

Middlesex Annex, Camden

WSI Addendum for the archaeological excavation and watching brief

Iceni Projects Limited on behalf of Middlesex Annex LLP

June 2020

Iceni Projects London: Da Vinci House, 44 Saffron Hill, London, EC1N 8FH Manchester: This is The Space, 68 Quay Street, Manchester, M3 3EJ Edinburgh: 11 Alva Street, Edinburgh, EH2 4PH Glasgow: 177 West George Street, Glasgow, G2 2LB

t: 020 3640 8508 | w: iceniprojects.com | e: mail@iceniprojects.com linkedin: linkedin.com/company/iceni-projects | twitter: @iceniprojects Middlesex Annex, Camden wsi addendum for the archaeological excavation and watching brief

Document	Date Issued	Report By	Notes
lssue #			
1	02/06/2020	Stephen McLeod (PClfA), Senior	First issue for GLAAS review
		Archaeologist	
		Robert Tutt- Project Manager	
		Claims Concer (NACISA) Desired Diverses	
		Claire Cogar (MCIfA)- Project Director	
2	25/06/2020	Stephen McLeod (PCIfA), Senior	Updated to include minor edits
		Archaeologist	from GLAAS
		Robert Tutt- Project Manager	
		Claire Cogar (MCIfA)- Project Director	

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1. INTRODUCTION

- 1.1.1 This document is the Addendum (Addendum 1) to the Written Scheme of Investigation (WSI) for archaeological excavation and watching brief at Middlesex Hospital Annex, 44 Cleveland Street, Camden, London, W1T 4JT (Iceni, version 10 2nd of April 2020). This addendum details the additional construction impacts to be mitigated by the next phase of archaeological excavation and watching brief.
- 1.1.2 The need for this addendum was anticipated at the time of writing the original WSI (see paragraph 1.8, Iceni 2020).
- 1.1.3 Consultation with Laura O' Gorman, Archaeological Advisor to Camden Council, determined the requirements for this addendum. This document will set out the additional works and archaeological mitigation to be completed on the site.
- 1.1.4 All archaeological excavation and watching brief work will be carried out in accordance with the archaeological methodology detailed in Section 5 of the previous WSI for archaeological excavation and watching brief at Middlesex Annex (Iceni, 2020). Those terms are not restated here but should be understood. This Addendum therefore only covers subjects or methodologies which need further clarification in the light of better definition of the area now available for investigation and the enabling works required to permit such works.
- 1.1.5 In April 2020, prior to commencement of the excavation, a watching brief was completed on the installation of kingpost piles designed to support the excavation during Phase 2A, 2B and 2C and the southern perimeter wall of the site during Phase 1. A watching brief was also undertaken on the reduction for the piling matt. Following installation of the piles, the piling mat within the kingpost structure was removed under archaeological watching brief by machine excavation. On completion of the piling mat dig, timber props and shoring were installed by Modebest.
- 1.1.6 Subsequently, excavation commenced in the Southern Perimeter Red Zone. Fourteen archaeological bays were excavated on site by LP Archaeology, in advance of secant piling in this area (Figure 1).
- 1.1.7 The southern archaeological excavation has primarily focussed on the hand excavation of grave fills and skeletons, as well as deposits associated with the 18th / 19th century burial ground and workhouse. The location of the grave cuts within the Southern Perimeter Red Zone is recorded in Figure 1
- 1.1.8 As of late May 2020, 62 burials have been excavated, along with the recovery of a quantity of disarticulated remains. The top of the current highest level for in situ burials was recorded was 25.35m OD. The current lowest level for excavation of skeletal remains is 24.75m OD. Natural deposits have been recorded at between 25.46m OD and 23.20m OD.

2. SPECIFICS OF WORKS

Continuation of Excavation

- 2.1.1 The location of the trenches associated with the next phase of excavation is shown on Figure 2
- 2.1.2 The next phase of excavation will be carried out in three separate parts described as follows:
 - The Northern Section (2A) 382m²
 - The Middle Section (2B)- 392m²
 - The Southern Section (2C)- 447m²
- 2.1.3 The attendance contractor, Modebest, will remove the remainder of the modern fill overlying the top of the archaeological horizon (c.300mm thick) either by machine using a flat bladed bucket or by hand (or a combination of the two) under archaeological supervision.
- 2.1.4 If any obstructions are found within the working zones they will be removed once the archaeological work is completed, unless they pose a threat to the operatives in the area. This shall be assessed by all parties when relevant.
- 2.1.5 Controlled excavation will commence once Iceni, LP Archaeology and Morgan Sindall agree that the clearance of modern material is complete, and the Temporary Works Coordinator has declared the area safe to enter.
- 2.1.6 The archaeological team will enter the working zone to hand clean the entirety of the area, defining the top of grave cuts. The location of these features will be located using a robotic total station.
- 2.1.7 Prior to the excavation of skeletal remains, a series of temporary tents 10m X 6m and 8m X 6m will be erected over the excavation area to screen the excavation of human remains from public view. In addition, three smaller 2.5m x 2.5m tents will be available for any localised excavation.
- 2.1.8 Throughout the archaeological excavation, in any given working zone, at approx. every 300 500mm (possibly more or less if the ground conditions will allow) Modebest will take control of the working zone and knock the king post shutters down. Prior to Modebest entering the area, the archaeological team will ensure the area is adequately protected and that grave cuts within the area have been cleared of human remain. There will an exclusion zone around the shutters when they are being knocked down by Modebest, though archaeological work will be able to continue safely within the rest of the area.
- 2.1.9 Any low-grade archaeological deposits such as homogenous layers or sterile pit fills will be reduced by the attendance contractor either utilising the machine with a flat bladed bucket, hand excavation or a combination of the two, under close archaeological supervision. A safe working exclusion zone will be agreed with Morgan Sindall to allow machining to proceed whilst archaeologists are working in the adjacent bay.

- 2.1.10 Modebest will assist with ground reduction in instances where graves are cut into natural ground or low-grade archaeological deposits.
- 2.1.11 Excavation will continue until all the areas have been excavated to clean natural geology/ the base of archaeology is reached or the maximum depth of excavation the temporary works can support is reached, which is 4 metres below ground level (mbgl).
- 2.1.12 At the front of the site, Ark Build will also commence piling for the insertion of drainage surface water tanks as illustrated in Figure 6. It is proposed that the construction impact is mitigated by watching brief, with provision for controlled archaeological excavation of post-medieval walls/floors or articulated burials are encountered.

Changes to Impact Level

- 2.1.13 The maximum depth of impact of the basement to the rear of the site has been revised to 21.10m OD. The temporary works for the main phase previously supported excavation to a depth of 22.75m OD across the whole area. In localised sections, in consultation with the Temporary Works Coordinator, it may be possible to step in and excavate the bases of any quarry pits away from the king post piles / perimeter walls.
- 2.1.14 Based on the results of the test trench evaluation, it is very likely that only affect post medieval quarry will extend below 22.75m OD. Any pits that cannot be fully dug during the excavation will be picked up by an archaeological watching brief during the basement excavation. The homogenous fills of these quarry pits will be machined with an Archaeologist in attendance. The spoil will be scanned for finds and the height and extent of the bases of the pits recorded.

Additional UXO Probing

2.1.15 UXO probing has been revised upwards to now include 86 UXO probes. These are concentrated in the phase 2A area and immediately adjacent to the south west, and in the north western part of the phase 2B area (Figure 4).

