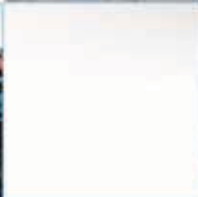
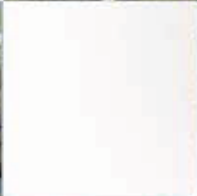


Port Road, Carlisle Watching Brief Report

AOC 20973
August 2008



ARCHAEOLOGY

HERITAGE

CONSERVATION

Port Road, Carlisle

Watching Brief Report

On Behalf of: Gladman Homes LLP
Gladman House
Alexandria Way
Congleton Business Park
Congleton
Cheshire
CW12 1LB

National Grid Reference (NGR): NY 3886 6324

AOC Project No: 20973

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Abstract

This report presents the results of an archaeological Watching Brief undertaken by AOC Archaeology Group on ground subject to redevelopment at Port Road, Carlisle.

The watching brief did not encounter any evidence indicating that the alignment of Hadrian's Wall crossed the site. The alignment of the Port Carlisle Navigation Canal was observed, along with possibly contemporary industrial structures. The canal had been backfilled and the structures truncated prior to the construction of railway sidings on the site in the mid-19th century. The site was overlain by substantial depths of made ground associated with the establishment of the railway sidings.

1. Introduction

1.1 Background

1.1.1. AOC Archaeology Group was commissioned by Gladman Homes PLC to undertake an archaeological watching brief on ground subject to redevelopment (Planning Ref. 07/1120) at Port Road Business Park, Port Road, Carlisle (NGR NY 3886 6324: Figure 1). The archaeological works were designed to satisfy the requirements of the local planning authority, Cumbria County Council who are advised on cultural heritage issues by Cumbria County Council Historic Environment Services (CCCHES) and were conducted according to the terms of a *Project Specification* (AOC 2008) approved by CCCHES on behalf of the Council. The works were in accordance with the principals set out in PPG 16 (Dept of Environment 1990). The watching brief was undertaken on all ground reduction and excavation of foundations and services of the proposed development, which consists of three new office blocks, a pond and associated drainage (Figure 2).

1.2 Location

1.2.1 The site is located on the western side of the City of Carlisle within the area of Willowholm and within the Port Road Business Park, Port Road at the top of a steep bank over looking Mill Race road and north of Carlisle Infirmary. The proposed development area is underlain by Permo-Triassic Mercia mudstone. The drift geology is dominated by fluvioglacial deposits. Soils are loamy typical brown earths of the Wick association (Jarvis et al 1984).

1.2 Archaeological Background

1.2.1 An earlier desk-based assessment identified two potential archaeological features within the proposed development area - the remains of the Caledonian Railway line and the remains of the Carlisle Navigation Canal (AOC 2008). Additionally a number of archaeological remains were identified in the area immediately surrounding the proposed development site (50 m radius). These included the lines of two additional railways, the line of a former leat and the remains of Hadrian's Wall. The close proximity of the proposed development area to the projected course of Hadrian's Wall, coupled with a degree of uncertainty regarding its exact location in this area (Boutwood 2005), raised the possibility of uncovering remains associated with the wall. However previous archaeological investigation in the immediate vicinity of the proposed development site (Rushworth 2007) revealed the ground in the general area to have been disturbed by 19th century industrial activity.

1.3 Historical Background

1.3.1 Carlisle began as a Roman town called Luguvaallium, a key defensive outpost of the Roman Empire. Hadrian's Wall, approximately 100 m north of the proposed development area, was constructed between AD 122 and 128. Troops were withdrawn from Hadrian's Wall in 399 AD and from this point the history of Carlisle becomes indistinct until the 7th and 8th centuries (Towill 1991).

1.3.2 Throughout the medieval period, the development of Carlisle was focused around the castle and thus the proposed development area was located over 1 km west of the town centre within its rural hinterland.

- 1.3.3 The earliest maps available for the site (e.g. Speed 1610) are rather small in scale and are too stylised in nature to provide an accurate impression of the development area. However, they clearly indicate that until the late 18th century, the site was located on open land west of the main settlement of Carlisle. Towill (1991, 68) notes the poverty of the hinterland west of Carlisle during the 17th and 18th centuries noting that agriculture in this area was 'backward' and that it limited the development of Carlisle as a market town. Smith's map of 1746 shows the site located at the base of the steeply sloping Primrose Bank.
- 1.3.4 In the late 18th century, Carlisle's textile industry expanded west of the city to make use of the soft waters of the River Caldew, which were suitable for bleaching. At the end of the 18th century the area of Willowholm, in which the site is located, was dominated by bleach fields (Perriam 1992, 35). Wood's plan of 1821 does not cover the site but indicates that the Duke of Devonshire owned the lands of Willowholm. The millrace extended in 1824 through Willowholm, immediately north of the site, supplied a mill that pumped water into the Port Carlisle/Carlisle Navigation Canal (SMR 6296) built between 1818 and 1823. The course of this canal (identified as Site 3 in AOC 2008) ran across the investigation area.
- 1.3.5 The location of Carlisle on a key north-south route to Scotland and east-west route to Newcastle, led to its growth as an important railway hub. Carlisle's industrial development, including that of railways in the vicinity of the development area, is well attested in a number of local accounts (Topping 1922; Towill 1991). The canal and its successor, the North British Railway (SMR No. 10036), brought American and Baltic timber from Port Carlisle (Ramshaw, 1997, 53) encouraging further industrial development in the vicinity of the site. Following the opening of the London and North-West Railway and the Caledonian Railway, trade on the canal declined. Plans to convert the canal to a railway were drawn up in 1852 and the canal closed in 1853. The North British Railway opened in 1854 and the canal basin became a coal store. Ordnance Survey maps from 1874 reflect the demise of the canal and the burgeoning rail industry and show the proposed development area occupied by railway infrastructure.
- 1.3.6 The railway network in Carlisle was complete by 1875 and a series of goods facilities grew up around it. This is clearly demonstrated on Ordnance Survey maps from 1901 which show the proposed development area occupied almost solely by railway tracks and sidings. Each of the separate railway companies built their own goods stations, locomotive and carriages sheds (Newman 2005) thus contributing to a high density of goods buildings on and in the vicinity of the site.
- 1.3.7 The site continued to be occupied by railway infrastructure throughout the early 20th century. The North British Railway was merged with the London and North-East railway in 1923, it was nationalised in 1948, and closed in 1964 (Taylor 2007, 8).

2. Objectives

2.1 The objectives were:

- i) to monitor ground-breaking works associated with the development and prevent the destruction of significant archaeological features prior to their recording;

- ii) to undertake the immediate recording of isolated finds of moderately significant archaeological material that will be disturbed by the development programme;
- iii) given the discovery of highly significant archaeological material in quantity that will suffer an adverse impact from construction works (i.e. preservation *in situ* is impractical), the recording of all archaeological features by means of a mitigation strategy to be formulated with Mr. Parsons of CCCHEs.

3. Method

3.1 All groundbreaking works were carried out using a 360-type excavator fitted with a toothless ditching bucket under the constant supervision of an experienced and qualified archaeologist. Ground reduction was carried out in shallow spits until the first archaeological horizon, natural geology or formation depth was reached. If archaeological deposits or features were encountered excavation was halted to enable cleaning and recording to be carried out. A full written, drawn and photographic record was taken of all archaeologically sensitive deposits and features.

