



# West Bowling Green Street, Leith:

## Archaeological Evaluation & Excavations Data Structure Report

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On Behalf of: **J Smart & Co. Plc**  
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AOC Project No: **21982**

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## ABSTRACT

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This report presents the results of an archaeological evaluation and subsequent excavations undertaken by AOC Archaeology Group on behalf of J Smart & Co. plc during the construction of a residential and commercial development at West Bowling Green Street, Leith.

After evaluating the development area, three excavation areas were opened: Area A to the north and east of West Bowling Green Street and Areas B & B1 to the south and west of West Bowling Green Street.

Area A contained the foundation pillars and arched foundations of the 19<sup>th</sup> Century fertiliser works as well as an earlier sandstone and brick drainage junction. Area B and B1 revealed the remains of the 19<sup>th</sup> Century warehouse foundations cutting through several earlier 18<sup>th</sup> and 19<sup>th</sup> century buildings and features, one of which contained a couple of fragments of disarticulated human remains.

Furthermore, several features relating to the late medieval period were revealed. The excavations uncovered three ditches relating to field systems of Old Bonnington House estate as well as a group of features that most likely relate to the 1560 siege of Leith, alongside a small assemblage of medieval ceramics.

## 1 INTRODUCTION

### 1.1 Background

1.1.1 An archaeological evaluation and subsequent excavations were required by J Smart & Co. Plc prior to the development of a residential and commercial development at West Bowling Green Street, Leith. The scope of the works was determined by the City of Edinburgh Council as advised on archaeological matters by the City of Edinburgh Council Archaeology Service (CECAS). The works were conducted according to the terms of a *Written Scheme of Investigation* (AOC 2011) approved on behalf of City of Edinburgh Council by CECAS and in accordance with *Scottish Planning Policy* (Scottish Government 2010) and *PAN 2/2011 Planning And Archaeology* (Scottish Government 2011).

### 1.2 Site Location

1.2.1 The development area lies at the east end of West Bowling Green Street (centred at NGR: NT 2640 7615). The majority of the site lies to the south of West Bowling Green Street, bounded by the Water of Leith to the east and south, and bounded by Anderson Place to the west. Another smaller area lies to the north of West Bowling Green Street and is bounded by the river to the east and north with modern industrial units to the west (Figure 1). Prior to works commencing the site was occupied by a number of previously recorded 19<sup>th</sup> century buildings (AOC 2012).

## 2 HISTORICAL BACKGROUND

2.1 A desk based assessment of the development area and all known sites within a 100m radius of it was conducted prior to the evaluation works taking place (AOC 2011a). The following is a summary of the results concentrating more on the specific elements related to the findings of the excavations.

### 2.2 Medieval (AD 410 – 1600)

2.2.1 Leith is known to date from at least the 1100s when Leith harbour was referred to in the Great Charter of Holyrood. In 1329 Edinburgh was granted the port and mills of Leith by charter from Robert I. As Edinburgh had the monopoly upon commerce in the area, there were bans upon trade in Leith as early as 1413 and in 1482 an ordinance was passed in Edinburgh prohibiting the holding of markets in Leith (Stevenson et al 1981). As such, Leith functioned as a conduit for commerce in the more prosperous burgh of Edinburgh.

2.2.2 The proposed development area lay to the west of the burgh centre and is within the grounds of the estate of Old Bonnington House in the late medieval period. Old Bonnington House was damaged during the sieges of Leith in the 16th century and it is possible that evidence for these conflicts may be located within the proposed development area, for example in the form of earthworks or artefacts (Lawson 2011).

2.2.3 In the 1540's Leith was burned twice, once in 1544 on the orders of Henry VIII and soon after in 1547 following the Battle of Pinkie. In around 1559 Leith was enclosed by a defensive rampart, approximately octagonal in plan and incorporating eight bastions (Stevenson et al 1981). In 1560, Protestant English troops besieged Leith Citadel on the west side of the Water of Leith, which was being held by the Catholic French supporters of Mary of Guise, the Queen Regent. The contemporary map of the siege of Leith in 1560, kept in the archives of Petworth House in Sussex, purports to show the siege works and the deployment of heavy artillery as they were on the day of surrender 7 July 1560. The Mount Falcon battery is depicted on the Petworth Map, on the west bank of the Water of Leith. A 'battery of four cannon labelled "at the Pale" was...set up (on the west side of the southern part of South Fort Street) in order to harass the shore [in] May 1560' (Harris 1991,



366, illus 4). Written accounts place Mount Falcon to the west of the river as the trench salient protruding south from the town defences occupied the east bank (Harris 1992, 368).

## 2.3 Post - medieval (AD 1600 – 1900)

- 2.3.1 From the 17th century the proposed development area lay within the grounds of Hillhouse Field House as opposed to Bonnington House (Lawson 2011). Blaeu's map (1654) of 'Lothian and Linlithgow' depicts the port of 'Lyth' [sic] with settlement at 'Boniton' to its south west and an undated military map of perhaps early 18th century depicts Leith with the Citadel on its western edge and 'Banington' to the south west.
- 2.3.2 The first map to depict the proposed development area in detail is Ainslie's map of 1804 (Figure 2), which depicts the east side of the area as an apparent riparian zone, including river islets and the west side of a weir, later identified as 'Caul', over the Water of Leith. Similar islets appear on later maps, and it is possible that they relate to the build up of deposits due to the slowing of the river by the Caul and the diversion of water into mill lades (Headland 2003). The west of the proposed development is open land owned by 'Robertson Esq.', and may include two structures annotated as 'Washing Houses'.
- 2.3.3 Kirkwood's 'ancient plan' of 1816 (Figure 3) again clearly shows islets (perhaps sandbanks) within the water of Leith, with the proposed development area largely comprising open ground labelled 'Hillhouse Field', though again two unnamed rectangular buildings are shown. Kirkwood's plan of Edinburgh of 1817 (Figure 4) depicts an L-shaped block of buildings apparently partly in the west of the proposed development area, between the river and Hillhouse Field house. These buildings front onto a southern continuation of South Fort Street, which appears named on mapping at this time. To the east of this block are two buildings that are likely to be the washing houses.
- 2.3.4 Stevenson's map of 1837 shows that there has been little change, with both the L-shaped block and the two small buildings, likely still washing houses, shown. Changes are seen in Johnston's plan of 1851 (Figure 5) as this does not show the L-shaped block, though a group of walls on a reverse L-shape appears in a similar location. These may correspond to a rough northwest/southeast boundary apparent on maps as early as Ainslie's of 1804. A group of walls are also marked to the south. These are again visible on the Ordnance Survey map of 1852 (Figure 6), which labels them as 'Ruins'. It is possible that these are actually remains of the washing houses which are no longer extant. The Ordnance Survey map of 1852 also depicts the walls to the north.
- 2.3.5 While both the 1852 map and the 1855 Ordnance Survey plan shows there to be no roofed structures within the proposed development area, by the time of the 1876 Ordnance Survey map (Figure 7) the proposed development area is largely covered by buildings, mainly of an industrial nature, with associated yards. These include a group of buildings around a courtyard, labelled 'Warehouses', and with a marked 'Trough', in the southwest of the area; a Bone Mill with associated chimneys in the southeast and a block of buildings in the north of the area, one large and perhaps industrial in nature with three smaller structures to its north and east. These buildings front onto West Bowling Green Street, which also appears for the first time on this map. The Post Office Directories for Edinburgh and Leith indicate that West Bowling Green Street is likely to have originated in the mid 1860s as the street is first mentioned in the directory of 1866 (Post Office Directory 1866 - 67, 223).
- 2.3.6 Ordnance Survey mapping of 1895 shows the southern buildings largely unchanged, though these buildings are overwritten 'Oilcake Stores and Bone Mill'. The main building is divided into two, with the southern part labelled 'Oilcake Manufactory'. The north east of the proposed development area is now covered by a single large building, labelled 'Manure Works'.

## 2.4 Modern (AD 1900 – present)

- 2.4.1 The 1908 Ordnance Survey mapping shows that the Water of Leith is now crossed by a major bridge at the south west boundary of the development area in lieu of the smaller structure shown on late 19<sup>th</sup> century maps. A rectangular building block is depicted in the west of the proposed development area, fronting onto the new thoroughfare leading to the bridge. The proposed development area appears unchanged in the Ordnance Survey map of 1914 and the 1948 Ordnance Survey map also shows remarkably little change from the earlier 20<sup>th</sup> century maps with the Oilcake Mill now presenting an open courtyard onto West Bowling Green Street.
- 2.4.2 By the time of the 1971 Ordnance Survey map the Oilcak Mill is again depicted as mainly comprising a single large building, with smaller structures to the east and both the fertiliser works and the bridge over the Water of Leith, appear unaltered. Later mapping, including the map of 1985, shows the outlines of the buildings unchanged, however the courtyard of the Oilcake Mill structures is no longer extant, with only a southern building block depicted, backing onto the Water of Leith.

## 3 OBJECTIVES

- 3.1 The objectives of the archaeological works are:
- i) to determine and assess the character, extent, condition, quality, date and significance of any buried archaeological remains within the proposed development area through evaluation trenching;
  - ii) to advise and implement an appropriate form of mitigation, such as excavation, post-excavation analyses and publication, given the infeasibility of preserving the archaeological material *in situ*, should significant archaeological remains be encountered.

## 4 METHODOLOGY

- 4.1 Prior to the evaluation commencing, the lifting of concrete slabs and the grubbing out of modern foundations was conducted under a watching brief where all ground breaking works associated with these demolition works were monitored by an experienced field archaeologist.
- 4.2 The evaluation phase of works consisted of 12 trenches being excavated by a tracked excavator utilising a bladed ditching bucket operating under the constant supervision of an experienced field archaeologist. Each trench was recorded using AOC *pro forma* trench record sheets and any potential features investigated further to assess their character and date.
- 4.3 Due to the findings of the significant archaeology during the evaluation, three larger excavation areas were opened. All open area excavations were undertaken by an excavator utilising a bladed ditching bucket under the constant supervision of an experienced field archaeologist. All features and structures revealed were then cleaned by hand before being recorded by digital and Black & White photography, drawn to an appropriate scale and then a written record produced using AOC *pro forma* context sheets.



## 5 RESULTS

### 5.1 Introduction

5.1.1 All archaeological works were conducted between the 15<sup>th</sup> October 2012 and the 11<sup>th</sup> December 2012. Weather conditions were generally fair throughout the course of the work conducted meaning that archaeological visibility was good.

5.1.2 The various data gathered from the evaluation and excavations are presented as a series of appendices:

Appendix 1: Evaluation trench descriptions

Appendix 2: Context Register;

Appendix 3: Photographic Register;

Appendix 4: Drawing Register;

Appendix 5: Finds Register;

Appendix 6: Samples Register;

Appendix 7: reproduces the '*Discovery and Excavation in Scotland*' entry

5.1.3 Three excavation areas were opened (see Figure 8): Area A to the north of West Bowling Green Street; Area B to the south of West Bowling Green Street at the western end of the development area; and Area B1 immediately south and east of Area B.

### 5.2 Area A

5.2.1 The evaluation in this area consisted of three trenches (see Figure 8 and Appendix 1 for details). Trenches 1 and 2 revealed over 1.0 m of made ground onto natural sand [036] with no archaeological features revealed. However, Trench 3 revealed the corner of a brick and sandstone feature [009] as well as a linear feature [010] nearby. An area measuring 12.0 m by 10.5 m was then opened around these features (Figure 9; Plate 1).



Plate 1 - General shot showing Area A features

5.2.2 The brick and sandstone structure [009] is within cut [007] and survived to a height of approximately 1m above the natural subsoil level. The upper part of the structure consisted of a pyramid shaped brick vault, some 0.7 m high which sat on top of a sandstone base that itself was cut 1.0 m deep in

the natural subsoil [036] (Plate 2). A service track [014] runs into the structure from the north and another service track [012] runs through the structure east to west. Both linear tracks contained ceramic pipes, [037] and [014] respectively. Internally, structure [009] was rectangular in plan (0.92 m by 0.78 m) and was floored by flagstones [047]. Pipe [037] would have emptied into the structures interior. Access to the internal space would have been through a square hole in the top of the brick vaulting.



Plate 2 - Detail shot of Structure [009]

5.2.3 The remains of a later building in the form of brick foundation arches [001], [002] and [003] (Plate 3; Figure 10) and several timber piles ([004]-[006] and [016]-[028]) was revealed around structure [009]. This later structure truncated the service tracks [012] and [014] and appears to line up with the remaining upstanding walls around the excavation area.



Plate 3 - South facing elevation of brick arches [001]-[003]

- 5.2.4 Another later construction contained by the upstanding walls was a massive concrete block [031] measuring 5.44 m by 5.20 m by 0.80 m thick sitting just south of structure [009]. A modern linear feature [010] ran east to west towards this concrete pad.

### 5.3 Area B

- 5.3.1 The evaluation in this area consisted of 6 trenches (see Figure 8 and Appendix 1 for details). Trench 4 at the western boundary of the site contained no archaeological features, but did indicate that the natural subsoil changed from orange gravel [053] in the north to a reddish brown sandy clay [060] in the south, which sloped quite steeply down to the rivers edge. Trenches 5 to 8 revealed a number of features and structures that required further investigation. This led to a larger excavation area being stripped measuring 35.0 m by 25.0 m encompassing the features from Trenches 5 and 8 (Figure 11). The walls and structural features in Trench 6 ([054]-[059]) and Trench 7 were interpreted as being part of the latest phase of building on site and so were not investigated further.



Plate 4 - Trench 6 showing walls [054] to [059]

- 5.3.2 The main structural features in the excavation area were the large sandstone walls [086], [089], and [092] to [096], and the fourteen sandstone foundation pads [097] which relate to the 19<sup>th</sup> Century warehouse structure (Plates 5 & 6). The walls [089] and [096] relate to the external walls of the 19<sup>th</sup> Century warehouse whereas walls [086], [094] and [095] relate to the courtyard walls. The sandstone foundation pads would have been internal features for supporting the roof, and walls [092] and [093] were internal walls of the same structure. Re-deposited natural [079] may also relate to the warehouse construction, used as a levelling layer placed over demolition deposit [078].
- 5.3.3 The demolition deposit [078] truncated by the warehouse construction, relates to an earlier structure, surviving in part in the south east area of the excavation. This structure consisted of two cobble and sandstone walls [075] and [076], which most likely formed the NW corner of a building (Figure 12; Plate 7). Only 1.5 m of wall [075] survives which is aligned SW-NE and abuts the NW end of wall [076], surviving 5.3 m in length and aligned NW-SE. Both walls are truncated by modern activity; [075] to the NE and [076] to the SE. They both sit on the natural sandy clay [060] and are probably cut into possible soil horizon [077] which contained a number of red tile fragments. The NW end of wall [076] and wall [075] appear to be abutted by the demolition layer covering collapsed wall [084]. Another small fragment of a sandstone wall [085], measuring 1.47 m by 0.55 m, is also constructed into this demolition deposit to the NW of [075] and [076].





Plate 5 - General shot of wall [095] abutting [096]



Plate 6 - Line of foundation pads [097]



Plate 7 - General view of walls [075] & [076]

- 5.3.4 The collapsed wall [084], measuring 10.5 m by 0.6 m is constructed of whinstone bonded with a cemented sand and lime mortar and is aligned approximately E-W (Plate 8). The eastern end may have abutted the corner of wall [075] as it does not continue underneath. The wall survives lying at an approximate 60 degree angle having collapsed to the south into ditch [098] (Figure13; Plate 9). From the evidence on the ground it appears that the wall foundations subsided into the north edge of the ditch causing the wall to topple backwards, capping the southern half of the ditch. The ditch is visible cutting natural [060] for 10.5 m and is 1.44 m wide, filled by deposit [100]. As the wall has collapsed into this ditch it can be assumed to be at least to some extent contemporary with the ditch as the ditch although partially infilled was still an open feature when the wall collapsed into it as shown in Plate 9.



Plate 8 – East facing view of collapsed wall [084]



Plate 9 - East facing section of ditch [098]

- 5.3.5 To the west of the collapsed wall [084] and aligned with it, is another whinstone wall [064] (Plate 10). Heavily truncated by the later warehouse construction and situated between four of the pillars [097], this wall may have been the western part of [084]. It was not possible to determine if this was the



case as warehouse wall [086] is between them and there is evidence that [064] heads to the north just prior to being truncated by this wall (see Figure 11). It only survives to one course high and is almost rubble in condition, with the western end surviving only as a mortar spread in the east facing section of the excavation edge.