3. PROGRAMME SUMMARY UPDATE

Area	Programme label	Start	Finish
2A	Item 174 - Zone 1 bulk excavation	29.06.2020	16.11.2020
2B	Item 176 – Zone 2 bulk excavation	17.11.2020	22.03.2021
2C	Item 180 – Zone 3 bulk excavation	23.03.2021	16.07.2021

3.1.1 The current programme is detailed in Figure 5 of this Addendum. To summarise:

- 3.1.2 Laura O' Gorman, GLAAS Adviser to London Borough of Camden, will be given 5 days' notice of each phase starting on site, and will be kept updated as the work progresses. A programme of monitoring visits will be agreed during the excavation. Due to the current ongoing restrictions relating to COVID 19, GLAAS are not undertaking site visits. To enable GLAAS to monitor the works the following measures will be implemented for the duration of the restrictions:
 - Regular site photos and summary reports
 - Virtual progress meetings
 - Video site walkover

4. **REPORTING**

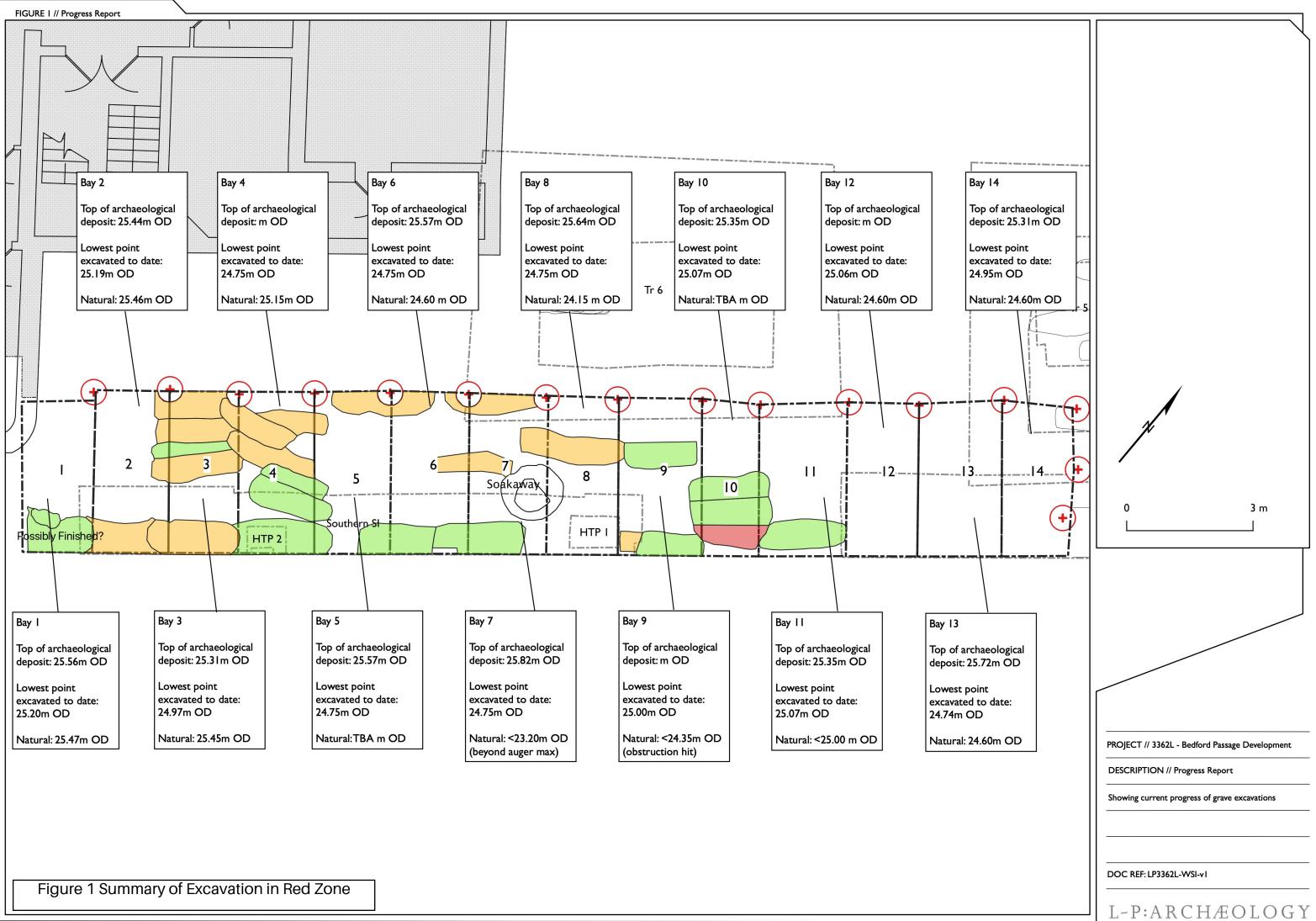
- 4.1.1 When the Phase 2 works are completed, a Post Excavation Assessment Report (PXA) and Updated Project Design will be produced by the Archaeological Contractor.
- 4.1.2 The PXA will be produced within 6 months of the completion of the Phase 2 field work and will be made available to the client and Historic England. Submission of the report to the Local Planning Authority will be carried out by the client or their planning consultant.

5. COVID-19 MITIGATION

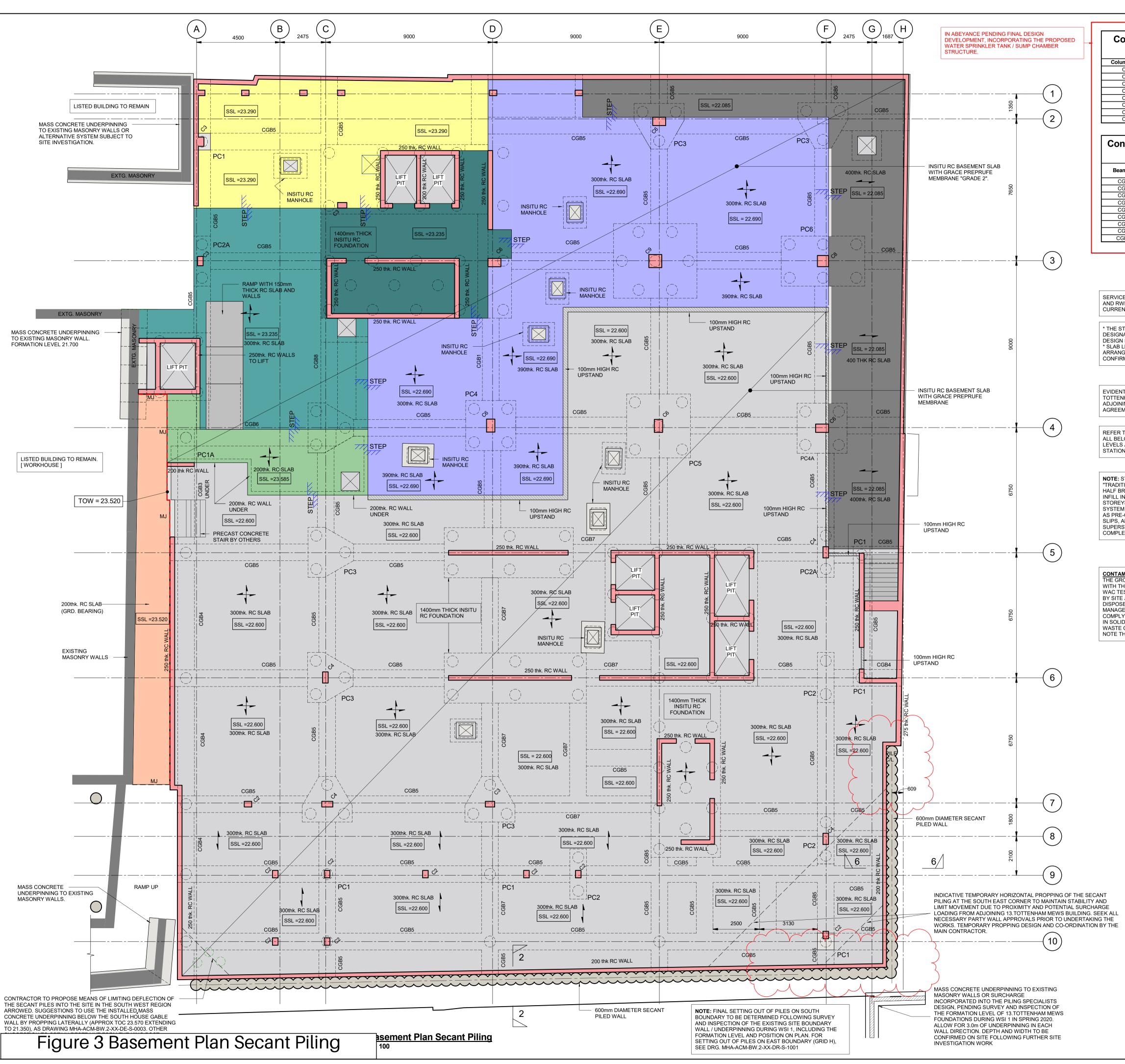
- 5.1.1 It is anticipated that the Phase 2 excavation will be undertaken during the COVID 19 restrictions. All archaeological work on site will be undertaken following government guidance in relation to COVID-19 and in accordance of CIfA's Code of Conduct Principal 5 and 5.2, COVID-19 risk assessments, along with the Site Operating Procedures (Appendix 1).
- 5.1.2 The COVID-19 government restrictions presently state that social distancing is required therefore, all staff on site will remain at least 2m apart, both on site and within the site welfare.
- 5.1.3 The maximum number of archaeologists/ archaeological with areas 2A, 2B or 2C at any one time will be 20. This is a minimum area of 19m² per person to work in. The welfare facilities on site at Middlesex Annex would support over 100 without COVID restrictions, though this will be reduced to less than 40% to ensure social distancing. Start and finish times will also be staggered, along with breaks on site to ensure adequate and safe distancing in the canteen area.