4. Results

4.1 General overview

4.1.1 The watching brief undertaken intermittently between 7th April and 21st August 2008 in a variety of weather conditions. The data gathered during the watching brief is presented as a series of appendices.

- i) Appendix 1 contains the context summaries;
- ii) Appendix 2 contains the photographic register;
- iii) Appendix 3 contains the drawing register;

4.1.2 The excavation of the footings and drainage of the new development showed relatively recent made ground deposits up to 2.2 m deep over much of the site. Features were located within three distinct areas and these are described below.

4.2 Area 1

4.2.1 This area lay to on the northern side of Port Road and toward the eastern edge of the development area (Figure 2). Prior to arrival by AOC the area of the proposed building and 2 m surrounding it had been reduced by up to 1.2 m. The removed deposits comprised made ground - recorded as contexts (101) to (105).

4.2.2 The northern and central footings of the new building were dug to a depth of 1.0 m (Plate 1) and revealed that a compact dark orange sandy clay (109) containing occasional gravels, thought to be natural drift geology, lay directly below the made ground (105). No features, deposits or finds were observed from this part of *Area 1*.

4.2.3 The southern footings were dug to a depth of up to 1.7 m below the reduced ground surface until natural (109) was reached. The narrowness, depth and instability of the footings made access to the trenches very restricted. Madeground (105) sealed an approximately east-west aligned cut feature (108) which was filled with compact dark grey silty clay (107) containing 19th/20th century pottery fragments and a deep layer of loose mottled orange and black sandy clay (106) containing tip lines from the south and west of black clay silt. The feature was at least 1 m deep and extended beyond the eastern, western and southern limits of Area 1 – indicating a minimum length of 25 m and a minimum width of 5 m. The eastern section of the cut (Figure 5; Plate 2) showed the northern edge of the feature to have a rounded shoulder becoming almost vertical with depth, other observations showed the ditch to have a more concaved edge with a flat base. This feature is interpreted as the remains of the Port Carlisle Navigation.



Plate 1: Section showing deposits within central footings of Area 1

4.2 Area 2

4.3.1 Area 2 lay on the south side of Port Road. The modern surface of this area was consisted of compacted grey gravel / large pebbles (201). Below this deposit restricted to the northern half of the area was a compact black deposit of coal fragments and dust, cinders and small gravels (202) up to 0.36 m in depth. Deposit (202) was seen elsewhere during the watching brief (see Appendix 1) and is probably derived from the railway use of the site.

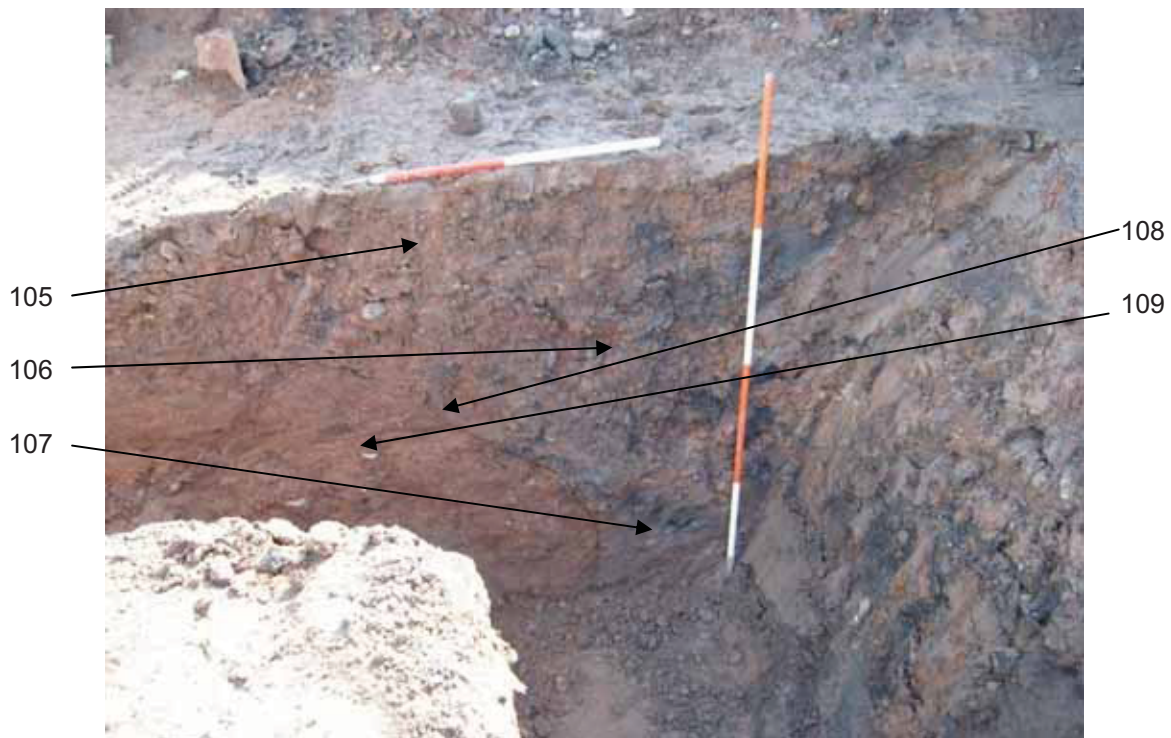


Plate 2: West-facing section of canal (108)

- 4.3.3 Sealed below (202) and built into the natural underlying natural sandy clay (209) was a possible brick-built culvert aligned east to west (Figures 4 & 5; Plate 3), comprising building elements (203), (204) and (205). No clear bonding pattern could be discerned in the construction of the walls (203) and (205), which stood to a truncated height of 0.7 m from base to top and had a width of 0.6 m. These walls were separated by a slightly concave brick floor (204) which butted up to the walls. Brick floor (204) was built from edge-laid bricks aligned in a stretcher fashion along an east to west axis, one course thick and 0.8 m wide. Directly over the brick floor was a very compact deposit or concretion, analogous to iron-panning, 20 mm thick which had adhered to the bricks and was sealed by a moderately compact reddish brown black sandy silt (210), 0.5 m thick containing many brick fragments. Deposit (211) is likely to be associated with the function of the brick-built structure while (210) was probably derived from demolition activity following disuse of the structure. The western limits of the structure were within the footings but the eastern limit was not observed. The full extent of the feature is estimated at between 8 m and 11 m.
- 4.3.4 Aligned parallel to and south of the culvert were the foundations of a brick-built structure (208) (Plate 4). The remains exposed formed the outline of a rectangular building measuring 6.5 m east to west by 4.0 m north to south. These foundations were 0.16 m deep and between 0.80 m and 0.90 m wide.



Plate 3: Brick built structure, Group 1



Plate 4: Showing remains of building (208) in section

4.3.5 The two structures observed in Area 2 are thought to be of 19th century date and to predate at least the later phases of railway activity on the site as they were sealed by ash and coal deposits thought to be derived from that activity. It is possible that the structures were contemporary with the canal to the north. Both the building and the culvert were substantially truncated and it was therefore not possible to determine their function although the presence of an – iron-pan concretion in the base of the culvert suggests an industrial use. The width of the foundations observed also suggests that both features supported substantial superstructures.