Plate 10 - Rubble wall [064]



Plate 11 - NNE facing section of ditch [080]

5.3.6 Pre-dating the structures on site, a number of negative features were also revealed throughout the excavation area. Four of these features were linear in nature and were situated to the south and west of the excavation area. From the ceramics found within them (a mixture of Scottish medieval reduced wares and late white gritty ware – George Haggerty pers comms) it is possible to provide a late medieval date for most of them, however ditch [080] contained material ranging from the late medieval and the post-medieval period suggesting it was in use for much longer. This ditch was revealed at the southern edge of the excavation area running SSW to NNE and measured 15.2 m by 0.84 m by 0.43 m (Figure 13; Plates 11 & 12), terminating at its NNE end, just beyond wall [086]. The fill [081] of this ditch contained red tile, green glazed medieval reduced ware, fragments of



animal bone, and also part of a human jaw bone and vertebrae. As human remains were found within the ditch it was fully excavated but no further human remains were encountered.



Plate 12 - View of west end of ditch [080] post-ex

5.3.7 Parallel to ditch [080] and approximately 4.0 m to the north of it was narrower ditch [071] which measured 11.9 m by 0.48 m by 0.18 m (Figure 13). This ditch was truncated by wall [089] to the west, wall [086] to the east and by foundation pads [097] in two places along its length (Plate 13). This ditch cut the SSE terminus of another ditch [051], which runs SSE to NNW and out with the excavation area. It was also truncated by wall [089], wall [064] and by a modern manhole to the west of wall [089]. It measured over 16m long and was 0.76 m wide at its widest point and 0.62 m at its deepest (Figure 13; Plate 14). West of this ditch and running parallel to it was the remains of another ditch [049] which was much shallower (only 0.1 m deep; see Figure 14) and did not survive well throughout its length. It measured 12.13 m by 1.25 m with a similar fill [050] to that of ditch [051].



Plate 13 - General view of ditch [071]



Plate 14 - SSE facing section of ditch [051]

5.3.8 To the north east corner of the excavation area, a further series of negative features [061], [090], [073] and [087] were revealed and once again these contained fragments of Scottish medieval reduced ware (Plate 15). The two largest features [061] and [090] could be interpreted as ditches or large elongated pits. In plan and in section they are clearly two separate features (Figures 14 & 15) however after excavation it was obvious that one was an extension of the other, combining to form a ditch or trench running NNW to SSE measuring approximately 14.0 m by 2.6 m and surviving up to 0.45 m deep (Plate 16). The other two features [073] and [087] were smaller and created a narrowing ditch (narrowing from [087] to [073]) running SW to NE at approximate right angles to the larger features (Plate 17). The widest of these was ditch [087] which measured 4.63 m by 1.02 m by 0.38 m, with ditch [073] extending the ditch by 1.40 m but only being 0.47 m wide and 0.23 m deep (Figure 17).



Plate 15 - General view of features [061], [090], [073] and [087] in NE corner





Plate 16 - Post excavation view of features [061] and [090]



Plate 17 - Post excavation view of ditches [073] and [087]

## 5.4 Area B1

- 5.4.1 Evaluation Trench 9 revealed the remains of two sandstone walls [069] and [070] forming the corner of a possible structure (Figure11; Plate 18). Wall [069] was aligned N-S and abutted the south face of wall [070] which is aligned E-W. Both walls were constructed on top of a made ground similar to [078]. Further excavation to reveal the extents of the structure showed that both walls had been truncated by modern activities leaving a surviving structure measuring 3.0 m by 2.3 m.



Plate 18 - Walls [069] and [070] within Trench 9

## 5.5 Area C

- 5.5.1 Area C relates to the area south of West Bowling Green Street and to the east of the main entrance into the site. Three trenches were placed in this area (Trench 10, 11 and 12; see Figure 8) aligned east to west revealing modern made ground to depths of up to 3.0 m sitting on top of orangey brown sand with lenses of grey clay: the same as [036] in Area A (Plate 19). A number of large concrete blocks and brick walls were removed in the top half of the made ground but no significant archaeological features were revealed.



Plate 19 - Post excavation view of Trench 10

## 6 DISCUSSION

- 6.1 The archaeological evaluation and excavations completed at West Bowling Green Street have exceeded the expectations stated in the Written Scheme of Investigation (AOC 2012), providing evidence of medieval archaeological remains surviving 19<sup>th</sup> Century developments. Combined with the previous building recording works (AOC 2012) and the desk based assessment (AOC 2011a) the

excavation results have helped to provide a comprehensive record of the use and development of the site from the medieval period to the present day.

- 6.2 Looking at the latest phase of structures from the excavation alongside the 19<sup>th</sup> Century map evidence, the sandstone walls and sandstone pillar foundations in Area B and Area B1, as well as the brick arches and timber piles in Area A can be seen to relate to buildings shown on the Ordnance Survey from 1876 (Figure 16). The features that make up Structure [099] along with walls [069] and [070] clearly form part of the internal walls and features of the 1876 warehouse. In Area A, as there are no structures pre-dating the 1876 map, and given the machine made brick used in the construction of the arches [001]-[003] and the manhole [009] it is only plausible that these relate to internal features of structures from 1876 or later.
- 6.3 As stated in the historic building survey (AOC 2012), some of the modern structures on site appear to have been built on top of these earlier structures, an example of which is clearly seen in the excavation with wall [089] having modern brick courses built on to an earlier sandstone wall. This wall has also been changed in use from the western wall of the 1876 warehouse to the eastern wall of the modern animal factory.
- 6.4 Looking at the earlier structures in Area B – walls [064], [084], [075], and [076] – alongside the 1852 Ordnance Survey (Figure 17), a link can once again be made between the structures found on the excavation and the structural remains mapped. Wall [064], which begins to form an L-shape, along with wall [084] match up with the ruins marked on the 1852 map. Furthermore, the corner formed by walls [075] and [076] can be seen to relate to the northernmost building depicted within the development area. Given that the structures at the time of the 1852 map are depicted as ‘Ruins’ we have to look at earlier plans and maps of the area to attempt to date them.
- 6.5 From Kirkwood’s 1817 map, the large L-shaped structure depicted within the development site most likely relates to wall [064] which would have formed the structures southern external wall. Given the lack of such a structure on Kirkwood’s earlier 1816 map and Johnston’s later 1851 map, it is possible to date this rubble wall as being part of a structure in use from 1817 to no later than 1851, however there is no indication from the maps or from the excavation as to the buildings use. Related to this L-shaped structure would have been wall [084] and ditch [098] that probably formed a boundary wall and ditch between the L-shaped structure and the northernmost building formed by [075] and [076].
- 6.6 Looking at the building formed by walls [075] and [076], it is possible that they relate to the earlier washing houses depicted on Ainslie’s 1804 map and may even date from the late 18<sup>th</sup> Century. Given the construction of the walls using large river cobbles mixed with sandstone blocks it is clear that they were of an earlier construction than the whinstone and hewn sandstone used later. These two washing house structures are depicted differently on each map from 1804 onwards but it would be safe to assume that they are the same buildings throughout. Furthermore, given the abundance of red tile fragments in deposit [077] which abuts walls [075] and [076], and the similar red tile found within ditch [080] it can be assumed that this ditch was still open at the time of the washing houses being in use. Due to its location on site, to the southern edge of the development site, this ditch was probably an earlier boundary ditch or possibly a drainage ditch given that it slopes down to the Water of Leith.
- 6.7 Given that human remains were found within this ditch it would be useful to be able to date the feature. With only two fragments of human bone being found (jaw bone fragment with teeth and a single vertebra) it would be difficult to provide any other information about age, sex or health of the individual.



- 6.8 Moving onto the earliest features on site it would be prudent to interpret the ditches [049], [051] and [071] as being medieval field boundary ditches, most likely related to the field systems used when the area was part of the Old Bonnington House estate. The ceramics from the ditches have provided an initial tentative date of late medieval (16<sup>th</sup> Century), which would be prior to when the development area became part of Hillhousefield House (Lawson 2011).
- 6.9 The other ditch features [061], [073], [087] and [090] most likely relate to this late medieval period as well given the ceramics found within them, however it is probable that these features relate to a more specific event at this period, the siege of Leith in 1560. It is known from the Petworth map of the siege that ditches, batteries and gun mounts related to the third approach of the siege were located just to the west of the development area (Harris 1991). The features found, being too small to be part of the main siege ditches are most likely smaller forward movements from the main siege works and may be further gunning placements related to Mount Falcon.
- 6.10 Unfortunately, while we have identified many previously unknown structures, the evaluation failed to identify some features recorded on the early maps. For example, a north-west to south-east aligned channel or lade recorded on Kirkwood's 1817 map (Figure 4) was not identified. The reason for this absence is due to the severe truncation that has affected part of the site. The eastern land parcel was severely truncated, with made ground being recorded to a depth of 3.5m below the existing ground level. Clearly, any trace of these features has now been removed.

## 7 CONCLUSION AND RECOMMENDATIONS

- 7.1 The archaeological excavations revealed the limited survival of parts of the possible late 18<sup>th</sup> Century washhouses as well as the 19<sup>th</sup> Century warehouse and fertiliser works, giving an insight into the architectural differences throughout the 18<sup>th</sup>, 19<sup>th</sup> and 20<sup>th</sup> centuries. The excavations also showed that earlier medieval remains can still survive under later large scale developments, with the results of this work providing important information about the unsettled history of Leith in the 16<sup>th</sup> Century.
- 7.2 The evaluation and excavations provided a safeguard for all archaeological remains on the site, which have now been excavated and recorded prior to their complete removal or truncation by the upcoming development.
- 7.3 This Data Structure Report is both preliminary and provisional, with many issues raised by the excavation data still to be addressed. In ascertaining a fuller knowledge of the excavation results, a post-excavation research design will be prepared for approval by the planning authority's archaeological advisor.

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**Section 2: Appendices**

## APPENDIX 1: EVALUATION TRENCH DESCRIPTIONS

### Trench 1

<i>Dimensions</i>	20m by 2.1m
<i>Orientation</i>	SE-NW
<i>Depth of Excavation</i>	1.5m
<i>Significant Features</i>	None
<i>Soil make-up</i>	0.2m of demolition rubble onto black made ground onto yellow sand natural
<i>Natural</i>	Yellow sand with lenses of grey clay
<i>Finds</i>	None

### Trench 2

<i>Dimensions</i>	10m by 2.1m
<i>Orientation</i>	E-W
<i>Depth of Excavation</i>	1m
<i>Significant Features</i>	None
<i>Soil make-up</i>	Demolition rubble onto made ground onto yellow sand natural
<i>Natural</i>	Yellow sand with lenses of grey clay
<i>Finds</i>	None

### Trench 3

<i>Dimensions</i>	15m by 2.1m
<i>Orientation</i>	S-N
<i>Depth of Excavation</i>	2.1m
<i>Significant Features</i>	Brick and sandstone structure [009]
<i>Soil make-up</i>	Demolition rubble onto ash and type 2 material sitting on a dark brown sand with clay lenses throughout (natural subsoil) onto natural yellow sand
<i>Natural</i>	Yellow sand with lenses of grey clay
<i>Finds</i>	Post medieval pottery (Find No's 1+2)

### Trench 4

<i>Dimensions</i>	41m by 2m
<i>Orientation</i>	N-S
<i>Depth of Excavation</i>	1m (N) to 2.9m (S)
<i>Significant Features</i>	None
<i>Soil make-up</i>	Demolition rubble, compact black ash and red blaes to 0.4-1.2m then light brown sandy clay with sandstone rubble and mortar fragments to 0.6-2.4m
<i>Natural</i>	Orangey brown clayey sand and orange gravels
<i>Finds</i>	None

### Trench 5

<i>Dimensions</i>	60m by 2m
<i>Orientation</i>	E-W
<i>Depth of Excavation</i>	1m
<i>Significant Features</i>	Ditch [049], Ditch [051] and Ditch [061] – probably medieval
<i>Soil make-up</i>	Demolition rubble onto dark grey silty clay with brick, mortar and stone
<i>Natural</i>	Orange brown clayey sand and orange gravels
<i>Finds</i>	Animal bone fragments (Find no's 4+6) and medieval pottery (Find No's 3+5)

### Trench 6

<i>Dimensions</i>	36m by 2m
<i>Orientation</i>	E-W
<i>Depth of Excavation</i>	1.1 m
<i>Significant Features</i>	Several sandstone walls aligned N-S ([054]-[056] + [058]-[059]) and a brick manhole [057]
<i>Soil make-up</i>	Demolition rubble onto made ground consisting of re-deposited sands/gravels
<i>Natural</i>	Orangey brown clayey sand
<i>Finds</i>	None

**Trench 7**

*Dimensions* 20m by 2m  
*Orientation* E-W  
*Depth of Excavation* 0.9m  
*Significant Features* Sandstone wall  
*Soil make-up* Demolition rubble onto made ground with re-deposited sands/gravels  
*Natural* Orangey brown clayey sand  
*Finds* None

**Trench 8**

*Dimensions* 32.5m by 2m  
*Orientation* E-W  
*Depth of Excavation* 0.6m  
*Significant Features* Sandstone wall [060] plus the remains of whinstone foundation [064], sandstone walls [065], [066] and curved whinstone walls/arches [067] and [068]  
*Soil make-up* Demolition rubble onto made ground consisting of re-deposited sands/gravels  
*Natural* Orangey brown clayey sand  
*Finds* None

**Trench 9**

*Dimensions* 30m by 2m  
*Orientation* NE-SW  
*Depth of Excavation* 1.9m  
*Significant Features* Sandstone wall [069] and sandstone wall [070] forming the corner of a structure  
*Soil make-up* Re-deposited sands, gravels and soil with general building rubble  
*Natural* Orangey brown clayey sand  
*Finds* None

**Trench 10**

*Dimensions* 25m by 2m  
*Orientation* E-W  
*Depth of Excavation* 3m  
*Significant Features* None  
*Soil make-up* Re-deposited clay with rubble and stone (2m+) over mortar, ash and re-deposited clay and gravel  
*Natural* Yellow sand with lenses of grey clay  
*Finds* None

**Trench 11**

*Dimensions* 18m by 2m  
*Orientation* NE-SW  
*Depth of Excavation* 1.3m  
*Significant Features* None  
*Soil make-up* Dark brown sand with brick, concrete and stone rubble to 0.7m onto a dark brown sandy silt with lenses of sandy clay and abundant coal, stone and wood fragments to 1.3m.  
*Natural* Yellow sand with lenses of grey clay  
*Finds* None

**Trench 12**

*Dimensions* 22m by 2m  
*Orientation* E-W  
*Depth of Excavation* 2.1m  
*Significant Features* None  
*Soil make-up* Dark brown sand with brick, concrete and stone rubble to 0.4m onto re-deposited yellow sand and dark grey clay with abundant stone to 1.3m onto mid brown sandy clay with frequent coal flecks to 1.9m.  
*Natural* Yellow sand with lenses of grey clay  
*Finds* None

