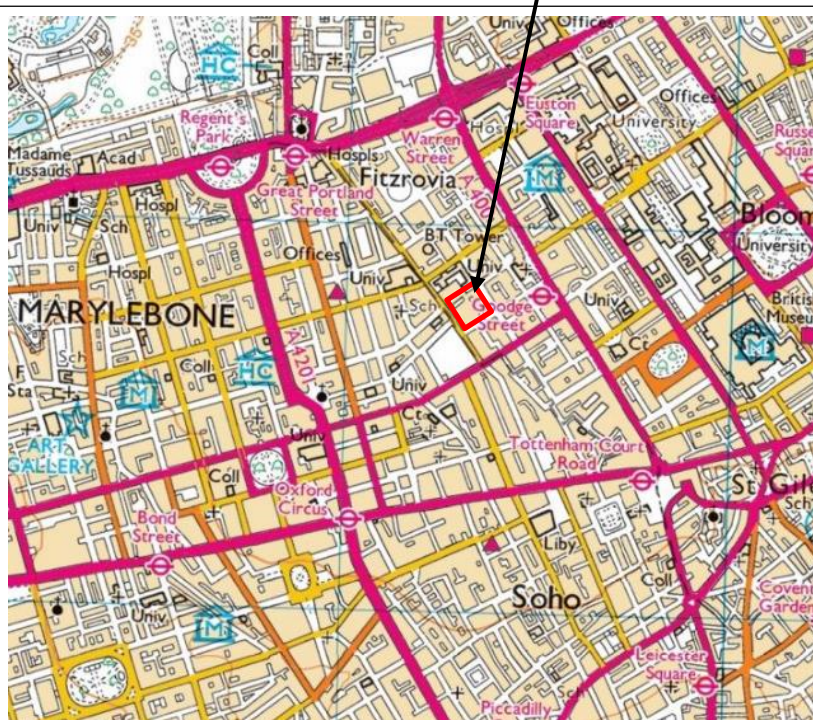


FIGURES



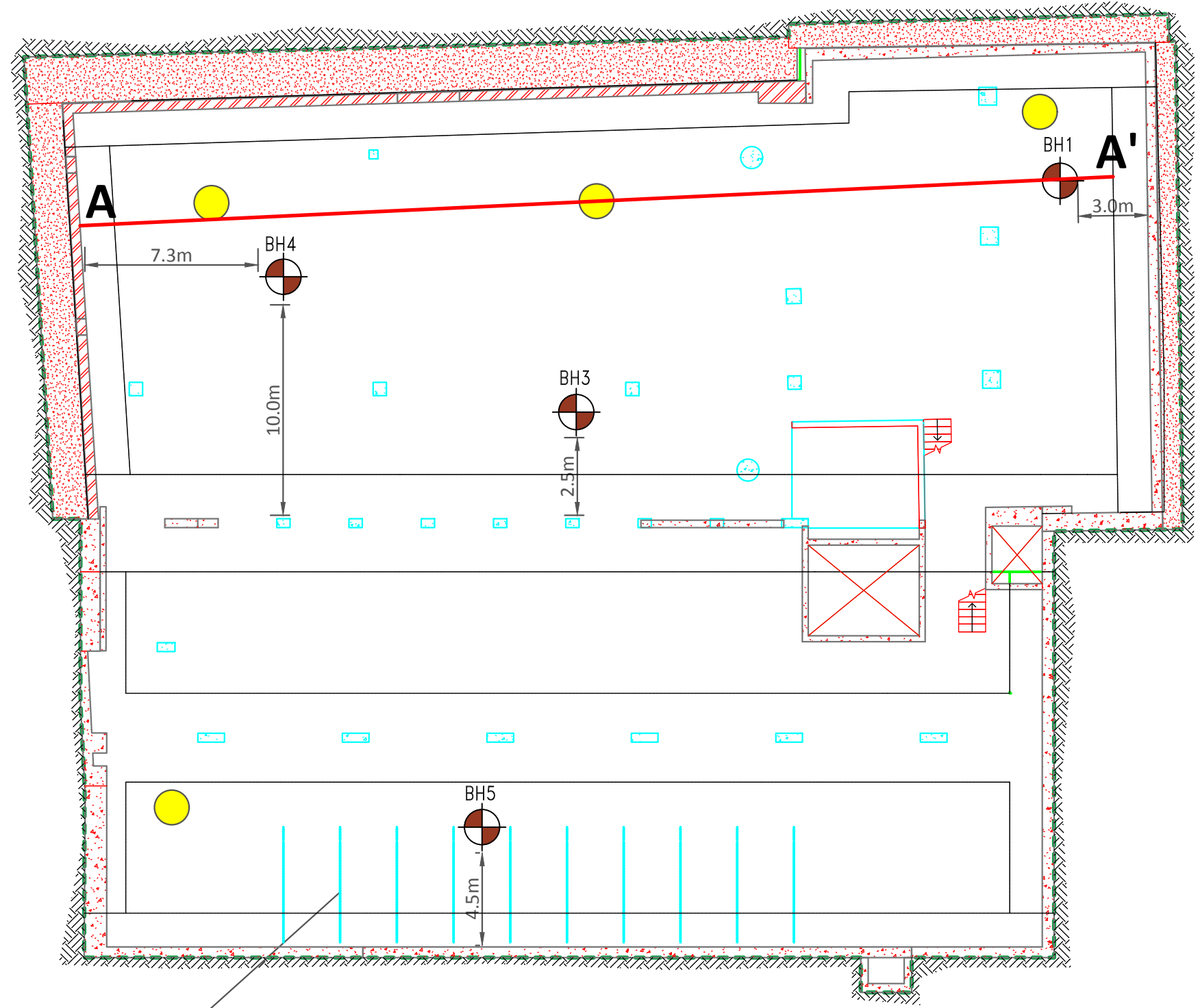
SITE



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Client 1923 Mortimer Estates Limited	Project Arthur Stanley House, Tottenham Street	Job No CGL/09198a
