



**DESIGN PACKAGE C122
BORED TUNNELS**

**ADDENDUM TO WSI: CUSTOM HOUSE
STATION ARCHAEOLOGICAL
TRENCHES 2 – 4 (C315 EARLY WORKS)**

Document Number: C122-OVE-T1-RGN-CR145-50001

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Addendum to WSI: Custom House Station Archaeological Trenches 2-4
C122-OVE-T1-RGN-CR145-50001 Rev 1.0

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1 Introduction

This document provides details of the archaeological works required to mitigate impacts of surface rail construction activities on potential buried archaeological resources at Custom House Station. It sets out the location and recording activities required for three archaeological evaluation trenches, numbered Tr2, Tr3 and Tr4 (see Figure 1).

This document has been prepared as a specification for C315 who have been contracted to excavate 3 of the 4 archaeological trenches ahead of main construction. The remaining archaeological trench (Tr1) and non-listed built heritage (NLBH) works detailed in the Written Scheme of Investigation for Custom House Station (C146-ATK-T1-RGN-CR145-00003) still form part of the requirements for C520 main construction works. The three trenches discussed in this document are located along the main tunnel route adjacent to DLR Custom House station. In order to reduce programme and delay risk associated with main construction works these trenches have been brought forward from the main C520 programme.

This document is an addendum to the Written Scheme of Investigation for Custom House Station (C146-ATK-T1-RGN-CR145-00003) and should be read in conjunction with that document. The core change to this WSI has been to reduce the number of total trenches from 5No. to 4No.

This document outlines the requirements of the *Main Contractor* (Section 3) and the requirements of the *Archaeological Contractor* (Section 4) specific to taking forward the early works of excavating these 3 trenches separate to the main works.

2 Scope of Works

2.1 Aims of the Watching Brief

The overall aim of the archaeological works is to document the nature of the potential buried archaeology and to record and sample the buried geoarchaeological environment. Further details can be found within the Custom House WSI.

Figure 1 below shows the location of the three trenches (trenches 2-4) to be excavated by C315 in addition to the C520 trench (trench 1) located along the alignment.

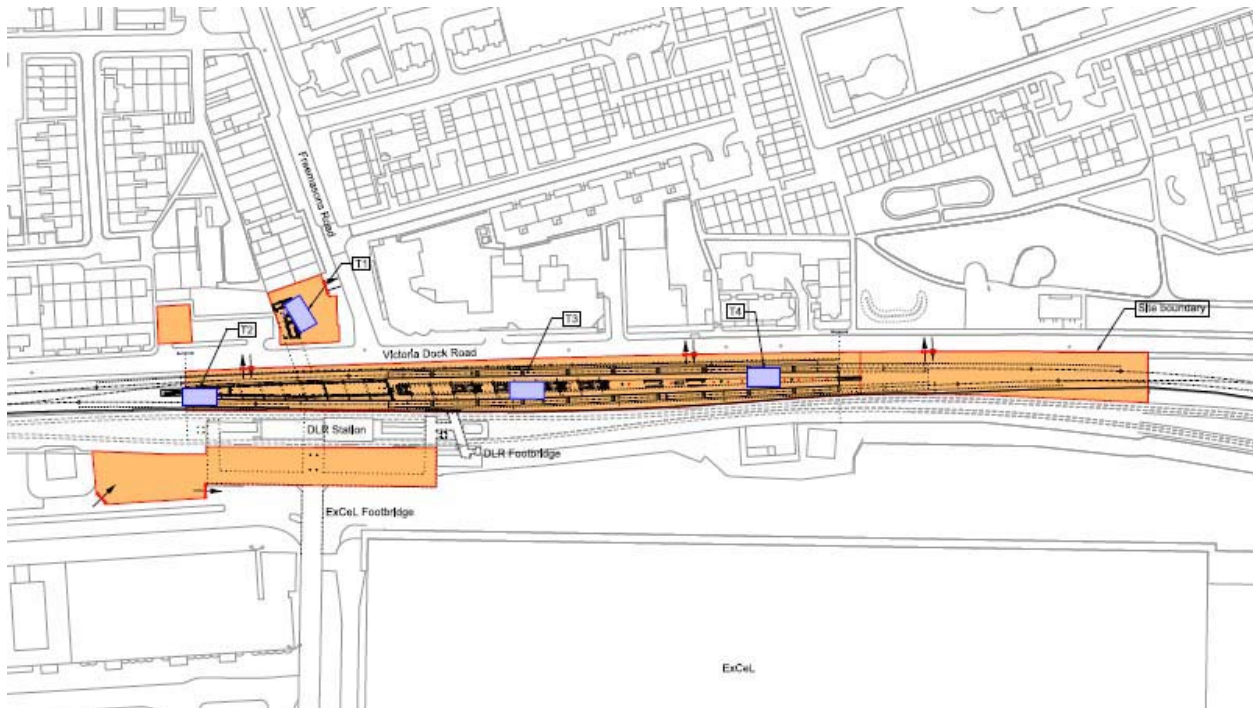


Figure 1. Site Plan

2.2 Site Specific Aims

The following site-specific research aims can be found in the WSI. They include:

Prehistoric

- P1 What is the development of the local landscape, topography and environment of the Thames floodplain? What Palaeoenvironmental data is there to inform on this development?
- P2 Is there any evidence for Palaeolithic activity at the interface between the Pleistocene gravels and early Holocene channel deposits? If so, what form does this take?
- P3 Is there any evidence for Mesolithic activity at the base of the alluvium/surface of the gravels? Is there any evidence of Mesolithic activity on the higher gravel areas of LZ3? If so, what form does this activity take- fishing, hunting, flint working etc?
- P4 If peat deposits can be securely dated, what activity is contained within them, and how does this help to refine knowledge of prehistoric activity, occupation and settlement in the marginal wetland habitats?
- P5 Can buried wood remains identified in the peat deposits be determined to be natural or artefactual in nature? If so is there evidence for prehistoric trackways additional to that already known in the area, and how do they interrelate?
- P6 Is there any evidence for later prehistoric activity or occupation? What is the nature of activity in the marginal marshlands of LZ4? Is there evidence of prehistoric water management or subsistence fishing? What is the nature of activity on the higher grounds of LZ3? Is there evidence of semi-permanent occupation?

3 Specific Requirements for the Main Contractor (C315)

3.1 Archaeological Trench Evaluation

- 3.1.1** Three trenches located along the surface rail alignment have been brought forward from the main C520 programme in order to reduce risk and delays to that programme. The NLBH and Trench 1 works will still be carried out as part of the main C520 programme.
- 3.1.2** The *Main Contractor* shall excavate three No. trial trenches on behalf of Archaeological Contractor C263 (see Figure 2). These shall be excavated at between 100mm and 300mm spits. The trenches to be excavated are numbered Tr.2 through to Tr.4 on Figure 1.
- 3.1.3** There are two options for excavation of the archaeological trenches. Option 1 is to dig a benched trench measuring 15 x 10m at top (as outlined below in Figure 2). If Option 1 is not suitable due to space restriction, Option 2 is an alternative suitable method (see figure 3). Option 2 requires shoring of a 4m x 2m x 4m deep trench usually sheet piled. In order to get an archaeologically robust profile the following method is proposed for excavation of Option 2.
- 1) Excavate an agreed depth (approx. 1m) of soil longitudinally and leave an approximately 1m thick section against the longitudinal side of the sheet piling.
 - 2) Allow thin section to be recorded by archaeologists
 - 3) Remove this strip and repeat excavation to 2nd agreed depth (approx 1m)
 - 4) Repeat recording and excavation process until base depth of trench is reached.
- 3.1.4** Modern overburden will be removed by the *Main Contractor* by machine under the supervision of the *Archaeological Contractor* to expose any surviving archaeology. Following the removal of the overburden, the *Main Contractor* shall allow the *Archaeological Contractor* to enter the trench to allow for recording and sampling of features.
- 3.1.5** All machine work and demolition of below-ground obstructions (e.g. removal of Station foundations and surface rail foundations) shall be carried out by the Main contractor under supervision by the Archaeology Contractor. The Main contractor shall cease work when archaeological evidence is revealed and allow the Archaeology Contractor to undertake investigation, as appropriate. An excavator shall not be used to excavate arbitrarily down to natural deposits without regard to the archaeological stratification.
- 3.1.6** The archaeological level shall be cleaned in plan by the *Main Contractor* using a wide blade, ditching bucket or similar, with no teeth. If the machine has to re-enter the trench care will need to be taken to ensure that it does not damage underlying remains.