## APPENDIX 2: CONTEXT REGISTERS

Context No.	Area	Description and Interpretation
001	A	Brick arch aligned E-W spanning the area between timber pile [004] and edge of excavation to the west. Measures 2.18m by 0.36m by 0.34m consisting of 3 courses of header bricks bounded with cemented sand and lime mortar. <b>Brick foundation arch</b>
002	A	Brick arch aligned E-W spanning the area between timber pile [004] and timber pile [005]. Measures 2.52m by 0.36m by 0.33m consisting of 3 courses of brick - alternating header and stretcher - bounded with cemented sand and lime mortar. <b>Brick foundation arch</b>
003	A	Brick arch aligned E-W spanning the area between timber pile [005] and timber pile [006]. Measures 2.67m by 0.37m by 0.22m consisting of 2 courses of brick –alternating header and stretcher - bounded with cemented sand and lime mortar. <b>Brick foundation arch</b>
004	A	Pair of timber piles with an angled iron collar encasing the top of the pile, supporting brick arch [001] to the west and brick arch [002] to the east. Iron collar measures 0.6m by 0.58m by 0.45m with the east and west faces angling at approximately 45 degrees and the north and south faces vertical. Timber piles measure 0.18m by 0.3m and 0.24m by 0.3m. <b>Timber foundation pile</b>
005	A	Pair of timber piles with an angled iron collar encasing the top of the pile, supporting brick arch [002] to the west and brick arch [003] to the east. Iron collar measures 0.6m by 0.58m by 0.45m with the east and west faces angling at approximately 45 degrees and the north and south faces vertical. Timber piles measure 0.18m by 0.3m by 3m (+) and 0.24m by 0.3m by 3m (+). <b>Timber foundation pile</b>
006	A	Pair of timber piles with an angled iron collar encasing the top of the pile, supporting brick arch [003] to the west. Iron collar measures 0.76m by 0.61m by 0.41m with the west and south faces angling at approximately 45 degrees and the east and north faces vertical. Timber piles were not visible in plan due to a modern concrete covering. Angled north face is in line with paired timber pile [016] but no arch survives between them. <b>Timber foundation pile</b>
007	A	Rectangular cut with vertical sides and a flat base measuring 2.96m by 2.85m. Filled by deposit [008] surrounding structure [009]. <b>Construction cut for structure [009]</b>
008	A	Dark brown clayey sand and gravel mixed with rubble and other stones, with cinder and coal fragment inclusions. Measures 2.96m by 2.85m. Cut by timber pile [021]. <b>Fill of construction cut [007]</b>
009	A	Rectangular sandstone structure with a pyramid of brick capping it and a square hole at the top. Sandstone flagstone floor [047] at the base. Internal dimensions are 0.92m by 0.78m by approximately 1m deep with pipe [037] running into the north face and pipe [046] running E-W through the structure. A small shelf [048] within the northern wall protrudes over pipe [046]. Brick vaulting is one course thick (headers facing out) with rectangular hole 0.48m by 0.42m in the top. Vaulting is approx 0.7m high above sandstone walls. Structure is aligned just off E-W and is not parallel to arches [001]-[003]. <b>Possible water tank or early manhole related to Fertiliser Works</b>
010	A	Linear cut running E-W with vertical sides and a flat base. Measures 5.9m by 0.66m by 0.41m. Filled by deposits [033] and [011]. <b>Modern ditch/trench cut around timber pile of building</b>
011	A	Dark grey clay with sand and rubble inclusions. <b>Upper fill of ditch [010]</b>
012	A	Linear cut running E-W measuring 10.3m by 1.1m by 0.82m. Vertical sides and a flat base containing pipe [046]. <b>Service pipe running through manhole [009]</b>
013	A	Yellow sand with soft grey clay lenses measuring 10.3m by 1.1m by 0.82m. <b>Fill of service track [012]</b>
014	A	Linear cut with vertical sides containing pipe [037], running NE-SW into manhole [009]. NE end is truncated by modern disturbance. Measures 2.48m by 0.58m. Excavated to top of pipe at 0.49m. <b>Service pipe for manhole [009]</b>
015	A	Dark grey clayey sand and gravel with occasional rubble and coal/cinder fragments measuring 2.48m by 0.58m, excavated to 0.49m.



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		<b>Fill of cut [014]</b>
016 – 028	A	Timber piles driven through natural subsoil over 2m deep. A couple still stand to a height of approx 1m but most have been truncated to the natural. [016] measures 0.24m by 0.24m in plan while [017] to [028] measure 0.3m by 0.3m <b>Timber roof supports</b>
029	A	Large square cut measuring 5.44m by 5.2m. Contains concrete block/pad [031] <b>Construction cut for concrete pad</b>
030	A	Loose dark brown sand located at edges of cut [029] measuring 0.4m thick. <b>Fill over concrete pad [031]</b>
031	A	Concrete up to 0.8m thick within cut [029] <b>Modern concrete pad</b>
032	A	Mixture of clayey sand with rubble and cinder/coal fragments. <b>Fill of cut [029] surrounded by [030]</b>
033	A	Dark grey clay with abundant stone and frequent cinder fragments measuring 5.9m by 0.66m b 0.41m. <b>Fill of ditch [010]</b>
034	A	Dark orangey brown sand measuring 1m by 0.4m by 0.15m within southern edge of ditch [010]. <b>Fill of ditch [010]</b>
035	A	Dark orangey brown sand measuring 1m by 0.2m by 0.11m within northern edge of ditch [010]. <b>Fill of ditch [010]</b>
036	A	Orangey brown sand with lenses of grey clay. <b>Natural sand</b>
037	A	Ceramic pipe exposed in cut [014] measuring 0.23m diameter. <b>Drainage pipe</b>
038	A	Dark grey clayey sand with abundant broken brick and rubble up to 2m deep within structure [009]. <b>Post abandonment filling of [009]</b>
039	A	Dark grey silt within [009]. <b>Water bourne deposit within [009]</b>
040	A	Grey clay in north facing section under arch [001] measuring 0.82m wide by 0.44m thick. <b>Made ground</b>
041	A	Dark grey clayey sand with frequent ash and cinder deposits in north facing section under arch [001] measuring 1.7m wide by 0.33m thick. <b>Dump of waste material</b>
042	A	Grey clay under arches. <b>Made ground</b>
043	A	Grey clay under arches. <b>Made ground</b>
044	A	<b>-VOID-</b>
045	A	Dark grey clay measuring 0.53m wide by 0.42m thick. <b>Lower fill of [012]</b>
046	A	Ceramic pipe measuring 0.22m in diameter running through ditch [012] and structure [009]. Cut by timber pile. <b>Drainage pipe</b>
047	A	Sandstone flagstone floor at base of manhole structure [009]. Average slab size measured 1.03m by 0.53m. Floor area between walls of [009] measured 1.8m by 1.52m. <b>Flagstone floor of manhole [009]</b>
048	A	Sandstone shelf on north wall of manhole [009] forming the base for pipe [037] where it enters the structure. Shelf is 0.22m wide from north wall and 0.56m from floor. <b>In-built shelf for base of pipe [037]</b>
049	B	Linear cut running NNW-SSE parallel to ditch [051]. Very shallow feature with a flat base filled by deposit [050]. Measures 12.13m long by 1.25m wide by 0.1m deep. <b>Ditch – possibly related to [051]</b>
050	B	Dark greyish brown sandy clay with occasional oyster shell and frequent small stone inclusions measuring 12.13m by 1.25m by 0.1m. Similar to deposit [052]. <b>Fill of ditch [049]</b>
051	B	Linear cut running NNW-SSE, parallel to ditch [049], with very steep sides and a flat base sloping slightly E-W. Ditch is truncated by a modern manhole, wall [089], wall [064] and ditch [071] at its terminus. Ditch measures 11.2m from L.O.E. to wall [089] then 4.7m from wall [089] to terminus, is 0.76m wide and depth decreases from NNW to SSE from 0.62m in Slot A to 0.44m in Slot C. Filled by deposit [052].

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		<b>Possible medieval boundary ditch</b>
052	B	Dark greyish brown sandy clay with occasional stone and shell inclusions. Truncated by a modern manhole, wall [089], wall [064] and ditch [071]. Similar to deposit [050]. Measures 15.9m by 0.76m by 0.62m. <b>Fill of ditch [051]</b>
053	B	Compact orange gravel in a sandy clay matrix. Mainly in northern half of excavation area. <b>Natural subsoil</b>
054	B	Sandstone wall running N-S measuring 0.6m wide within trench 6. <b>Dividing wall of southernmost warehouse structure</b>
055	B	Sandstone wall running N-S measuring 0.6m wide within trench 6. <b>Dividing wall of southernmost warehouse structure</b>
056	B	Sandstone wall running N-S measuring 0.6m wide within trench 6. Ceramic pipe in top of wall and in west facing elevation. <b>Dividing wall of southernmost warehouse structure</b>
057	B	Remains of a brick structure measuring 1.3m by 0.55m aligned E-W with evidence of sandstone capping (Trench 6). <b>Internal feature of southernmost warehouse structure</b>
058	B	Sandstone wall running N-S measuring 0.6m wide within trench 6. <b>Dividing wall of southernmost warehouse structure</b>
059	B	Sandstone wall running N-S measuring 0.6m wide within trench 6. <b>Dividing wall of southernmost warehouse structure</b>
060	B	Reddish brown sandy clay. <b>Natural subsoil</b>
061	B	Cut for a large linear/arcing pit aligned NNW-SSE and related to similar feature [090], and ditches [073] and [087]. Slightly stepped sides from moderate to steep with a flat base measuring 4.3m by 2.6m by 0.43m. <b>Ditch/trench probably related to siege – 1560</b>
062	B	Very compact orangey brown clayey sand with abundant small to large stone inclusions. Measures 4.3m by 1.96m by 0.23m. <b>Primary fill of ditch [061]</b>
063	B	Dark greyish brown sandy clay with abundant small to large stone inclusions and rare shell. Measures 4.3m by 2.6m by 0.2m and covers deposit [062]. <b>Upper fill of ditch [061]</b>
064	B	Remains of a whinstone wall or foundation course bonded with sand and lime mortar, badly fragmented by later building on site. Wall runs E-W and may be the same as wall [084]. Originates from westerly limit of excavation and runs east to wall [086] which may have truncated and removed it. It survives as mainly rubble for 10.25m by 1.1m by 0.2m. Wall is also truncated and removed by wall [089] but cuts ditch fill [052]. <b>Possible boundary wall</b>
065	B	<b>-VOID-</b>
066	B	<b>-VOID-</b>
067	B	<b>-VOID-</b>
068	B	<b>-VOID-</b>
069	B1	Sandstone wall constructed of angular sandstone blocks 3 courses high running N-S abutting the south face of wall [070]. Measures 3m by 1m by 0.75m. Truncated to the south by modern activity. <b>19<sup>th</sup> century wall</b>
070	B1	Sandstone wall constructed of angular sandstone blocks 3 courses high running E-W and abutted by wall [069] on its south face. Measures 2.3m by 0.6m by 0.75m. Truncated to the west by modern services. <b>19<sup>th</sup> century wall</b>
071	B	Linear cut running ENE-WSW with moderately steep sides and a concave base. Westernmost end truncated by wall [089] and does not continue west after this. Easternmost end is truncated by wall [086] and does not continue further east. Cuts ditch fill [052] where ditch [051] terminates and runs at right angles to it suggesting a possible link between them. Further truncated by two foundation slabs [097] along its length. Measures 11.9m by 0.48m by 0.18m. <b>Possible medieval boundary ditch</b>
072	B	Dark greyish brown silt with occasional charcoal inclusions measuring 11.9m by 0.48m by 0.18m. <b>Fill of ditch [071]</b>
073	B	Linear cut running NE from end of ditch [087] with very steep sides and an uneven base

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		measuring 1.4m by 0.47m by 0.23m. Most likely cuts ditch fill [088]. <b>Narrow ditch related to siege ditches – 1560</b>
074	B	Moderately compact dark grey sandy clay with frequent stone inclusions measuring 1.4m by 0.47m by 0.23m. <b>Fill of ditch [073]</b>
075	B	Wall constructed of a mixture of square sandstone blocks and large natural cobbles varying in size from 0.2m by 0.2m to 0.7m by 0.7m and bonded by sand and lime mortar. Wall runs NE from NW end of wall [076] and is truncated by modern services to the NE. Measures 1.5m by 0.52m and stands one course high (approx 0.6m). Covers collapsed wall [084]. <b>Wall of 19<sup>th</sup> Century building</b>
076	B	Wall constructed of a mixture of square sandstone blocks and large natural cobbles varying in size from 0.2m by 0.2m to 0.7m by 0.7m and bonded by sand and lime mortar. Wall runs NW-SE and forms a possible NW corner of a building with [075]. NE face is squared suggesting an internal face with SW face irregular. Truncated at SE end. Built on deposit [077]. Measures 5.3m by 0.7m by 0.58m. <b>Wall of 19<sup>th</sup> Century building</b>
077	B	Dark brown sandy clay with frequent coal flecks and occasional stones. Mainly excavated by machine during stripping of excavation area. Abuts walls [075] and [076] and sits on natural [060] Measures 0.2m thick and contains a lot of red tile fragments. <b>Possible old soil horizon related to 19<sup>th</sup> century buildings</b>
078	B	Moderately compact dark greyish brown sandy clay with very large beach cobble inclusions and mortar fragments. 0.27 to 0.37m thick covered by re-deposited natural [079], occurring to the south and south west of [075] and [076]. <b>Made ground related to 19<sup>th</sup> century building demolition</b>
079	B	Soft reddish brown sandy clay with rare coal flecks measuring 0.04m thick and covering deposit [078]. <b>Re-deposited natural in southern edge of site</b>
080	B	Linear cut running ENE-WSW terminating at its ENE end. Moderately steep sided with a concave base measuring 15.2m by 0.84m by 0.43m. Truncated by wall [086] near its terminus and truncated by wall [089] to the WSW. Also partly truncated by sandstone foundation [097] along its length. Filled by deposit [081]. <b>Possible medieval and post medieval boundary ditch</b>
081	B	Dark greyish brown sandy silt with frequent charcoal and small stone inclusions. Deposit includes a variety of finds from medieval reduced ware to red tile as well as some fragments of human bone (jaw bone with teeth and vertebrae identified). Measures 15.2m by 0.84m by 0.43m. <b>Fill of ditch [080]</b>
082	B	<b>-VOID-</b>
083	B	<b>-VOID-</b>
084	B	Whinstone wall running E-W, collapsed into ditch [098]. Aligned with wall [064] to the east of warehouse wall [086] which appears to cut the foundations. Wall foundations continue (collapsed) to the east and possibly abut the washhouse walls [075] and [076]. Wall measures 10.5m by 0.6m and is in tact up to 0.8m high all be it at an approximate 60 degree angle when recorded. Foundation course and upper courses are bonded with sand and lime and have collapsed without breaking apart indicating a slip into [098] from the foundations. <b>Collapsed wall of 19<sup>th</sup> century origin</b>
085	B	Small fragment of a sandstone and whinstone wall aligned E-W sitting within the deposit covering wall [084] (possibly same as [077]). Bonded by an orange and yellow sand and lime mortar (similar to mortar found in deposit [078]). Measures 1.47m by 0.55m by 0.3m. <b>Fragment of a wall – possibly related to 19<sup>th</sup> century buildings</b>
086	B	Sandstone wall aligned N-S measuring 5.5m from north before truncation by modern services then a further 1.5m south. 0.66m wide and 0.5m high bonded with a concreted sand and lime mortar. <b>Warehouse wall</b>
087	B	Linear cut running NE from pit/ditch [090] with steep sloping sides and a flat base. Measures 4.63m by 1.02m by 0.38m. Filled by deposit [087]. Truncated at terminus by ditch [073]. <b>Ditch related to siege 1560</b>
088	B	Moderately compact dark greyish brown loamy sand with occasional stone inclusions measuring 4.63m by 1.02m by 0.38m. Cut by ditch [073]. <b>Fill of ditch [087]</b>
089	B	Cement bonded brick wall sitting on top of a sandstone base upstanding to 1m high running N-S

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		and cutting ditch [051] and [071] as well as wall [064]. 6 courses of brick sit on a bitumastic base on top of a re-used sandstone wall that is 0.45m high. Construction cut for foundation is 0.2m from west side of wall and 0.5m on east side of wall. <b>External wall of warehouse (circa 1876)</b>
090	B	Linear or arcing pit feature aligned NNW-SSE with gently sloping sides and a flat base measuring 8m by 2.2m by 0.45m. Filled by [091] and related to ditch [061] and [087]. <b>Feature related to siege ditches - 1560</b>
091	B	Moderately compact mid greyish brown clayey sand with occasional gravel inclusions measuring 8m by 2.2m by 0.45m. <b>Fill of feature [090]</b>
092	B	Sandstone wall running E-W abutting wall [089] on its eastern face and abutting [097] to the east. Sits on made ground and contains a possible doorway within it. Measures 3.8m by 0.6m by 0.4m. <b>Internal wall of warehouse (circa 1876)</b>
093	B	Sandstone and whinstone wall similar to and aligned with [092] and [095] measuring 3.8m by 0.6m by 0.35m. <b>Internal wall of warehouse (circa 1876)</b>
094	B	Sandstone wall running N-S abutting east end of wall [093] measuring 2.3m by 0.67m. <b>External wall of warehouse (circa 1876)</b>
095	B	Sandstone wall running E-W abutting [096] and aligned with [092] and [093] measuring 7m by 0.75m by 0.3m. Wall cuts top of ditch [090]. <b>External courtyard wall of warehouse (circa 1876)</b>
096	B	Sandstone wall running N-S at edge of excavation forming a corner with wall [095] and measuring 8m by 0.6m by 0.9m. <b>External wall of warehouse (circa 1876)</b>
097	B	Fourteen (14) sandstone bases set in 2 rows (one of 7, one of 6) running N-S and a row of three running E-W. Sandstone bases are on average 1.03m by 1.1m by 0.21m with construction cuts around them approx 0.1m out with slab. Bases cut ditch [071] in two places and ditch [080] in one place. <b>Internal roof supports for warehouse structure (circa 1876)</b>
098	B	Possible linear running E-W immediately south of collapsed wall [084]. Actual cut not obvious but filled by wall collapse [084] suggesting there must have been an open ditch present. Measures 1.44m wide and is 0.8m deep with pale yellow clay forming the base. 9.9m of ditch is visible with [084] within but there may be more running under building [075]. <b>Probable boundary ditch associated with wall [084]</b>
099	B	19 <sup>th</sup> century warehouse structure consisting of walls [086], [089], [092], [093], [094], [095], and [096] as well as sandstone bases [097]. Would have formed most of the west side of the warehouse structure denoted on the 1876 map. Construction of the structure covers collapse wall [084] and truncates all other earlier archaeological features in places. <b>Warehouse Structure circa 1876</b>
100	B	Dark grey clayey sand with ash and cinder inclusions. Occurs to the eastern side of the slot through ditch [098] infilling where the wall hasn't capped the ditch. <b>Later fill of ditch [098]</b>