	Title Site Location Plan	Figure 1



Approximate location of temporary raking props

TOTTENHAM STREET

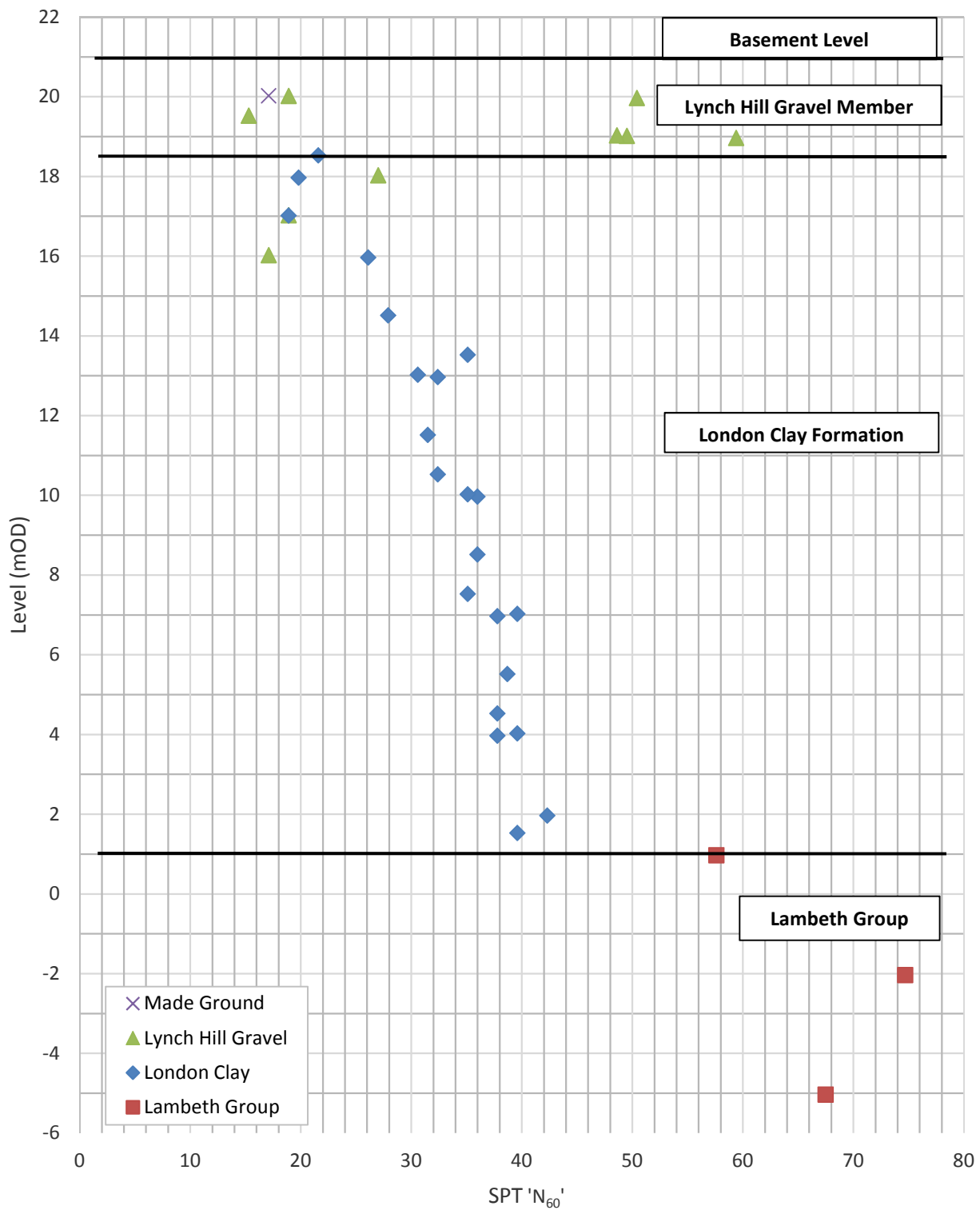
TOTTENHAM MEWS

KEY

- Line of Section A-A'
- Site Boundary
- Borehole Location
- Approximate Location of Sump Pump