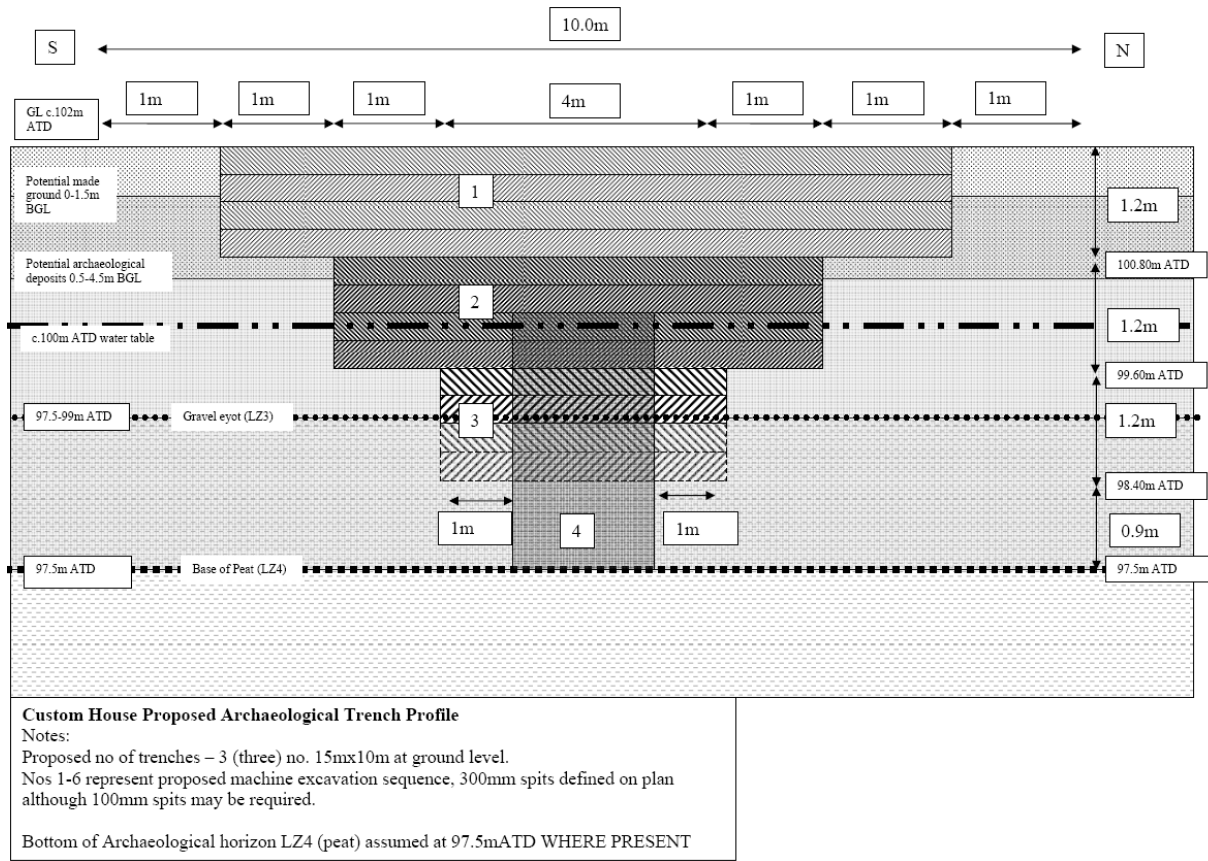


Figure 2: Option 1-Proposed excavation method for Archaeological Evaluation trial trenches

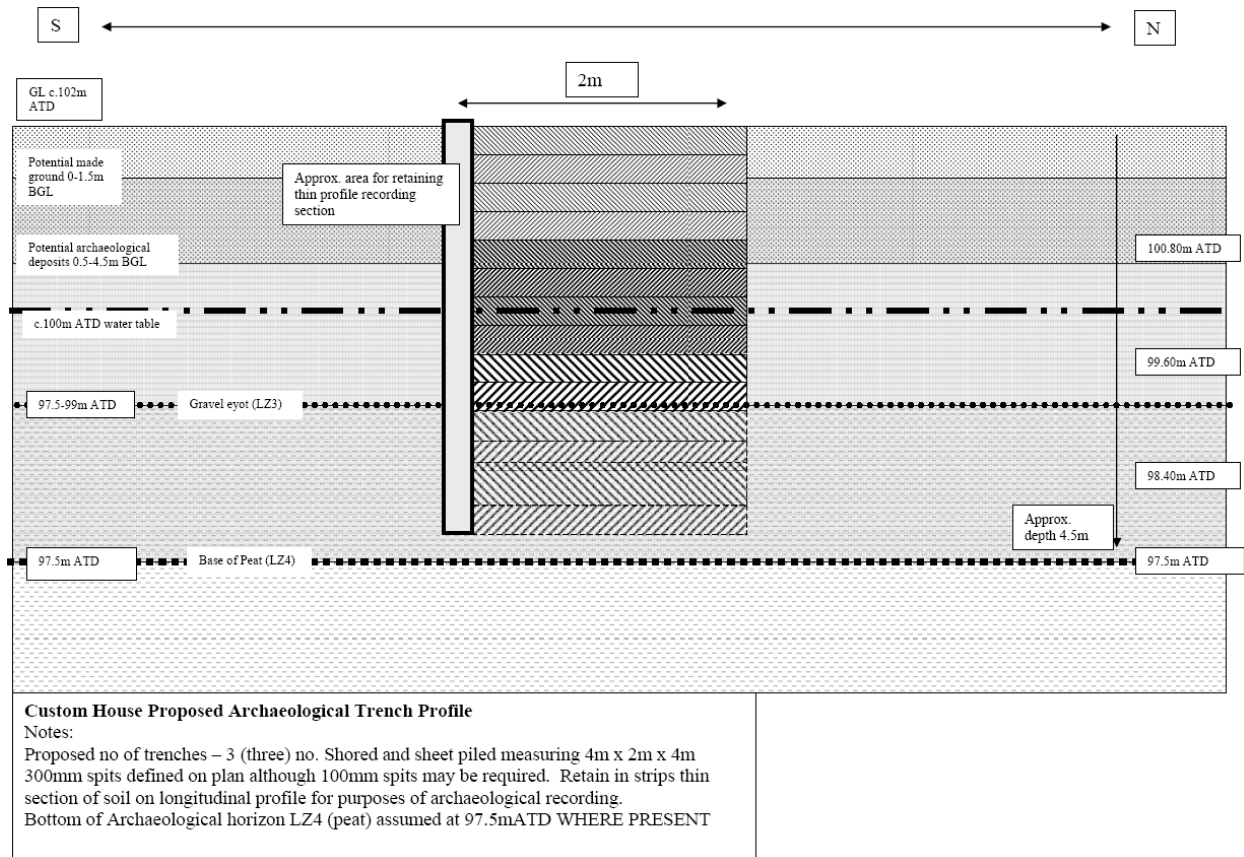


Figure 3: Option 2- Proposed excavation method for Archaeological Evaluation trial trenches