**APPENDIX 3: PHOTOGRAPHIC REGISTER**

## Black &amp; White Film No. 1

Frame	Area	F. No	Description	From	Date
1-2	-	-	Registration	-	15/10/12
3	A		N-facing section T1	N	15/10/12
4	A		Demolition pit s-facing	S	15/10/12
5-6	A		Post ex T1	-	15/10/12
7-8	A		Post ex T2	-	15/10/12
9	A		Brick built drain S facing section	S	15/10/12
10-11	A		T3 post ex		15/10/12
12-15	A		Brick/sandstone drain	Var	15/10/12
16-17	B		Area adjacent to water of Leith stripped	E	19/10/12
18-19	B		Area adjacent to Anderson Place stripped	W	19/10/12
20-21	A		General view of area	S	26/10/12
22-23	A		S-facing section of trench showing brick arches	S	26/10/12
24-25	A		View of chimney base	N	26/10/12
26-27	A		View of chimney base	N	26/10/12
28-29	A		View of chimney base	E	26/10/12
30-31	A		Large square pit	NW	26/10/12
32-33	A		Linear E-W	E	26/10/12
34-35	A		Linear NE-SW cut	SW	26/10/12
36-37	A		E-W ditch	S	26/10/12
38	A		Detail of chimney upper structure		26/10/12

## Black &amp; White Film No. 2

Frame	Area	F. No	Description	From	Date
1-2	-	-	Registration	-	26/10/12
3-4	A	[010]	Ditch [010] E-facing section	E	26/10/12
5-6	A	[010]	Ditch [010] view of slot	E	26/10/12
7-8	A	[004]	Detail of timber pile and metal cap [004]	S	26/10/12
9-10	A	[004]	Detail of top of timber pile and metal cap	N	26/10/12
11-12	A	[014]	[014] NE-facing section showing pipe at base	NE	26/10/12
13-14	A	[012]	Timber pile cutting pipe in ditch [012]	W	27/10/12
15-16	A	[012]	E-facing section of pipe trench [012]	E	27/10/12
17-18	A	[024]	Shot showing timber pile 2m (+) below natural	S	27/10/12
19-20	A	[009]	E-facing section of manhole	E	27/10/12
21-22	A	[009]	S-facing section of manhole	S	27/10/12
23-24	A	[041]	Sandstone slab floor of manhole	N	27/10/12
25-26	A	[031]	Concrete surface [031]	W	27/10/12
27-28	A	[031]	Depth of [031]	N	27/10/12
29-30	B		Post ex T4	S	1/11/12
31-32	B	[051]	NNW-facing section of ditch [051]	NNW	1/11/12
33-34	B	[051]	S-facing section of T5 and ditch [051]	SSE	1/11/12
35-36	B	[049]	NNW facing section of ditch [049]	NW	2/11/12

## Black &amp; White Film No. 3

Frame	Area	F. No	Description	From	Date
1-2	-	-	Registration	-	2/11/12
3-4	B		Trench 6 – general view	W	2/11/12
5-6	B		F56 and 57 – general view	S	2/11/12
7-8	B		F56 – west facing elevation	W	2/11/12
9-10	B	[061]	NNW facing section of ditch [061]	NW	2/11/12
11-12	B		Trench 7 – general view	W	2/11/12

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13-14	B		Trench 8 – general view	W	2/11/12
15-16	B		F61 – general view	S	2/11/12
17-18	B		F67 – general view	W	2/11/12
19-20	B		Trench 5 – general view	E	2/11/12

**Black & White Film No. 4**

Frame	Area	F. No	Description	From	Date
1-2	-	-	Registration	-	11/11/12
3-4	B	[051]	Pre-ex ditch [051] facing N end	S	12/11/12
5-6	B	[071]	ENE-facing section of ditch [071] – slot A	ENE	13/11/12
7-8	B	[071]	ENE-facing section of ditch [071] – slot B	ENE	13/11/12
9-10	B	[071]	ENE-facing section of ditch [071] – slot C	ENE	13/11/12
11-12	B	[051]	SSE-facing section of ditch [051] – slot B	SSE	13/11/12
13-14	B	[051]	SSE-facing section of ditch [051] – slot C	SSE	13/11/12
15-16	B	[071]	General shot - slot A	ENE	13/11/12
17-18	B	[071]	General shot - slot B	ENE	13/11/12
19-20	B	[071]	General shot - slot C	ENE	13/11/12
21-22	B	[071]	General shot of [071]	ENE	13/11/12
23-24	B	[071]	General shot of [071]	WSW	13/11/12
25-26	B	[073]	NE-facing section of [073] – slot A	SW	14/11/12
27-28	B	[073]	Terminus of [073]	NE	14/11/12
29-30	B	[075]	Cobble wall [075]	SW	14/11/12
31-32	B	[076]	Cobble wall [076]	NW	14/11/12
33-34	B	[077]	Deposits covering [077]	W	14/11/12
35-36	B	[080]	ENE facing section of [080]	ENE	14/11/12
37	B	[073]	Relationship slot of [073]	NW	14/11/12

**Black & White Film No. 5**

Frame	Area	F. No	Description	From	Date
1-2	-	-	Registration	-	14/11/12
3-4	B		Relationship slot for [073]	SE	14/11/12
5-6	B		Relationship slot for [073]	NW	14/11/12
7-8	B	[084]	General shot of collapsed wall [084]	N	14/11/12
9-10	B	[084]	General shot of collapsed wall [084]	W	14/11/12
11-12	B	[084]- [085]	General shot of collapsed wall [084]	E	14/11/12
13-14	B		WSW facing section of slot showing the relation of [071] and [051]	WSW	15/11/12
15-16	B		Robs slot aiming to define the relationship between [061], [087], and [090]	NNE	15/11/12
17-18	B	[049]	Section through ditch [049], SSE-facing	S	15/11/12
19-20	B		General shot of [049]/[051] post ex	N	15/11/12
21-22	B		General shot of [049]/[051] post ex	S	15/11/12
23-24	B	[087]	Section of [087] slot B facing NE	NE	15/11/12
25-26	B	[080]	SW-facing section of ditch [080] – slot B	SW	15/11/12
27-28	B	[080]	E-facing section of ditch [080] – slot B	E	15/11/12
29-30	B	[051]	General shot of ditch [051] under wall [089] and [064]	SSE	15/11/12
31-32	B		General shot of siege ditches	SE	16/11/12
33-34	B		General shot of siege ditches	NE	16/11/12
35-36	B		General shot of siege ditches	NW	16/11/12
37	B	[090]	S-facing section of ditch [090]	SW	16/11/12

**Black & White Film No. 6**

Frame	Area	F. No	Description	From	Date
1-2	-	-	Registration	-	16/11/12
3-4	B	[064]	Shot showing w-facing slot through [064]	W	16/11/12



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5-6	B	[064]	General shot of [064]	W	16/11/12
7-8	B	[080]	W-facing section slot C [080]	W	16/11/12
9-10	B	[084]	General shot showing wall [084]	E	16/11/12
11-12	B	[084]	General shot showing wall [084]	W	16/11/12
13-14	B	[098]	W-facing section of [098]	W	16/11/12
15-16	B	[086]- [094]	Walls [086] and [094]	S	16/11/12
17-18	B	[095]	Wall [095]	E	16/11/12
19-20	B	[096]	Wall [096]	S	16/11/12
21-22	B	[092]	Wall [092]	E	16/11/12
23-24	B	[097]	Sandstone pillars [097] – 1 <sup>st</sup> Row	S	16/11/12
25-26	B	[097]	Sandstone pillars [097] – top row	E	16/11/12
27-28	B	[064]	Wall [064] running under e-facing limit of excavation	E	16/11/12
29-30	B	[080]	Post ex ditch [080]	E	16/11/12
31-32	B	[080]	Post ex ditch [080]	E	16/11/12

**Digital Photographs**

Frame	Area	F. No	Description	From	Date
1-2			Registration	-	15/10/12
3	A		N-facing section T1	N	15/10/12
4	A		Demolition pit s-facing	S	15/10/12
5-6	A		Post ex T1	-	15/10/12
7	A		Post ex T2	-	15/10/12
8	A		Brick built drain S facing section	S	15/10/12
9-12	A		Brick/sandstone drain	Var	15/10/12
13-14	B		Area adjacent to water of Leith stripped	E	19/10/12
15-16	B		Area adjacent to Anderson Place stripped	W	19/10/12
17	A		General view of area	S	26/10/12
18-20	A		S-facing section of trench showing brick arches	S	26/10/12
21	A		View of chimney base	N	26/10/12
22	A		View of chimney base	N	26/10/12
23	A		View of chimney base	E	26/10/12
24	A		Large square pit	NW	26/10/12
25	A		Linear E-W	E	26/10/12
26	A		Linear NE-SW cut	SW	26/10/12
27	A		E-W ditch	S	26/10/12
28	A		Detail of chimney upper structure		26/10/12
29			Registration B&W film 2	-	26/10/12
30	A	[010]	Ditch [010] E-facing section	E	26/10/12
31	A	[010]	Ditch [010] view of slot	E	26/10/12
32	A	[004]	Detail of timber pile and metal cap [004]	S	26/10/12
33	A	[004]	Detail of top of timber pile and metal cap	N	26/10/12
34	A	[014]	[014] NE-facing section showing pipe at base	NE	26/10/12
35	A	[012]	Cut [012] and pile [014]		26/10/12
36	A	[012]	Timber pile cutting pipe in ditch [012]	W	27/10/12
37	A	[012]	E-facing section of pipe trench [012]	E	27/10/12
38	A	[024]	Shot showing timber pile 2m (+) below natural	S	27/10/12
39	A		Working shot removing manhole		27/10/12
40	A	[009]	E-facing section of manhole	E	27/10/12
41	A	[009]	S-facing section of manhole	S	27/10/12
42	A	[041]	Sandstone slab floor of manhole	N	27/10/12
43	A	[031]	Concrete surface [031]	W	27/10/12
44	A	[031]	Depth of [031]	N	27/10/12
45	B		Post ex T4	S	01/11/12
46	B	[051]	NNW-facing section of ditch [051]	NNW	1/11/12

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47	B	[051]	S-facing section of T5 and ditch [051]	SSE	1/11/12
48	B	[049]	NNW facing section of ditch [049]	NW	2/11/12
49			Film 3 Registration shot	-	2/11/12
50-51	B		Trench 6 – general view	W	2/11/12
52-53	B		F56 and 57 – general view	S	2/11/12
54-55	B		F56 – west facing elevation	W	2/11/12
56	B	[061]	NNW facing section of ditch [061]	NW	2/11/12
57-58	B		Trench 7 – general view	W	2/11/12
59-60	B		Trench 8 – general view	W	2/11/12
61-62	B		F61 – general view	S	2/11/12
63-64	B		F67 – general view	W	2/11/12
65-66	B		Trench 5 – general view	E	2/11/12
67-68	B		Trench 9 – general view	NE	9/11/12
69-70	B		Trench 9 – general view	SW	9/11/12
71-72	B1		Wall features [069], [070] general view	W	9/11/12
73-74	B1		Wall features [069], [070] W-facing elevation	W	9/11/12
75-76	B	[051]	Pre-ex ditch [051] facing N end	S	12/11/12
77	B	[071]	ENE-facing section of ditch [071] – slot A	ENE	13/11/12
78	B	[071]	ENE-facing section of ditch [071] – slot B	ENE	13/11/12
79	B	[071]	ENE-facing section of ditch [071] – slot C	ENE	13/11/12
80	B	[051]	SSE-facing section of ditch [051] – slot B	SSE	13/11/12
81	B	[051]	SSE-facing section of ditch [051] – slot B	SSE	13/11/12
82	B	[051]	SSE-facing section of ditch [051] – slot C	SSE	13/11/12
83	B	[051]	SSE-facing section of ditch [051] – slot C	SSE	13/11/12
84	B	[071]	General shot - slot A	ENE	13/11/12
85	B	[071]	General shot - slot B	ENE	13/11/12
86	B	[071]	General shot - slot C	ENE	13/11/12
87	B	[071]	General shot of [071]	ENE	13/11/12
88	B	[071]	General shot of [071]	WSW	13/11/12
89	B	[073]	NE-facing section of [073] – slot A	SW	14/11/12
90	B	[073]	Terminus of [073]	NE	14/11/12
91	B	[075]	Cobble wall [075]	SW	14/11/12
92	B	[076]	Cobble wall [076]	NW	14/11/12
93	B	[077]	Deposits covering [077]	W	14/11/12
94	B	[073]	Relationship slot for [073]	NW	14/11/12
95	B	[073]	Relationship slot for [073]	SE	14/11/12
96	B	[084]	General shot of collapsed wall [084]	N	14/11/12
97	B	[084]	General shot of collapsed wall [084]	W	14/11/12
98	B	[084]- [085]	General shot of collapsed wall [084]	E	14/11/12
99	B	[080]	ENE-facing section of [080]	ENE	15/11/12
100	B		WSW facing section of slot showing the relation of [071] and [051]	WSW	15/11/12
101	B		Slot aiming to define the relationship between [061], [087], and [090]	NNE	15/11/12
102/3	B	[049]	Section through ditch [049], SSE-facing	S	15/11/12
104/5	B		General shot of [049]/[051] post ex	N	15/11/12
106/7	B		General shot of [049]/[051] post ex	S	15/11/12
108	B	[087]	Section of [087] slot B facing NE	NE	15/11/12
109	B	[080]	SW-facing section of ditch [080] – slot B	SW	15/11/12
110	B	[080]	E-facing section of ditch [080] – slot B	E	15/11/12
111	B	[051]	General shot of ditch [051] under wall [089] and [064]	SSE	15/11/12
112	B		General shot of siege ditches	SE	16/11/12
113	B		General shot of siege ditches	NE	16/11/12
114	B		General shot of siege ditches	NW	16/11/12
115	B		S-facing section of ditch [090]	SE	16/11/12
116	B		S-facing section of ditch [090]	S	16/11/12