0	09/02/18	
Rev	Date	Comments
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Project Arthur Stanley House, Tottenham Street		
Client 1923 Mortimer Estates Limited		
Drawing title Exploratory Hole Location Plan		
Scale(s) NTS		Job No. CGL/09198a
Drawn TJB 09/02/18	Checked EJB 15/02/18	Dwg No. Figure 2
Approved MPC 15/02/18		Rev. 0
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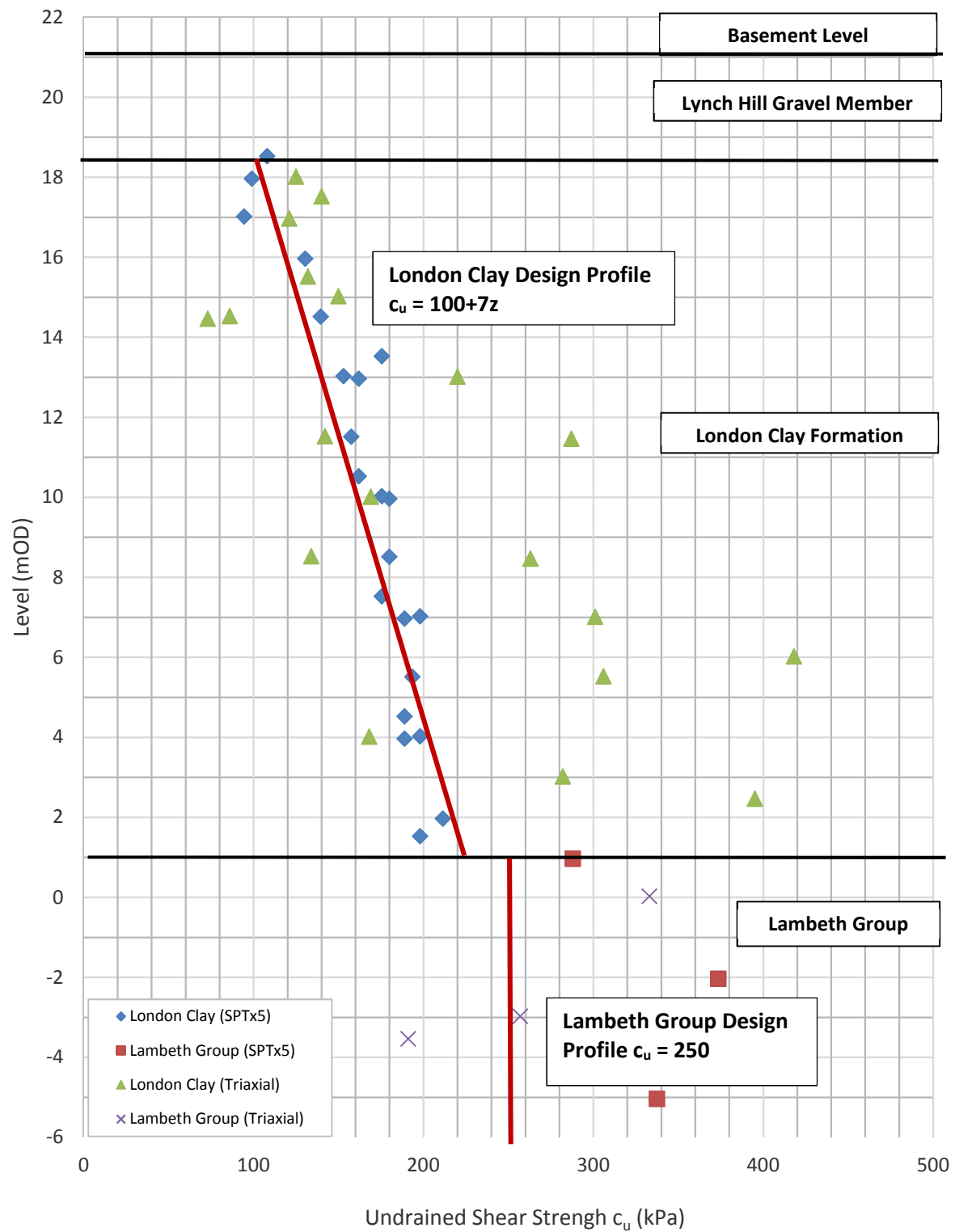
Project
**Arthur Stanley House, Tottenham
Street**