6. SUPPLEMENTARY BIBLIOGRAPHY

Cogar, Claire (auth), 2019, Middlesex Annex Excavation Written Scheme of Investigation, Iceni, 2020







Concrete (RC) - Column Schedule											
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Project

BEDFORD PASSAGE DEVELOPMENT

UK & IRELAND

Client MIDDLESEX ANNEXE LLP

Consultant

AECOM Aldgate Tower 2 Leman Street London E1 8FA United Kingdom Tel +44 (0) 20 7061 7000 www.aecom.com

Notes

- Do not scale from this drawing. Work to figured dimensions only.
- This drawing is to be read in conjunction with: - General notes drawing MHA-ACM-00-ZZ-DR-SE-00001
- Design reports - Survey and Interpretative Reports
- Project Specifications and Performance Specifications
- Health and Safety Hazard Register
 Relevant drawings and documentation issued by the architect, engineers and specialists.
 Building Information Model (BIM)
- Building information Model (BIM)
 Outline Construction Methodology
 Movements and Tolerances Report
- All dimensions are in mm except levels which are in metres and relate to [ordance datum].
- Any discrepancies shall be referred to the Designer before work commences.

Issue/Revision

CONSTRUCTION ISSUE

CONSTRUCTION ISSUE NOTE: THIS CONSTRUCTION ISSUE DRAWING IS STRICTLY LIMITED TO THE SECANT PILING AND CAPPING BEAM CONSTRUCTION TO THE SOUTH AND SOUTH EAST SITE BOUNDARY, UNDER THE CURRENT WSI 1 CONTRACT. ALL OTHER DETAILED DESIGN IS STILL UNDER FINAL DEVELOPMENT.

C3	30.04.20	SECANT PILING UPDATED TO SUIT OTHER DRG. REVISIONS
C2	21.04.20	NOTES ADDED
C1	03.04.20	CONSTRUCTION ISSUE
Rev	Date	Description