4.4 Pond

4.4.1 Toward the west end of the site the excavation of a pond (Figure 5: Plate 5) and associated drainage found further remains that may be associated with the canal. The pond was dug to a depth of 3.5 m at the base of the excavation lay a compact fine light brown clay (334) 0.2 m in depth believed to be the clay lining of the canal. Above (334) lay a layer of black organic silt (333) 0.17 m thick containing frequent shells of fresh water mussels and oysters together with fragments of 19th century ceramics. Deposit (333) is thought to represent the remnants of silting within the canal. Sealing (332) was a deposit of orange/brown sandy clay gravel (332) containing tip lines of black ashy silt up to 2.2 m in depth in which fragments of 19th century pottery were noted, but not recovered. This deposit probably represents the backfilling of the canal prior to the construction of the railway. Above the backfill lay 0.75 m of modern made ground (330) which overlay a compact black silty deposit containing ash, cinders, and coal fragments (331) similar to (202).



Plate 5: Completed pond



Plate 6: Close up of base of pond

4.5 Area 3, Attenuation Tank and Drains 1-4

4.5.1 The excavation of the *Attenuation tank* (Figure 2; Plate 7) reached a depth of 3 m below the present ground surface. Excavation found deposits of recent madeground sloping down toward the north; possibly created to extend the bank to accommodate the expanse of the railway sidings. Further similar deposits were encountered during the excavation of the associated drains which were dug to a depth of 1 m to 2 m. Natural sandy clay was only observed in *Drain 4* located toward the south edge of the site at a depth of 1.5 m.



Plate 7: Attenuation tank, showing sloping nature of made ground deposits

5. Conclusion

- 5.1 All deposits and features observed in the watching brief were associated with the 19th century industrial use of the site. The alignment of the Port Carlisle Navigation was identified running roughly east-west across the centre of the site. A brick-built culvert and building were identified to the south of the canal and may have been contemporary with its use. The truncated nature of the buildings and the absence of buried ground surfaces suggests that a degree of levelling took place prior to the construction of the railway sidings on the site. Construction of the sidings resulted in the deposition of a variable depth of madeground over the entire site.
- 5.2 No evidence of the alignment of Hadrian's Wall was recovered. However in light of the probable truncation of deposits on the site this does not constitute definitive evidence that the Wall alignment did not cross the site.

6. References

6.1 Bibliographic references

AOC, 2008 *Port Road Business Park, Carlisle, Project Specification*, Unpublished Client Report, AOC Archaeology group

Boutwood, Y 2005 *National Mapping Program Hadrian's Wall NMP Project Bowness on Solway to Carlisle*, Cumbria, English Heritage, York.

Cumbria Railways Association, 1986 *Carlisle: 150 Years of Railway*: Penrith.

Dept of Environment 1990 *Planning Policy Guidance Note 16 (Archaeology and Planning)*.

Jarvis, R.A, Bendelow, V.C, Bradley, R.I, Caroll, D.M. Furness, R.R, Kilgour, I.N.L and King, S.J *et al* 1984, 'Soils And Their Use In Northern England' Soil Surveys of England and Wales, Bulletin No.10, Harpenden.

Marshall, Davies-Shiel 1969 *Industrial Archaeology of the Lake Counties*, Carlisle, 185

Newman, C 2005 *Carlisle: a review of its industrial archaeology* Egerton lea Consultancy Ltd

Perriam, D.R 1992 *Carlisle: An illustrated History* Bookcase, Cumbria County Council and Tullie House Museum, Carlisle.

Ramshaw, D 1997 *The Carlisle Navigation Canal 1821-1853*, Carlisle

Taylor, K 2007 *The Old Station, Silloth, Cumbria: archaeological building investigation* Unpublished report.

Topping, G 1922 *Memories of Old Carlisle*, Carlisle.

Towill, S 1991 *A History of Carlisle*, Carlisle

6.2 Cartographic References

1610 Speed, J in *The Theatre of the Empire of Great Britaine*

1700 Meisner, D in *Libellus novus politicus emblematicus civitatum*

1746 Smith G A *Map of the Countries Adjacent to Carlisle shewing the Route of the Rebels with their principal Fords over ye R.r Eden* in the *Gentleman's Magazine*

1794 Hutchinson, W *Map of Carlisle*

1801 Cole, G & Roper, G *Carlisle Town Plan* in *The British Atlas*

1821 Wood, J *Plan of the City of Carlisle*

1847 Ordnance Survey *Cumberland Sheet XX111.3*

1901 Ordnance Survey *Cumberland* Sheet XX111.3

1905 Marks, H.C *City of Carlisle*



**Port Road, Carlisle:
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Section 2: Appendices

Appendix 1

Context Summary

No	Area	Description	Stratigraphic relationships		Dimensions (m) Exposed			
			Below	Above	L	W	H	D
101	Building 1	Turf and Topsoil Moderately compact dark grey silt with frequent inclusion of small gravels Removed prior to arrival of AOC's arrival		(102)				0.3
102	Building 1	Modern made ground Moderately compact light brown sandy gravel Removed prior to AOC's arrival	(101)	(103)				0.3
103	Building 1	Modern made ground Moderately compact dark grey clay silt containing occasional frogged brick fragments Removed prior to AOC's arrival	(102)	(104)				0.3
104	Building 1	Modern made ground Moderately compact dark grey/black clay silt containing occasional brick fragments and a modern webbing strap Removed prior to AOC's arrival	(103)	(105)				0.35
105	Building 1	Modern made ground Compact orange/brown sandy clay containing lenses of black silty clay Partially removed prior to AOC's arrival Covers whole of Area 1	(104)	(106)				0.45
106	Building 1	Undated back fill of ditch (08) Loose mottled orange and black sandy clay with frequent inclusions of small gravels	(105)	(107)	24.0	6.0		1.7
107	Building 1	Silting up of ditch (08) Compact dark grey silty clay 19 th /20 th century pot recovered (find 1)	(106)	(108)	24.0	6.0		0.2
108	Building 1	Cut of ditch possible associated with Port Carlisle Canal/Carlisle navigation Canal (SMR No. 6296) Aligned approximately east to west West facing section shows an almost vertical cut while the east facing section is more concaved and shows a wide flat base Cuts (09) and filled by (06) and (07)	(107)	(109)	24.0	6.0		1.1
109	Building 1	Either natural geology or embankment material	(108)	LOE				

		Only partially excavated Compact dark orange clay sand containing occasional gravels						
201	Building 2	Modern made ground Compact grey silt containing frequent small angular stones and occasional building rubble		(202)				0.3
202	Building 2	Compact black ashy silt containing frequent small stones, ash and cinders Confined to northern half of building footings	(201)	(210)				0.2
203	Building 2	Truncated Wall Part of Group 1 Aligned east-west Constructed from red hand made, unfrogged, mortared bricks Brick size 238 mm x 120 mm x 70 mm No real bonding pattern seen 7 courses remain within and natural sandy clay (209) Butts (204) to south 19 th Century	(211)	(209)	8-11	0.6	0.7	
204	Building 2	Concave surface Part of group 1 Constructed from red, hand made, unfrogged, mortared bricks Brick size 235 mm x 110 mm x 70 mm Bricks laid edge on in stretcher fashion along east to west axis Butts up to (203) and (205) 19 th Century	(211)	(209)	8-11	0.8	0.11	
205	Building 2	Truncated Wall Part of Group 1 Aligned east -west Constructed from red hand made, mortared bricks Brick size 238 mm x 120 mm x 70 mm No real bonding pattern seen 7 courses remain within and natural sandy clay (209) Butts (204) to north 19 th Century	(202)	(209)	8-11	0.6	0.7	
208	Building 2	Building foundation Constructed from red, hand made, unfrogged, mortared bricks Brick size 235-240 mm x 110 mm x 70 mm 2 courses survive within natural sandy clay Relationship with Group 1 not clear 19 th Century	(202)	(209)	6.5	4.0	0.16	