3.1.7 Trench Evaluation Procedure

3.1.8 The Main Contractor shall:

- Ensure no live underground services exist in the area identified for excavation;
- Remove, under supervision of *Archaeologist Contractor*, modern overburden,
- Prepare and undertake breakout structures and soils with the agreement of, and under the supervision of, the *Archaeological Contractor C263*;
- Place excavated material in spoil heaps at an agreed safe distance from the site of the trench, as agreed with the *Archaeological Contractor*;
- Provide all temporary earthworks support to excavations where required;
- Provide dewatering within the trenches to allow the investigation to proceed;
- Allow suitable access from ground level to base of excavated area for archaeologists to work, including the provision of shoring and propping as required to make trenches safe;
- Excavate in stages/steps to the bottom of archaeology to aid archaeological excavation by localised machining of areas of recorded soils or structures between the ground level and the top of natural soils;
- Use of excavators or other plant within the excavation area shall only be undertaken with the agreement of and under the supervision of, the *Archaeological Contractor*;



- Provide further technical advice to the *Archaeological Contractor* as maybe required to safely complete the works.

3.2 Site Accommodation and Facilities

The *Main Contractor* shall provide the following site accommodation facilities for the use of archaeological operatives, inclusive of any hardstanding and services required

- Toilets, with drying and washing facilities;
- First Aid;
- Temporary office for the use of archaeologists complete with furniture; and,
- Secure storage facilities for tools, finds etc.

3.3 Healthy by Design

Additional considerations for provision of a safe working environment are given in Appendix B – Designer's Risk Control Log Summary, in accordance with the Crossrail Standards:

- *Healthy By Design: A guide for Crossrail Design Teams* (Document reference: CR-XRL-Z7-XCS-CR001-0001)



4 Instructions to C263 *Archaeological Contractor* and Specification

4.1 Archaeological Trench Evaluation

The Archaeology Contractor shall supervise the excavation of each evaluation trench in such a manner so as to allow a cumulative or continuous section to be recorded. The Archaeology Contractor shall undertake hand excavation and cleaning of any archaeologically significant horizons, to fulfil the aims of the work.

Further background information on the general scope of work and requirements on the *Archaeological Contractor* are to be found in the Site Specific Written Scheme of Investigation for Custom House Station, document reference number: C146-ATK-T1-RGN-CR145-00003.

The *C263 Archaeological Contractor* shall provide suitably qualified archaeologists, experienced in building recording and the nature of archaeological deposits which are expected on this site.

4.2 Deliverables

The required deliverables, including *Archaeological Contractor's* Method Statement, Site Monitoring and Progress Reports, Site Archives, Interim Statement, Survey Report, Fieldwork Report, SMR Report, Summary Report and Post-Excavation Assessment are set out in Sections 8 and 9 of the Written Scheme of Investigation for Custom House Station (C146-ATK-T1-RGN-CR145-00003) and in the C263 contract requirements.



5 Programme

A start date for archaeological trench evaluation is likely to the 4th QTR 2012.

The timetable involved in the archaeological trench evaluation is set out as:

- Main Contractor take possession of site;
- Trench excavation of Trenches 2 to 4 under Archaeological supervision, 2 – 3 weeks;
- Post excavation activities: This will involve interim reporting after seven days and post-excavation reporting and analysis as required.



6 References

2011 Design Package C146 Custom House Station Site Specific Archaeological Written Scheme of Investigation, document reference number: C146-ATK-T1-RGN-CR145-00003