Key Plan

CONTRACT B, PART 1

Purpose Of Issue

CONSTRUCTION

Project Number

60516144

Sheet Title

New Build Secant Piling. Basement

Sheet Number

MHA-ACM-00-B1-DR-SE-01105

Scale: 1:100@A1

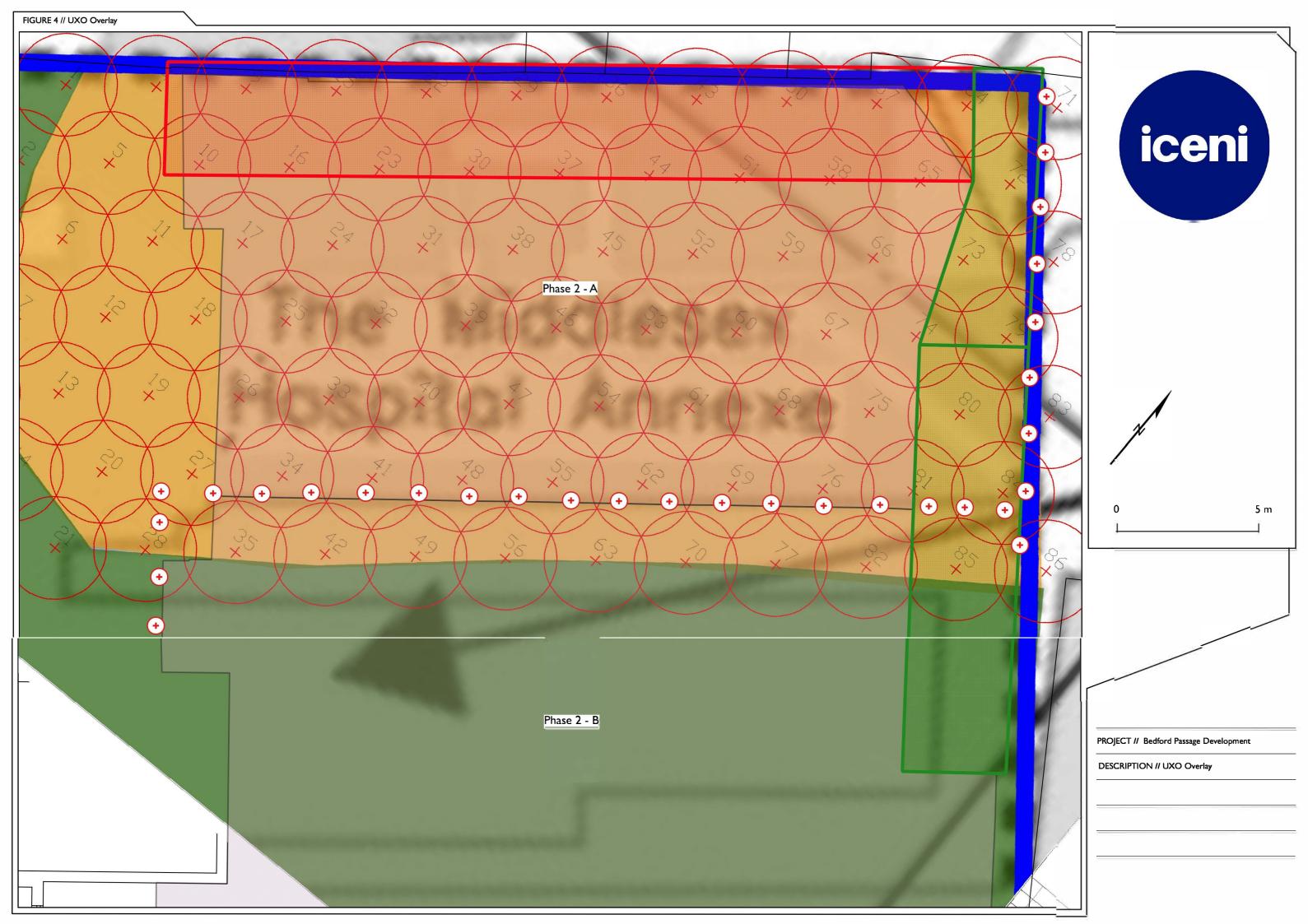


Chart revision date: 21/05/2020 Enabling Works - Contract Programme

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17	Party Wall Actions (Client Team)	22w 1d	24/02/2020	03/08/2020					17				1																					
18	Party Wall Agreements in place for WSI 1 South Boundary Cofferdam works		24/02/2020	24/02/2020					18																									
19	Party Wall Agreements in place for WSI 1		20/04/2020	20/04/2020												+++			+++												+++			
10	East Boundary Kingpost works Issue information for 13 Tottenham Mews															+ $+$ $+$	+ + +				+ + +				+ $+$ $+$			+ $+$ $+$ $+$			+++			
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21	(Tottenham Mews)	2w	15/05/2020	29/05/2020								2						_ 1	+															
22	Party Wall Agreements in place for WSI 1 East Elevation wall removal works		01/06/2020	01/06/2020									22	\diamond																				
23	Issue information for Temporary/ Permanent works (App2)		04/06/2020	04/06/2020									2																					
24	Negotiate party wall agreements	8w	08/06/2020	31/07/2020										24																				
25	Party Wall Agreements in place for WSI 1 South & East Boundary Secant works		03/08/2020	03/08/2020												25	\$																	
26	Archaeology (Client Team)	22w 1d	06/01/2020 A	15/06/2020			26						-			+++	+++		+++										T Å					
27	START ON SITE WSI 1 works			06/01/2020 A			27									+++			+++												+++		++++	
28	START ON SITE WSI 2 works		15/06/2020	15/06/2020										28					+++															
	Ark Build Works - Key dates	76w 2d	20/12/2019			20	9							I X																				
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30	North House to allow new Build Access		11/05/2020 *	11/05/2020								30																						
31	Ark Build to be clear of the East and West face of the Work House to allow new Build		11/05/2020 *	11/05/2020								31																						
	Access													+++		+++	+++		+++						+++			+++			+++			
32	Ark Build to be clear of the East and North face of the South House to allow MS		20/01/2020 *	20/01/2020			3	20																										
	access as per the interface document	_														+	+ + +								+ $+$ $+$			+++			+++			
	Ark Build deadline for completion of Bedford Passage temporary crossover/																																	
33	south house basement extension & adapt Cleveland Street hoarding (Complete for		20/12/2019 *	20/12/2019		33																												
04	6th Jan) Ark Build commencement of the Bedford		00/04/0004	00/04/0004									+	+ $+$ $+$		+ $+$ $+$	+++								+++			+ + +			+++			
34	Passage Culvert works Ark Build deadline for completion of		08/04/2021	08/04/2021										$\left \right $		+ $+$ $+$	+++								+++			+ + +	34					
35	Bedford Passage Culvert works		19/07/2021	19/07/2021												+	+++								+ $+$ $+$			+++			+++			35
36	Information required		27/01/2020	27/01/2020				36											+															
37	Results and interpretive report from further Ground Investigation		27/01/2020	27/01/2020				37 🔷																										
38	Capping beam - construction issue design information		27/01/2020	27/01/2020				38 🔷																										
39	Final Construction information for the piling		27/01/2020	27/01/2020																														
39	design- see notes below the milestone date	9	27/01/2020	27/01/2020				⁵⁹ ¥											+++															
												┥╽╽							+															
						 Surcha 	levels of the wall. arge loads from the																											
						 Size of 	f the footing for the		ng Middlesex house.																									
						 Specific 	cation with update	s.	the face of each bou	undary.																								
						 Size of 	of the ground floor the basement slal	b.					Ī																					
						 Position 	nce of verticality fo nal tolerance of the	e piles.					11																					
						Any sur	rcharge restriction	s as a result of our	piling rig on the peri	meter walls (Mid	dlesex in parti	cula r)																						
												╡║╎																						
40	MS lead in	2w 4d	03/12/2019 A	20/12/2019 A		40																												
	awn by: James					lo. BF							2 ev	risio		o. 04	_; ↓						ies: C	hange	of "T	enting	g" stra	ategy						
	.,		J		- -				-			•		2.01								1												