Job No
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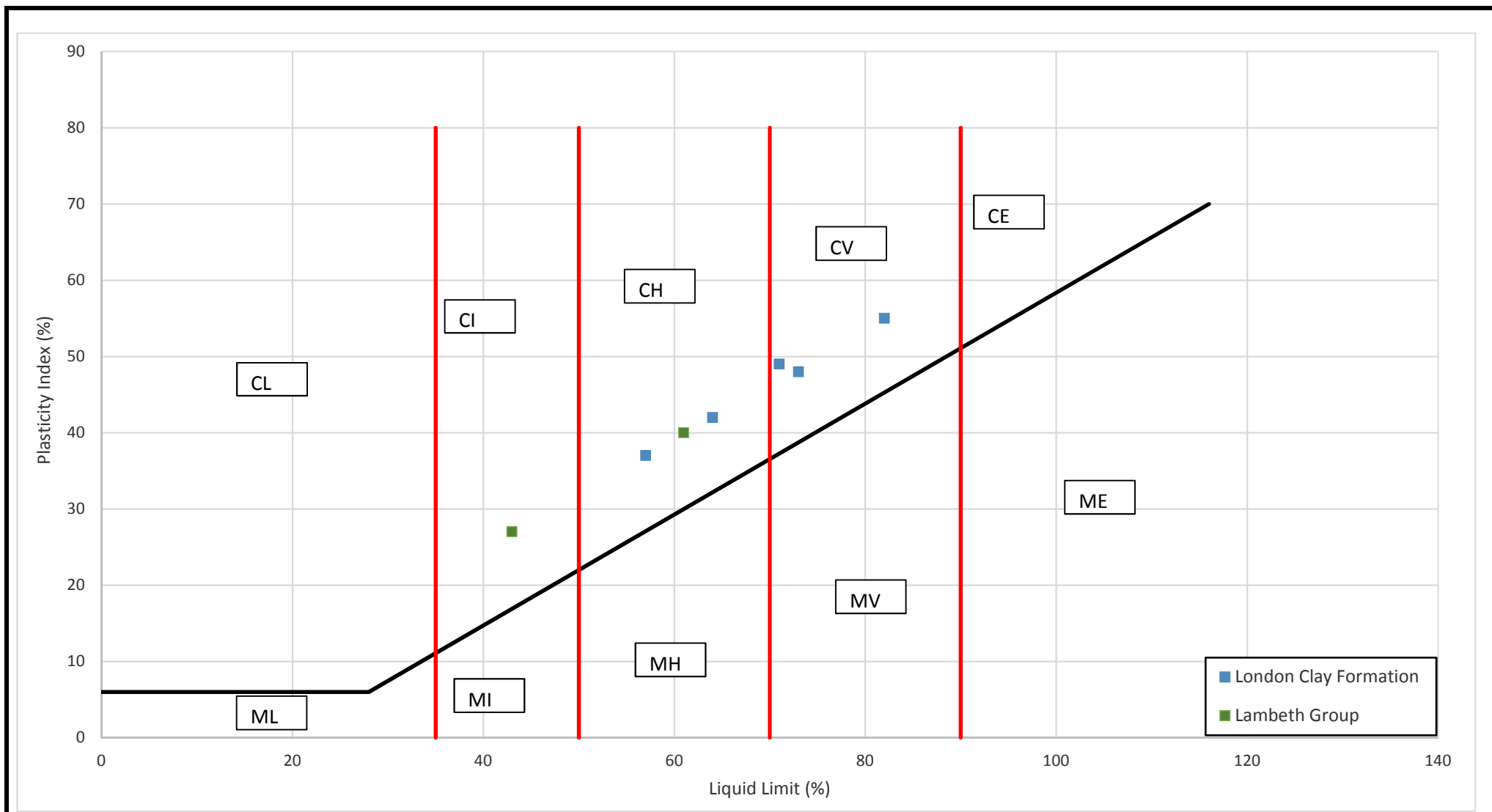


Title
**SPT 'N₆₀' Values versus Level
(mOD)**

Figure 3



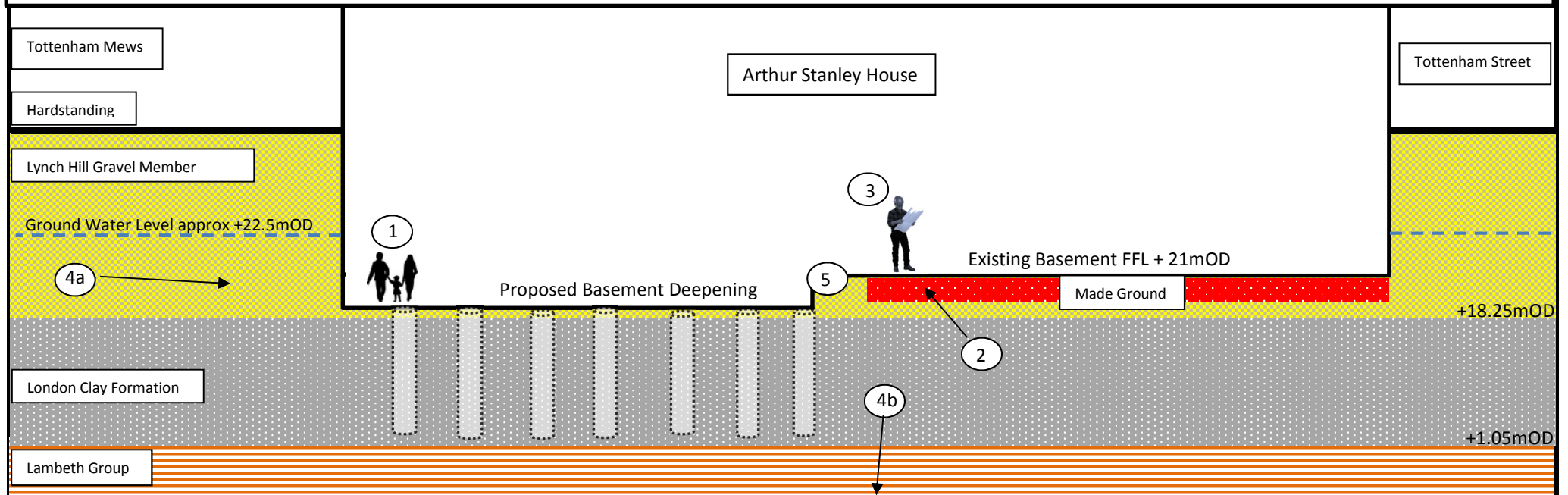
Client 1923 Mortimer Estates Limited	Project Arthur Stanley House, Tottenham Street	Job No CGL/09198a
	Title Undrained Shear Strength, c_u (kPa) versus Level (mOD)	Figure 4