209	Building 2	Natural Sandy Clay Cut by (203), (205) and (208)	(203) (205) (208)					
210	Building 2	Demolition Rubble Moderately compact reddish brown sandy silt Frequent inclusions of brick rubble and ash Confined between (203) and (204)	(202)	(211)				0.58
211	Building 2	Very compact iron rich silt Adheres to (204) Associated with use of group 1 structure	(210)	(204)				0.01
330	Pond	Modern Made ground Compact mid grey silt over compact orange sandy clay. Occasional fragments of brick and frequent small and medium sized stones		(331)				0.75
331	Pond	Railway deposit Compact black silt. Containing very frequent inclusions of ash and cinders Same as (202)	(330)	(332)				0.25
332	Pond	Made ground Soft orange/brown sandy clay Contains tip lines of black ashy silt and 19 th /20 th century pot (not retained)	(331)	(333)				2.2
333	Pond	Canal Silt Moderately compact black organic silt Occasional fresh water mussel and oyster shells plus 19 th century pottery fragments (not retained)	(332)	(334)				0.17
334	Pond	Canal Lining Compact brown/grey clay Very fine with no inclusions or finds	(333)	((336)				0.2
336	Pond	Compact Orange sandy clay	(334)					

Appendix 2

Photo Register

Colour Film No. 1

No.	Area	Context/s	Description	From
1	Building 1		Registration	
2	Building 1		Area 1 on arrival	NE
3	Building 1		East facing section of ground removed prior to AOC's arrival	W
4	Building 1		East facing section of ground removed prior to AOC's arrival	W
5	Building 1	06	South footing at 0.9 m depth	E
6	Building 1	06/07	South footing at 1.5 m depth	N
7	Building 1		General shot of south footings	E
8	Building 1		General shot of south footings	N
9	Building 1	08	West facing section of ditch	W
10	Building 1	08	West facing section of ditch	W
11	Building 1	05/09	South facing section of central footings	S
12	Building 1	05/09	South facing section of central footings	S
13	Building 1		General working shot	E
14	Building 1		General working shot	E
15	Building 1	08	East facing section of ditch	E
16	Building 1	08	East facing section of ditch	E
17	Building 1	09	South facing section of northern footing	S
18	Building 1	09	South facing section of northern footing	S
19	Building 1	02-05 09	South facing section of northern footing also showing section of removed soils prior to AOC's arrival	S
20	Building 1	02-05 09	South facing section of northern footing also showing section of removed soils prior to AOC's arrival	S
21	Building 1		General shot of Area 1 following completion	NE
22	Building 1		General shot of Area 1 following completion	NE

Colour Film No. 2

No.	Area	Context/s	Description	From
1	Building 2		Registration	
2	Building 2		Pre ex	W
3	Building 2		Pre ex	N
4	Building 2		Northern east-west footing	N
5	Building 2		Northern east-west footing	N
6	Building 2		Northern east-west footing	E
7	Building 2		Northern east-west footing	E
8	Building 2	Group 1	General shot of structure in F4	W
9	Building 2	Group 1	General shot of structure in F4	W
10	Building 2	Group 1	General shot of structure in F4	S
11	Building 2	Group 1	General shot of structure in F4	S
12	Building 2	Group 1	General shot of structure in F4	N
13	Building 2	Group 1	General shot of structure in F4	N
14	Building 2	Group 1	General shot of structure in F3	N

15	Building 2	Group 1	General shot of structure in F3	S
16	Building 2	Group 1	Section	NE
17	Building 2	Group 1	Section	NE
18	Building 2	Group 1	Section	E
19	Building 2	Group 1	Section	E
20	Building 2	Group 1	Section	S
21	Building 2	Group 1	Section	SE
22	Building 2		Relationship between (208), (202) and (209)	E
23	Building 2	(208)	West facing section showing returns	W
24	Building 2	Group 1	Western extent of (203) in F6	W
25	Building 2	Group 1	Western extent of (203) in F6	W
26	Building 2	Group 1	Western extent of (203) in F6	W
27	Building 2	Group 1	Western extent of (203) in F6	W

Colour Film No. 3

No.	Area	Context/s	Description	From
1			Registration	
2	Building 3		Pre ex	W
3	Building 3		Pre ex	W
4	Building 3		General	W
5	Building 3		General	W
6	Building 3		General	W
7	Building 3		General	W
8	Building 3		General	S
9	Building 3		General	S

Colour Film No. 4

No.	Area	Context/s	Description	From
1			Registration	
2	Drain 1		South end of trench	S
3	Drain 1		South end of trench	S
4	Drain 1		East facing section of trench	E
5	Drain 1		East facing section of trench	E
6	Drain 1		East facing section of trench	E
7	Drain 1		East facing section of trench	E
8	Drain 1		General view	N
9	Drain 1		General view	N
10	Drain 1		West facing section of pipe trench	W
11	Drain 1		West facing section of pipe trench	W

Colour Film No. 5

No.	Area	Context/s	Description	From
1			Registration	
2	Drain 1		North facing section of trench	N
3	Drain 1		North facing section of trench	N
4	Drain 1		North facing section of trench	N
5	Drain 1		North facing section of trench	N
6	Drain 1		South facing section of trench	S

7	Drain 1		South facing section of trench	S
8	Drain 1		South facing section of trench	S
9	Drain 1		South facing section of trench	S
10	Drain 1		General shot	E
11	Drain 1		General shot	E

Colour Film No. 6

No.	Area	Context/s	Description	From
1			Registration	
2			North end of pipe trench	E
3			North end of pipe trench	E
4			General pipe trench	N
5			General pipe trench	N
6			General pipe trench	N
7			General pipe trench	N

Colour Film No. 7

No.	Area	Context/s	Description	From
1			Registration	
2	Attenuation tank		Pre excavation	SSE
3	Attenuation tank		SE facing section	NW
4	Attenuation tank		SE facing section	NW
5	Drain 2		SE facing section	NW
6	Drain 2		SE facing section	NW
7	Drain 2		General post excavation	SW
8	Drain 2		General post excavation	SW
9	Attenuation tank		Working shot	SW
10	Attenuation tank		Working shot	SW
11	Attenuation tank		North end	W
12	Attenuation tank		General section showing made ground	SW
13	Drain 3		Pre excavation	SW
14	Drain 3		E facing section	W
15	Drain 3		E facing section	W
16	Drain 3		General post excavation	S
17	Attenuation tank		NE facing section during excavation	SW
18	Attenuation tank		NE facing section during excavation	SW
19	Attenuation tank		NE facing section post excavation	SW
20	Attenuation tank		NE facing section post excavation	SW

21	Attenuation tank		General post excavation	SSE
22	Attenuation tank		General post excavation	SSE
23	Attenuation tank		NW facing section	SE
24	Attenuation tank		NW facing section	SE
25	Attenuation tank		SW facing section	NE
26	Attenuation tank		SW facing section	NE
27	Attenuation tank		SE facing section	NW
28	Attenuation tank		SE facing section	NW

Colour Film No. 8

No.	Area	Context/s	Description	From
1			Registration	
2			Working shot	SE
3			Working shot	SE
4			Working shot	SE
5			Working shot	SE
6			East facing section of base of pond showing canal base	W
7			East facing section of base of pond showing canal base	W
8			South edge of canal	W
9			South edge of canal	W
10			General post excavation	NW
11			General post excavation	NW
12			General post excavation	SE
13			General post excavation	SE