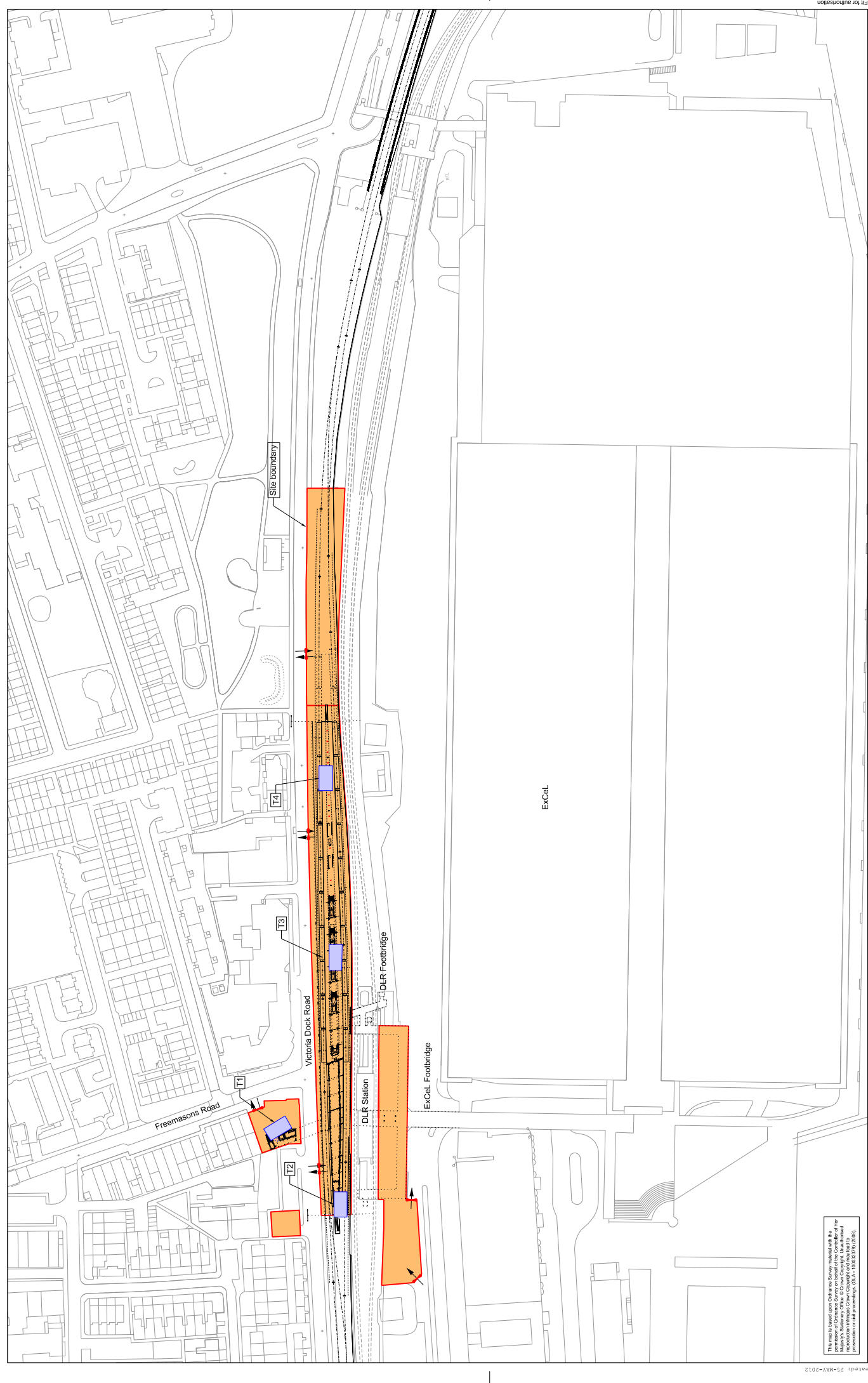
Healthy By Design: A guide for Crossrail Design Teams, document reference number: CR-XRL-Z7-XCS-CR001-0001



Appendix A – Archaeological Mapping Information

Drawing Site plan C146-ATK-G-DDA-CR145_Z-02500

Trench profile



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Rev.	Date	Description
P02	24/05/2012	RF - Issued for Tender
P01	18/02/2012	Final Issue

Notes

Legend	Color
Worksite area	Orange
Site boundary	Dashed line
Archaeological Trenches	Blue

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Rev: P02 S4

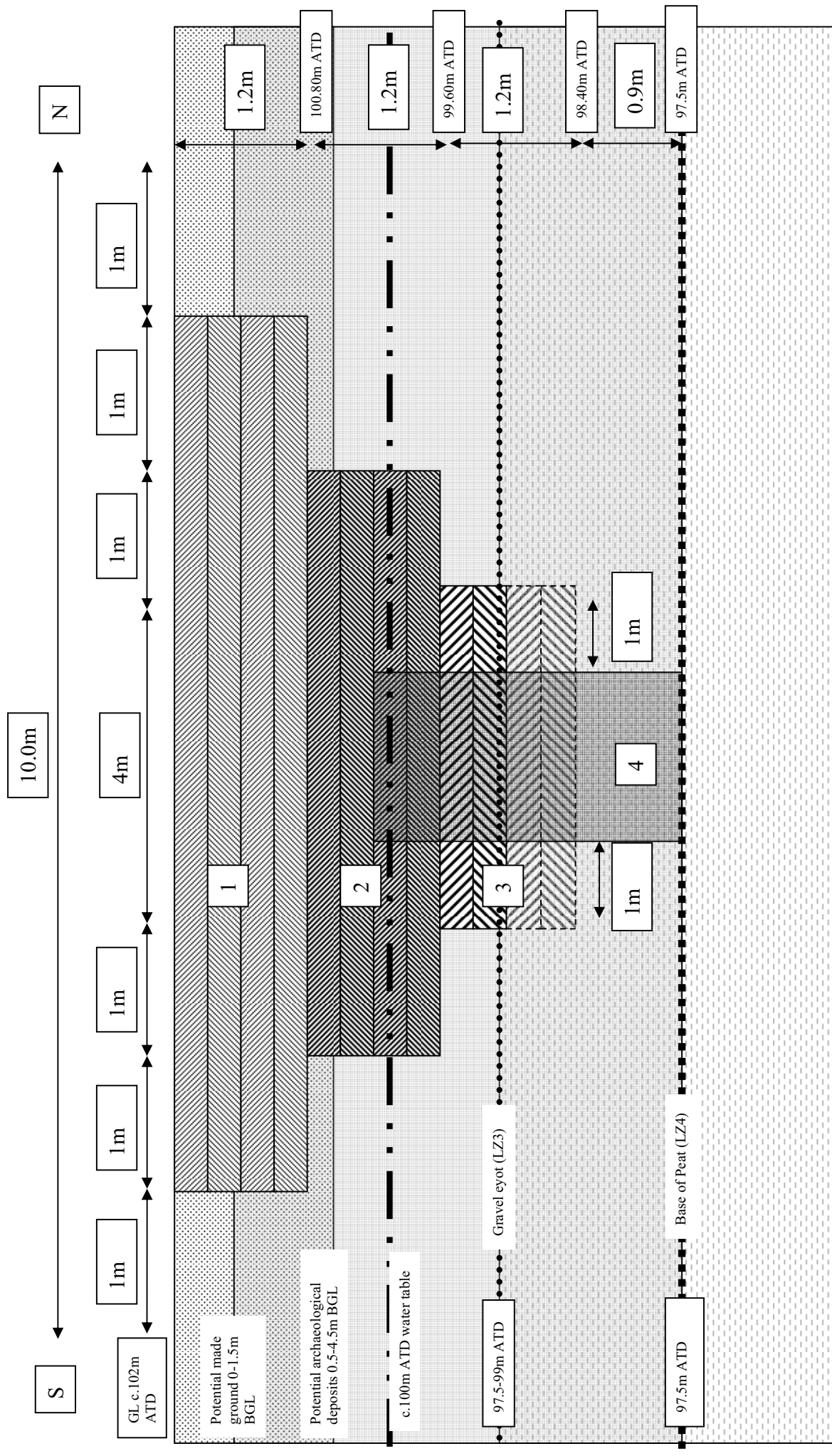
CLIENT
 Custom House Station Design
 West Atkins Rail Limited (Croydon)