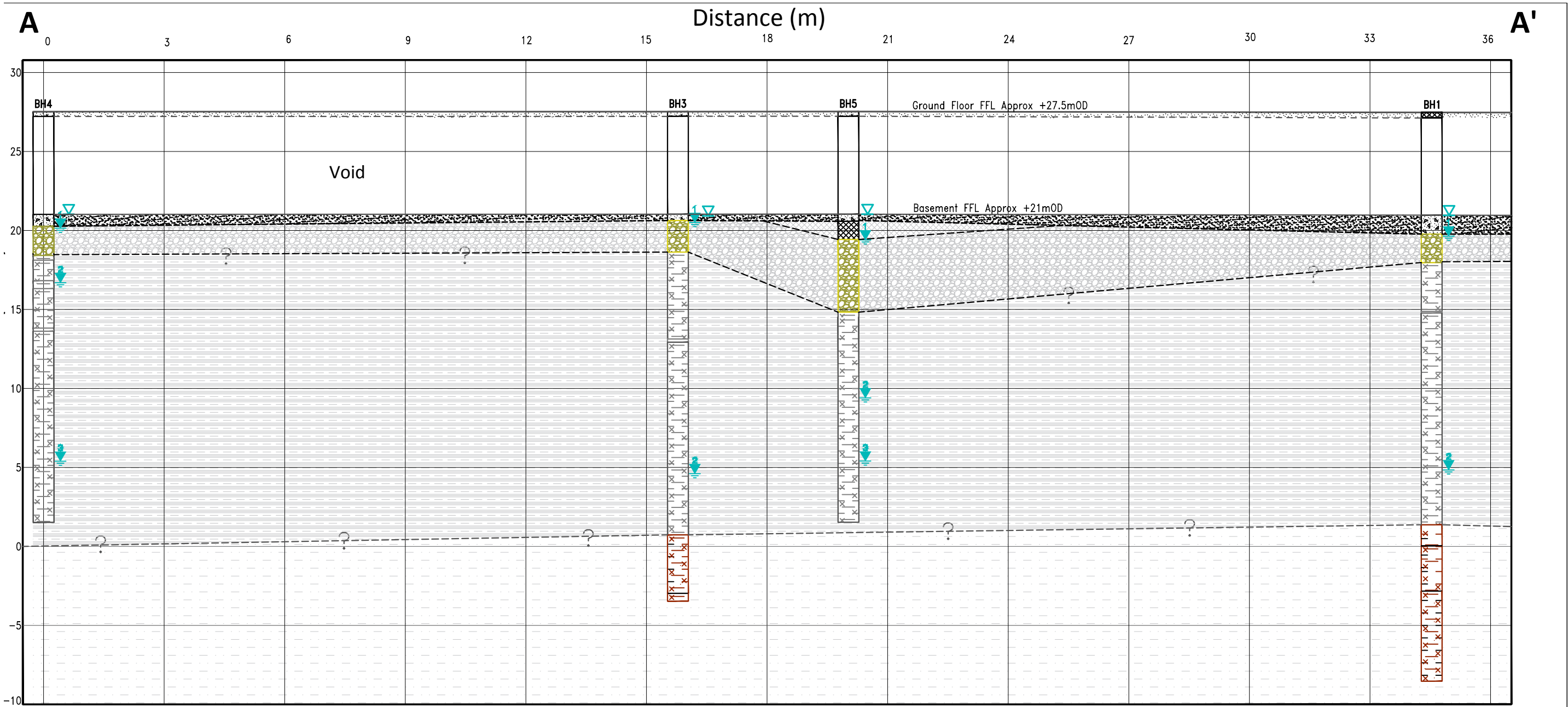
Client	Project	Job No
1923 Mortimer Estates Limited	Arthur Stanley House, Tottenham Street	CGL/09198a
	Title	Figure 5
	Plasticity Index Chart	

Relevant pollutant linkages and associated risks:

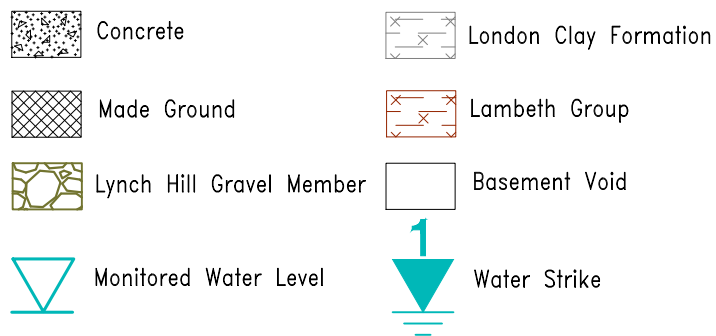
1. Direct ingestion of soil & dust, inhalation of asbestos fibres and dermal contact by future site occupants → **Low risk** → No asbestos fragments and fibres within the Made Ground and slightly elevated concentrations of lead within the Made Ground at one location– risk mitigated by barrier layers i.e. hardstanding/no soft landscaping proposed
2. Ingress of ground gases into buildings and subsequent inhalation/asphyxiation /or explosive risk → **Low** → assessment indicates CS1 and gas protection measures required based on ground gas monitoring and TOC assessment of Made Ground
3. Direct ingestion of soil & dust, inhalation of asbestos fibres, and dermal contact by construction workers → **Low to Medium**→ No Asbestos fragments and fibres identified within the Made Ground tested and slightly elevated concentrations of determinands within the Made Ground – risk mitigated by appropriate PPE
- 4a. Lateral/vertical migration to surface waters → **Negligible** → slightly elevated contaminants in Made Ground, no proximal surface water features. Elevated concentrations in Ground water – likely derived from an of-site source. Results for lead indicate low mobility/leachability of lead in Made Ground.
- 4b. Lateral/vertical migration to surface water receptors and deep groundwater → **Low** → some contaminants in groundwater above threshold levels for EQS and EC drinking water guidelines, sufficient aquiclude of the London Clay formation removing pathway from the secondary A aquifer of the Lynch Hill Gravel to the deeper regional aquifer of the Chalk.
5. Direct contact with water supply pipes and underground concrete structures → **Low to Medium** → mitigation through appropriate concrete design (AC-1 recommended) and specific barrier pipe design



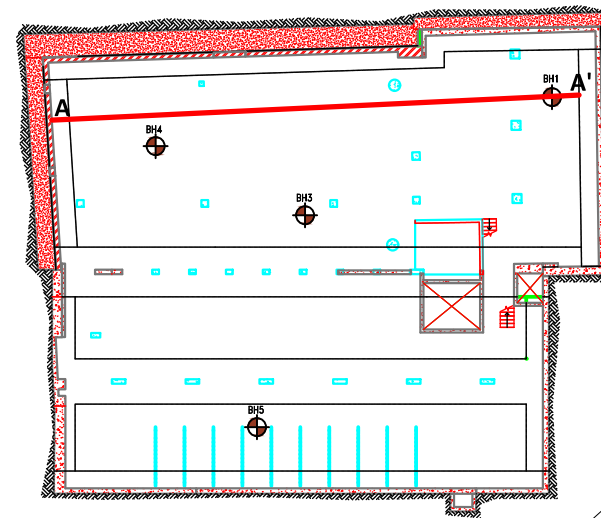
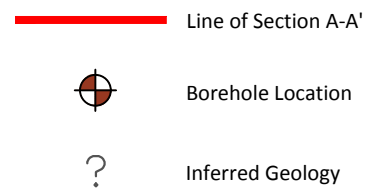
Client 1923 Mortimer Estates Limited	Project Arthur Stanley House, Tottenham Street	Job No CGL/09198a
	Title Conceptual Site Model	Figure 6