Colour Film No. 9

No.	Area	Context/s	Description	From
1			Registration	
2	Drain 4		North section west end	NW
3	Drain 4		North section west end	NW
4	Drain 4		Working shot	W
5	Drain 4		Working shot	W
6	Drain 4		North facing section 20m from west	N
7	Drain 4		North facing section 20m from west	N
8	Drain 4		North facing section	N
9	Drain 4		North facing section	N

Black and White Film No. 1

No.	Area	Context/s	Description	From
1	Building 1		Registration	
2	Building 1		Area 1 on arrival	NE
3	Building 1		East facing section of ground removed prior to AOC's arrival	W
4	Building 1		East facing section of ground removed prior to AOC's arrival	W
5	Building 1	06	South footing at 0.9m depth	E
6	Building 1	06/07	South footing at 1.5 m depth	N
7	Building 1		General shot of south footings	E
8	Building 1		General shot of south footings	N
9	Building 1	08	West facing section of ditch	W
10	Building 1	08	West facing section of ditch	W
11	Building 1	05/09	South facing section of central footings	S
12	Building 1	05/09	South facing section of central footings	S
13	Building 1		General working shot	E
14	Building 1		General working shot	E
15	Building 1	08	East facing section of ditch	E
16	Building 1	08	East facing section of ditch	E
17	Building 1	09	South facing section of northern footing	S
18	Building 1	09	South facing section of northern footing	S
19	Building 1	02-05 09	South facing section of northern footing also showing section of removed soils prior to AOC's arrival	S
20	Building 1	02-05 09	South facing section of northern footing also showing section of removed soils prior to AOC's arrival	S
21	Building 1		General shot of Area 1 following completion	NE
22	Building 1		General shot of Area 1 following completion	NE

Black and white Film No. 2

No.	Area	Context/s	Description	From
1	Building 2		Registration	
2	Building 2		Pre ex	W
3	Building 2		Pre ex	N
4	Building 2		North east-west footing	N
5	Building 2		North east-west footing	N
6	Building 2		North east-west footing	E
7	Building 2		North east-west footing	E
8	Building 2	Group 1	General shot of structure in F4	W
9	Building 2	Group 1	General shot of structure in F4	W
10	Building 2	Group 1	General shot of structure in F4	S
11	Building 2	Group 1	General shot of structure in F4	S
12	Building 2	Group 1	General shot of structure in F4	N
13	Building 2	Group 1	General shot of structure in F4	N
14	Building 2	Group 1	General shot of structure in F3	N
15	Building 2	Group 1	General shot of structure in F3	S
16	Building 2	Group 1	Section	NE
17	Building 2	Group 1	Section	NE
18	Building 2	Group 1	Section	E

19	Building 2	Group 1	Section	E
20	Building 2	Group 1	Section	S
21	Building 2	Group 1	Section	SE
22	Building 2		Relationship between (208), (202) and (209)	E
23	Building 2	(208)	West facing section showing returns	W
24	Building 2	Group 1	Western extent of (203) in F6	W
25	Building 2	Group 1	Western extent of (203) in F6	W
26	Building 2	Group 1	Western extent of (203) in F6	W
27	Building 2	Group 1	Western extent of (203) in F6	W

Black and white Film No. 3

No.	Area	Context/s	Description	From
1			Registration	
2	Building 3		Pre ex	W
3	Building 3		Pre ex	W
4	Building 3		General	W
5	Building 3		General	W
6	Building 3		General	W
7	Building 3		General	W
8	Building 3		General	S
9	Building 3		General	S

Black and white film No. 4

No.	Area	Context/s	Description	From
1			Registration	
2	Drain 1		South end of trench	S
3	Drain 1		South end of trench	S
4	Drain 1		East facing section of trench	E
5	Drain 1		East facing section of trench	E
6	Drain 1		East facing section of trench	E
7	Drain 1		East facing section of trench	E
8	Drain 1		General view	N
9	Drain 1		General view	N
10	Drain 1		West facing section of pipe trench	W
11	Drain 1		West facing section of pipe trench	W

Black and white film No. 5

No.	Area	Context/s	Description	From
1			Registration	
2	Drain 1		Northern facing section of trench	N
3	Drain 1		Northern facing section of trench	N
4	Drain 1		Northern facing section of trench	N
5	Drain 1		North facing section of trench	N
6	Drain 1		South facing section of trench	S
7	Drain 1		South facing section of trench	S
8	Drain 1		South facing section of trench	S
9	Drain 1		South facing section of trench	S
10	Drain 1		General shot	E

11	Drain 1		General shot	E
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Black and white film No. 6

No.	Area	Context/s	Description	From
1			Registration	
2			North end of pipe trench	E
3			North end of pipe trench	E
4			General pipe trench	N
5			General pipe trench	N
6			General pipe trench	N
7			General pipe trench	N

Black and white film No. 7

No.	Area	Context/s	Description	From
1			Registration	
2	Attenuation tank		Pre excavation	SSE
3	Attenuation tank		SE facing section	NW
4	Attenuation tank		SE facing section	NW
5	Drain 2		SE facing section	NW
6	Drain 2		SE facing section	NW
7	Drain 2		General post excavation	SW
8	Drain 2		General post excavation	SW
9	Attenuation tank		Working shot	SW
10	Attenuation tank		Working shot	SW
11	Attenuation tank		North end	W
12	Attenuation tank		General section showing made ground	SW
13	Drain 3		Pre excavation	SW
14	Drain 3		E facing section	W
15	Drain 3		E facing section	W
16	Drain 3		General post excavation	S
17	Attenuation tank		NE facing section during excavation	SW
18	Attenuation tank		NE facing section during excavation	SW
19	Attenuation tank		NE facing section post excavation	SW
20	Attenuation tank		NE facing section post excavation	SW
21	Attenuation tank		General post excavation	SSE
22	Attenuation tank		General post excavation	SSE

23	Attenuation tank		NW facing section	SE
24	Attenuation tank		NW facing section	SE
25	Attenuation tank		SW facing section	NE
26	Attenuation tank		SW facing section	NE
27	Attenuation tank		SE facing section	NW
28	Attenuation tank		SE facing section	NW

Black and white No. 8

No.	Area	Context/s	Description	From
1	Pond		Registration	
2	Pond		Working shot	SE
3	Pond		Working shot	SE
4	Pond		Working shot	SE
5	Pond		Working shot	SE
6	Pond		East facing section of base of pond showing canal base	W
7	Pond		East facing section of base of pond showing canal base	W
8	Pond		South edge of canal	W
9	Pond		South edge of canal	W
10	Pond		General post excavation	NW
11	Pond		General post excavation	NW
12	Pond		General post excavation	SE
13	Pond		General post excavation	SE

Black and white No. 9

No.	Area	Context/s	Description	From
1			Registration	
2	Drain 4		North section west end	NW
3	Drain 4		North section west end	NW
4	Drain 4		Working shot	W
5	Drain 4		Working shot	W
6	Drain 4		North facing section 20m from west	N
7	Drain 4		North facing section 20m from west	N
8	Drain 4		North facing section	N
9	Drain 4		North facing section	N