LOCATION
 Custom House Stn

PROJECT
 Custom House Station
 Archaeological trenches

CC520

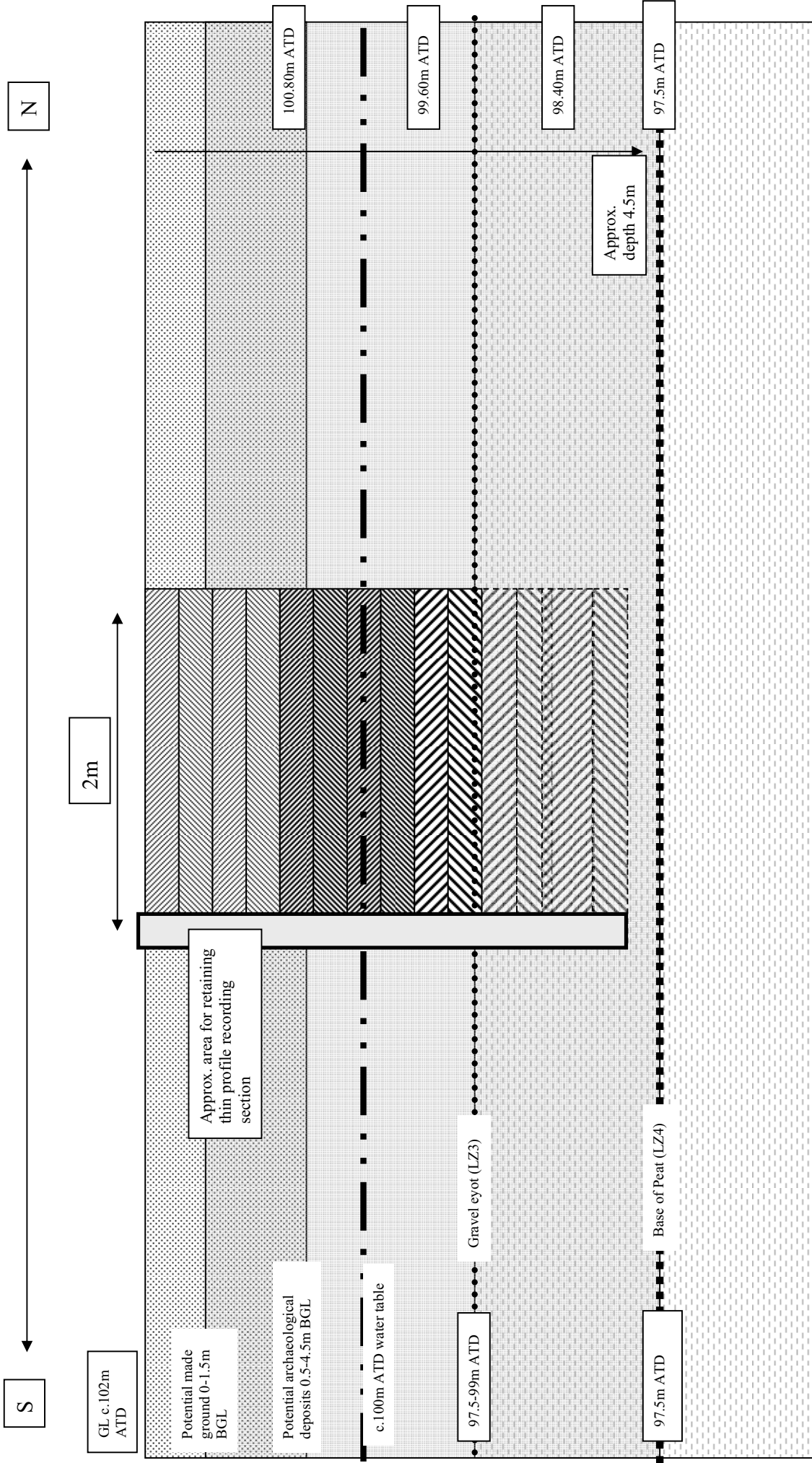
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 CDR: C.COSUM
 App: C.COSUM
 Date: ...