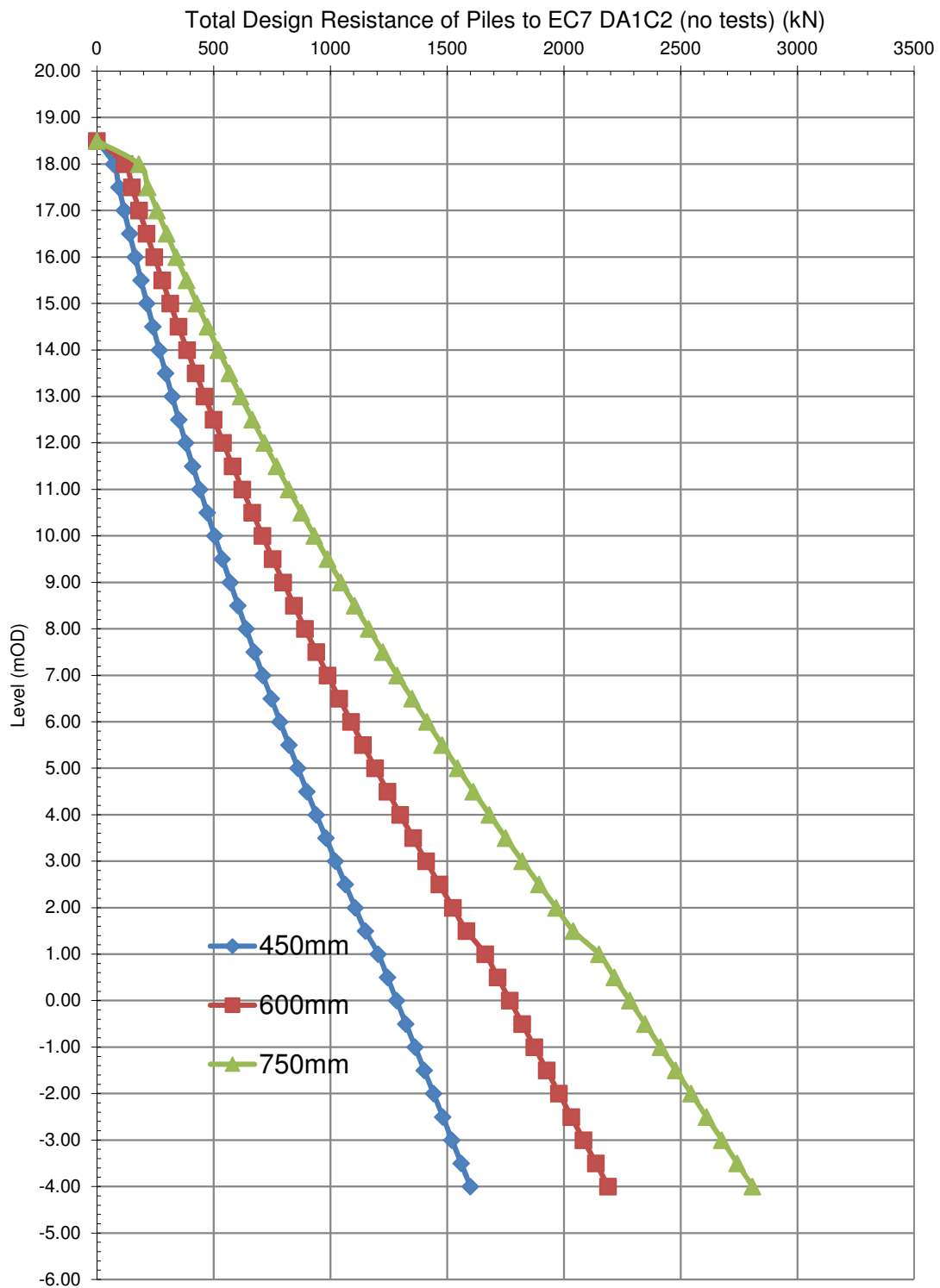
KEY



PLAN KEY



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 Providing Ground Solutions		
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Project	Arthur Stanley House, Tottenham Street	
Client	1923 Mortimer Estates Limited	
Drawing title	Geological cross section AA'	
Scale(s)	NTS	Job No. CGL/09198a
Drawn	TJB 09/02/18	Dwg No. Figure 7
Checked	EJB 15/02/18	Rev. 0
Approved	MPC 15/02/18	
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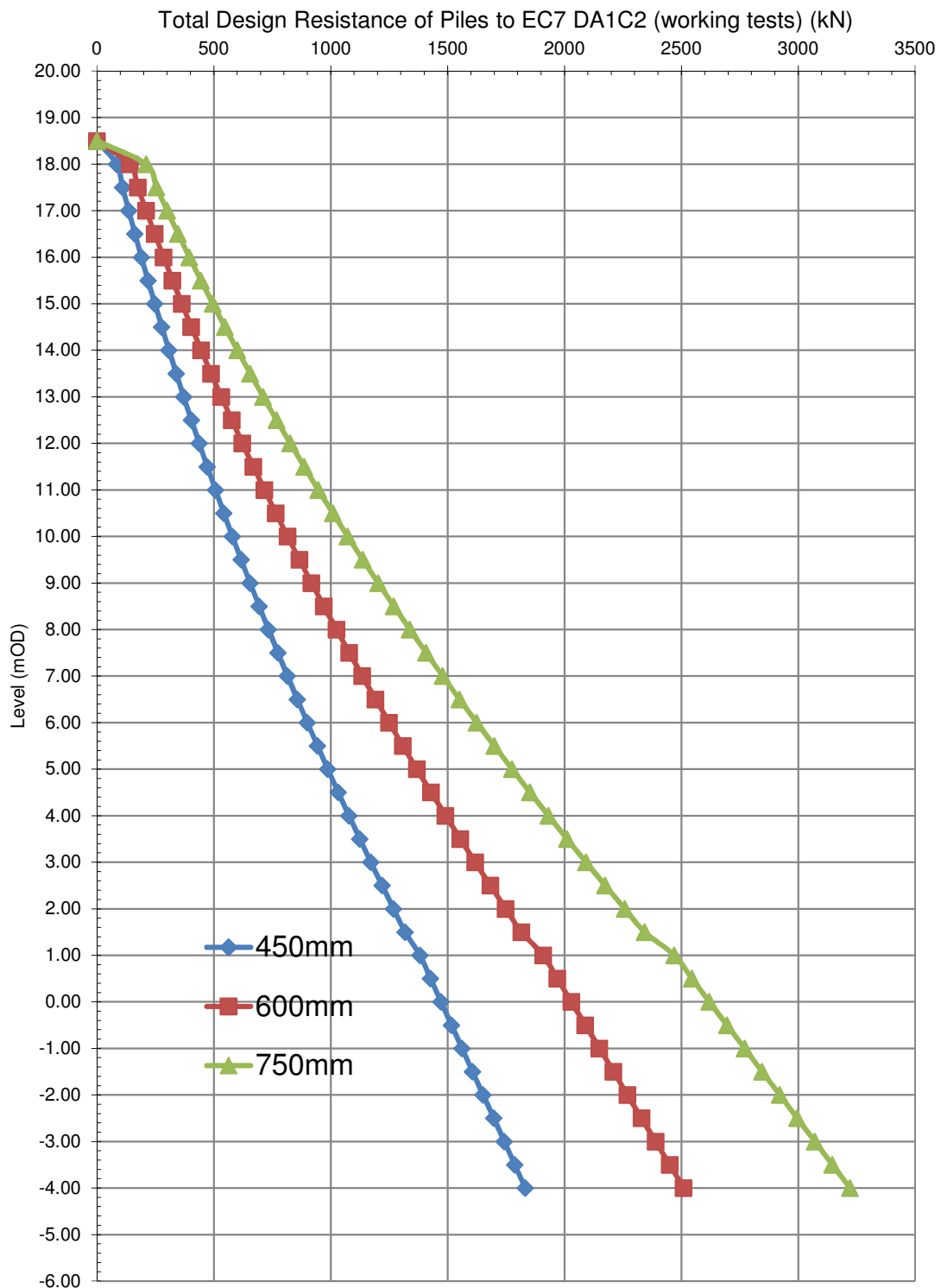
Project
**Arthur Stanley House, Tottenham
Street**