Chart revision date: 21/05/2020

Enabling Works - Contract Programme

	1/03/2020																												
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Line	Nomo	Duration	Start	Finish	November	December	Januar	у	February	March	ן ו	April		May	June		July	1	August		September		October	Noven	nber 👔	Decem	hber	Janua	iary i
Line	Name	Duration	Start	FILISI	4 11 18 25 2	9 16 23 30	16 13 2	0 27 3	10 17 24	2 9 16	23 30	6 13 2	20 27 4	11 18 25 1	18 115	22 29 6	13 2	0 27 3	10 17 2	4 31 7	14 21	28 5	12 19 26	2 9 1	6 23 30	14	21 28 4	4 11 1	18 25
					-9 -8 -7 -6 -5				5 6 7 8							25 26 2	_					39 40	. 11 . 12 . 12) 51 52		
	MS procurement & lead in Period for works				-9 -0 -7 -0 -	J - T - J - Z - 1	1 4	J 7 J	0 7 0	9 10 11	12 IJ		10 1/ 10	19 20 21	22 2J 24	20 2	20 2	.9 JU J.	JZ JJ	JJ JJ .	0 3/ 30	JJ TU	J TZ TJ	J TJ -	ד וד טו	<u>J J J</u>	J1 J2 .	<u>, FC CC</u>	11 10
41	under App1	2w 4d	03/12/2019 A	20/12/2019 A	41																						VXA		\square
42	Procurement & Lead in for welfare setup	2w 4d	03/12/2019 A	20/12/2019 A	42		1													11									
43	Enabling Works	83w 1d	04/11/2019 A	16/07/2021	43																					╪╪╤			
	Provisional Sums	77w 1d	02/12/2019 A	05/07/2021																							<u>IZIA</u>	╧	
44	Provisional Sums	77W 10	02/12/2019 A	05/07/2021	44																					\mp	\overline{XA}	\rightarrow	\square
45	East elevation retaining structure	4w	20/02/2020	19/03/2020					45	P + + + +																			
46	Design Period (Prov sum) - East	2w	20/02/2020	04/03/2020					46								++												
	elevation retaining structure Pricing (Prov sum) - East elevation						1 + +	_		┮┥ <u>╷</u>							++		+++		++					++	IAA	$\rightarrow \rightarrow$	\vdash
47	retaining structure	1w	05/03/2020	11/03/2020						47																			ЦЦ
48	Review pricing (Prov sum) - East elevation retaining structure	1w	12/03/2020	18/03/2020						48																			
49	Instruct Prov sum - East elevation		19/03/2020	19/03/2020						49																			
	retaining structure	4w								I I I ¥							++		+++		++					++	₩	++	⊢┼┦
50	TBS Plinth MS submit price for (Prov sum) - TBS	4W	02/12/2019 A		50												++		+++		++			$ \rightarrow $		++	HAA	$\rightarrow \rightarrow$	\vdash
51	Plinth design		02/12/2019 A	02/12/2019 A	51 🔷																						XX		\Box
52	Review pricing (Prov sum) - TBS Plinth design	1w	02/12/2019 A	06/12/2019 A	52															1									
53	Instruct Prov sum - TBS Plinth design		09/12/2019 A	09/12/2019 A	53							T III I														++-		++	
							++	_	+ $+$ $+$ $+$			╉╢					++	++	+		++					++-	¥#4	\rightarrow	\vdash
54	Design Period (Prov sum) - TBS Plinth	1w	09/12/2019 A	13/12/2019 A	5	4	1													1									\square
55	Pricing (Prov sum) - TBS Plinth	1w	16/12/2019 A	20/12/2019 A		55																							
56	Review pricing (Prov sum) - TBS Plinth	1w	06/01/2020 A	10/01/2020 A		56																							
57	Instruct Prov sum - TBS Plinth		13/01/2020 A	13/01/2020 A													++	++	+++		++-					++-	₩	++	
51	Instruct Prov Sum - Prepare piling zone		13/01/2020 A	13/01/2020 A				_									++		+++		++					++	₩₩	$\rightarrow \rightarrow$	\vdash
58	where back fill/ basement material is not		08/06/2020	08/06/2020			$\left\{ \right. \right\}$							5	• ◇												1XA		
	suitable (Undefined Prov. Sum) Grubbing Out foundations South						++		+++-			┼╫╶└	000000000		1 -		++	++	+							++-	IA A	++	\vdash
59	East Corner	6w	20/04/2020	02/06/2020								59								11									
60	Pricing (Prov sum) - Grubbing out	2w	20/04/2020	01/05/2020								60					ТТ										\overline{X}		
	redundant foundations design MS submit price for (Prov sum) -						++					╞╢╴					++		+++		++					++	M	++	\vdash
61	Grubbing out redundant foundations design		05/05/2020	05/05/2020			1						61																
	Review pricing (Prov sum) - Grubbing											T III I														++-		++	
62	out redundant foundations design	1w	05/05/2020	11/05/2020			1						62							- A							1XA		
63	Instruct Prov sum - Grubbing out		12/05/2020	12/05/2020									63																
	redundant foundations design		12/00/2020	12/00/2020					+ $+$ $+$ $+$					¥			++		+++		++					++	₩₽	\rightarrow	\vdash
64	Cost estimate for (Prov sum) - Grubbing out redundant foundations work	2w	12/05/2020	26/05/2020									64																
														T			++		+		++					++	MA	$\rightarrow \rightarrow$	\vdash
65	Review pricing (Prov sum) - Grubbing out redundant foundations work	1w	27/05/2020	02/06/2020										65															
	Instruct Prov sum - Grubbing out						+++							T			++		+++		++-					++-	₩₽	++	
66	redundant foundations (south east corner)		01/06/2020	01/06/2020			1							66 🔷	·														
67	South East corner propping	8w	17/11/2020	26/01/2021													++							67					
	MS submit price for (Prov sum) - South	000					+++										++		+++		++					++	¥#A	\rightarrow	H-
68	East corner propping design		17/11/2020	17/11/2020			1										+		+++					68		++	\mathcal{M}	\rightarrow	\square
69	Review pricing (Prov sum) - South East corner propping design	2w	17/11/2020	30/11/2020																L I				69					
70	Instruct Prov sum - South East corner		01/12/2020	01/12/2020																					70 🗸	,			
71	propping design Design Period (Prov sum) - South East	2w	01/12/2020	14/12/2020													++								71	<u></u>	1///	++	H
	corner propping Pricing (Prov sum) - South East corner		01/12/2020			++///	1 + 1			+++		┨╢╢┥		┝┼╢┼	++		++	+	+++		++			+ + +		┯╋			$\vdash \downarrow \downarrow$
72	propping	2w	15/12/2020	11/01/2021																						72	777		\square
73	Review pricing (Prov sum) - South East corner propping	2w	12/01/2021	25/01/2021			[Ηſ			$ ^{-}$				$\langle X \rangle$	73	
74	Instruct Prov sum - South East corner		26/01/2021	26/01/2021		<i> X</i>											++		$\uparrow \uparrow \uparrow$	11						++	1/1/	+7	74
	propping Guido Wall	6w					++					╢					++	++	+++		++			\vdash		++	₩	++	⊢¥–
75	Guide Wall		23/04/2020			++///	+++			+++		<u> ∦</u> í	5		11		++	++	+++	-#	++			+ + +		++	₩₩	++	⊢╢┦
76	Design Period (Prov sum) - Guide Wall	2w	23/04/2020	07/05/2020								7	6						\square								VXA		\square
77	Pricing (Prov sum) - Guide Wall	2w	08/05/2020	21/05/2020] [77							Πſ			$ ^{-}$				XX		$\ \ \ $
78	Review pricing (Prov sum) - Guide Wall	2w	22/05/2020	05/06/2020										78															
79	Instruct Prov sum - Guide Wall		08/06/2020	08/06/2020		++///	╆╋╋								, ,		++	++	+++		++			\vdash		++	₩₩	++	⊢╢┦
							1 + +	_	+++			╉╢			Ϋ́Υ		++	++	+++		++					++-	HAA -	\rightarrow	\square
80	Ramp into Basement	8w	07/05/2021	05/07/2021																						\downarrow		\square	\square
81	MS submit price for (Prov sum) - Ramp into basement dig area design		07/05/2021	07/05/2021																									
82	Review pricing (Prov sum) - Ramp into	2w	07/05/2021	20/05/2021		K/														11						$\uparrow \uparrow$	1/1/		
	basement dig area Instruct Prov sum - Ramp into basement						+++	-	+++		+ $+$ $+$	╉╋					++		+++		++					++-	₩	++	⊢╂→
83	dig area design		21/05/2021	21/05/2021		++///	$\downarrow \downarrow \downarrow$		+	\square					++		+		\square		++			\square		$\downarrow \downarrow$	$\downarrow \downarrow \downarrow \downarrow$	\square	\square
84	Design Period (Prov sum) - Ramp into basement dig area	2w	21/05/2021	04/06/2021			1													11									
85	Pricing (Prov sum) - Ramp into	2w	07/06/2021	18/06/2021																									
	basement dig area Review pricing (Prov sum) -Ramp into					++///						╏╢╴┤			++		++	++	+++		++					++	₩₽	++	⊢╟┦
86	basement dig area	2w	21/06/2021	02/07/2021		<i>[///</i>	$\downarrow \downarrow \downarrow$		+	\square		┦∦│			++		+		\downarrow \downarrow \downarrow		++		$\mid \mid \mid \mid \mid$	\square		++	$\downarrow \downarrow \downarrow \downarrow$	\square	$\mid \mid \mid \mid$
87	Instruct Prov sum - Ramp into basement dig area		05/07/2021	05/07/2021																									
88	Morgan Sindall design	6w	27/01/2020	06/03/2020				88		÷										T									
89	Secant piling design	6w	27/01/2020			///		89																		++	1/1/	++	
	TBS - LV POC	12w											┤╢┤	┝╶╠╴╠╴┠	++		++		+++		++					++	1	++	\square
				· · · · · ·	90					<u>ما ما من</u>		<u></u>	ا <u>ر انساس</u>		<u></u>	<u>واستما مسا</u>				K				<u>i</u>	<u>lant</u>			يليك	ن سینی
Dr	awn by: James	Kid	gell		wg No.	BPD-	ΕW	/-00	J1					Revi	sior	n No	> . (4)							NOTes	s: Ch	nange	э от ·	ıer
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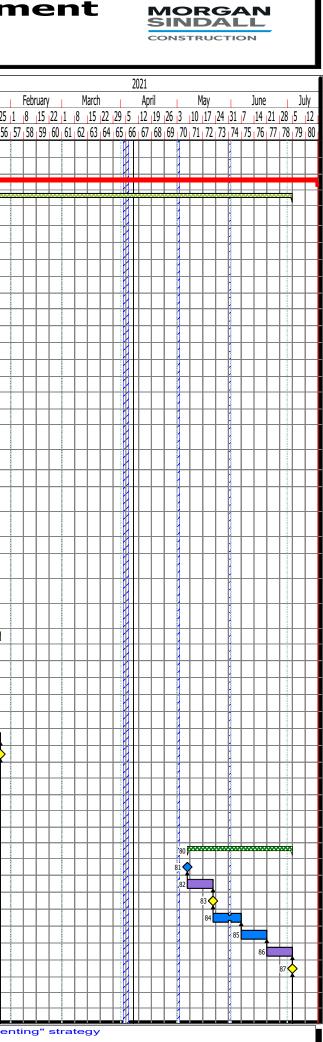
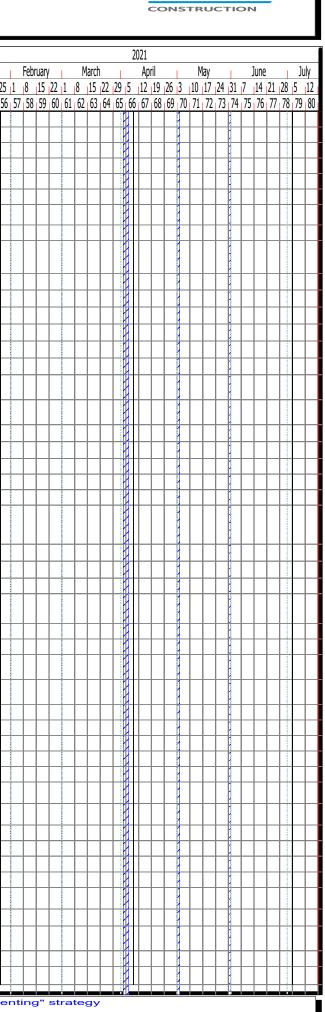


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Enabling Works - Contract Programme