Digital Images No. 1

No.	Area	Context/s	Description	From
1	1		Registration	
2	1		Area 1 on arrival	NE
3	1		East facing section of ground removed prior to AOC's arrival	W
4	1		East facing section of ground removed prior to AOC's	W

			arrival	
5	1	06	South footing at 0.9m depth	E
6	1	06/07	South footing at 1.5 m depth	N
7	1		General shot of south footings	E
8	1		General shot of south footings	N
9	1	08	West facing section of ditch	W
10	1	08	West facing section of ditch	W
11	1	05/09	South facing section of central footings	S
12	1	05/09	South facing section of central footings	S
13	1		General working shot	E
14	1		General working shot	E
15	1	08	East facing section of ditch	E
16	1	08	East facing section of ditch	E
17	1	09	South facing section of northern footing	S
18	1	09	South facing section of northern footing	S
19	1	02-05 09	South facing section of northern footing also showing section of removed soils prior to AOC's arrival	S
20	1	02-05 09	South facing section of northern footing also showing section of removed soils prior to AOC's arrival	S
21	1		General shot of Area 1 following completion	NE
22	1		General shot of Area 1 following completion	NE

Digital Images No. 2

No.	Area	Context/s	Description	From
1	Building 2		Registration	
2	Building 2		Pre ex	W
3	Building 2		Pre ex	N
4	Building 2		North east-west footing	N
5	Building 2		North east-west footing	N
6	Building 2	Group 1	General shot of structure in F4	W
7	Building 2	Group 1	General shot of structure in F4	W
8	Building 2	Group 1	General shot of structure in F4	S
9	Building 2	Group 1	General shot of structure in F4	S
10	Building 2	Group 1	General shot of structure in F4	N
11	Building 2	Group 1	General shot of structure in F4	N
12	Building 2	Group 1	General shot of structure in F3	N
13	Building 2	Group 1	General shot of structure in F3	S
14	Building 2	Group 1	Section	NE
15	Building 2	Group 1	Section	E
16	Building 2	Group 1	Section	SE
17	Building 2		Relationship between (208), (202) and (209)	E
18	Building 2	(208)	West facing section showing returns	W
19	Building 2	Group 1	Western extent of (203) in F6	W
20	Building 2	Group 1	Western extent of (203) in F6	N
21	Building 2	Group 1	Western extent of (203) in F6	W
22	Building 2	Group 1	Western extent of (203) in F6	W
23	Building 2	Group 1	Western extent of (203) in F6	N
24	Building 2	Group 1	Western extent of (203) in F6	N
25	building 2	Group 1	Western extent of (203) in F6	W

Digital Images No. 3

No.	Area	Context/s	Description	From
1			Registration	
2	Building 3		Pre ex	W
3	Building 3		Pre ex	W
4	Building 3		General	W
5	Building 3		General	W
6	Building 3		General	S

Digital Images No. 4

No.	Area	Context/s	Description	From
1			Registration	
2	Drain 1		South end of trench	S
3	Drain 1		South end of trench	S
4	Drain 1		East facing section of trench	E
5	Drain 1		East facing section of trench	E
6	Drain 1		East facing section of trench	E
7	Drain 1		East facing section of trench	E
8	Drain 1		General view	N
9	Drain 1		General view	N
10	Drain 1		West facing section of pipe trench	W
11	Drain 1		West facing section of pipe trench	W

Digital images No. 5

No.	Area	Context/s	Description	From
1			Registration	
2	Drain 1		North facing section of trench	N
3	Drain 1		North facing section of trench	N
6	Drain 1		South facing section of trench	S
7	Drain 1		South facing section of trench	S
10	Drain 1		General shot	E
11	Drain 1		General shot	E

Digital images No. 7

No.	Area	Context/s	Description	From
1			Registration	
2	Attenuation tank		Pre excavation	SSE
3	Attenuation tank		SE facing section	NW
4	Drain 2		SE facing section	NW
5	Drain 2		General post excavation	SW
6	Attenuation tank		Working shot	SW
7	Attenuation tank		Working shot	SW
8	Attenuation tank		Working shot	SW

9	Attenuation tank		North part showing made ground	W
10	Attenuation tank		General section showing made ground	SW
11	Drain 3		Pre excavation	SW
12	Drain 3		E facing section	W
13	Drain 3		E facing section	W
14	Drain 3		General post excavation	S
15	Attenuation tank		NE facing section during excavation	SW
16	Attenuation tank		NE facing section post excavation	SW
17	Attenuation tank		NE facing section post excavation	SW
18	Attenuation tank		General post excavation	SSE
19	Attenuation tank		General post excavation	SSE
20	Attenuation tank		NW facing section	SE
21	Attenuation tank		NW facing section	SE
22	Attenuation tank		SW facing section	NE
23	Attenuation tank		SE facing section	NW
24	Attenuation tank		SE facing section	NW

Digital images No. 8

No.	Area	Context/s	Description	From
1	Pond		Registration	
2	Pond		Working shot	NW
3	Pond		Working shot	NW
4	Pond		Working shot	SE
5	Pond		Working shot	SE
6	Pond		East facing section of base of pond showing canal base	W
7	Pond		East facing section of base of pond showing canal base	W
8	Pond		South edge of canal	W
9	Pond		South edge of canal	W
10	Pond		General post excavation	NW
11	Pond		General post excavation	NW
12	Pond		General post excavation	SE
13	Pond		General post excavation	SE

Digital images No. 9

No.	Area	Context/s	Description	From
1			Registration	
2	Drain 4		North section west end	NW

3	Drain 4		North section west end	NW
4	Drain 4		Working shot	W
5	Drain 4		North facing section 20m from west	N

Appendix 3

Drawing Register

Plan Register

No.	Area	Context/s	Description	Scale
1	Building 1		Footing locations	1:50
2	Building 2		Footing locations	1:50

Section Register

No.	Area	Context/s	Description	Scale
1	Building 1	105-109	West facing section of ditch	1:10
2	Building 1	101-105	Sample section of removed deposits prior to AOC's arrival	1:10
3	Building 1	105 109	Sample section of central footings	1:10
4	Building 1	105-109	East facing section of ditch	1:10
5	Building 2	202-210	Section through Group 1 structure in F3	1:10
6	Building 2	201-202	Section of F1 footing	1:10
7	Pond	330-336	Sample section of pond	