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117	B		S-facing section of ditch [090]	SW	16/11/12
118	B	[064]	Shot showing w-facing slot through [064]	W	16/11/12
119	B	[064]	General shot of [064]	W	16/11/12
120	B	[080]	W-facing section slot C [080]	W	16/11/12
121	B	[084]	General shot showing wall [084]	E	16/11/12
122	B	[084]	General shot showing wall [084]	W	16/11/12
123	B	[098]	W-facing section of [098]	W	16/11/12
124	B	[086]- [094]	Walls [086] and [094]	S	16/11/12
125	B	[095]	Wall [095]	E	16/11/12
126	B	[096]	Wall [096]	S	16/11/12
127	B	[092]	Wall [092]	E	16/11/12
128	B	[097]	Sandstone pillars [097] – 1 <sup>st</sup> Row	S	16/11/12
129	B	[097]	Sandstone pillars [097] – top row	E	16/11/12
130	B	[064]	Wall [064] running under e-facing limit of excavation	E	16/11/12
131	B	[080]	Post ex ditch [080]	E	16/11/12
132	B	[080]	Post ex ditch [080]	E	16/11/12
133	B		Post ex shot of siege ditches [061], [090], [087] and [073]	NNW	20/11/12
134	B		Post ex shot of siege ditches [061], [090], [087] and [073]	NW	20/11/12
135	B		Post ex shot of siege ditches [061], [090], [087] and [073]	SSW	20/11/12
136	B		Post ex shot of siege ditches [061], [090], [087] and [073]	SSE	20/11/12
137	B		Post ex shot of siege ditches [061], [090], [087] and [073]	SSE	20/11/12
138	B		Post ex shot of siege ditches [061], [090], [087] and [073]	NE	20/11/12
139	B		Post ex shot of siege ditches [061], [090], [087] and [073]	NE	20/11/12
140	B		Post ex shot of siege ditches [061], [090], [087] and [073]	NNW	20/11/12
141	B		Post ex shot of siege ditches [061], [090], [087] and [073]	NW	20/11/12
142	B		Post ex shot of siege ditches [061], [090], [087] and [073]	NNW	20/11/12
143	C		Modern building truncation	W	29/11/12
144-146	C		Concrete slab	Var	29/11/12
147-148	B		Area B backfilled	Var	29/11/12
149	C		Working shot	E	29/11/12
150	C		Modern truncated area - cellar	SE	29/11/12
151	C		Modern truncated area – cellar	SE	29/11/12
152	C		Edge of slab removal	E	29/11/12
153	C		Possible cut in bank for channel	N	29/11/12
154	C		Test pit showing slab @ 1.5m	E	29/11/12
155	C		Brick wall in S-facing T10 section	S	30/11/12
156	C		Post ex trench 10	W	30/11/12
157	C		Area of cobbles	E	11/12/12
158	C		Area of hard standing	NE	11/12/12
159	C		Rubble on top of concrete slab	N	11/12/12
160	C		Large concrete base under rubble	E	11/12/12
161	C		Trench 11 section showing made ground onto natural	S	11/12/12
162	C		Trench 11 post ex	E	11/12/12
163	C		Sandstone built base	E	11/12/12
164	C		Working shot removing cobbles	SE	11/12/12
165	C		Area C stripped	N	11/12/12
166	C		Ash pit in Trench 12	SW	11/12/12
167	C		Trench 12 post ex	W	11/12/12

**APPENDIX 4: DRAWING REGISTER**

Drawing No.	Area	Feature No.	Details	Scale
1	A		Plan of North End	1:20
2	A	010	E-facing section of ditch [010]	1:10
3	A	014	NE-facing section of ditch [014]	1:10
4	A	012	E-facing section of ditch [012]	1:10
5	A		Plan of south end	1:20
6	A		Overlay of [009]	1:20
7	B	[049]-[053]	Plan of east end of T5	1:20
8	B	[051]	NNW-facing section of ditch [051]	1:10
9	B	[049]	NNW-facing section of ditch [049]	1:10
10	B	[061]	NNW-facing section of ditch [061]	1:10
11	B	[001]-[006]	S-facing elevation of arches[001]-[003]	1:20
12	B	[071]	ENE-facing section of [071] – slot A	1:10
13	B	[071]	ENE-facing section of [071] – slot B	1:10
14	B	[071]	ENE-facing section of [071] – slot C	1:10
15	B	[051]	NNW facing section of ditch [051] – slot B	1:10
16	B	[051]	NNW facing section of ditch [051] – slot C	1:10
17	B	[073]	NNW facing section of [073]	1:10
18	B	[075]-[076]	Plan of washhouse walls [075] and [076]	1:20
19	B	[080]	ENE-facing section of ditch [080] – slot A	1:10
20	B	[073]-[087]	Relationship slot between ditches [073] and [087]	1:10
21	B	[071]	Relationship slot between ditch [071] and [052]	1:10
22	B		Relationship slot between ditches [061], [090] and [087]	1:10
23	B	[087]	NNE-facing section of [087] – slot B	1:10
24	B	[080]	W-facing section of ditch [080] – slot C	1:10
25	B	[080]	E-facing section of ditch [080] – slot B	1:10
26	B	[080]	W-facing section of ditch [080] – slot B	1:10
27	B	[084]	Plan of wall [084]	1:20
28	B	[084]	Overlay of plan 27	1:20
29	B		Plan of siege ditches	1:10
30	B	[090]	S-facing section of ditch [090]	1:10
31	B	[098]	E-facing section of ditch [098]	1:10

**APPENDIX 5: FINDS REGISTER**

Finds No.	Area	Context No.	Description
1	A	033	Post-medieval ceramics
2	A	011	Post-medieval ceramics
3	B	052	Possible medieval ceramic
4	B	052	Animal bone
5	B	062	Possible medieval ceramic
6	B	063	Animal bone fragments
7	B	052	Cu coin
8	B	072	Possible medieval ceramics
9	B	072	Post medieval ceramic
10	B	077	Red tile ceramics (possible roof tile)
11	B	052	Animal bone fragment
12	B	052	Possible medieval ceramics
13	B	052	Animal bone fragment
14	B	081	Ceramics
15	B	081	Bone – possible human and animal
16	B	050	Possible medieval ceramics
17	B	088	Possible medieval ceramics
18	B	088	Clay pipe stem fragment
19	B	081	Human jaw bone fragment
20	B	081	Fe nail
21	B	081	Probable animal bone fragments
22	B	081	Ceramic fragments – white ceramic, red tile and possible medieval reduced ware
23	B	081	Ceramic fragments
24	B	081	Ceramic fragments
25	B	081	Bone fragments
26	B	091	Ceramic fragment
27	B	091	Fe object

## APPENDIX 6: SAMPLES REGISTER

Context No.	Area	Quantity (litres)
050	B	20
052 – Slot A	B	20
052 – Slot B	B	20
052 – Slot C	B	20
062	B	20
063	B	20
072 – Slot A	B	20
072 – Slot B	B	20
072 – Slot C	B	20
074	B	20
081 – Slot A	B	20
081 – Slot C	B	20
088	B	20
091	B	20

**APPENDIX 7: 'DISCOVERY AND EXCAVATION IN SCOTLAND' REPORT**

<b>LOCAL AUTHORITY:</b>	City of Edinburgh Council
<b>PROJECT TITLE/SITE NAME:</b>	West Bowling Green Street, Leith
<b>PROJECT CODE:</b>	21982
<b>PARISH:</b>	North Leith
<b>NAME OF CONTRIBUTOR:</b>	Kevin Paton
<b>NAME OF ORGANISATION:</b>	AOC Archaeology Group
<b>TYPE(S) OF PROJECT:</b>	Evaluation and Excavation
<b>NMRS NO(S):</b>	N/A
<b>SITE/MONUMENT TYPE(S):</b>	N/A
<b>SIGNIFICANT FINDS:</b>	Human remains; medieval ceramics; post medieval ceramics
<b>NGR (2 letters, 6 figures)</b>	NT 2640 7615
<b>START DATE (this season)</b>	15 <sup>th</sup> October 2012
<b>END DATE (this season)</b>	11 <sup>th</sup> December 2012
<b>PREVIOUS WORK (inc DES)</b>	Desk Based Assessment (AOC 2011); Historic Building Recording (2012)
<b>MAIN (NARRATIVE) DESCRIPTION:</b> (May include information from other fields)	<p>An archaeological evaluation and subsequent excavations were undertaken by AOC Archaeology Group on behalf of J Smart &amp; Co. plc during the construction of a residential and commercial development at West Bowling Green Street, Leith.</p> <p>After evaluating the development area, three excavation areas were opened: Area A to the north and east of West Bowling Green Street and Areas B &amp; B1 to the south and west of West Bowling Green Street.</p> <p>Area A contained the foundation pillars and arched foundations of the 19<sup>th</sup> Century fertiliser works as well as an earlier sandstone and brick drainage junction. Area B and B1 revealed the remains of the 19<sup>th</sup> Century warehouse foundations cutting through several earlier 18<sup>th</sup> and 19<sup>th</sup> century buildings and features, one of which contained a couple of fragments of disarticulated human remains.</p> <p>Furthermore, several features relating to the late medieval period were revealed. The excavations uncovered three ditches relating to field systems of Old Bonnington House estate as well as a group of features that most likely relate to the 1560 siege of Leith, alongside a small assemblage of medieval ceramics.</p>
<b>PROPOSED FUTURE WORK:</b>	To be confirmed
<b>CAPTION(S) FOR ILLUSTRATIONS:</b>	N/A
<b>SPONSOR OR FUNDING</b>	J. Smart & Co. Plc



**West Bowling Green Street, Leith: Archaeological Evaluation & Excavations Data Structure Report**

<b>BODY:</b>	
<b>ADDRESS OF MAIN CONTRIBUTOR:</b>	AOC Archaeology Group Edgefield Road Industrial Estate Loanhead, Midlothian, EH20 9SY
<b>EMAIL ADDRESS:</b>	Kevin.paton@aocarchaeology.com
<b>ARCHIVE LOCATION</b>	Archive to be deposited in NMRS

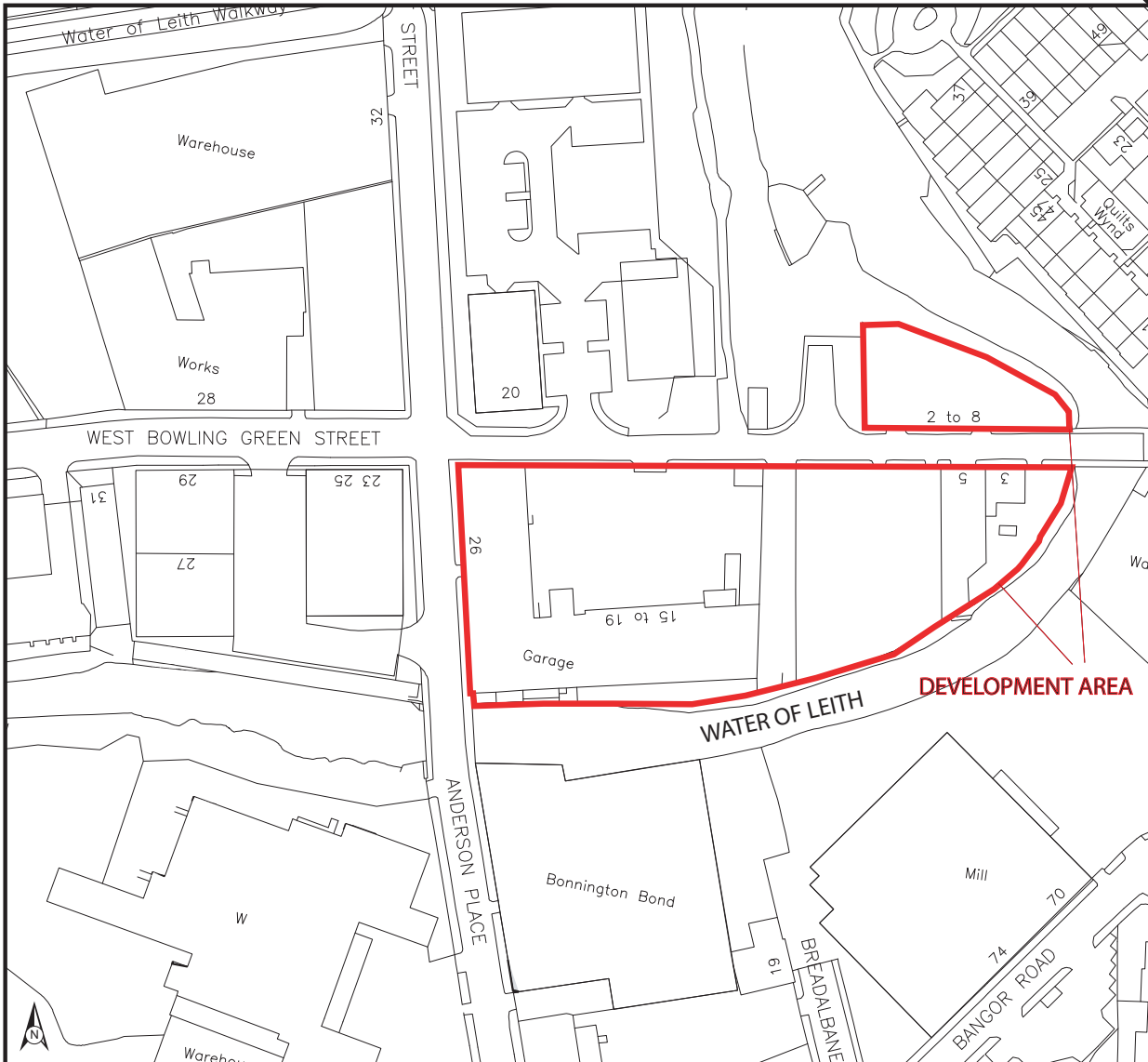
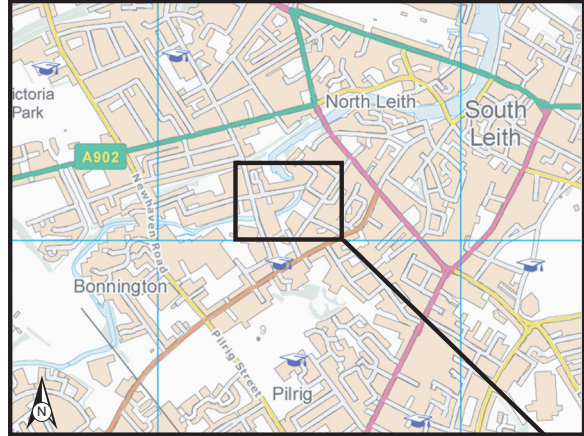
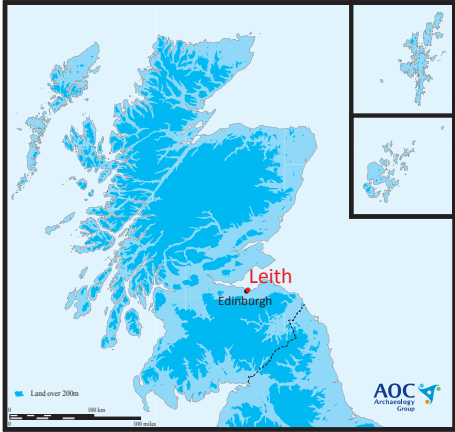
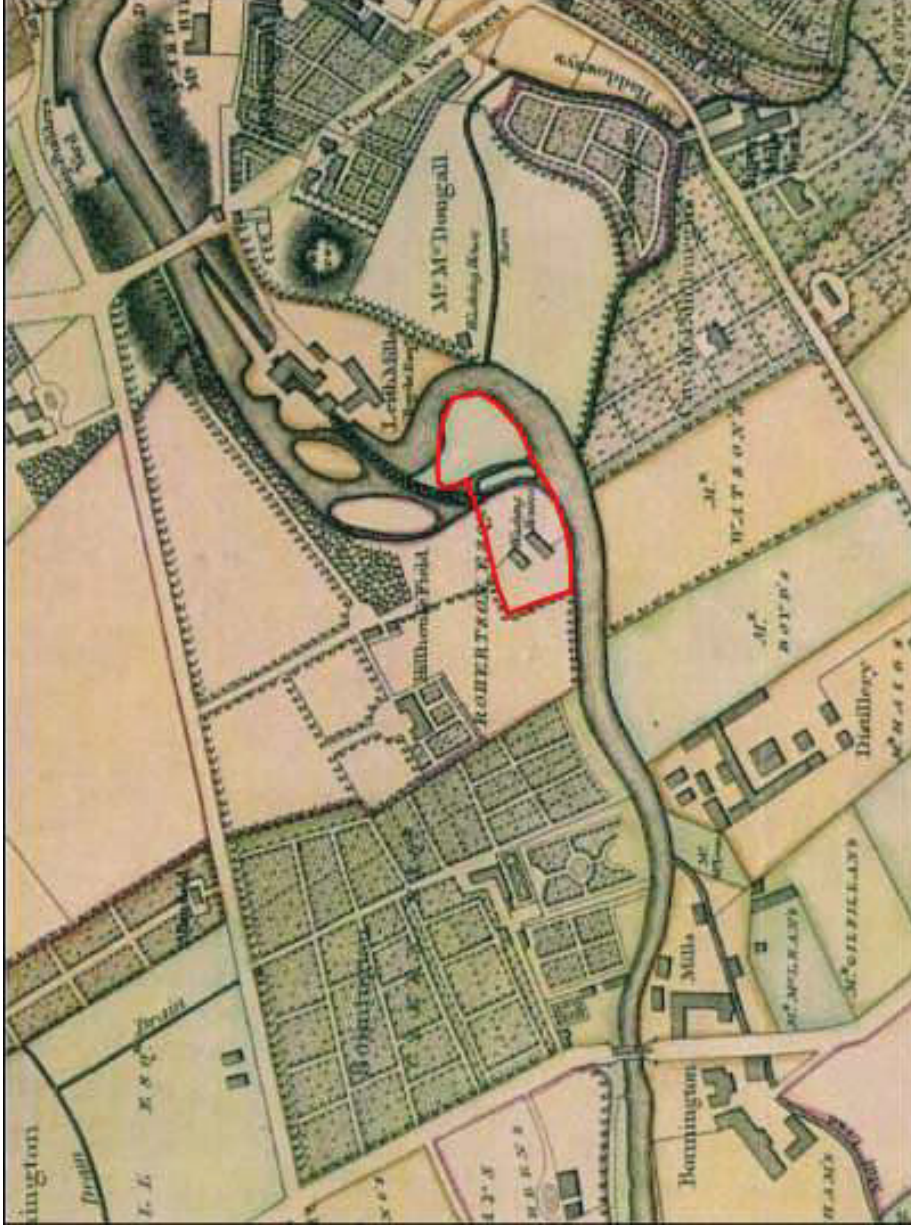