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						2019												2	2020										1		
			<u> </u>		Novemb	ber _I [December	Ja	nuary	Februa	γ	March		April	1	May	J	une	1	uly	Aug	ust	Septembe	er	October	Novembe	r	Decemb	er	January	V
Line	Name	Duration	Start	Finish									30 6		27 4 1						3 10	7 24 31			12 19 26	9 16	23 30				
							-4 -3 -2		2 3 4	5 6 7	8 0	10,11,1	13 14		17, 18	10,20,21	22 23					33 34 35		38 39 4	0 41 42 43	44 45 46	47 48	40 50	51 52 5	3 54 5	5 56
01	UKPS design period	6.00	04/11/2010 4	13/12/2019 A		7 0 5			2 3 1	5 0 7	0 5				/ 1/ 10	17 20 21	22 25	21 25	20 27 7	.0 25 50	J1 J2		, 30 37 .			11 13 10	1/ 10	15 50		<u> </u>	<u>, 10</u>
91					91							++++											+++						\mathcal{A}	++	+
92	UKPN deisgn review period	-		10/01/2020 A			92					++++								+			+++						AA	++	+
93	Ground works on site		13/01/2020 A					93				++++				1													AA	++	
94	UKPS Lead in	3w	13/01/2020 A	31/01/2020				94																					XA		
95	UKPS works on site	1w	03/02/2020	07/02/2020					95																						
96	WSI 1 works	25w 1d	06/01/2020 A	03/07/2020				96						ru i	1 1		+ + +														
97	Section 1- Site setup and WSI 1	7w	06/01/2020 A	21/02/2020				97			4																		$\overline{\Lambda}$		
98	Section 1 Commencement	-		06/01/2020 A				8			++	+ + ++-					+ -			++-			+++				- 1		\mathcal{A}	++	+
90	South House Tunnel - Infill/Propping		00/01/2020 A	00/01/2020 A								++++				-				++			+++						XA	++	+
99	New commencement date to allow Ark Build access to the South House		27/01/2020 *	27/01/2020				41	99 🗸																				XA		
	Basement																												XA	$\downarrow \downarrow$	
100	South House Tunnel - Infill/Propping - Tempoary works install	1w 3d	27/01/2020	05/02/2020					100																				XA		
101	South House Tunnel - Infill/Propping slab break out and reinstatement	2d	06/02/2020	07/02/2020				$\langle \rangle$	1	01																					
102	Asbestos discovery (undefined Prov		06/02/2020 *	06/02/2020				21	102	8																					
103	Sum) and consequntial works Asbestos testing & removal (undefined	1w 2d	06/02/2020	14/02/2020				\mathcal{H}	1			++++		1			+ + -			++			+++							++	+++
	Prov Sum) Further potential Asbestos discovery	TW 20						4		104		++++			+	-	+ + -	$ \rightarrow $		++			+++						¥A-	++	
104	(undefined Prov Sum)		14/02/2020 *	14/02/2020				4		104		++++																	AA	$\downarrow \downarrow$	
105	Further potential Asbestos; testing (undefined Prov Sum)	2d	14/02/2020	17/02/2020				λ		105																			$X \Lambda$		
106	Completion of South House Tunnel - Infill/Propping slab break out and	2d	18/02/2020	19/02/2020				21		106																			X =		
	reinstatement							4				++++					+			++			+++						44	++	+
107	South House Tunnel - Infill/Propping slab reinstatement drying time (48hrs)	2d	20/02/2020	21/02/2020				21		107																					
100	UKPN TBS Ground works on site	200	12/01/2020 4	24/01/2020								++++						\vdash					+++							++	+
108	(Modebest - plinth and ducts) Install temporary welfare (additional		13/01/2020 A					108												++			+++						\mathcal{A}	++	+
109	units)	1d	03/02/2020 A	03/02/2020 A				4	109																				XA	\square	
110	Securing Site- Hoardings	4w	06/01/2020 A	31/01/2020				110.																					XA		
111	Site Temporary services install	2w	10/02/2020 *	1/02/2020						111																			XA		
112	Section 1 Completed		24/02/2020	24/02/2020				$\langle \Pi \rangle$		112	\diamond																				
	Generator hire period - in lieu of							2																							
113	TBS (as not to extend or prevent	5w 2d	06/01/2020	12/02/2020				113																							
	the completion of section 1)							4				++++																	Δ	$\downarrow \downarrow$	
114	On Hire generator required to provide power to the sitre works and welfare		06/01/2020 A	06/01/2020 A			11	4																					XA		
115	Off Hire generator required to provide power to the sitre works and welfare		12/02/2020	12/02/2020				21		115																			XA		
116	Temporay services commission	2d	10/02/2020	11/02/2020				2		116																			XX		
	Temporary Welfare unit(s) hire	_																											XA		
117	period additoinal as a result of the Astor delay	9 7w	10/02/2020	30/03/2020				21		117																			X A		
118			10/02/2020	10/02/2020					1	18																			XA		
119	Welfare units off hire		30/03/2020									119	\																	++	
	2 week Notice to commence to												1.11																	++-	
120	Archaeology watching brief team(Client action- MS to advise)		02/04/2020	02/04/2020								1	20																		
121	4 week Notice to commence to Archaeology working team(Client action-		03/03/2020	03/03/2020							121																		\overline{X}		
	MS to advise)							4			Ĩ																		XA	++	
122	Section 2- Fringe clearance	18w 1d						4		12	2					- H										\parallel		\square	1/1	++	
123	Section 2 Commencement		24/02/2020	24/02/2020						123																		\square	XA		
124	Astor College Gym Fitout	5w	24/02/2020	30/03/2020						124	Ť		1																XA		
125	Astor Gym- Strip out works	1w	24/02/2020	28/02/2020						12																			XA		
126	Astor Gym- Fitout (Walls etc)	3w	02/03/2020	20/03/2020				ΆT			126																		XA		
127	Astor Gym- Fitout (Temp	1w	09/03/2020	13/03/2020				21			127	7		R															\overline{X}		
	services) - first fix Astor Gym- Fitout (Temp						-4	4			1												+++				_		\mathcal{A}	++	+
128	services) - second fix	1w	23/03/2020	27/03/2020								128																			
129	Astor Gym- Fitout (Flooring)	1w	23/03/2020	27/03/2020								129																	XX		
130	Astor Gym- power switch on		27/03/2020	27/03/2020							Î	130 <	3																		11
131	Fitout complete		30/03/2020					81				131-	2										+++						\mathcal{M}	++	
132	Preparation works	18w 1d	24/02/2020							13			Y I I I							++-			+++						AA	++	
	Further design and						+H								┼╫┞	┥╢	++-			++			+++			+++		$\left \right $	\mathcal{A}	++	+
133	procurement	3w	24/02/2020 *	* 13/03/2020						13	3																				
134	East Elevation retaining structure (Undefined Prov. Sum)		20/04/2020 *	20/04/2020										134															X		
405	East Elevation retaining structure -	E. O	20/04/2022	20/05/2022									14																///		
135	Indicative works period for the undefined scope works	5w 2d	20/04/2020	28/05/2020											1 1			\square											XA	$\downarrow \downarrow$	
136	UXO Survey - North Cofferdam area	2w 1d	29/05/2020	12/06/2020												136													XA		
137	Temporary works Install (South Boundary)	5w 1d	24/02/2020	31/03/2020				γT		13	/		• [[μT					$ \top$				$ \top$	T					XX		
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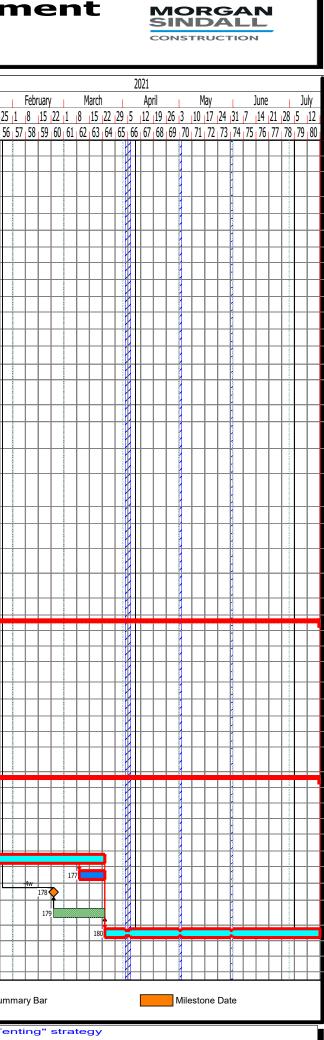