Custom House Proposed Archaeological Trench Profile

Notes:
 Proposed no of trenches – 3 (three) no. 15mx10m at ground level.
 Nos 1-6 represent proposed machine excavation sequence, 300mm spits defined on plan although 100mm spits may be required.

Bottom of Archaeological horizon LZ4 (peat) assumed at 97.5mATD WHERE PRESENT



Custom House Proposed Archaeological Trench Profile

Notes:

Proposed no of trenches – 3 (three) no. Shored and sheet piled measuring 4m x 2m x 4m 300mm spits defined on plan although 100mm spits may be required. Retain in strips thin section of soil on longitudinal profile for purposes of archaeological recording.
 Bottom of Archaeological horizon LZ4 (peat) assumed at 97.5mATD WHERE PRESENT

Appendix B – Designer’s Risk Control Log Summary

Significant residual risks have been identified through *Designer’s* risk assessment (Eliminate Reduce Isolate Control).

Activity	Health Risk	ERIC	Possible Control Measure	Responsibility
General Site Working	All following	E	Site Specific Induction, toolbox talks etc.	<i>Main Contractor</i>
		R	Contractors’ Method Statements and Risk Assessments to be approved in writing prior to working. All site staff to confirm that they have read and understood MS and RA	<i>Designer</i> <i>Main Contractor</i> <i>Archaeological Contractor</i>
		I	Zoning of site activities to prevent unnecessary overlap of working areas	<i>Designer</i> <i>Main Contractor</i> <i>Archaeological Contractor</i>
		C	Ensure all site staff are competent and aware of risks (e.g. CSCS cards)	<i>Main Contractor</i> <i>Archaeological Contractor</i>
	Contact with plant/machinery, trips, falls,	E	Zoning of site activities to prevent unnecessary overlap of working areas	<i>Designer</i> <i>Main Contractor</i> <i>Archaeological Contractor</i>
		R	Minimum PPE to be worn at all times to include Hi-Visibility clothing, Hard Hats, site safety boots, safety glasses, gloves.	<i>Main Contractor</i> <i>Archaeological Contractor</i>
		I	Zoning of site activities to prevent unnecessary overlap of working areas	<i>Designer</i> <i>Main Contractor</i> <i>Archaeological Contractor</i>
		C	Minimum PPE to be worn at all times to include Hi-Visibility clothing, Hard Hats, site safety boots, safety glasses, gloves.	<i>Main Contractor</i> <i>Archaeological Contractor</i>



Activity	Health Risk	ERIC	Possible Control Measure	Responsibility
	Contaminated land/disease etc	E	Geotechnical reports indicate risk of contamination due to previous site use as railway. Asbestos to be identified and removed by specialist clearance contractors prior to demolition of Barge Public House	<i>Main Contractor</i>
		R	Geotechnical reports indicate risk of contamination due to previous site use as railway. Appropriate PPE to be provided by <i>Archaeological Contractor</i> as required.	<i>Archaeological Contractor</i>
		I	Any areas of contamination identified during excavation are to be reported and remedial measures put in place prior to further excavation.	<i>Main Contractor</i> <i>Archaeological Contractor</i>
		C	Staff required to wash hands before ingestion of food/drink etc.	<i>Main Contractor</i> <i>Archaeological Contractor</i>
			Welfare for hygiene etc. is to be provided by Main contractor at Archaeologist site office. To include washing facilities	<i>Main Contractor</i>
Deep excavation Archaeological contractors will require access to deep excavations	Falls from height, tripping etc. Objects falling from height.	E	n/a	
		R	Dedicated Egress – ramping with edge guard is preferred option. Edge Guards/Heras fencing to be specified to provide barrier to deep excavation and prevent falls from objects into trench.	<i>Main contractor</i>
		I	n/a	

Activity	Health Risk	ERIC	Possible Control Measure	Responsibility
	Burial from spoil or loose material falling into the trench	C	Deep excavation signs	
		E	Working direction is to be controlled, with spoil delivered to a defined area or areas within the trench to be removed by machine directly into muck-away vehicles	<i>Designer</i> <i>Main Contractor</i> <i>Archaeological Contractor</i>
		R	Two routes are specified into trench (specific locations to be determined by <i>Main Contractor</i>)	<i>Designer</i> <i>Main Contractor</i>
		I	n/a	
		C	No spoil to be placed within 2m of trench edge	<i>Main Contractor</i> <i>Archaeological Contractor</i>
Plant and Machinery	Proposed Archaeological contractor's working route towards proposed location of plant. Risk of contact with excavating machine arm, crushing etc.	E	n/a	
		R	Appropriate PPE to be provided	<i>Archaeological Contractor</i>
		I	Ensure dedicated pedestrian routes away from arc of machine working	<i>Main Contractor</i>
		C	Employ banksman	<i>Main Contractor</i>
Site Traffic	Risk of injury or death from contact with moving vehicles	E	Proposed working and storage area for <i>Archaeological Contractor</i> to be located away from site traffic routes	<i>Designer</i> <i>Main Contractor</i> <i>Archaeological Contractor</i>
		R	n/a	
		I	Controlled crossing points and separation of pedestrian/site traffic routes	<i>Main Contractor</i>
		C	n/a	
Use of hand tools	Possible injury resulting from use of hand tools, e.g. mattocks, trowels, spades	E	n/a	