Figure 1: Site location map

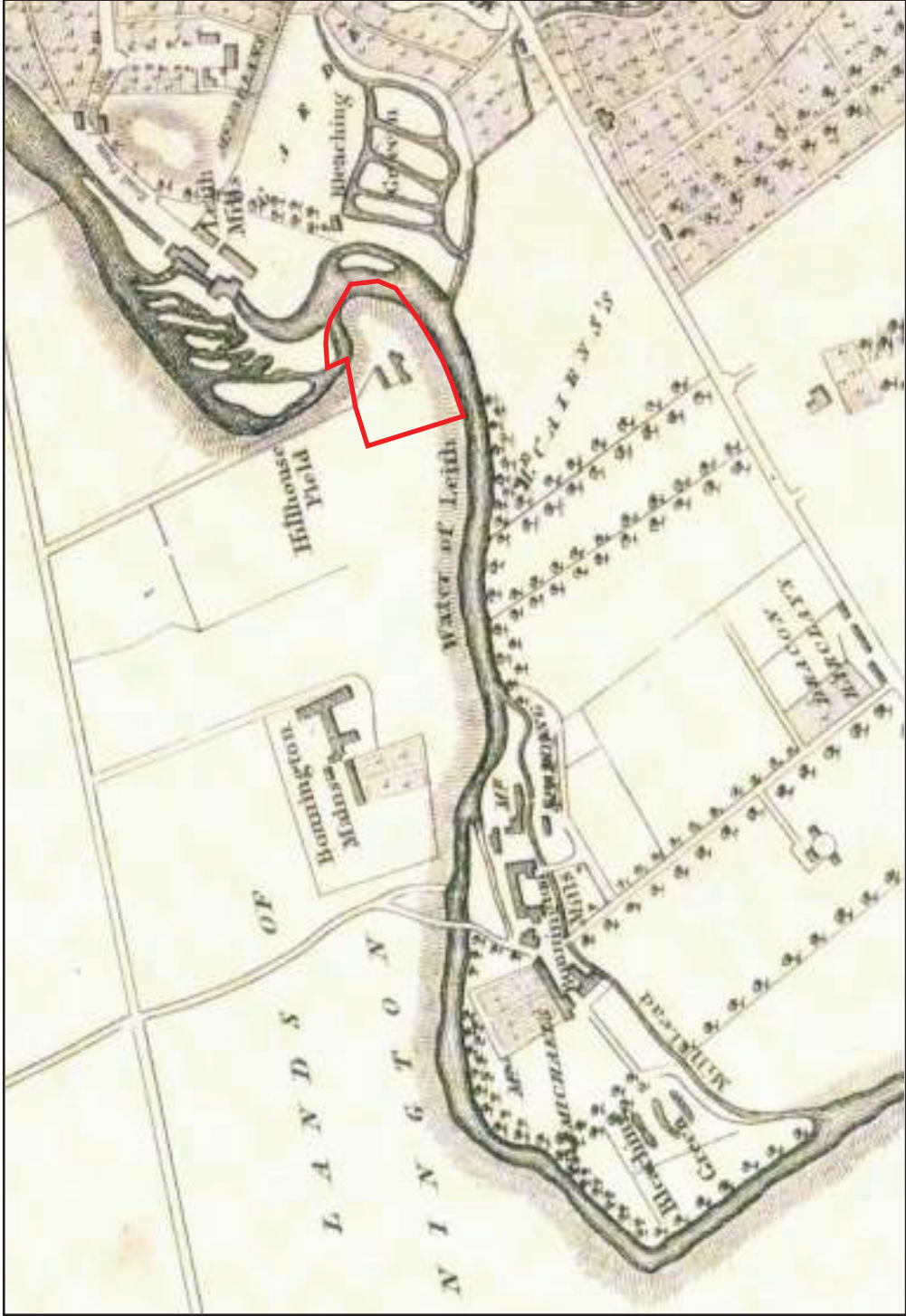


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Figure 2: Extract from Ainslie's Map, 1804

Approximate Site Location



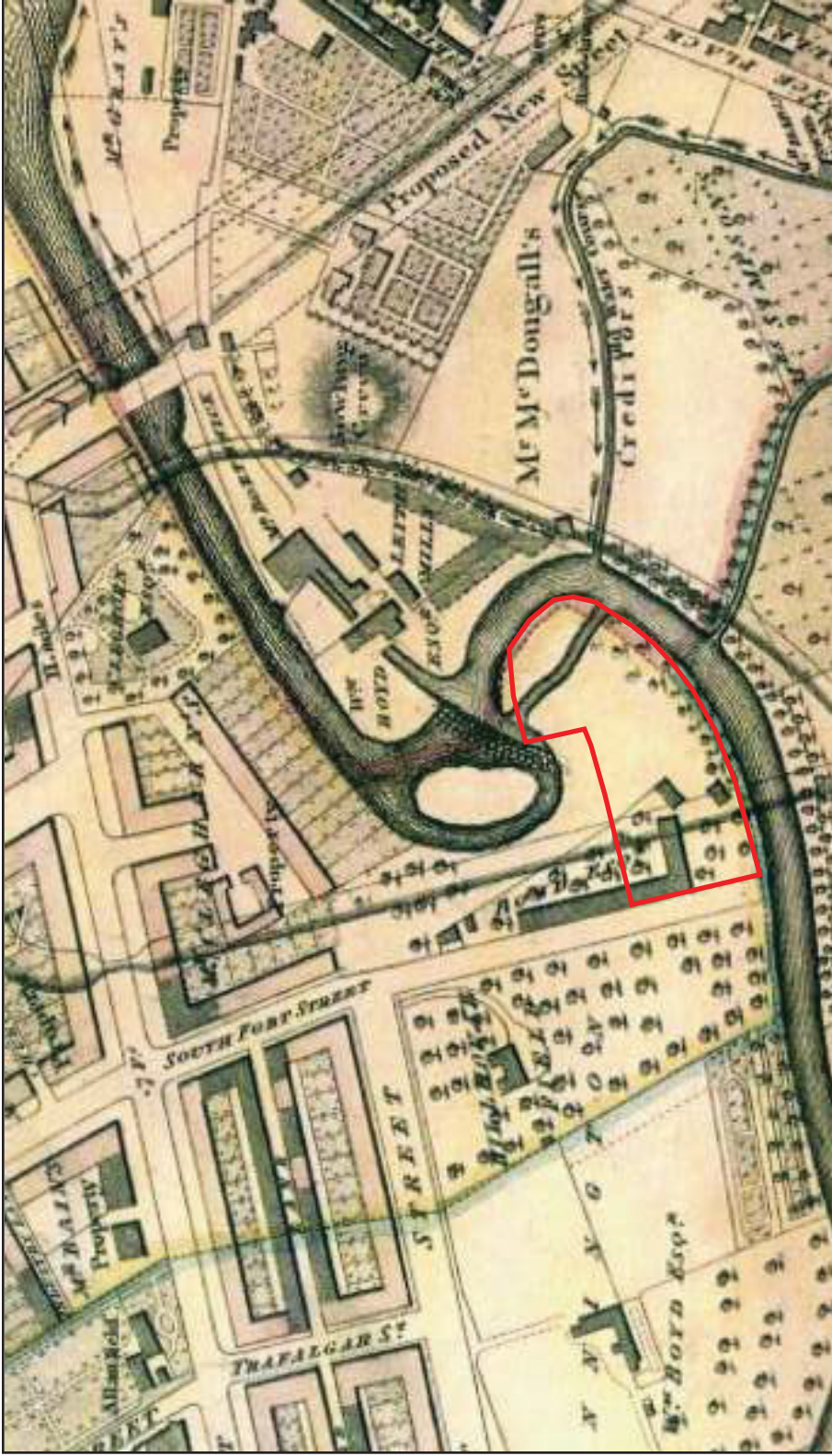
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Figure 3: Extract from Kirkwood's Ancient Plan, 1816



Approximate Site Location





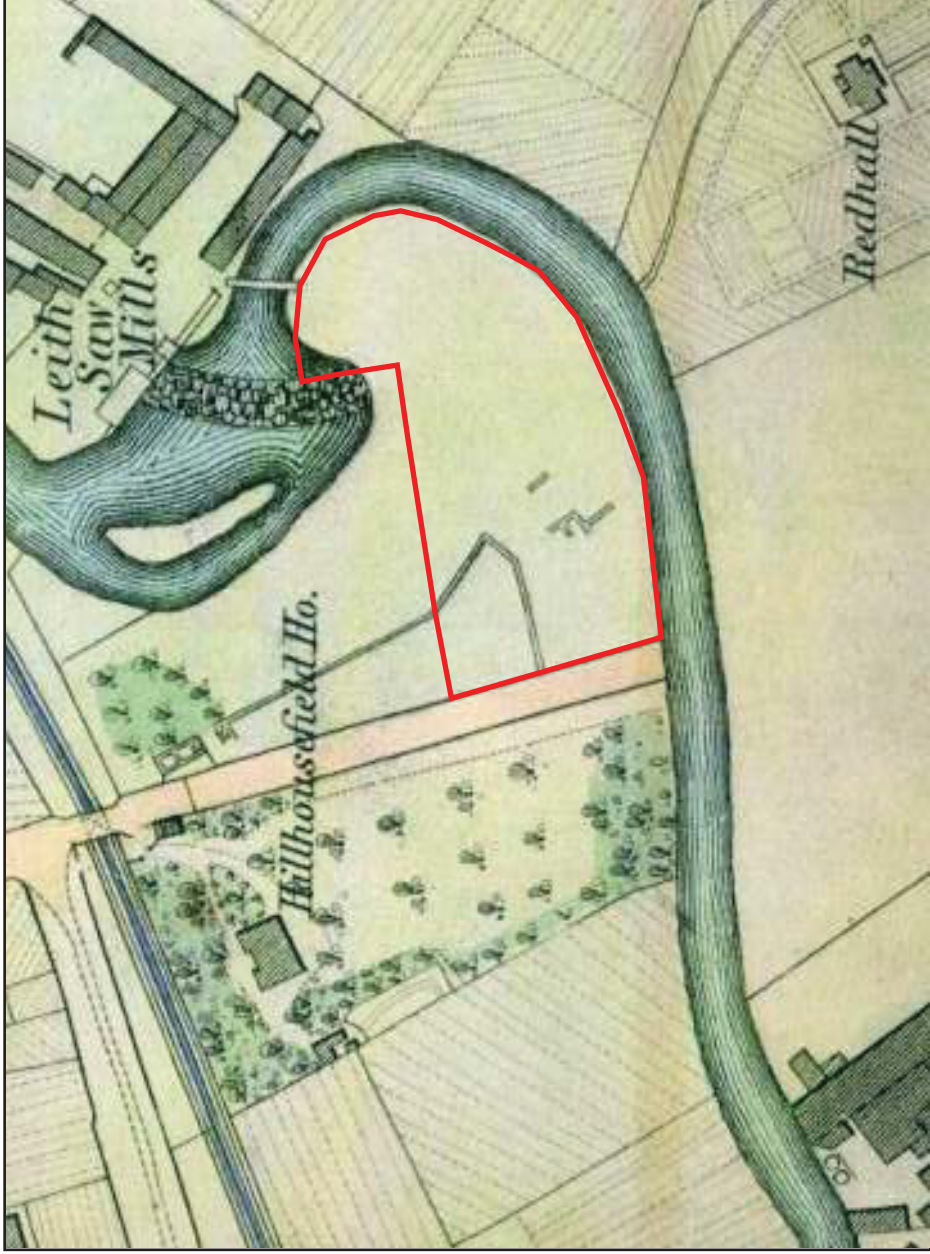
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Approximate Site Location

Figure 4: Extract from Kirkwood's Map, 1817





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Figure 5: Extract from Johnston's Map, 1851



Approximate Site Location

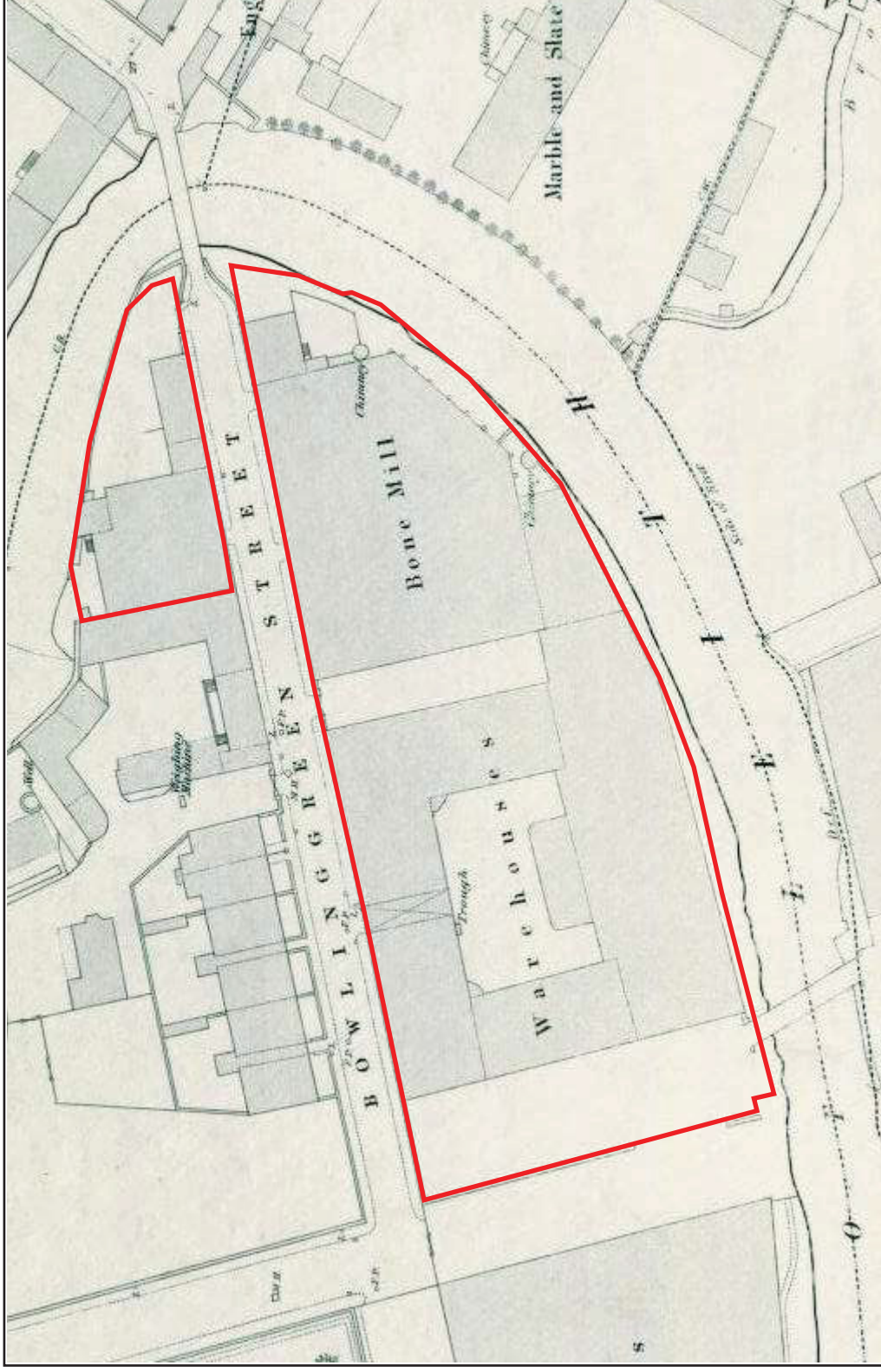


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Figure 6: Extract from Ordnance Survey Map, 1852



Proposed Development Site Location



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Figure 7: Extract from Ordnance Survey Map, 1876