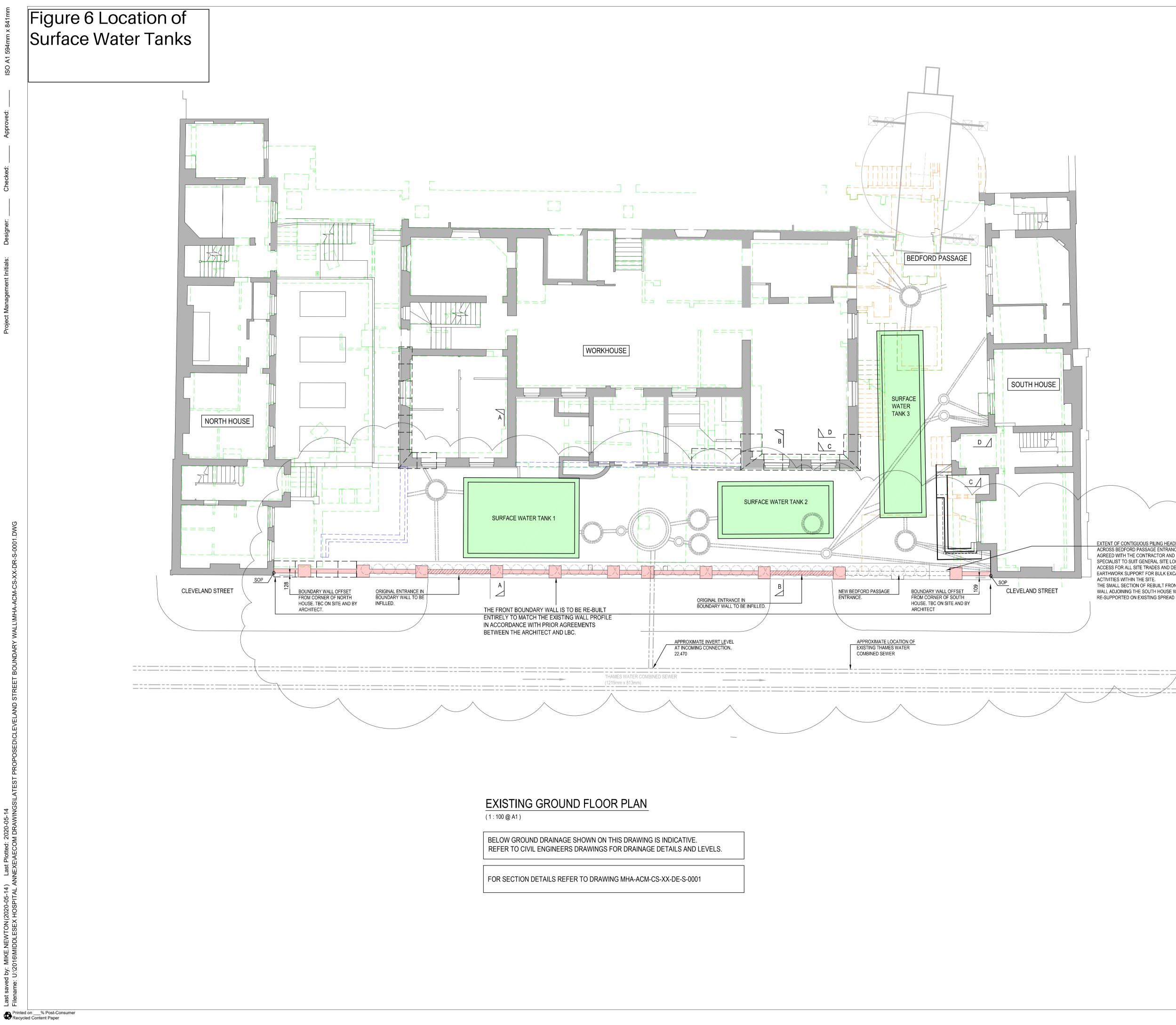
MORGAN SINDALL

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Enabling Works - Contract Programme

					2019										2020											
Line	Name	Duration	Start	Finish	November	December	January	Febru		arch	April	Ma		June		July	Aug		Septemb		October	November		December	Januar	-
						9 16 23 30																				
400	Dillar and	4	04/00/0000	28/02/2020	-9 -8 -7 -6 -	-5 -4 -3 -2 -1	123	4 5 6		11 12 13 1	14 15 16	1/ 18 19	20 21 22	23 24 2	5 26 27	28 29 3) 31 32	33 34 3	5 36 37	38 39 40) 41 42 43	44 45 46	47 48 4	19 50 51 52	53 54 5	5 56
<mark>138</mark> 139	Piling mat Piling mat- North	1w 1w	24/02/2020 02/03/2020						138					++			$\left \right $		+++							
140	Pile coring & stand columns (Piling rig	1w 3d							140										+++							
	delayed following Asbestos discovery)			13/03/2020					140																	
141	Pile coring & stand columns- North Trench out for beams and walers, lay	1w	16/03/2020						141								$\left \right $		+++							
142	& weld Trench out for beams and walers, lay	1w 2d	11/03/2020						142								$\left \right $		+++						\square	
143 144	& weld- North	1w 2d	20/03/2020 19/03/2020	30/03/2020 20/03/2020						14							$\left \right $		+++							
144	Install props - waler to head of wall Undertake temporary works checks	2u 1d	23/03/2020							145									+++							
146	and approve permit to load Excavate upto 500mm of modern	10	24/03/2020	24/03/2020						146				++					+++							
147	material - with machine Install horizontal timber props	2d	25/03/2020							147																
148	Continue hand excavation to top of burials	3d	26/03/2020	30/03/2020						148																
149	Handover to Archaeological team for hand digging		31/03/2020	31/03/2020						149																
150	Archaeological works excavation & reinstate (South Boundary)	13w	31/03/2020	03/07/2020						150																
151	1a [Team 1]	11w	31/03/2020	19/06/2020						1w 151 8888																
152	Reinstate ground build up in 300mm	2w	22/06/2020	03/07/2020										152	-											
153	compacted layers & remove sheets Archaeological notice of completion												153						+++							
	required WSI 2 Preparation works (Contained		08/06/2020	08/06/2020									153	+++			+		+++							
154	within Section 2 works)	6w	22/05/2020	03/07/2020								1	54													
155	Grubbing out redundant foundations (south east corner) (Undefined Prov.		01/06/2020	01/06/2020																						
	Sum) Grubbing out redundant foundations													++					+++							
156	(south east corner)- Indicative works period for the undefined scope works	4w	01/06/2020	26/06/2020									156													
157	Investigation to 13 Tottenham Mews property (Undefined Prov. Sum)		22/05/2020	22/05/2020								157	×						+++							
158	Investigation to 13 Tottenham Mews property- Indicative works period for the	1.11	22/05/2020	29/05/2020																						
150	undefined scope works Prepare piling zone where back fill/		22/03/2020	29/03/2020										-2w					+++							
159	basement material is not suitable (Undefined Prov. Sum)		22/06/2020	22/06/2020										159												
160	Prepare piling zone- Indicative works period for the undefined scope works	2w	22/06/2020	03/07/2020										160	1											
161	Archaeological notice of completion		08/06/2020	08/06/2020									161				$\left \right $		+++							
162	required WSI 2 works	56w	01/06/2020															1								
163	Piling rig lead in	8w	08/06/2020	31/07/2020									163													
164	Section 3 Commencement		06/07/2020	06/07/2020											164											
165	Section 3 - Piling & Capping Beam	11w	06/07/2020	21/09/2020											165											
166	Install guide wall South (Prov sum - defined period)	2w	06/07/2020	17/07/2020										4w	166											
167	Install piling mat South (Prov sum - defined period)	2w	20/07/2020	31/07/2020												167										
<mark>168</mark>	Secant piling (Keltbray)	4w	03/08/2020	28/08/2020												16										
169	Capping Beam (South 50%)	3w	01/09/2020	21/09/2020														169.								
170	4 week Notice to commence issued to Archaeology Team (Client action- MS to advise)		01/06/2020	01/06/2020									170	20d												
171	Section 4 - Bulk excavation	54w	15/06/2020	16/07/2021										171												
172	Section 4 Commencement		15/06/2020										17	72												
173	Modern Material Scrape	2w	15/06/2020	26/06/2020										173												\parallel
174	WSI 2 Bulk excavation zone 1 Prepare for WSI 2 start Bulk excavation	16w	29/06/2020	16/11/2020										17	4		┦			1				+	+++	\parallel
175	zone 2 WSI 2 Bulk excavation zone 2	2w 16w	03/11/2020	16/11/2020 22/03/2021			+ +							++					+++		175	170				
176 177	Prepare for WSI 2 start Bulk excavation	16W 2w	09/03/2021	22/03/2021										++					+++			1/0				
178	zone 3 South east corner propping (Undefined	2.00	23/02/2021	23/02/2021										++		\vdash			+++			+++		+		╢╡
	Prov. Sum) South east corner propping- Allowable works period for the undefined scope	4.												++										+ ()/		+ +
179	works	4w	23/02/2021	22/03/2021																						\downarrow
180	WSI 2 Bulk excavation zone 3	16w	23/03/2021	16/07/2021			+ +							++		- -			+++			+++		+		+
														++		- -		+	+++			++		+		+
Bed	ord Passage Client team		Archaoolo	gy Actions		Aerom St	ructures Ad	rtione		Morgor	n Sindall	Actions			Midd	llesex Ai		D Action	e		Party Wal			R		Sum
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PROJECT