Job No
CGL/09198a



Title
**Preliminary Pile Capacities – No
Working Test Piles**

Figure 8



Client

**1923 Mortimer Estates
Limited**

Project

**Arthur Stanley House, Tottenham
Street**

Job No

CGL/09198a



Title

**Preliminary Pile Capacities –
Working Test Piles**

Figure 9

GENREAL REPORT ABBREVIATIONS

ACM	Asbestos Containing Material	GPR	Ground Penetrating Radar
AOD	Above Ordnance Datum	Ha	Hectare
BaP	Benzo(a)pyrene	HMRC	HM Revenue & Customs
bgl	Below ground level	HSE	Health & Safety Executive
BGS	British Geological Survey	HSV	Hand Shear Vane
BIA	Basement impact assessment	kPa	KiloPascals
BTEX	Benzene, Toluene, Ethylbenzene, Xylenes	MMP	Materials Management Plan
BRE	Building Research Establishment	NGR	National Grid Reference
BSI	British Standards Institute	OS	Ordnance Survey
C4SL	Category 4 Screening Level	OCP	Organochlorine Pesticides
CAT	Cable Avoidance Tool	OPP	Organophosphorus Pesticides
CBR	California Bearing Ratio	PAHs	Polycyclic Aromatic Hydrocarbons
CGL	Card Geotechnics Limited	PBET	Physiologically Based Extraction Testing
CIRIA	Construction Industry Research and Information Association	PCBs	Polychlorinated Biphenyls
CL:AIRE	Contaminated Land: Applications in Real Environments	PID	Photoionisation detector
CLEA	Contaminated Land Exposure Assessment	ppb	Parts per billion
CLR	Contaminated Land Report	ppm	Parts per million
CPT	Cone Penetration Test	PSD	Particle Size Distribution
CS	Characteristic Situation	RIP	Remediation Implementation Plan
CSM	Conceptual Site Model	RQD	Rock Quality Designation
c_u	Undrained Shear Strength	SGV	Soil Guideline Value
DCP	Dynamic Cone Penetrometer	SOM	Soil Organic Matter
DEFRA	Department for the Environment, Food and Rural Affairs	SPT	Standard Penetration Test
DP	Dynamic Probe	SSL	Soil Saturation Limit
DPM	Damp Proof Membrane	SSRA	Site Specific Risk Assessment
DWV	Drinking Water Value	SPZ	Source Protection Zone
EA	Environment Agency	SVOC	Semi-Volatile Organic Compounds
EHO	Environmental Health Officer	TCR	Total Core Recovery
EQS	Environmental Quality Standard	TPH	Total Petroleum Hydrocarbons
FID	Flame Ionisation Detector	TPHCWG	Total Petroleum Hydrocarbons Criteria Working Group
GAC	Generic Assessment Criteria	UKWIR	UK Water Industry Research
GSV	Gas Screening Value	UXO	Unexploded Ordnance
		VOC	Volatile Organic Compounds
		WAC	Waste Acceptance Criteria
		WSV	Water Screening Value