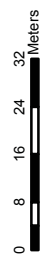


Proposed Development Site Location



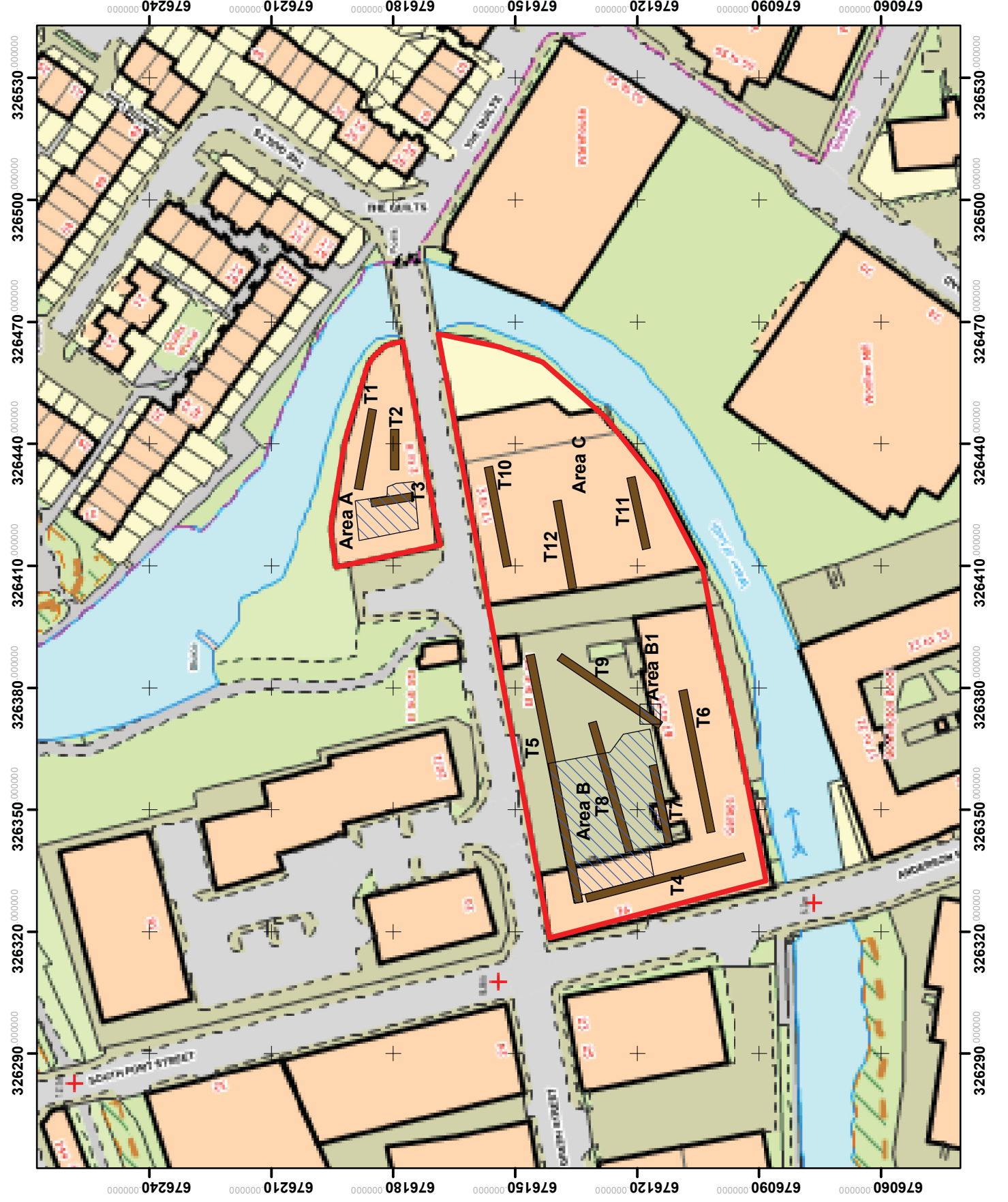
Figure 8: Location of evaluation trenches and excavation areas

- Development Area
- Excavation Areas
- Evaluation Trenches



Cartographic data derived from OS OpenData, Crown Copyright

<b>Project No.:</b>	21982
<b>Date:</b>	03.01.2013
<b>Scale at A4:</b>	1:1,267





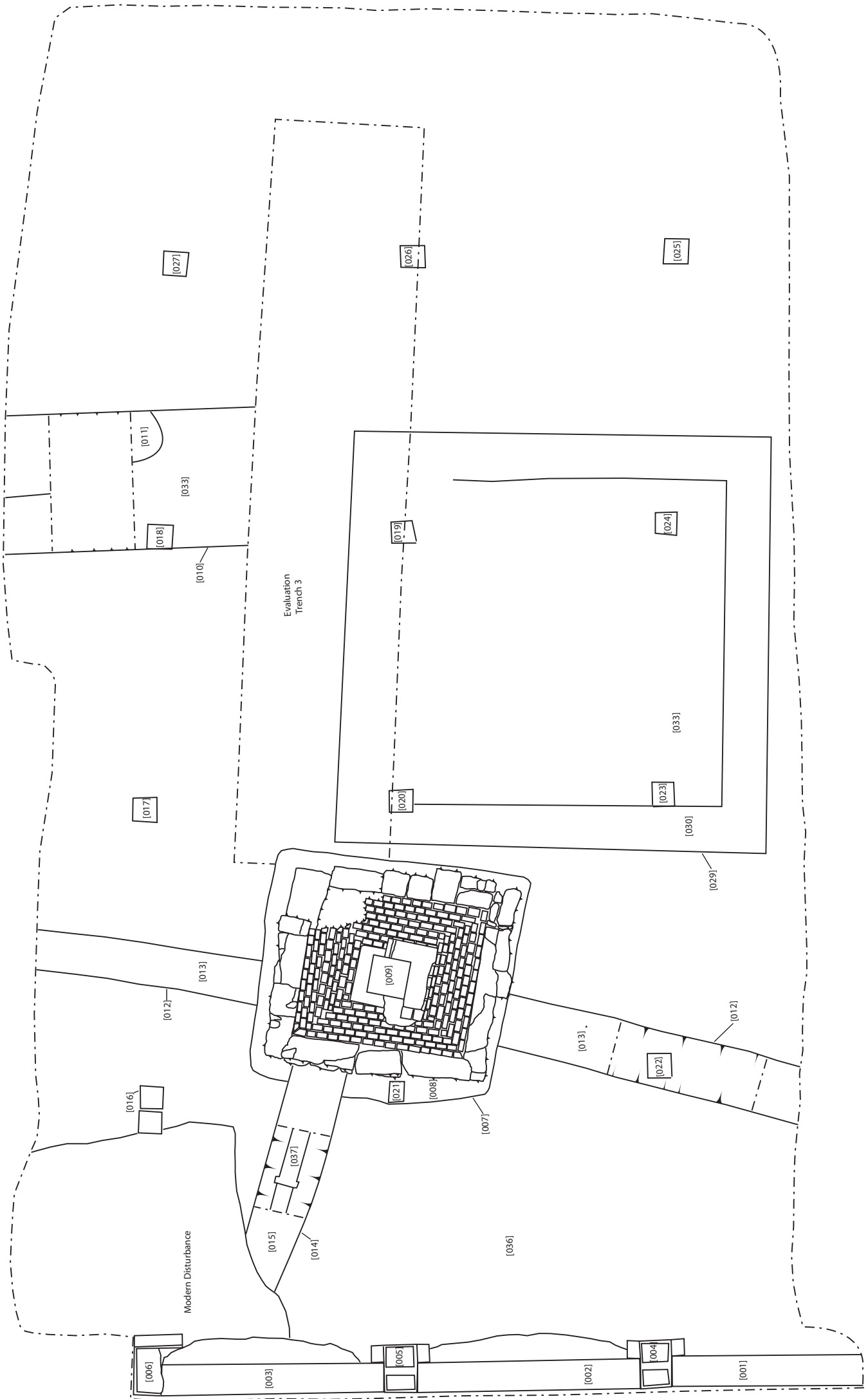


Figure 9: Plan of features in Area A

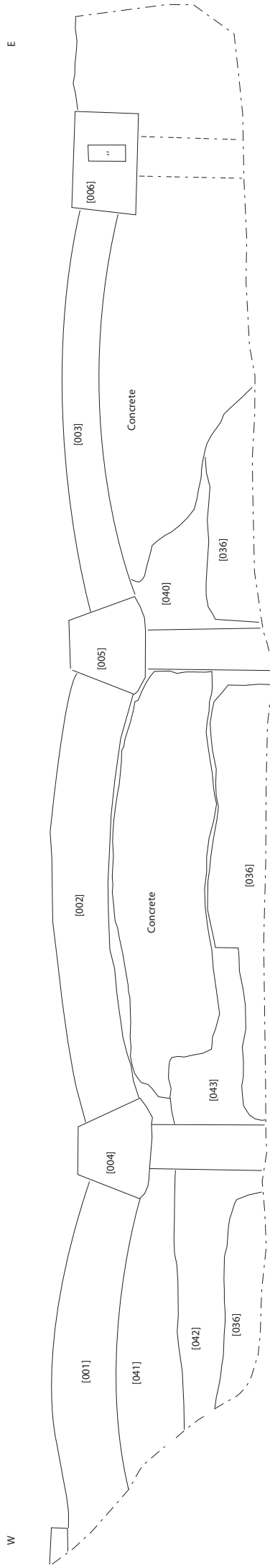


Figure 10: South-facing elevation of brick arches [001]-[003]



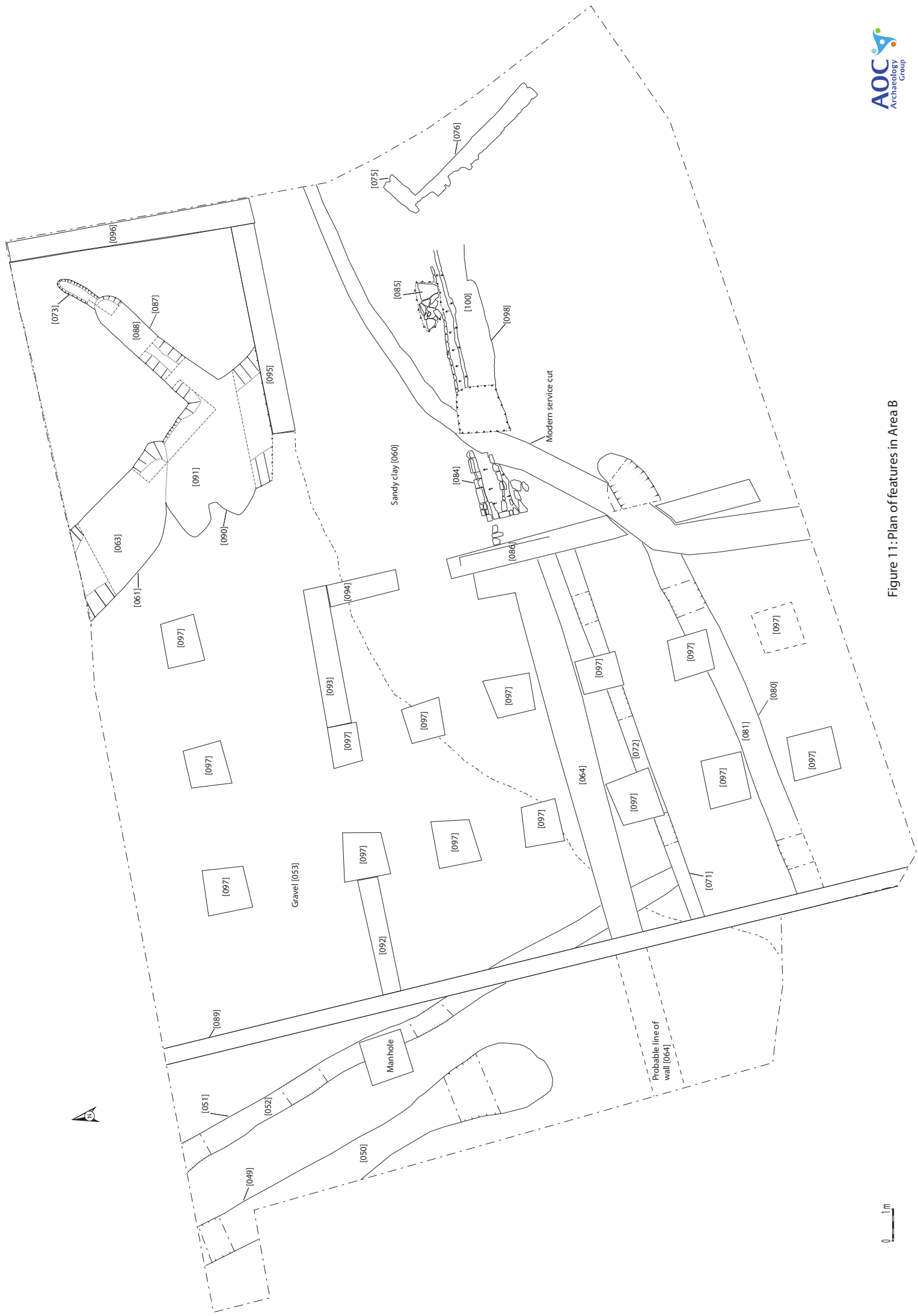


Figure 11: Plan of features in Area B

Limit of Excavation

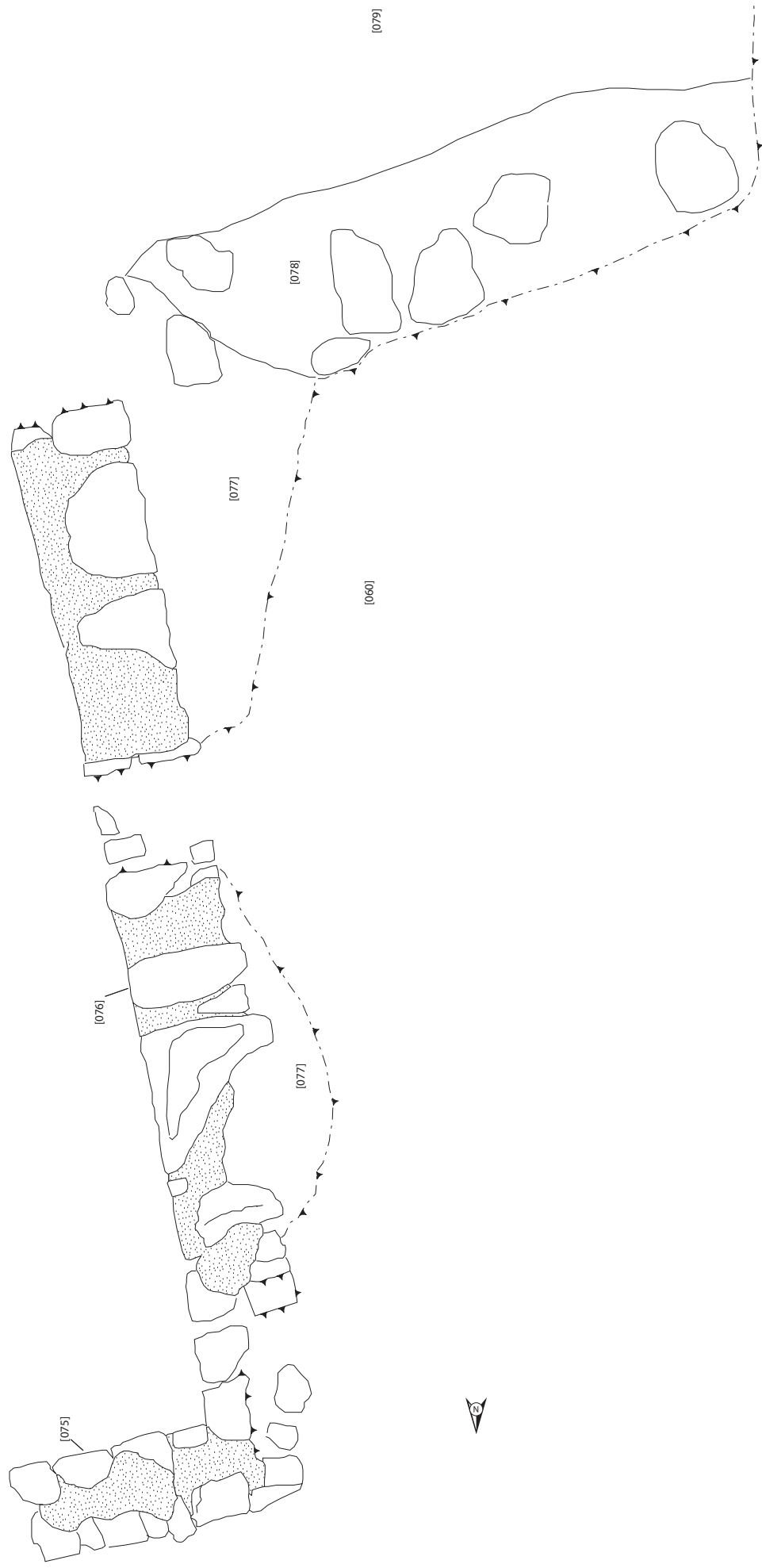
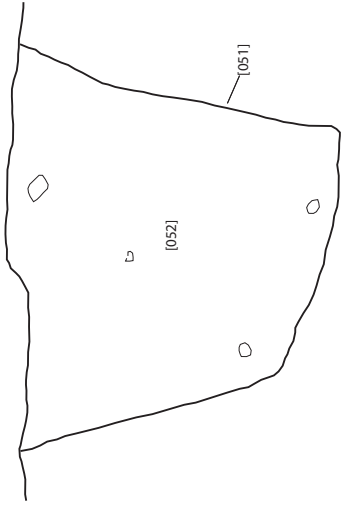