BEDFORD PASSAGE DEVELOPMENT

CLIENT

MIDDLESEX ANNEXE LLP

CONSULTANT

AECOM Aldgate Tower 2 Leman Street London, E1 8FA www.aecom.com

GENERAL NOTES

1. FOR GENERAL NOTES REFER TO DRAWING No. MHA-ACM-XX-XX-GN-S-00001.

ACROSS BEDFORD PASSAGE ENTRANCE TO BE AGREED WITH THE CONTRACTOR AND PILING SPECIALIST TO SUIT GENERAL SITE LOGISTICS WITH ACCESS FOR ALL SITE TRADES AND DELIVERIES, AND EARTHWORK SUPPORT FOR BULK EXCAVATION ACTIVITIES WITHIN THE SITE. THE SMALL SECTION OF REBUILT FRONT BOUNDARY WALL ADJOINING THE SOUTH HOUSE WILL BE

RE-SUPPORTED ON EXISTING SPREAD FOUNDATIONS.

ISSUE/REVISION

С	14.05.2020	SURFACE WATER TANK 1 MOVED. SURFACE WATER TANK 2 SIZE REVISED. THAMES WATER SEWER ADDED. WALL NOTES ADDED.
В	10.10.2019	SURFACE WATER TANK 2 SIZE AND LOCATION REVISED. U/PINNING INDICATED. PILES REMOVED
Α	05.09.2019	INITIAL ISSUE FOR COMMENT
I/R	DATE	DESCRIPTION

KEY PLAN

PROJECT NUMBER

60516144

SHEET TITLE

CLEVELAND STREET / BEDFORD PASSAGE. OVERALL PLAN SHOWING BOUNDARY WALL REBUILD AND PROPOSED ATTENUATION TANKS.

SHEET NUMBER

MHA-ACM-CS-XX-DR-S-0001

APPENDIX 1 COVID-19 STANDARD OPERATING PROCEDURES

Introduction

Construction sites operating during the Coronavirus Covid-19 pandemic need to ensure they are protecting their workforce and minimising the risk of spread of infection.

This guidance is intended to introduce consistent measures on sites of all sizes in line with the Government's recommendations on social distancing.

These are exceptional circumstances and the industry must comply with the latest Government advice on Coronavirus at all times. The health and safety requirements of any construction activity must also not be compromised at this time. If an activity cannot be undertaken safely due to a lack of suitably qualified personnel being available or social distancing being implemented, it should not take place.

We are aware that emergency services are also under great pressure and may not be in a position to respond as quickly as usual.

Sites should remind the workforce at every opportunity of the Site Operating Procedures which are aimed at protecting them, their colleagues, their families and the UK population. If a site is not consistently implementing the measures set out below, it may be required to shut down.

Self-Isolation

Anyone who meets one of the following criteria should not come to site:

- Has a high temperature or a new persistent cough follow the guidance on self-isolation
- Is a vulnerable person (by virtue of their age, underlying health condition, clinical condition or are pregnant)
- Is living with someone in self-isolation or a vulnerable person.

Procedure if Someone Falls III

If a worker develops a high temperature or a persistent cough while at work, they should:

- Contact the NHS 111 online coronavirus (COVID-19) service or call NHS 111.
- Return home immediately and avoid touching anything
- Cough or sneeze into a tissue and put it in a bin, or if they do not have tissues, cough and sneeze into the crook of their elbow.

They must then follow the guidance on self-isolation and not return to work until their period of self-isolation has been completed.

Travel to Site

- Wherever possible workers should travel to site alone using their own transport and sites need to consider:
- Parking arrangements for additional cars and bicycles
- Other means of transport to avoid public transport e.g. cycling
- Providing hand cleaning facilities at entrances and exits. This should be soap and water wherever possible or hand sanitiser if water is not available
- How someone taken ill would get home.

Site Access Points

- Stop all non-essential visitors
- Introduce staggered start and finish times to reduce congestion and contact at all times
- Monitor site access points to enable social distancing you may need to change the number of access
- points, either increase to reduce congestion or decrease to enable monitoring
- Remove or disable entry systems that require skin contact e.g. fingerprint scanners
- Require all workers to wash or clean their hands before entering or leaving the site
- Allow plenty of space (two metres) between people waiting to enter site
- Regularly clean common contact surfaces in reception, office, access control and delivery areas e.g.
- scanners, turnstiles, screens, telephone handsets, desks, particularly during peak flow times
- Reduce the number of people in attendance at site inductions and consider holding them outdoors wherever possible
- Drivers should remain in their vehicles if the load will allow it and must wash or clean their hands before unloading goods and materials.

Hand Washing

- Provide additional hand washing facilities to the usual welfare facilities if a large spread out site or significant numbers of personnel on site
- Ensure soap and fresh water is readily available and kept topped up at all times

- Provide hand sanitiser where hand washing facilities are unavailable
- Regularly clean the hand washing facilities and check soap and sanitiser levels
- Provide suitable and sufficient rubbish bins for hand towels with regular removal and disposal.
- Sites will need extra supplies of soap, hand sanitiser and paper towels and these should be securely stored.

Toilet Facilities

- Restrict the number of people using toilet facilities at any one time e.g. use a welfare attendant
- Wash hands before and after using the facilities
- Enhance the cleaning regimes for toilet facilities particularly door handles, locks and the toilet flush
- Portable toilets should be avoided wherever possible, but where in use these should be cleaned and emptied more frequently
- Provide suitable and sufficient rubbish bins for hand towels with regular removal and disposal

Canteens and Eating Arrangements

With cafés and restaurants having been closed across the UK, canteens cannot operate as normal. Whilst there is a requirement for construction sites to provide a means of heating food and making hot drinks, these are exceptional circumstances and where it is not possible to introduce a means of keeping equipment clean between use, kettles, microwaves etc. must be removed from use.

The workforce should also be required to stay on site once they have entered it and not use local shops.

- Dedicated eating areas should be identified on site to reduce food waste and contamination
- Break times should be staggered to reduce congestion and contact at all times
- Hand cleaning facilities or hand sanitiser should be available at the entrance of any room where people eat and should be used by workers when entering and leaving the area
- The workforce should be asked to bring pre-prepared meals and refillable drinking bottles from home
- Workers should sit 2 metres apart from each other whilst eating and avoid all contact
- Where catering is provided on site, it should provide pre-prepared and wrapped food only
- Payments should be taken by contactless card wherever possible

- Crockery, eating utensils, cups etc. should not be used
- Drinking water should be provided with enhanced cleaning measures of the tap mechanism introduced
- Tables should be cleaned between each use
- All rubbish should be put straight in the bin and not left for someone else to clear up
- All areas used for eating must be thoroughly cleaned at the end of each break and shift, including chairs, door handles, vending machines and payment devices.

Changing Facilities, Showers and Drying Rooms

- Introduce staggered start and finish times to reduce congestion and contact at all times
- Introduce enhanced cleaning of all facilities throughout the day and at the end of each day
- Consider increasing the number or size of facilities available on site if possible
- Based on the size of each facility, determine how many people can use it at any one time to maintain a distance of two metres
- Provide suitable and sufficient rubbish bins in these areas with regular removal and disposal.

Avoiding Close Working

• There will be situations where it is not possible or safe for workers to distance themselves from each other by 2 metres.

General Principles

- Non-essential physical work that requires close contact between workers should not be carried out
- Work requiring skin to skin contact should not be carried out
- Plan all other work to minimise contact between workers
- Re-usable PPE should be thoroughly cleaned after use and not shared between workers
- Single use PPE should be disposed of so that it cannot be reused
- Stairs should be used in preference to lifts or hoists

- Where lifts or hoists must be used:
- Lower their capacity to reduce congestion and contact at all times