Activity	Health Risk	ERIC	Possible Control Measure	Responsibility
		R	Appropriate training and PPE to be provided	<i>Archaeological Contractor</i>
		I	n/a	
		C	n/a	
Adverse Weather	Changeable ground conditions leading to trips and falls etc.	E	n/a	<i>Archaeological Contractor</i>
		R	Use of Youngmans boards or similar is to be specified for the transportation of spoil where appropriate	<i>Main Contractor</i>
		I	Appropriate finishing to egress ramps (e.g. compacted hardcore/rubble to provide sufficient purchase, edge guard etc.)	<i>Main Contractor</i>
	C	Appropriate PPE to be provided for adverse weather working	<i>Archaeological Contractor</i>	
	Adverse weather conditions may require use of electrical equipment powered by generators (e.g. pumps, temporary lighting etc), with accompanying associated risks for electrocution etc.	E	n/a	
		R	Energy Supply methods and risk assessment to be detailed in Contractor's method statements	<i>Main Contractor</i>
		I	n/a	



Activity	Health Risk	ERIC	Possible Control Measure	Responsibility
		C	Only staff with appropriate training are to operate generators and other electrically operated equipment (for example pumps)	<i>Archaeological Contractor</i>
<p>Buried utilities/services</p> <p>Existing utilities plan indicates main utilities corridors are routed primarily through road surfaces and are not present within area of proposed evaluation.</p> <p>A concentration of basement rooms with utilities are identified at barge Public House. These should be removed by demolition.</p>	<p>Hazardous contact with buried services e.g. electrical shock, gas leakage/explosion, contamination through contact with sewage etc.</p>	E	<p>This area is to be excluded from the archaeological design and identified on plan.</p> <p><i>Main Contractor</i> to confirm that appropriate action has been taken to decommission services prior to archaeological investigation.</p> <p><i>Main Contractor</i> to identify location of utilities/services in Method Statement and on plan.</p>	<p><i>Designer</i></p> <p><i>Main Contractor</i></p>
		R	n/a	
		I	Surface sweep (e.g. CAT scan) to be undertaken prior to excavation by <i>Main Contractor</i> .	<i>Main Contractor</i>
		C	Banksman to be employed to watch for possible buried services/utilities	<i>Main Contractor</i>
			Appropriate PPE measures as outlined above for contamination	<i>Main Contractor</i> <i>Archaeological Contractor</i>
<p>A concentration of basement rooms Toilet block indicated on existing plans for Barge Public House.</p>	<p>Contamination through contact with sewage etc.</p>	E	n/a	
		R	n/a	
		I	<p><i>Main Contractor</i> to identify location of utilities/services in Method Statement and on plan.</p> <p>Surface sweep (e.g. CAT scan) to be undertaken prior to excavation by <i>Main Contractor</i>.</p>	<i>Main Contractor</i>



Activity	Health Risk	ERIC	Possible Control Measure	Responsibility
		C	Banksman to be employed to watch for possible buried services/utilities	<i>Main Contractor</i>
			Appropriate PPE measures as outlined above for contamination	<i>Main Contractor</i> <i>Archaeological Contractor</i>
High Voltage Over head Cables	High voltage cables overhang from DLR to south of main site	E	n/a	
		R	n/a	
		I	Main Contractor to identify location of exclusion zones in Method Statement and on plan.	<i>Main Contractor</i>
		C	Risks of high voltage cables are to be made clear to all site workers during induction	<i>Main Contractor</i>
Natural Methane	May be present in areas of peat.	E	n/a	
		R	Avoid creating confined spaces where methane could accumulate	<i>Main Contractor</i>
		I	Ensure gas monitors are provided, and training for use, where appropriate	<i>Main Contractor</i> <i>Archaeological Contractor</i>
		C	Appropriate PPE measures as outlined above for contamination	<i>Main Contractor</i> <i>Archaeological Contractor</i>
Unexploded ordnances (UXO)	Records show there is a low to moderate risk	E	<i>Main Contractor</i> to employ UXO specialist to undertake site survey and probe for UXO	<i>Main Contractor</i>
		R	Briefing by UXO specialist to site staff where appropriate.	<i>Main Contractor</i>



Activity	Health Risk	ERIC	Possible Control Measure	Responsibility
		I	Potential UXO to be reported immediately to site manager and isolated. Any works halted.	<i>Main Contractor</i>
		C	Following identification Authorities to be informed. Procedures for remediation as set out in Main Contractor's method statement to be enacted	<i>Main Contractor</i>