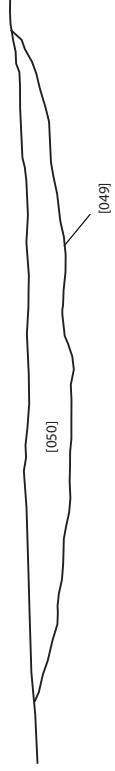
Figure 12: Plan of sandstone walls [075] and [076]



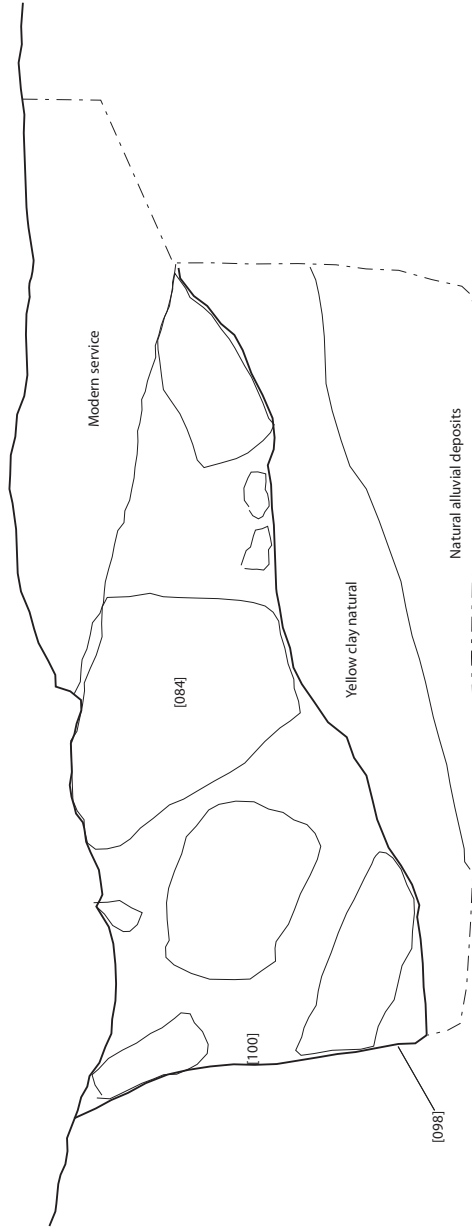
NNW-facing section of ditch [051]



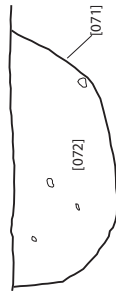
NNW-facing section of ditch [049]



E-facing section of ditch [098]



ENE-facing section of ditch [071]



ENE-facing section of ditch [080]

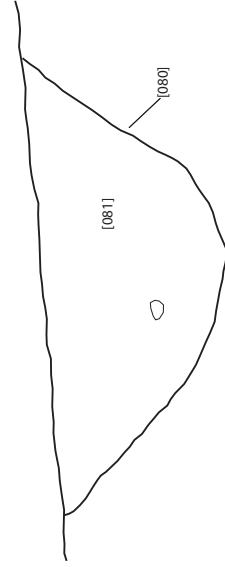


Figure 13: Sections of ditches [080], [071], [051], [049] and [098]

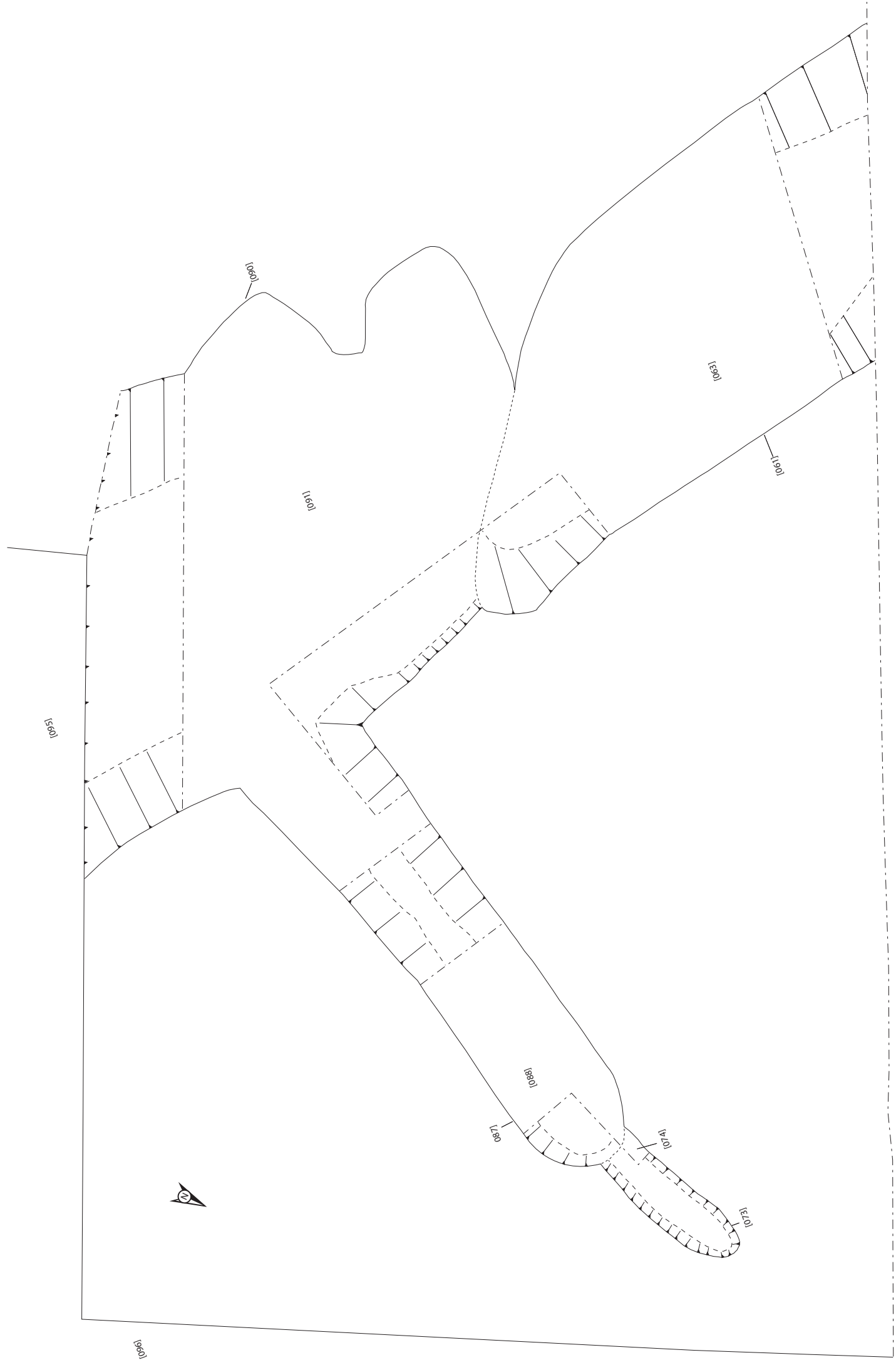
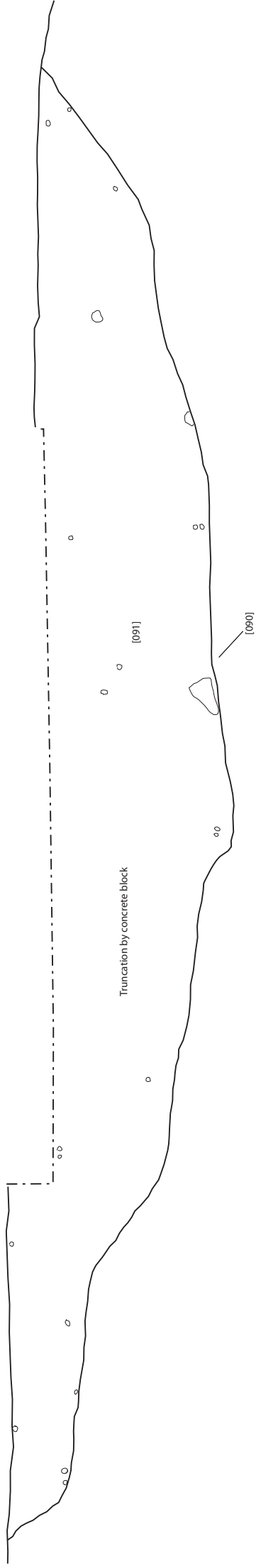
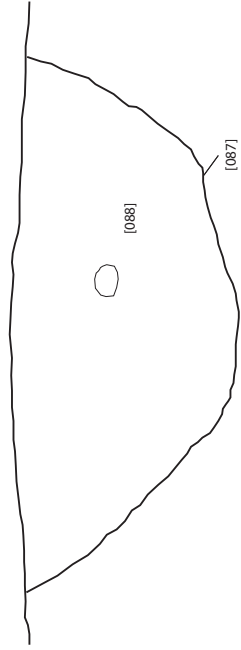


Figure 14: Plan of features in NE corner of Area B

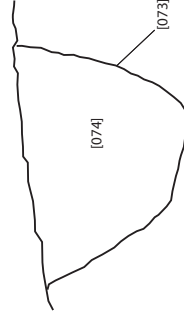
South-facing section of feature [090]



NNE-facing section of ditch [087]



NNE-facing section of ditch [073]



NNW-facing section of feature [061]

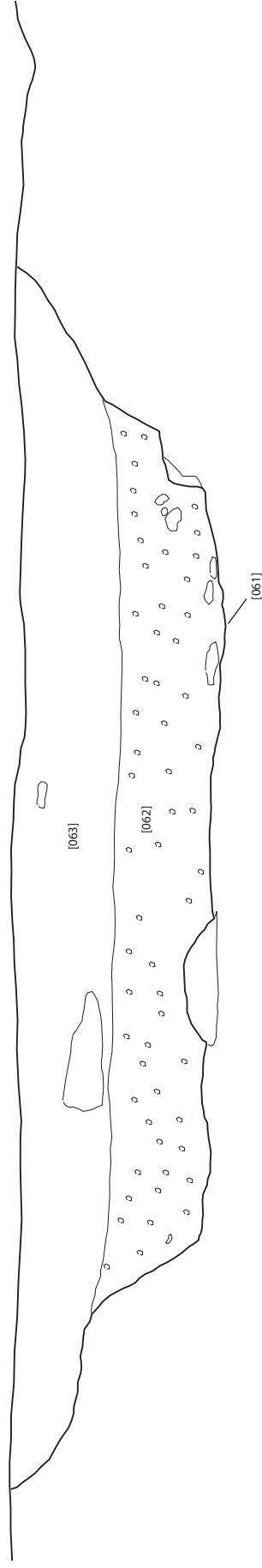
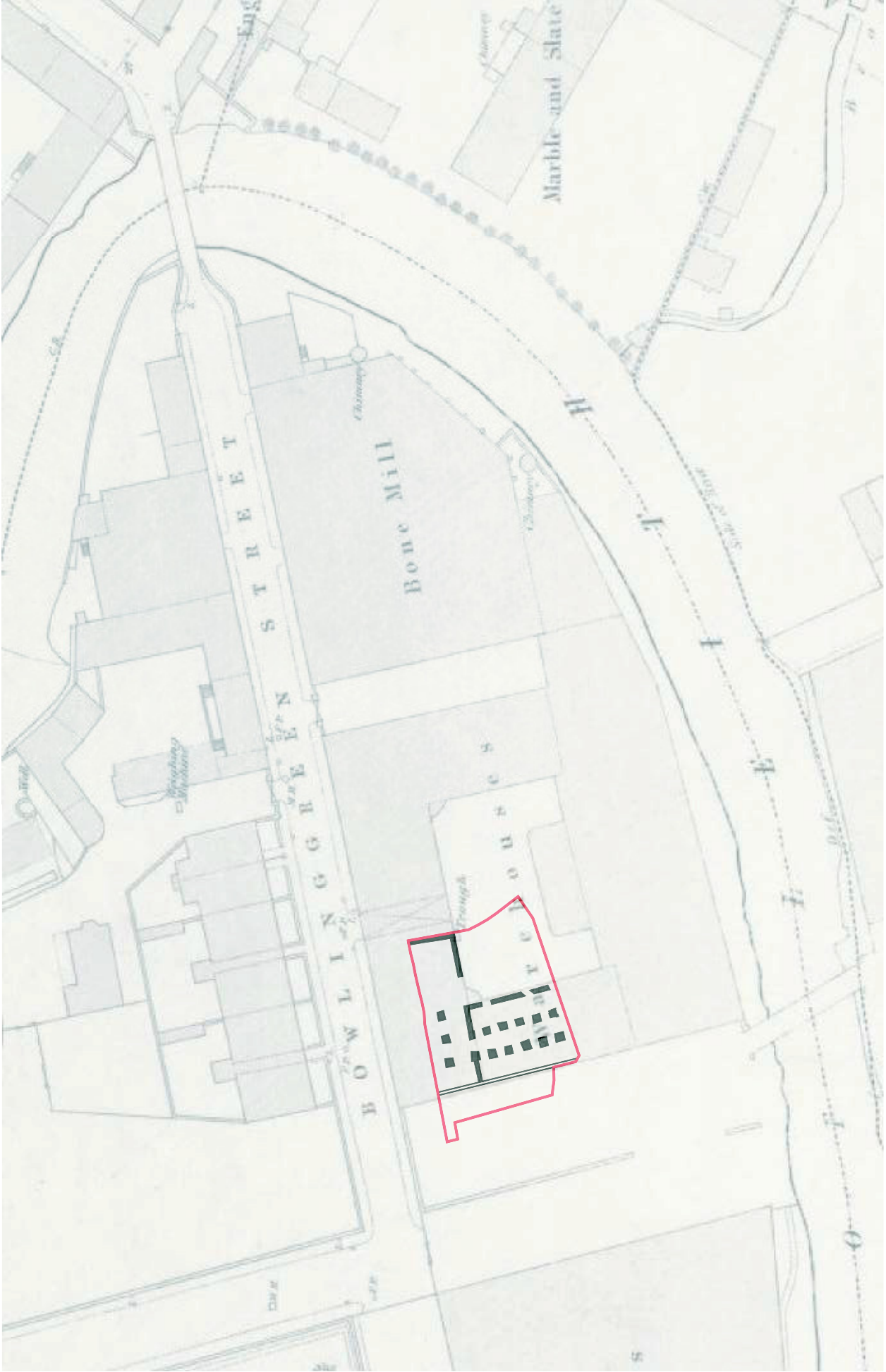


Figure 15: Sections of ditches [090], [087], [073] and [061]



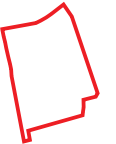
Excavation Area

Figure 16: Extract from the 1876 Ordnance Survey with excavated structures overlain

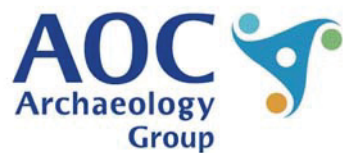
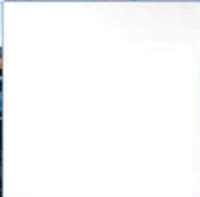
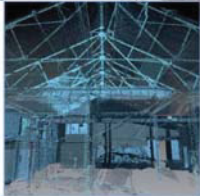
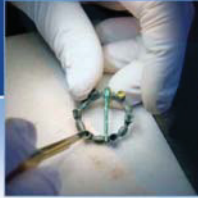


Figure 17: Extract from the 1852 Ordnance Survey with excavated features overlain

Excavation Area







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