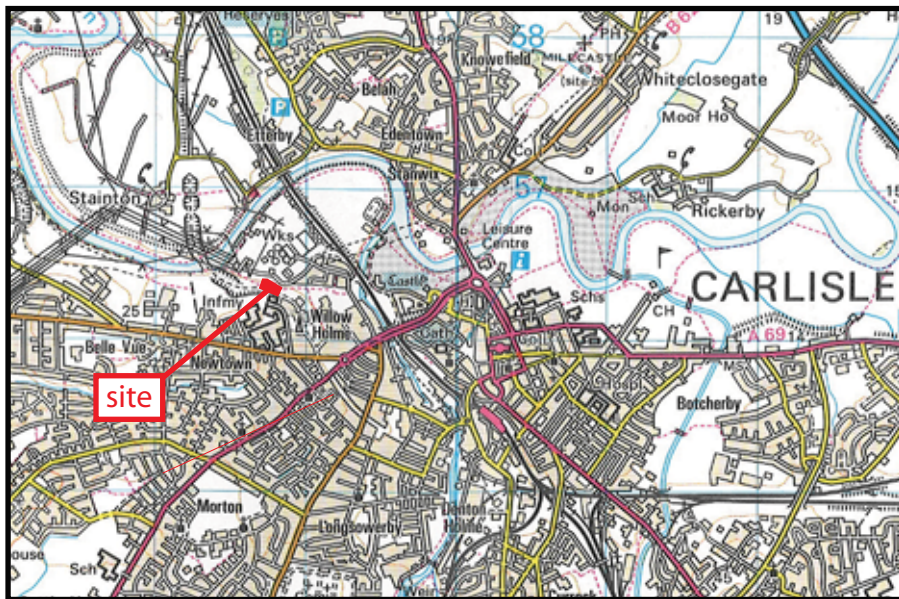


Figure 1: Site location

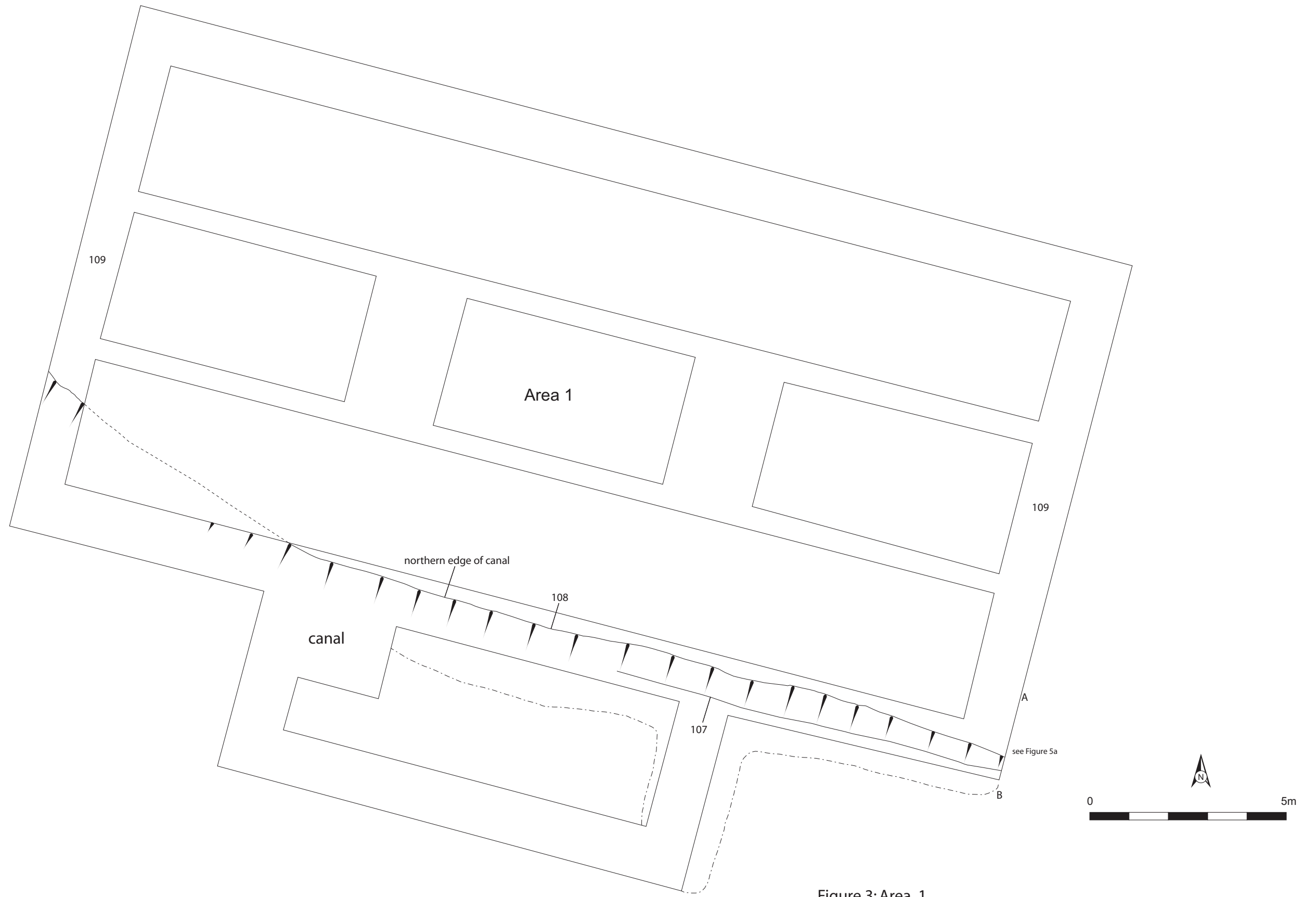


Figure 3: Area 1

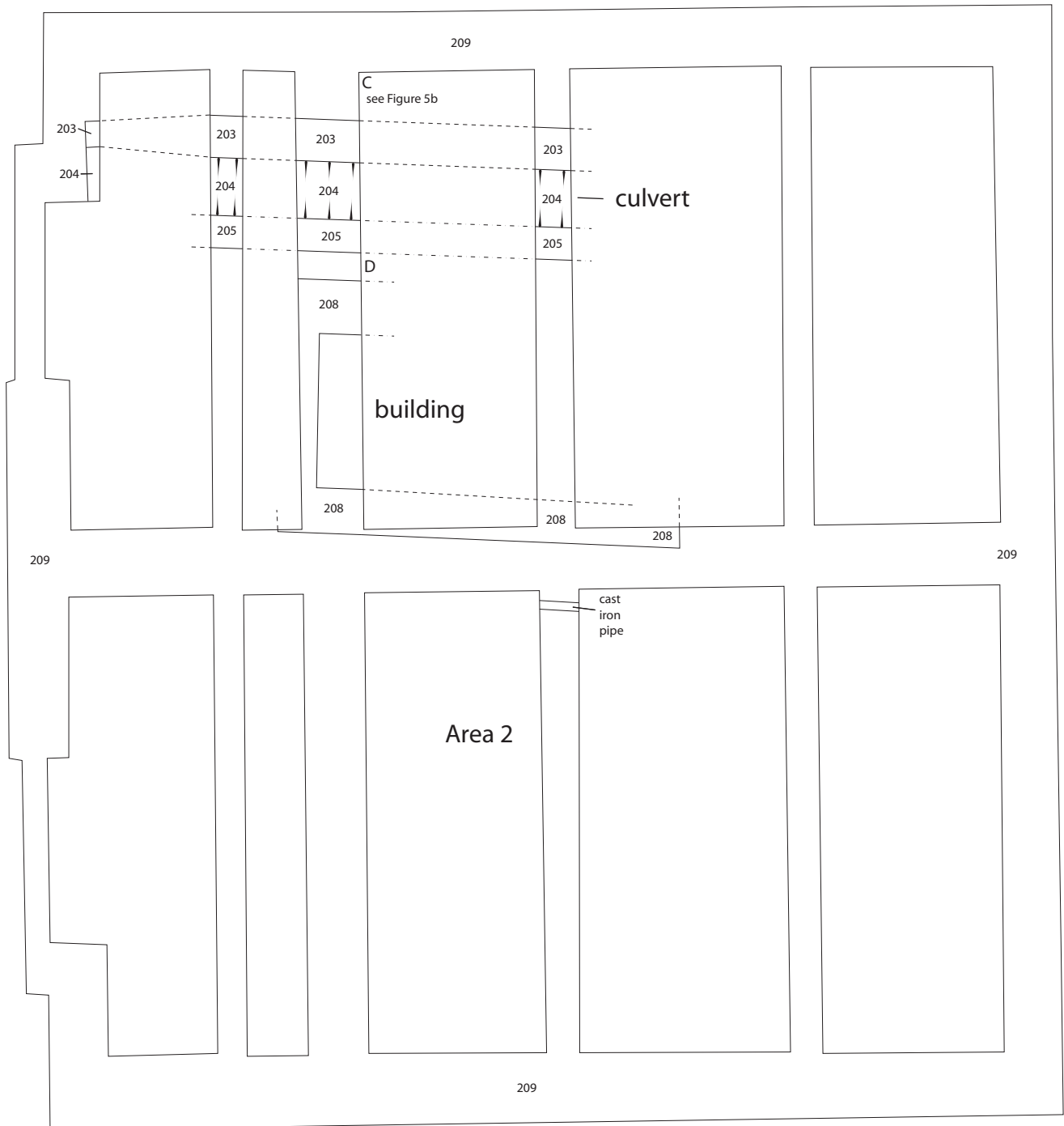


Figure 4: Area 2



Figure 5a

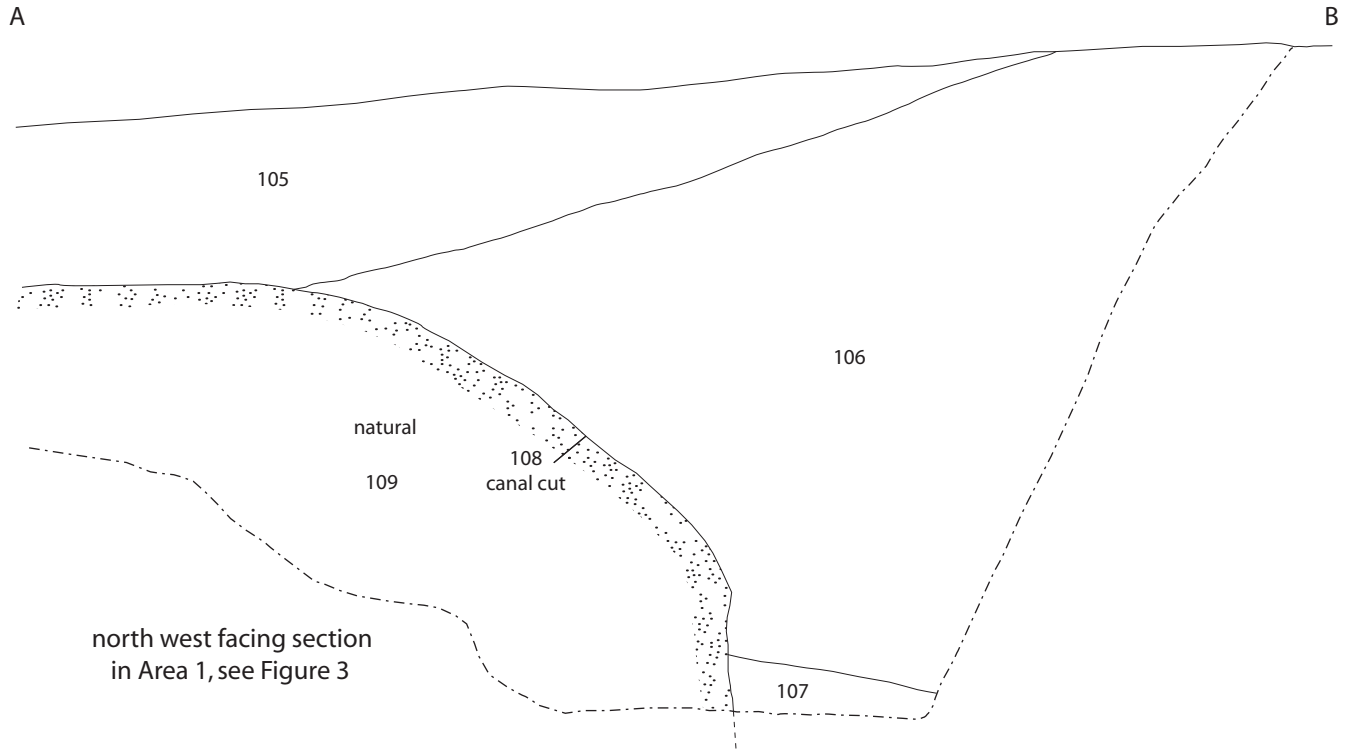


Figure 5b

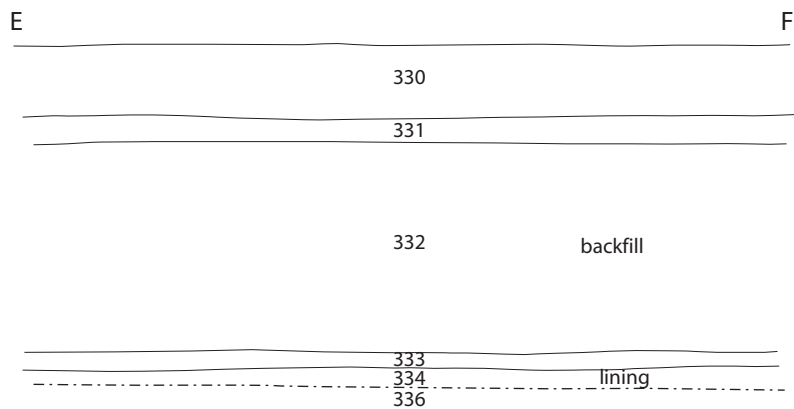
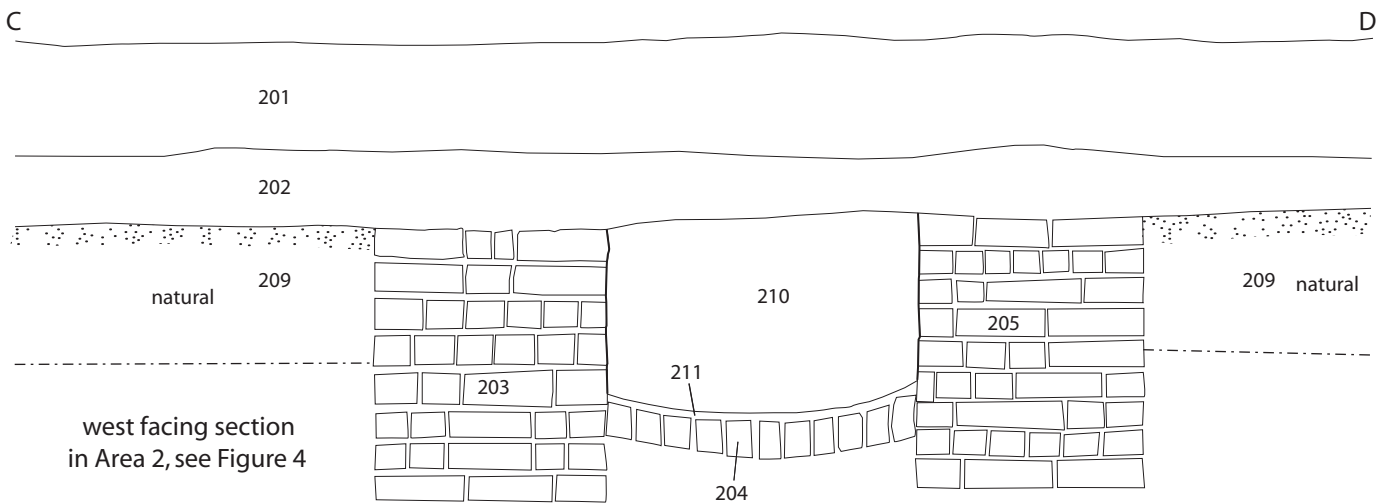


Figure 5c



Figure 5: sections

west facing section
Pond see Figure 2



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